

**6.3.3 Average number of professional development / administrative training programs organized by the institution for teaching and non teaching staff during the last five years**

S.No.	Dates (from-to) (DD-MM-YYYY)	Title of the professional development/ administrative training programs organised for teaching staff (Professional development/ administrative training programs)	No. of participants	Page No
1	2020-21	AICTE sponsored online one week FDP on "Seismic and Windloads on Buildings - Applications of ETABS and ANSYS FLUENT"	119	2
2	19-10-2020 to 23-10-2020	ATAL FDP ON MOLECULAR MANUFACTURING	110	32
3	16-11-2020 to 28-11-2020	AICTE Sponsored Two Week FDP on Research Methodologies and Statistical Data Analysis Phase 1	121	49
4	14-12-2020 to 26-12-2020	AICTE Sponsored Two Week FDP on Research Methodologies and Statistical Data Analysis - phase2	73	65
5	17-06-2021	One Day Workshop on Smart Manufacturing: Connected Factories	92	77
6	03-04-2021 to 04-04-2021	International Conference on "Developments In Sustainable Materials, Manufacturing and Energy Engineering" (ICDSME-2021)	25	89
7	20-02-2021	Online speaker session by Ms.Samhitha reddy -founder of Chocolate box	72	99
8	28-05-2021	Guest lecture : Be Beyond Being - Being Innovative in an Entrepreneurial Journey	20	103
9	03-03-2021	Innovative Application of 3D printing - Speaker: Dr. L. Siva Rama Krishna on the occasion of SUDHEE MECHANICA	27	112
10	03-08-2020 to 08-08-2020	Trends & Challenges of Hybrid Electric Drive Utilities in Transport Sector- Phase-I	91	118
11	02-11-2020 to 07-11-2020	Trends & Challenges of Hybrid Electric Drive Utilities in Transport Sector- Phase-II	48	150
12	22-02-2021 to 27-02-2021	Trends & Challenges of Hybrid Electric Drive Utilities in Transport Sector- Phase-III	52	186
13	18-01-2021 to 30-01-2021	Laboratory Experiments Analysis for Reinforcement of Nexus ( Non teaching)	9	218

**CHIEF PATRON**

**Kavi Kireeti Dr. V MALAKONDA REDDY**  
President, CBIT

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Principal, CBIT

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Head, Dept. of Civil Engineering

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Head, Dept. of Mechanical Engineering

**Prof. D. KRISHNA REDDY** (Member)  
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**Registration Fee**

**Free**

**IMPORTANT DATES**

Last date for Registration : **12-12-2020**  
Intimation of selection : **13-12-2020**

**WHO CAN APPLY?**

Faculty and Research Scholars from AICTE approved institutions can register. Selected participants will be informed through mail. Selection is based on first-come-first-serve basis.

**HOW TO APPLY**

The applicant's should fill the Registration Form through Google Forms using below link

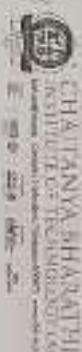
A test will be conducted at the end of the program and joint certificates shall be issued (by AICTE & conducting institute) to those participants who have attended the program and have scored minimum 60% marks in the test.

Also, course material (2 textbooks) will be sent to 40 registered participants based on the performance in the test and who maintain more than 80% attendance in the course.

**REGISTRATION LINK**

<https://forms.gle/84CSr4niz1tJHUN6>

**PROFESSOR & HEAD**



**41**



**AICTE – Sponsored  
TWO-WEEK ONLINE**

**FACULTY DEVELOPMENT PROGRAM  
(FDP)**

on

**SEISMIC AND WIND  
LOADS ON BUILDINGS  
AND APPLICATIONS OF  
ETABS AND ANSYS  
FLUENT**

**14<sup>th</sup> – 26<sup>th</sup> December, 2020**

Organized by

**DEPARTMENT OF CIVIL  
ENGINEERING**

## CHAITANYA BHARATHI INSTITUTE OF TECHNOLOGY (Autonomous)

CBIT, established in the Year 1979, has developed in Four Decades of its journey, as one of the Premier Engineering Institute in INDIA, in Telangana State. The Institute offers Eleven UG and Eleven PG Programs into which Brilliant and Meritorious Candidates with good EAMCET Rank are seeking admissions at CBIT. CBIT Students are prepared and perfected holistically to secure Placements in reputed National and Multi-National Industries. Alumni, nearly 25,000 Graduate Engineers, are successfully placed in their Careers and as Entrepreneurs Globally. The Institute has been granted Autonomous Status from the Academic Year 2013-14 onwards.



### ABOUT THE DEPARTMENT

The Department of Civil Engineering was established in the year 1979 with the inception of the Institute. The department offers a Four-Year Bachelor's Degree Program in Civil Engineering and Two-Year Master's Degree. In there are

about 500 Students pursuing Bachelor's Degree and 50 Students pursuing Master's Degree in the department. Many of the faculty members hold higher degrees from reputed institutions from India like IITs, NITs, IITM and state universities and abroad. The department of civil engineering has three missions such as excellence in teaching and research; relevance to industry and society; and contribution to sustainable development. The department is well equipped with state-of-the-art laboratories to cater the needs of teaching, R&D and consultancy. The faculty of the department strive hard to impart the latest technical knowledge to the students and conduct quality research. The faculty offer technical services on live engineering problems to various government and private organizations.

### ABOUT THE FDP

With the heights of the buildings continuously on the rise and the increased frequency of the occurrence of earthquakes and cyclonic storms, the process of lateral load estimation has become a very important component of structural analysis. This necessitates the structural engineering faculty gain sound knowledge in the field, and to transfer it to the students. Though Earthquake engineering has gained a lot of importance, wind engineering on the other hand has not got its due. Hence the necessity arises to introduce wind engineering and computational fluid dynamics. The proposed programme besides dealing thoroughly with earthquake engineering would make an effort to impart introductory knowledge in Computational Fluid Dynamics (CFD), which is an emerging area in the field of engineering.

**PROFESSOR IN CHARGE**

Department of Civil Engineering

The department has the required softwares like ETABS, ANSYS FLUENT etc., available and the participants will get good exposure to these softwares.

### COURSE CONTENT

- Introduction to Engineering Seismology
- Structural Dynamics
- Equivalent Static Method, Response Spectra Method
- Time History Analysis – Linear & Non-Linear
- Pushover Analysis
- Vibration Control Techniques
- Seismic Retrofitting
- Review of Wind Loads
- Introduction to Computational Fluid Dynamics
- Application of CFD to Structures
- Review of relevant codes

### OBJECTIVES

- To make the participants acquire good conceptual knowledge in the fields of Earthquake engineering and Wind Engineering
- To introduce Computational Fluid Dynamics to the participants which enables them explore the research possibilities in the area.
- To make the participants well versed in the software applications of both earthquake engineering and wind engineering

### RESOURCE PERSONS

Faculty from IIT'S, NIT'S, Universities, CBIT and other reputed institutions and Scientists from reputed organizations

Schedule for Week 1

Inaugural session (9.30AM – 10.00AM)

Forenoon Timings: - Session 1 - (10.00 AM – 11.30 AM)

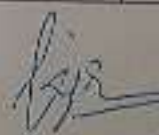
Session 2 - (11.30 AM – 01.00 PM)

Afternoon Lab Session Timings - (02.00 PM – 03.30 PM)

Link for forenoon sessions (for all days) - <https://meet.google.com/oym-kmwwg-ztp>

Link for afternoon sessions (for all days) - <https://meet.google.com/gsv-fyut-sww>

Day No.	Forenoon Session	Afternoon session
14-12-2020	Engineering Seismology Dr. SriNagesh, Chief Scientist, CSIR- NGRI, Hyderabad	Lab session -1 Introduction to ETABS
	Strong motion studies Prof. S.T.G.Raghukanth Professor, CED, IITM - Chennai	
15-12-2020	Structural Dynamics-I Prof. N. Murali Krishna, University College of engineering, Osmania University, Hyderabad	Lab session -2 Analysis of buildings subjected to Static loads
	Structural Dynamics-II Prof. N. Murali Krishna, University College of engineering, Osmania University, Hyderabad	
16-12-2020	Review of IS 1893 & Seismic coefficient method A Balaji Rao, Associate Professor, CED, CBIT	Lab session -3 Seismic loads on buildings Equivalent Static method Response Spectrum method
	Response spectrum method Dr. C. B. Kameshwar Rao, Professor, Department of Civil Engineering, NIT WARANGAL	
17-12-2020	Linear Time History Analysis Ramancharla Pradeep Kumar, Professor, Department of civil Engineering, IITH	Lab session -4 Time History Analysis- Linear Time History Analysis- Non linear
	Nonlinear Time History Analysis Ramancharla Pradeep Kumar, Professor, Department of civil Engineering, IITH	
18-12-2020	Pushover Analysis Dr. A. Vimala, Head, CED, CBIT	Lab session -5 Pushover Analysis and review of ETABS
	Ductile Detailing Dr. D. Ramaseshu, Professor, Department of Civil Engineering, NITW	



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## Schedule for Week 2

Forenoon Timings: - Session 1 - (10.00 AM – 11.30 AM)

Session 2 - (11.30 AM – 01.00 PM)

Afternoon Lab Session Timings - (02.00 PM – 03.30 PM)

Link for forenoon sessions - <https://meet.google.com/oym-kmwg-ztp>

Link for afternoon sessions - <https://meet.google.com/gsv-fyut-sww>

Day No.	Fore noon Session No.		After noon session
21-12-2020	Fragility Analysis Dr. Karthik Narayan, Engineering Research at AIR Worldwide, BOSTON (8.30 to 10.00 am)	L U n c h 1 - 0 0 P M	Lab session -6 Practice session -1 (12.00 to 01.00 pm)
	Seismic Analysis in India-An Overview C.V.R Murty, Professor, CED, IITM, CHENNAI (10 to 11.30 am)		
22-12-2020	Ground response analysis Dr. G. V. Ramana, Professor, CED, IIT, DELHI	- 2 - 0 0 P M	Lab session -7  Practice session-2
	FE Modelling of external beam column joints of buildings for seismic loads Dr. G. Appa Rao, Professor, CED, IITM		
23-12-2020	Wind loads of INDIA – An Overview Dr. Prem Krishna, Professor(Retd), CED, IIT ROORKEE	M	Lab session -8 Introduction to ANSYS Fluent, INDIRA PRIYADARSHINI, MED, CBIT
	IS 875: PART-III A Balaji Rao, Associate Professor, CED, CBIT		
24-12-2020	Applications of CFD 1 Indira Priyadarshini, Assistant Professor, MED, CBIT		Lab session -9 Application of ANSYS Fluent to buildings, INDIRA PRIYADARSHINI, MED, CBIT
	Applications of CFD 2 Indira Priyadarshini, Assistant Professor, MED, CBIT		
26-12-2020	Turbulence Modelling 1 Dr. Pothuri Venkateshwara Rao, Associate Professor, MED, Vasavi college of Engg, Hyderabad		Valedictory session
	Turbulence modelling 2 Dr. Pothuri Venkateshwara Rao, Associate Professor, MED, Vasavi college of Engg, Hyderabad		

*(Signature)*  
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# CHAITANYA BHARATHI INSTITUTE OF TECHNOLOGY (A)

Date: 20-03-2021

Report submitted to AICTE  
by  
Program Evaluation Committee  
A two week online FDP

on  
"Seismic and Wind Loads on Buildings and Applications of ETABS and  
ANSYS Fluent"


A two week online FDP on "Seismic and Wind Loads on Buildings and Applications of ETABS and ANSYS Fluent" was conducted during 14-12-2020 to 26-12-2020. In view of the COVID situation, the programme was converted from offline mode to online mode. A total of 141 candidates registered for the program out of which 119 eligible candidates were given admission. The PEC in its meeting held on 12-12-2020 decided that 75% minimum attendance and 60% marks in the test as the eligibility criteria for the award of participation certificates. Out of the 73 candidates attended for the program, 51 candidates satisfied the criteria and were awarded the certificates.

As part of the program, 20 theory sessions and 10 lab sessions were conducted and eminent people from IITs, NITs, IIT and industry are drawn for delivering lectures and were well received by the participants. Various topics on seismic and wind loads were covered in the morning sessions and in the afternoon sessions softwares (ETABS and ANSYS Fluent) were demonstrated. A one month free version of ETABS was provided to all the participants which enabled them get good practice of the software. The feedback (about 4.7 to 4.8 out of 5) from the participants shows that they were immensely benefitted from the programme.

An amount of Rs.3,40,000 was sanctioned out of which Rs. 1,47,738 was spent on the conduct of the program and the remaining amount is being returned to AICTE.

The program was designed with the following objectives

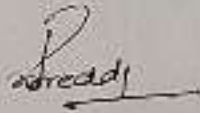
- i. To make the participants acquire good conceptual knowledge in the fields of Earthquake engineering and Wind engineering
- ii. To introduce Computational Fluid Dynamics to the participants which enables them explore the research possibilities in the area

  
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- iii. To make the participants well versed in the software applications of both earthquake engineering and wind engineering

The committee feels that, with the successful conduct of the programme, the objectives are achieved.

Program Evaluation Committee members



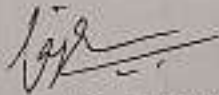
Dr. P. V. R. Ravindra Reddy, Head, MED(Member)



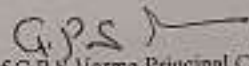
Sri A. Balaji Rao, Coordinator(Member Secretary)



Prof. M. Koti Reddy, Professor, CED(Subject Expert)



Dr. K. Jagannadha Rao, Head, CED(Member)



Prof. G. P. S. Varma, Principal, CBIT(Chairperson)



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Department of Civil Engineering


PROCEEDINGS AND CLOSING REPORT OF FDP

An AICTE sponsored two week online FDP on "Seismic and Wind loads on buildings and applications of ETABS and ANSYS Fluent" was conducted by the Department of Civil Engineering during 14-12-2020 to 26-12-2020. The schedule of the sessions of the online FDP are listed below:

Day No.	Fore noon Session No.		After noon session
14-12-2020	Engineering Seismology Dr. SriNagesh, Chief Scientist, CSIR- NGRI, Hyderabad	L u n c h 1 . 0 0 P M - 2 . 0 0 P M	Lab session -1 Introduction to ETABS Javed Jilani Khan Metro Engineering Consultants, Hyderabad
	Strong motion studies Prof. S.T.G.Raghukanth Professor, CED, IITM - Chennai		
15-12-2020	Structural Dynamics-I Prof. N. Murali Krishna, University College of engineering, Osmania University, Hyderabad		Lab session -2 Analysis of buildings subjected to Static loads Javed Jilani Khan Metro Engineering Consultants, Hyderabad
	Structural Dynamics-II Prof. N. Murali Krishna, University College of engineering, Osmania University, Hyderabad		
16-12-2020	Review of IS 1893 & Seismic coefficient method A Balaji Rao, Associate Professor, CED, CBIT		Lab session -3 Seismic loads on buildings Equivalent Static method Response Spectrum method Javed Jilani Khan Metro Engineering Consultants, Hyderabad
	Response spectrum method Dr. C. B. Kameshwar Rao, Professor, Department of Civil Engineering, NIT WARANGAL		
17-12-2020	Linear Time History Analysis Ramancharla Pradeep Kumar, Professor, Department of civil Engineering, IITTH		Lab session -4 Time History Analysis- Linear Time History Analysis- Non linear Javed Jilani Khan Metro Engineering Consultants, Hyderabad
	Nonlinear Time History Analysis		

*bjs*  
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	Ramancharla Pradeep Kumar, Professor, Department of civil Engineering, IITH	
18-12-2020	Pushover Analysis Dr. A. Vimala, Head, CED, CBIT	Lab session -5  Pushover Analysis and review of ETABS Javed Jilani Khan Metro Engineering Consultants, Hyderabad
	Ductile Detailing Dr. D. Ramaseshu, Professor, Department of Civil Engineering, NITW	
21-12-2020	Fragility Analysis Dr. Karthik Narayan (8.30 to 10.00 am)	Lab session -6  Practice session -1
	Seismic Analysis in India-An Overview C.V.R Murty, IITM, CHENNAI (10 to 11.30 am)	
22-12-2020	Ground response analysis Dr. G. V. Ramana, Professor, CED, IIT, DELHI	Lab session -7  Practice session-2
	FE Modelling of external beam column joints of buildings for seismic loads Dr. G. Appa Rao, Professor, Civil Engineering Department, IITM	
23-12-2020	Wind loads of India - An overview Dr. Prem Krishna, Professor(Retd), CED, IIT ROORKEE	Lab session -8 Introduction to ANSYS Fluent, Indira Priyadarshini, Department of Mechanical Engineering, CBIT
	IS 875: PART-III A Balaji Rao, Associate Professor, CED, CBIT	
24-12-2020	Applications of CFD 1 Indira Priyadarshini, Assistant Professor, Department of Mechanical Engineering, CBIT	Lab session -9 Application of ANSYS Fluent to buildings Indira Priyadarshini, Assistant Professor, Department of Mechanical Engineering, CBIT


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	Applications of CFD 2 Indira Priyadarshini, Department of Mechanical Engineering, CBIT	
26-12-2020	Turbulence Modelling 1 Dr. Pothuri Venkateshwara Rao, Associate Professor, MED, Vasavi college of Engg, Hyderabad	Lab session-11 Wind loads on buildings - A CFD Approach K. Suresh, Assistant Executive Engineer, Irrigation Dept, Government of Telangana
	Turbulence modelling 2 Dr. Pothuri Venkateshwara Rao, Associate Professor, MED, Vasavi college of Engg, Hyderabad	Wind loads on buildings - A CFD Approach Valedictory session


The proceedings of the FDP can be accessed day wise using the following link:

<https://drive.google.com/file/d/1sb0aT9q53rtOkDQsYXqFOg1kIXw/2222/view?usp=sharing>

6

The program over a period of 2 weeks consisted of 20 theory and 10 lab sessions with eminent resource persons drawn from IITs, IIITs and NITs. The program was designed with the following objectives

- i. To make the participants acquire good conceptual knowledge in the fields of Earthquake engineering and Wind engineering
- ii. To introduce Computational Fluid Dynamics to the participants which enables them explore the research possibilities in the area
- iii. To make the participants well versed in the software applications of both earthquake engineering and wind engineering

  
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The committee feels that, with the successful conduct of the programme, the objectives are achieved.

A total of 73 participants attended the program of which 53 were able to successfully complete the program based on minimum attendance and marks criteria decided by the Program Evaluation Committee (PEC). The sessions were very interactive with participants actively taking part in them.

The screenshots of the two week FDP are as follows:

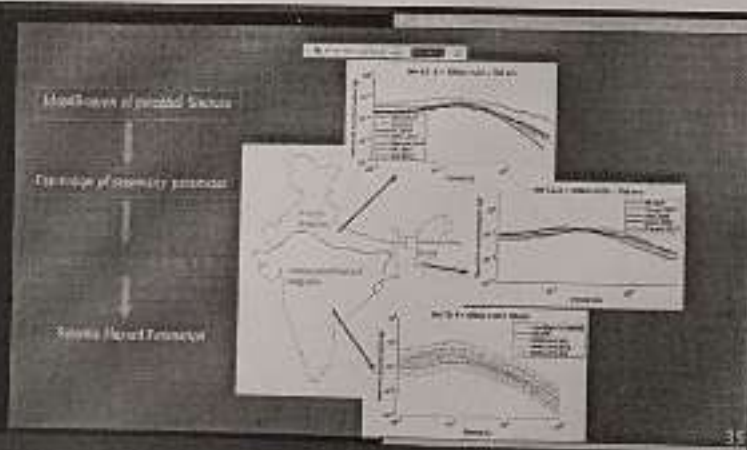
The basic earth science, seismology and geotechnical research should be country specific since this helps in estimating the earthquake Risk in realistic manner

Improved understanding of earthquake processes:

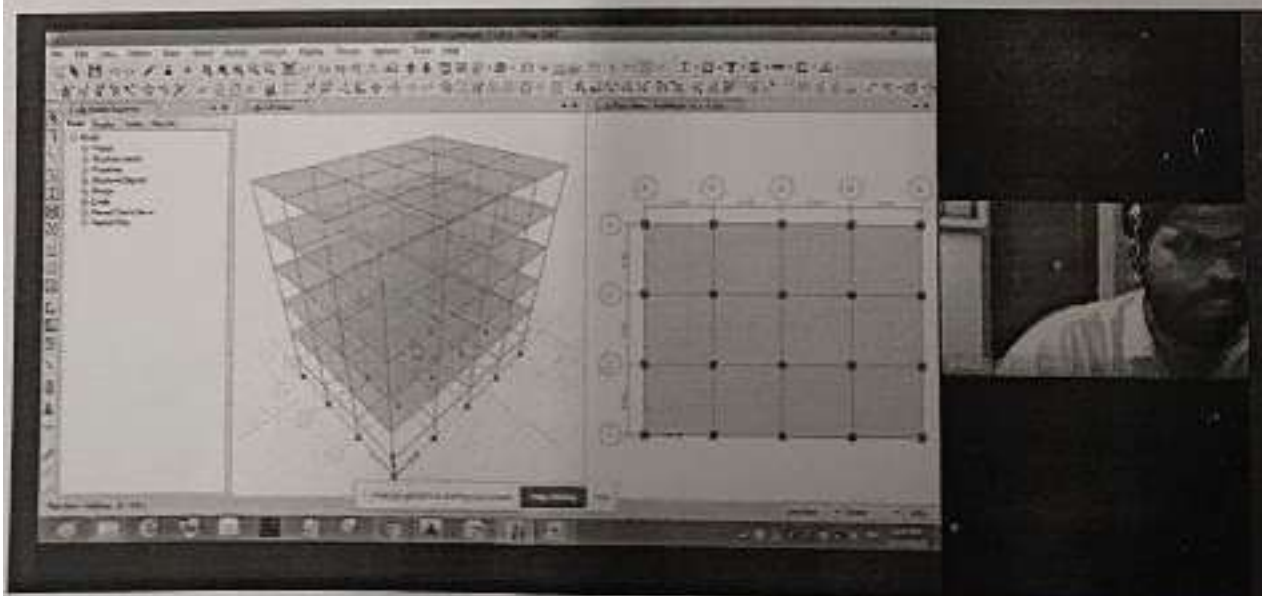
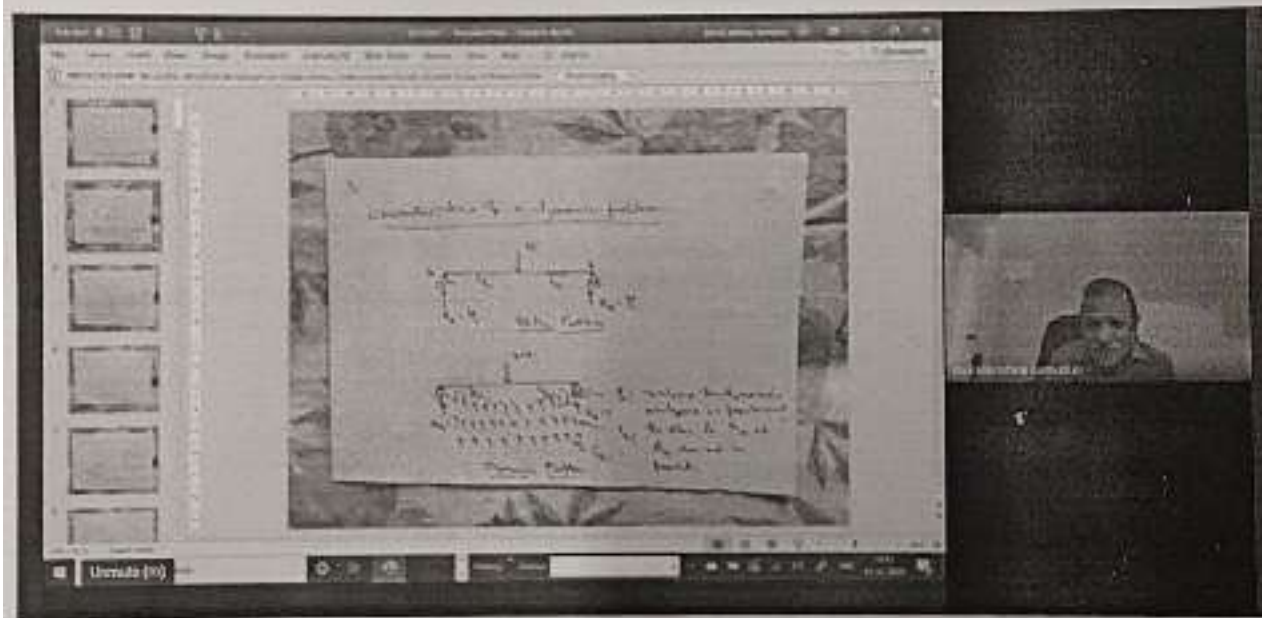
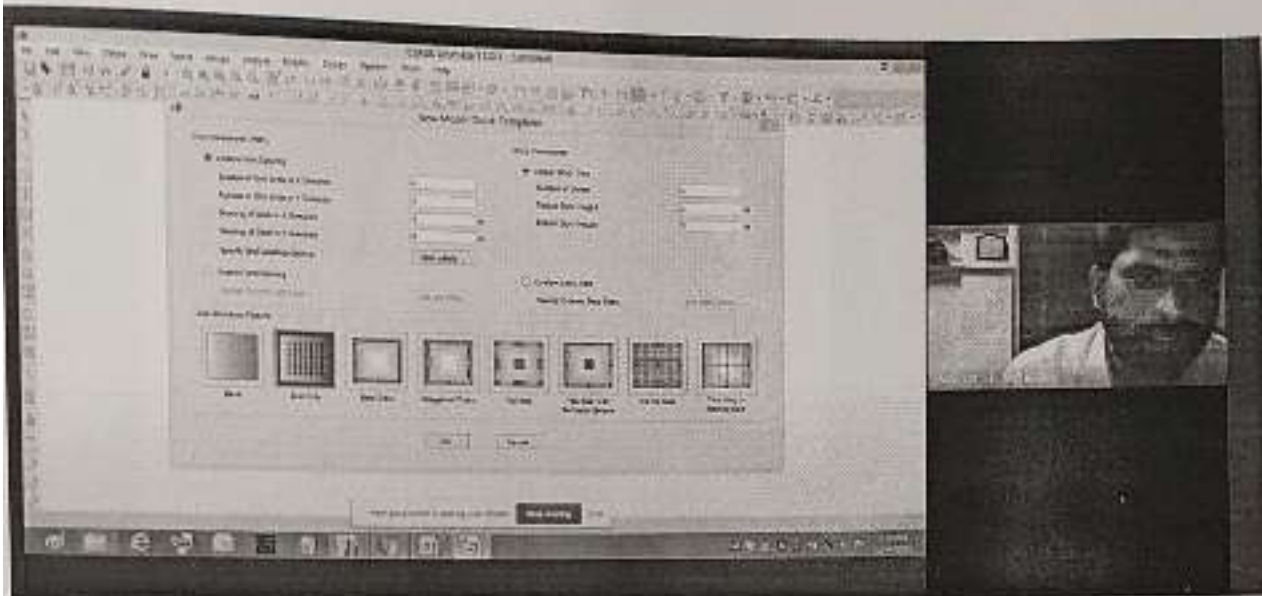
Basic research and earthquake monitoring significantly advanced the understanding of the geologic processes that cause earthquakes, the characteristics of earthquake faults, the nature of seismicity, and the propagation of seismic waves

Improved earthquake hazard assessment:

Design Ground Motion Spectra for Seismic Regulations of New Buildings and Other Structures, the foundation for the seismic elements of model building codes



  
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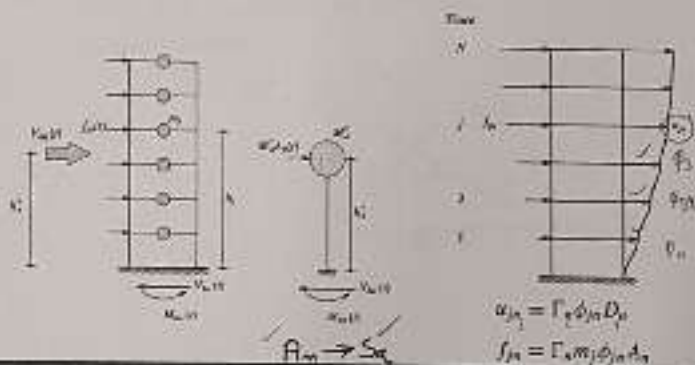
*[Signature]* PROFESSOR & HEAD  
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# Estimation of seismic loads on buildings



## Response Spectrum Method



*Prof. S. S. Srinivas*  
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## Example Problem: Eigen Value Analysis

The details of a 3 storey building with 3m x 3m plan area are as follows

- Floor to floor height = 3m
- Column dimensions = 230 x 230mm
- Thickness of slab = 100mm

Perform the Eigen value analysis and find the Eigen values and Eigen vectors by assuming the columns are mass less and infill walls are not present.

Solution

$$\text{Mass @ 1st floor} = 3 \times 3 \times 0.1 \times 25 = 22.5 \text{ kN}$$

$$\text{Since all the floors are similar, mass @ one floor} = 2250 \text{ kg}$$

$$E = 5000 \sqrt{f_{ck}}$$

$$= 5000 \sqrt{25}$$

$$= 25000 \text{ N/mm}^2$$

$$I = \frac{bd^3}{12} = \frac{230^4}{12}$$

$$= 233.2 \times 10^8 \text{ mm}^4$$

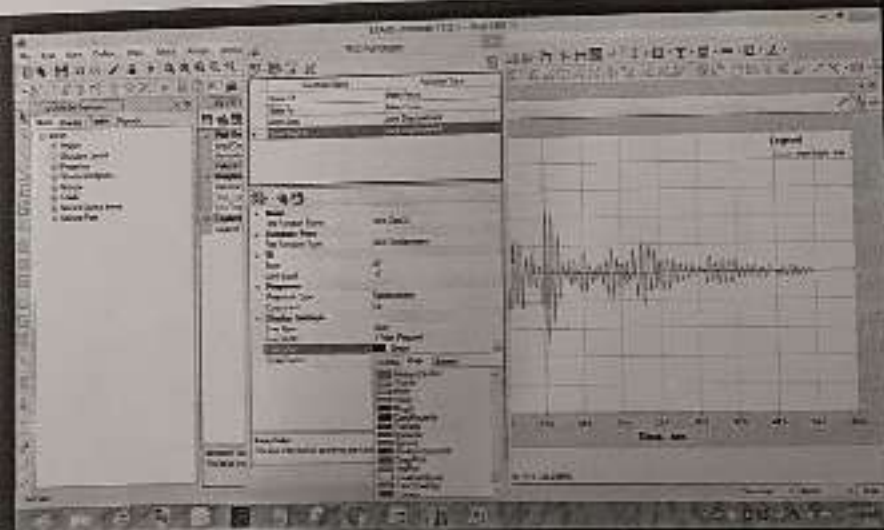
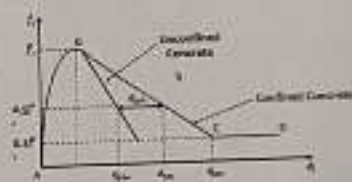


## Material: Stress-Strain Behavior

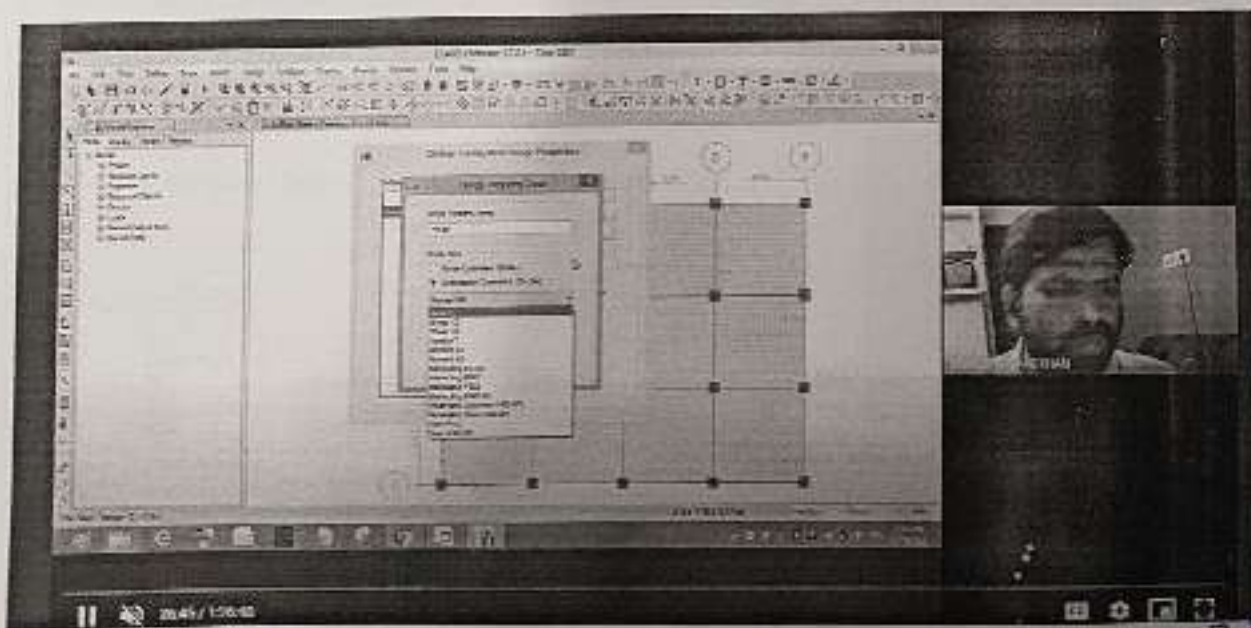
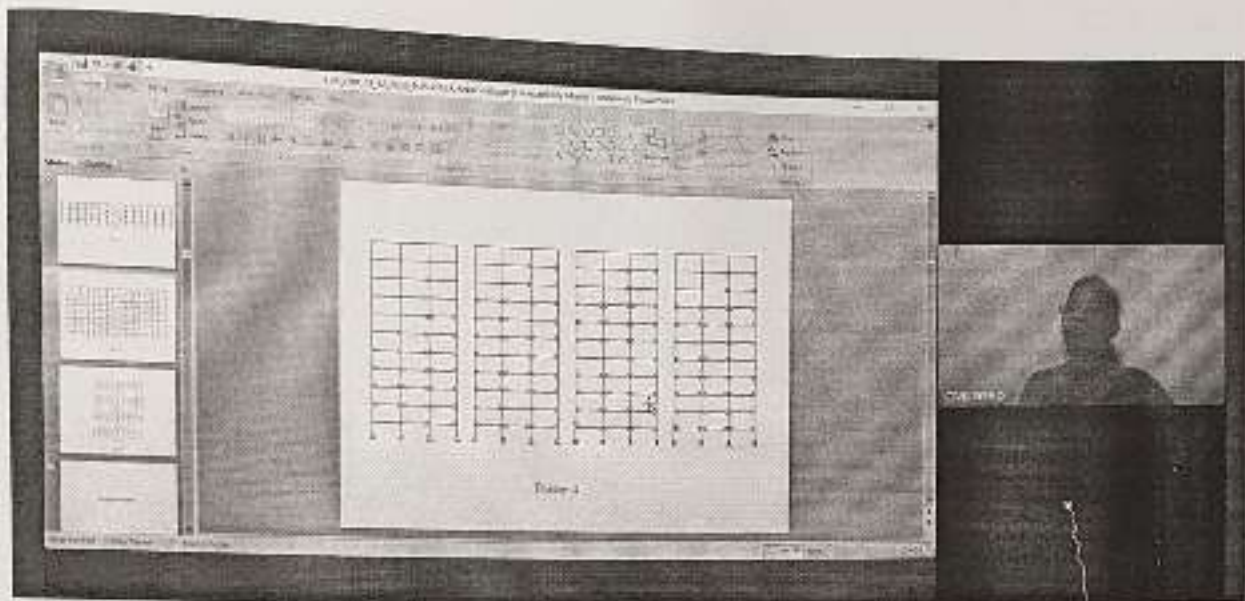
### Material Models

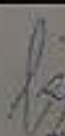
Concrete

• Kent & Park Model



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# Fragility is Rooted in Uncertainty

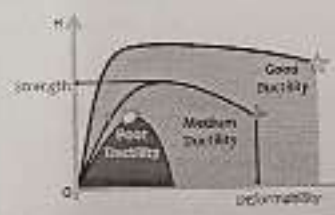
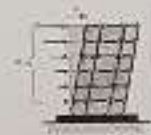
- Uncertain quantities are mathematically called random variables
  - Ex: Whether a tossed coin will land as heads or tails - uncertain
  - A particular building's capacity to resist collapse in an earthquake may not vary much over time, but one does not know that capacity before the building collapses, so it is uncertain
- Random variables are quantified using probability distributions
- Broadly speaking, we have 3 types of probability distributions
  - Probability density function (PDF)
  - Probability mass function (PMF)
  - Cumulative distribution function (CDF)



Surjit Kumar Ghosh

## Earthquake Resistant Buildings

- The 4 Virtues
  - Structural Configuration
  - Lateral Stiffness
  - Lateral Strength
  - Ductility



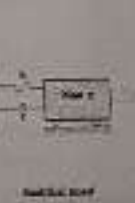
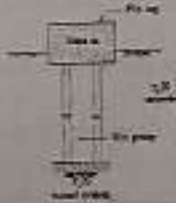
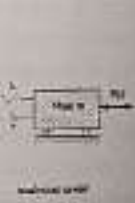
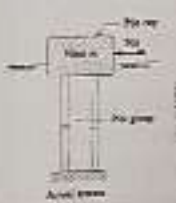
S. V. S. Murthy

## ANALYSIS

Machine Loads

Earthquake Excitation

Analytical Model



Equation of Motion

$$m\ddot{x} + c\dot{x} + kx = F_0 \sin \omega t$$

$$m\ddot{x} + c\dot{x} + kx = -m\ddot{y}_g(t)$$

$$x = z - y_g$$

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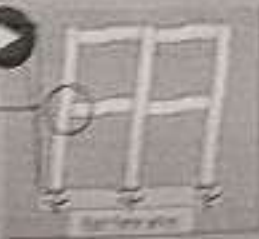


S. V. S. Murthy

## Capacity and rigidity of a moment resisting frame

Capacities of beams, columns and foundation

Rigidity of the joints



▶ 🔊 🔍 🔄 🏠

🏠 🔍 🔊 🔄 ▶

## ESSENTIALLY DYNAMIC RESPONSE Issues:

- Pressures, Load on Envelope
- Determination of Forces, Reactions
- Oscillatory Response, Accelerations
- Control of Building Vibration
- Reduction in forces
- Wind Environment near the base



### Specialty:

ANSYS FLUENT is one of the popular and multipurpose CFD solver for compressible and incompressible flows.

COMSOL is widely used in automobile industries for FEA, Engine modeling and fluid simulation.

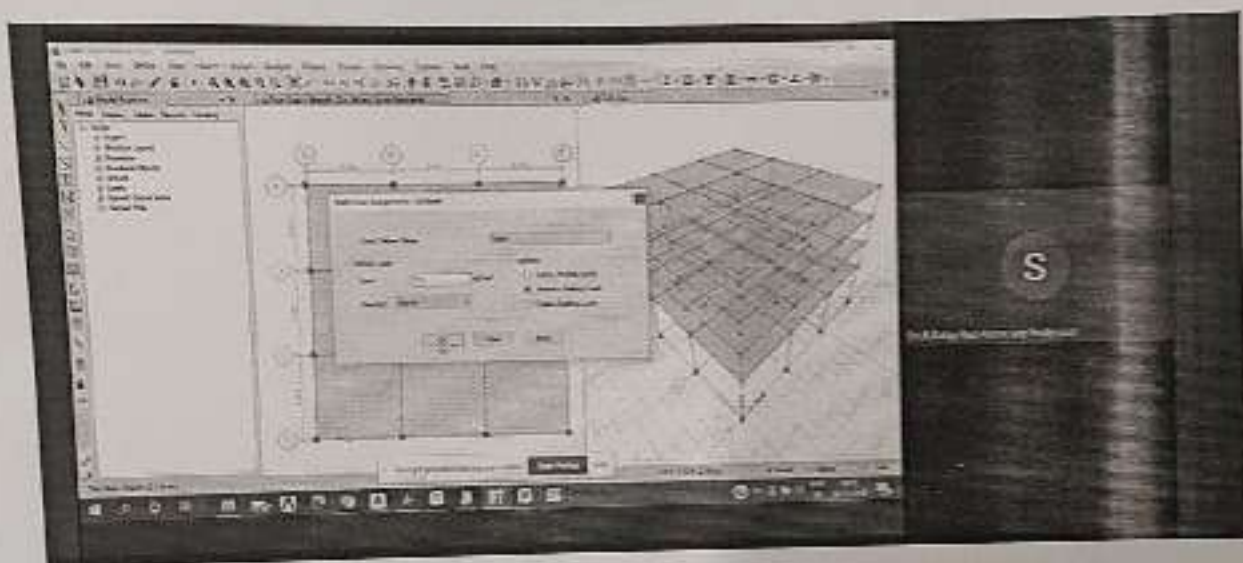
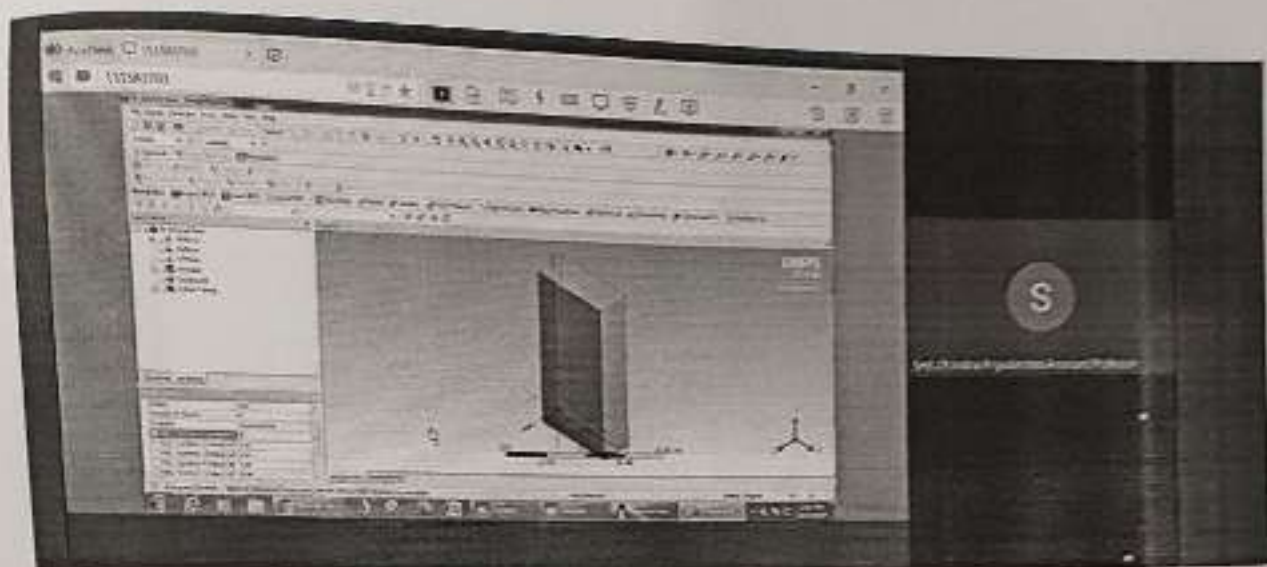
STARCCM+ widely used in automobile industries for aerodynamic modeling.

CFX is one more popular CFD solver for electromagnetic simulation.

CFDACE has a LBM solver for lattice Boltzmann simulation.

S

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**Steady Flow**

- Flow properties do not vary with time
- For incompressible flow

*Handwritten notes:*  
 $\frac{\partial \rho}{\partial t} = 0$  steady  
 $\frac{\partial \rho}{\partial x} = 0$  incompressible

x-momentum:

$$\rho \left( \frac{\partial u}{\partial t} + u \frac{\partial u}{\partial x} + v \frac{\partial u}{\partial y} + w \frac{\partial u}{\partial z} \right) = -\frac{\partial p}{\partial x} + \mu \nabla^2 u + \rho g_x$$

y-momentum:

$$\rho \left( \frac{\partial v}{\partial t} + u \frac{\partial v}{\partial x} + v \frac{\partial v}{\partial y} + w \frac{\partial v}{\partial z} \right) = -\frac{\partial p}{\partial y} + \mu \nabla^2 v + \rho g_y$$

z-momentum:

$$\rho \left( \frac{\partial w}{\partial t} + u \frac{\partial w}{\partial x} + v \frac{\partial w}{\partial y} + w \frac{\partial w}{\partial z} \right) = -\frac{\partial p}{\partial z} + \mu \nabla^2 w + \rho g_z$$

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 Department of Civil Engineering  
 Chaitanya Bhisraji Institute of Technology  
 GANDIPET, HYDERABAD-5000 075

### Realizable k- $\epsilon$ Model

- Satisfies certain mathematical constraints on the Reynolds stresses, consistent with the physics of turbulent flows.
- Proposed by Shih et al. to address the deficiencies of traditional models by adopting the following:
  1. A new eddy viscosity formula involving a variable  $C_{\mu}$  originally proposed by Reynolds.
  2. A new model equation for dissipation ( $\epsilon$ ) based on the dynamic equation of the mean square vorticity fluctuation.
- Turbulence Modeling Considerations – Near Wall Treatment  
- Label Turbulence Considerations Turbulence Intensity



  
**PROFESSOR & HEAD**  
Department of Civil Engineering  
Chaitanya Bharathi Institute of Technology  
GANDIPET, HYDERABAD-5000 076

**CHIEF PATRON**  
Kavi Kireeti Dr. V MALAKONDA REDDY  
President, CBIT

**PATRON**  
Sri. N. SUBASH  
Secretary & Correspondent, CBES  
Smt. D. SANDHYA SREE  
Chairperson D&P, CBIT

**ADVISORS**  
Prof. P. RAVINDER REDDY  
Principal - CBIT  
Prof. P.V.R. RAVINDRA REDDY  
Head, Dept. of Mechanical Engineering

**COORDINATORS**  
Prof. N. V. SRINIVASULU  
Dept. of Mechanical Engineering  
P. ANJANI DEVI  
Dept. of Mechanical Engineering

#### MEMBERS

Dr. G. Chandramohan Reddy	Dr. B.V.S. Rao
Dr. M.V.S. Mizani Krishna	Dr. N. Janardhan
Dr. P. Prabhakar Reddy	Mrs. N. Jayashree
Dr. G. Lakshmi	Mr. V. Jagal Reddy
Mr. B. Suryanarayana	Dr. P. Rama Lakshmi
Dr. T. Ratna Reddy	Mrs. Ch. V. Sushree
Dr. R.P. Chowdhury	Mr. K. Gendrakasam
Dr. K. Kishor	Mr. T.N. Aditya
Dr. V.V.R. Seshagiri Rao	Mr. A. Chandrabharth
Dr. S. Solomon Raj	Mr. D. Ravi
Dr. M.J. Akkapatla	Dr. Rahul
Mr. P.R.K. Prasad	Dr. Muzaffer Hossain
Mr. P. Kishor Kumar	Mr. P. Surendar Reddy
Dr. L. Suresh Kumar	Mrs. Ipsita Mohanty
Mrs. Y. Nagini	Mr. Nageshwar Kulkarni
Mrs. Ch. Indira Priyadarshini	Mrs. D.S. Madani
Mr. N. Venkateshwar Rao	Mrs. K.N.V. Sreedevi
Ms. V. Sandhya	Mr. Yashoda Sreenani
Dr. S. Neeramma Kumar	Mr. Ch. Sharath Reddy

#### ELIGIBILITY

The Faculty Members of the AICTE approved institutions, research scholars, PG Scholars, participants from Government, Industry (Bureaucrats / Technicians/Participants from Industry etc.) and staff of host institutions

#### GUIDELINES

- o No participant fees will be collected
- o Eligible participants will be selected based on first come first serve basis and will be intimated by e-mail only.
- o A Digital Certificate by the ATAL Academy will be issued to the participants, who have an attendance of minimum 80 % and score more than 60% in the test.
- o On the last day of the program an assessment test will be conducted for all participants.

#### REGISTRATION DETAILS

No Registration Fee

**Link for the registration:** Participants are requested to register compulsorily in the following link.

<https://www.aicte-india.org/atal> OR  
<https://atalacademy.aicte-india.org/signup>

After registration in the above link submit the scanned copy of the registration form to [vsrinivasulu\\_mech@cbit.ac.in](mailto:vsrinivasulu_mech@cbit.ac.in) by 15-10-2020.



A One Week Online  
AICTE Training and Learning (ATAL)  
Academy Faculty Development  
Program (FDP)

on

## MOLECULAR MANUFACTURING

19<sup>th</sup> – 23<sup>rd</sup> October, 2020

Organized by

DEPARTMENT OF MECHANICAL  
ENGINEERING

PROFESSOR & HEAD

Department of Mechanical Engineering  
Bharatya Bharathi Institute of Technology  
andhra Pradesh State Capital, Hyderabad



## CHAITANYA BHARATHI INSTITUTE OF TECHNOLOGY(A)

CBIT is one of the premier Engineering Institute in INDIA, pioneer in Telangana State, which is at idyllic surroundings of Gandipet Lake, Hyderabad. The college offers Nine UG and Eleven PG programs. It has been standing as a temple of knowledge for the past 41 years by producing about 25,000 Eminent and skillful Graduate Engineers, who are successful in their Careers, serving all over the world. The Institute has been Accredited by NBA-AICTE and NAAC-UGC. UGC has granted Autonomous Status from the Academic Year 2013-14 onwards. The Grants received from AICTE/UGC are worth about Rs. 2.5 Crores. Brilliant and Meritorious Candidates with good EAMCET Rank are seeking admissions at CBIT. CBIT Students are prepared and perfected to secure Placements in MNCs through College Career Development Center.



## ABOUT THE DEPARTMENT

The Department of Mechanical Engineering, CBIT is offering two undergraduate courses; B.E in Mechanical Engineering and B.E- Production Engineering with an intake of 120 and 60 respectively and two PG programmes; M.E in CAD/CAM and M.E in Thermal Engineering. The department has 42 faculty members out of which 20 are PhDs. In the last 3 years seven R&D sponsored projects worth Rs. 98 lakhs were sanctioned to the department, 4 patents were published, and 2 patents were filed, 22 workshops and 2 FDPs were organized. In the last 3 years 16 PhDs were awarded and two were submitted under the guidance of departmental faculty. The Department is well equipped with all state-of-the-art equipment, Laboratories & workshops providing all necessary facilities to the students. The Hexagon Capability Centre, India has opened Innovation laboratory in the premises of the CBIT. The lab has been equipped with hardware and software worth Rs.8.50 crore. B.E Mechanical Engineering, B.E Production Engineering and M.E CAD/CAM Programmes were accredited by NBA.

## ABOUT THE FDP

The objective of ATAL scheme is "To plan and help in imparting quality technical education in the country and to support technical institutions in fostering research, innovation and entrepreneurship through training in various emerging fields"

The current FDP is highly interdisciplinary by nature, encompassing aspects of different engineering fields like Materials science

Bioengineering, Mechanical Engineering etc. This topic has also considerable overlap with Nanotechnology, in that both are concerned with the behavior of materials on the scale of nanometers or smaller

## Topics to be covered in FDP

- Nanoscience Engineering
- Nanodevices: Design and Manufacture
- Science and Technology of Nanostructures
- Surface Analysis of Nano Particles
- Sensor and smart materials
- 3D printing and Design
- Finite element analysis of nano particles
- Digital manufacturing
- Nano Composites
- Surface Engineering

## RESOURCE PERSONS

Resource Persons are scientists from Defense labs, IIT, Hyderabad, Omania University and CBIT.

## FOR ANY DETAILS PLEASE CONTACT

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Professor,

Dept. of Mechanical Engineering,  
CBIT, Hyderabad-500075  
Contact No: 9848592815, 8919673860  
Mail Id: nvsrinivasulu\_mech@cbit.ac.in

PROFESSOR & HEAD  
Department of Mechanical Engineering

Chaitanya Bharathi Institute of Technology (A)  
Gandipet, Hyderabad-500 075, Telangana

**REPORT OF ATAL FDP ON MOLECULAR MANUFACTURING**

**DATES: 19-23, OCTOBER, 2020**

AT CHAITANYA BHARATHI INSTITUTE OF TECHNOLOGY,

GANDIPET, HYDERABAD-500075. TELANGANA

---

**COORDINATOR:**

**DR N V SRINIVASULU**

PROFESSOR, DEPARTMENT OF MECHANICAL ENGINEERING,

CHAITANYA BHARATHI INSTITUTE OF TECHNOLOGY,

GANDIPET, HYDERABAD-500075. TELANGANA.

---

**CO-CORDINATOR**

Mrs. P ANJANI DEVI

ASSISTANT PROFESSOR,

DEPARTMENT OF MECHANICAL ENGINEERING,

CHAITANYA BHARATHI INSTITUTE OF TECHNOLOGY,


GANDIPET, HYDERABAD-500075. TELANGANA.

---



**PROFESSOR & HEAD**  
Department of Mechanical Engineering  
Chaitanya Bharathi Institute of Technology  
Gandipet, Hyderabad-500 075, Telangana

## BROCHURE OF FDP

<p><b>CHIEF PATRON</b> Kavi Kireeti Dr. V MALAKONDA REDDY President, CBIT</p> <p><b>CHIEF ADVISOR</b> Prof. P. RAVINDR REDDY Principa - CBIT</p> <p><b>ADVISOR</b> Prof. P.V.R. RAVINDRA REDDY Head Dept. of Mechanical Engineering</p> <p><b>COORDINATORS</b> Prof. N. V. SRINIVASULU Dept. of Mechanical Engineering</p> <p><b>P. ANJANI DEVI</b> Dept. of Mechanical Engineering</p> <p><b>MEMBERS</b></p> <table border="0"> <tr> <td>Dr. C. Chaitanya Mohan Reddy</td> <td>Dr. B. V. S. Rao</td> </tr> <tr> <td>Dr. M. V. S. Murari Krishna</td> <td>Dr. N. Janardhan</td> </tr> <tr> <td>Dr. P. Prasad Reddy</td> <td>Mrs. N. Jyotsna</td> </tr> <tr> <td>Dr. C. Lakshmi</td> <td>Mrs. V. Lakshmi Reddy</td> </tr> <tr> <td>Dr. B. Suryanarayana</td> <td>Dr. P. Rama Lakshmi</td> </tr> <tr> <td>Dr. T. Rama Reddy</td> <td>Mrs. Dr. V. Suresha</td> </tr> <tr> <td>Dr. K.P. Chaitanya</td> <td>Mr. A. Gunabraman</td> </tr> <tr> <td>Dr. K. Kalyan</td> <td>Mr. T. N. Adiga</td> </tr> <tr> <td>Dr. J. J. P. Saranga Reddy</td> <td>Mr. A. Chandrasekh</td> </tr> <tr> <td>Dr. S. Sathyanarayana</td> <td>Mr. D. Raju</td> </tr> <tr> <td>Dr. M. Anand Babu</td> <td>Dr. Neha</td> </tr> <tr> <td>Dr. P. R. Prasad</td> <td>Dr. Manoj Kumar</td> </tr> <tr> <td>Dr. P. Ganga Kumar</td> <td>Mr. P. Sundar Reddy</td> </tr> <tr> <td>Dr. L. Suresh Kumar</td> <td>Mrs. Indu Lakshmi</td> </tr> <tr> <td>Mrs. Y. Nagri</td> <td>Mr. Narasimha Kumar</td> </tr> <tr> <td>Mrs. Ch. Indu Priyadarshini</td> <td>Mrs. G. S. Sathya</td> </tr> <tr> <td>Mr. N. Venkateswara Rao</td> <td>Mrs. K.M.V. Sreedevi</td> </tr> <tr> <td>Mr. V. Sandhya</td> <td>Mr. Yasoda Srinivas</td> </tr> <tr> <td>Dr. S. Narasimha Kumar</td> <td>Mr. Ch. Suresh Reddy</td> </tr> </table>	Dr. C. Chaitanya Mohan Reddy	Dr. B. V. S. Rao	Dr. M. V. S. Murari Krishna	Dr. N. Janardhan	Dr. P. Prasad Reddy	Mrs. N. Jyotsna	Dr. C. Lakshmi	Mrs. V. Lakshmi Reddy	Dr. B. Suryanarayana	Dr. P. Rama Lakshmi	Dr. T. Rama Reddy	Mrs. Dr. V. Suresha	Dr. K.P. Chaitanya	Mr. A. Gunabraman	Dr. K. Kalyan	Mr. T. N. Adiga	Dr. J. J. P. Saranga Reddy	Mr. A. Chandrasekh	Dr. S. Sathyanarayana	Mr. D. Raju	Dr. M. Anand Babu	Dr. Neha	Dr. P. R. Prasad	Dr. Manoj Kumar	Dr. P. Ganga Kumar	Mr. P. Sundar Reddy	Dr. L. Suresh Kumar	Mrs. Indu Lakshmi	Mrs. Y. Nagri	Mr. Narasimha Kumar	Mrs. Ch. Indu Priyadarshini	Mrs. G. S. Sathya	Mr. N. Venkateswara Rao	Mrs. K.M.V. Sreedevi	Mr. V. Sandhya	Mr. Yasoda Srinivas	Dr. S. Narasimha Kumar	Mr. Ch. Suresh Reddy	<p><b>ELIGIBILITY</b></p> <p>The Faculty Members of the AICTE approved institutions, research scholars, PG Scholars, participants from Government, Industry (Bureaucrats / Technicians/Participants from Industry etc.) and staff of host institutions.</p> <p><b>GUIDELINES</b></p> <ul style="list-style-type: none"> <li>No participant fees will be collected.</li> <li>Eligible participants will be selected based on first come first serve basis and will be intimated by e-mail only.</li> <li>A Digital Certificate by the ATAL Academy will be issued to the participants, who have an attendance of minimum 80 % and score more than 50% in the test.</li> <li>On the last day of the program an assessment test will be conducted for all participants.</li> </ul> <p><b>REGISTRATION DETAILS</b></p> <p>No Registration Fee</p> <p>Link for the registration: Participants are requested to register compulsorily in the following link.</p> <p><a href="https://www.aicte-nba.org/atal">https://www.aicte-nba.org/atal</a> OR <a href="https://atalacademy.aicte-nba.org/atal">https://atalacademy.aicte-nba.org/atal</a></p> <p>After registration in the above link submit the scanned copy of the registration form to <a href="mailto:regm@cbit.ac.in">regm@cbit.ac.in</a> by 16-10-2020.</p>	<p style="text-align: right;">41</p> <p style="text-align: center;">   </p> <p style="text-align: center;">A One Week Online AICTE Training and Learning (ATAL) Academy Faculty Development Program (FDP)</p> <p style="text-align: center;">on</p> <p style="text-align: center;"><b>MOLECULAR MANUFACTURING</b></p> <p style="text-align: center;">19<sup>th</sup> – 23<sup>rd</sup> October, 2020</p> <p style="text-align: center;">Organized by</p> <p style="text-align: center;"><b>DEPARTMENT OF MECHANICAL ENGINEERING</b></p>
Dr. C. Chaitanya Mohan Reddy	Dr. B. V. S. Rao																																							
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<p><b>CHAITANYA BHARATHI INSTITUTE OF TECHNOLOGY(I)</b></p> <p>CBIT is one of the premier Engineering Institute in INDIA, pioneer in Telangana State, which is at idyllic surroundings of Gandipet Lake, Hyderabad. The college offers five UG and Eleven PG programs. It has been standing as a temple of knowledge for the past 41 years by producing about 25,000 Engineer and skillful Graduate Engineers, who are successful in their Careers, serving all over the world. The Institute has been Accredited by NBA-AICTE and NAAC-UGC. UGC has granted Autonomous Status from the Academic Year 2013-14 onwards. The Grants received from AICTE/UGC are worth about Rs. 2.5 Crores. Brilliant and Meritorious Candidates with good EAMCET Rank are seeking admissions at CBIT. CBIT Students are prepared and perfected to secure Placements in MNCs through College Career Development Center.</p> 	<p><b>ABOUT THE DEPARTMENT</b></p> <p>The Department of Mechanical Engineering, CBIT is offering two undergraduate courses, B.E in Mechanical Engineering and B.E- Production Engineering with an intake of 120 and 60 respectively and two PG programmes; M.E in CAD/CAM and M.E in Thermal Engineering. The department has 42 faculty members out of which 20 are PhDs. In the last 3 years seven R&amp;D sponsored projects worth Rs. 98 lakhs were sanctioned to the department, 4 patents were published, and 2 patents were filed, 22 workshops and 2 FDPs were organized. In the last 3 years 16 PhDs were awarded and two were submitted under the guidance of departmental faculty. The Department is well equipped with all state-of-the-art equipment, Laboratories &amp; workshops providing all necessary facilities to the students. The Hexagon Capability Centre, India has opened Innovation laboratory in the premises of the CBIT. The lab has been equipped with hardware and software worth Rs.5.50 crore. B.E Mechanical Engineering, B.E Production Engineering and M.E CAD/CAM Programmes were accredited by NBA.</p> <p><b>ABOUT THE FDP</b></p> <p>The objective of ATAL scheme is "To plan and help in imparting quality technical education in the country and to support technical institutions in fostering research, innovation and entrepreneurship through training in various emerging fields".</p> <p>The current FDP is highly interdisciplinary by nature, encompassing aspects of different engineering fields like Materials science</p>	<p>Biomechanical Engineering etc. This topic has also considerable overlap with Nanotechnology, in that both are concerned with the behavior of materials on the scale of nanometers or smaller.</p> <p><b>Topics to be covered in FDP</b></p> <ul style="list-style-type: none"> <li>Non-linear Engineering</li> <li>Nanofabrics: Design and Manufacture</li> <li>Science and Technology of Nanomaterials</li> <li>Surface Analysis of Nano Particles</li> <li>Sensor and smart materials</li> <li>3D printing and Design</li> <li>Finite element analysis of nano particles</li> <li>Digital manufacturing</li> <li>Nano Composites</li> <li>Surface Engineering</li> </ul> <p><b>RESOURCE PERSONS</b></p> <p>Resource Persons are scientists from Defense lab #1, Hyderabad, Osmania University and CBIT.</p> <p><b>FOR ANY DETAILS PLEASE CONTACT</b></p> <p style="text-align: center;">Dr. N.V. Srinivasulu, Professor Dept. of Mechanical Engineering, CBIT, Hyderabad-500075 Contact No: 9848922815, 8919473860 Mail id: <a href="mailto:nvsrinivasulu_renu@cbit.ac.in">nvsrinivasulu_renu@cbit.ac.in</a></p>
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### SCHEDULE OF THE PROGRAMME.





Day	10:11:30	11:30-1:00	1:00-2:00	2:00-3:30
19oct, 2020	<b>Inauguration</b>	<b>Dr Vithal, M</b> <b>OU, HYDERABAD</b> Nano Materials For Energy And Environmental Applications	L	<b>Dr P Ravinder Reddy,</b> <b>CBIT, HYDERABAD</b> Bio Composite Material reinforced with Poultry feather fiber
20 oct, 2020	<b>Dr K Venkateshwara Rao,</b> <b>JNTUH</b> <b>NANOMATERIALS</b>	<b>Dr P Ravinder Reddy</b> <b>CBIT, HYDERABAD</b> <i>Machinability of Metal Matrix Composites using Numerical and Experimental Methods</i>	U  N	<b>Dr M. Ravishankar</b> <b>IIT Tirupati</b> <i>Bio ceramic coatings on Titanium alloys for orthopedic applications</i>
21oct, 2020	<b>Dr PratapKollu</b> <b>UOH</b> <i>Sensor and smart materials, BATTERIES</i>	<b>Dr N V Srinivasulu</b> Professor, CBIT, Hyderabad <i>Stress management and remedies from occult sciences, Hyderabad</i>	C	<b>Dr G Chandra Mohan Reddy</b> <b>PROFESSOR, CBIT, HYDERABAD</b> <i>Digital Manufacturing</i>
22oct, 2020	<b>Dr Tata Narsinga Rao</b> Associate Director, SC., G, ARCI, Hyderabad. High Performance Nanomaterials for Energy storage Applications	<b>Dr R VIJAY</b> SC.,G ARCI, Hyderabad Advanced processing of materials at ARCI	H	<b>Dr Vivek Arya</b> BHEL R&D, HYD <i>PVD based Nanocomposites coatings for erosion prone power plant components</i>





  
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 Department of Mechanical Engineering  
 Chaitanya Bharathi Institute of Technology (CBIT)  
 Gandipet, Hyderabad-500 078, Telangana




23 Oct, 2020	(9 to 10.30 am) Dr. L Siva Rama Krishna, Associate Professor Osmania University., Hyderabad 3 D PRINTING	10.30-11.30 Dr N V .SRINIVASULU PROFESSOR, CBIT Stress management for teachers And remedies	Dr S. Sudhakar Sharma SC., D, ARCI, Hyderabad NANO BORON	Dr J. John Rozario Jegaraj  Scientist F, DRDO <i>Advances Manufacturing for Aerospace applications</i>
22.10. 2020	Exclusive session on Meditation and yoga by Chandrakant.D from international sahaja yoga, Noida, delhi 3.30 to 5 pm			

### *List of experts and their details*

s.no	Name of the expert and address	Mail id	Phone number
1.	Dr M VITHAL PROFESSOR, DEPARTMENT OF CHEMISTRY, OSMANIA UNIVERSITY, HYDERABAD. TELANGANA	<a href="mailto:mugavithal@gmail.com">mugavithal@gmail.com</a> 	9849973868
2	DR P. RAVINDER REDDY EX PRINCIPAL & PROFESSOR, DEPT OF MECH ENGG., CHAITANYA BHARATHI INSTITUTE OF TECHNOLOGY, GANDIPET,	<a href="mailto:ravinderreddyp_mech@cbit.ac.in">ravinderreddyp_mech@cbit.ac.in</a>	9391033002




	HYDERABAD-500075. TELANGANA		
3	DR K VENKATESWAR RAO PROFESSOR, JNTUH, HYDERABAD		9440858664
4	DR P. RAVINDER REDDY EX PRINCIPAL & PROFESSOR, DEPARTMENT OF MECHANICAL ENGG., CHAITANYA BHARATHI INSTITUTE OF TECHNOLOGY, GANDIPET, HYDERABAD-500075. TELANGANA	<a href="mailto:ravinderreddyp_mech@cbit.ac.in">ravinderreddyp_mech@cbit.ac.in</a> 	9391033002
5	DR M RAVISHANKAR ASSOCIATE PROFESSOR DEPARTMENT OF MECHANICAL ENGINEERING, IIT TIRUPATI	<a href="mailto:evmrs@iittp.ac.in">evmrs@iittp.ac.in</a> 	91-361-250-3410 8638393843

6	DR PRATAP KOLLU ASSISTANT PROFESSOR UNIVERSITY OF HYDERABAD, HYDERABAD.		7981468978
7	DR N V SRINIVASULU PROFESSOR, DEPARTMENT OF MECHANICAL ENGG., CHAITANYA BHARATHI INSTITUTE OF TECHNOLOGY, GANDIPET, HYDERABAD-500075. TELANGANA	<a href="mailto:nvsrinivasulu_mech@cbit.ac.in">nvsrinivasulu_mech@cbit.ac.in</a> 	9848592815
8	DR G CHANDRA MOHAN REDDY EX PRINCIPAL & PROFESSOR, DEPARTMENT OF MECHANICAL ENGG., CHAITANYA BHARATHI INSTITUTE OF TECHNOLOGY, GANDIPET, HYDERABAD-500075. TELANGANA	<a href="mailto:gcmreddy_mech@cbit.ac.in">gcmreddy_mech@cbit.ac.in</a> 	9381855173
9	DR TATA NARASINGA RAO S.C.G, ASSOCIATE DIRECTOR, ARCI, HYDERABAD	<a href="mailto:tata@arci.res.in">tata@arci.res.in</a> 	

10	DR R VIJAY SC.G, RCI HYDERABAD.	vijay@arcl.res.in 	9441456688
11	DR VIVEK ARYA SR DGM, BHEL R&D, BALANAGAR, HYDERABAD.	vivek.arya@bhel.in 	9441270619
12	CHANDRA KANTH DEODA SAHAJA YOGA NOIDA, DELHI	peacefulsky00@gmail.com Chandrakant.deoda@gmail.com 	7290044992 9922500320

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13	<p>DR L. SIVA RAMAKRISHNA ASSOCIATE PROFESSOR DEPARTMENT OF MECHANICAL ENGINEERING UNIVERSITY COLLEGE OF ENGG., OSMANIA UNIVERSITY, HYDERABAD.</p>	<p><a href="mailto:sivaramakrishna.l@ucoeou.edu">sivaramakrishna.l@ucoeou.edu</a></p> 	8978903877
14	<p>DR N V SRINIVASULU PROFESSOR OF MECH ENGG CBIT, HYDERABAD-75.</p>	<p><a href="mailto:Nvsrinivasulu_mech@cbit.ac.in">Nvsrinivasulu_mech@cbit.ac.in</a></p> 	8919673860
15	<p>MR. S SUDHAKAR SARMA SC.D, RCI, HYDERABAD</p>	<p><a href="mailto:sssarma@arcl.res.in">sssarma@arcl.res.in</a></p> 	9440084538

16	DR JOHN J SCIENTIST F DRDO, HYDERABAD.	johnmfeg@drdl.drdo.in	9441163609
			

### ***Inaugural function:***

Inaugural function was organized by department of mechanical engineering, Chaitanya Bharathi institute of technology, Gandipet, Hyderabad, on line at 10 am.

The following dignitaries were attended online to this function.

Chief guest: Dr P. RAMESH BABU, Head & Professor, Osmania university, HYDERABAD.

President of function: Mrs. D. Sandhya sree, member BOM, CBIT.

Dr G. P.Saradhi Varma ,Principal , CBIT, Hyderabad.

Dr P V R Ravindra Reddy, head, mechanical Engg., CBIT. Hyderabad.

### ***List of participants***

Name	Email	State
Mr. Addagatla Ravindar	cbit.ravi@gmail.com	TELANGANA
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Mr. Ravi Degala  
Mr. P Surendar Reddy  
Mr. Eswaranna  
Mr. JEEVA SIVALINGAM  
Mr. Rajesh R  
Miss P. PAVANI  
Mrs. Nagini Yarramsetty  
Mr. Madan Mohan Puram  
Dr. Mohamed Abdul Hafeez  
Miss Priyanka  
Dr. G. Venkatesh  
Miss Elfansu  
Mr. b vijaykrishna  
Mr. Ajmeera Ramesh  
Dr. L.M.V.Subbarao Tanguturu  
Mrs. Sonal Kapadia  
Mr. Suri Srinivas  
Mr. Chandu avvari  
Dr. Dr.S.Shylaja  
Mrs. Furzana  
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Mr. M.Naveen Babu  
Dr. P. Prabhakar Reddy  
Dr. T. RATNA REDDY  
Mr. Mikkili Rajesh  
Dr. Gubbala Venkata Ramesh  
Dr. Saritha  
Miss Kanthala Sai Pranitha  
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Miss G.Savya  
Mr. Balu Maloth  
Mr. Ashish V. Srivastava  
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Mr. Argade Rohit Ramesh  
Dr. L.SIVA RAMA KRISHNA  
Mr. Kandukuri Srinivas  
Mr. dinesh chowdary  
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TAMIL NADU  
KARNATAKA  
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Mrs. Madhuri  
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Mr. Paluru Kiran Kumar  
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Dr. L Suresh kumar  
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Mr. V. Jaipal Reddy  
Mr. Mohammed Qahsim  
Dr. Ch.Indira Priyadarsini  
Mr. K V Kasi Vlswanadham  
Mr. A.SAIKUMAR  
Mr. G. Gopinath  
Dr. Ramalakshmi  
Dr. K. Kishor  
Mr. Mohammed Abdul Haque  
Mr. Achelker Chandrakanth

Dr. Deepika Sharma  
Mrs. Y V N CHANDANA  
Mr. Narasimha Kulkarni  
Dr. Rahul  
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Mr. sanjeev kumar  
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Mr. Yasoda Sreeram Kalluri  
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Mr. M.RAMAR  
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Mrs. Jyothirmayi Narne  
Mr. Mulpur sarat babu  
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Dr. Dr M V S MURSLI KRISHNA  
Mr. Madhukar Samatham  
Mr. HANUMANTU KRISHNAMURTY  
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BIHAR

### ***About programme of ATAL FDP on Molecular Manufacturing.:***

***The programme is sanctioned in august 2020. I am happy that I am one among the 24 FDP's sanctioned to Telangana state and one among 95 sanctioned FDP's across India.***

***Meticulous planning was done to identify the experts for all the sessions as per AICTE norms. We have also organized yoga and meditation by Sahaja Yoga from Noida, Delhi.***

***All the sessions went on well without any problems. The participants actively involved in all the sessions and also interacted with the participants and clarified their doubts with senior experts. Experts from industry, academia and researchers from defence were invited to the sessions to deliver talk . experts are invited from DRDO, ARCI, BHEL (R&D), JNTUH, OU, CBIT, UNIVERSITY OF HYDERABAD ETC.***

***On last day after completion of lecture by Dr John.J, Sc.F, from ARCI, we had conducted a test on all topics covered by experts.***

***Before that we had uploaded the attendance of all the participants.***

***We have informed the participants to give their valuable feedback in the portal of ATAL FDP. Most of them given their feedback in the site.***

***Photos and videos are recorded for all sessions. We could organize 16 sessions which excludes inaugural function on first day.***

***Photos were uploaded as per the instructions.***

**Acknowledgements:**

***I thank AICTE officials for sanctioning the programme ATAL FDP on Molecular Manufacturing. I thank our management, principal, head of Mechanical Engg. CBIT and colleagues of our department for their support and guidance to complete this FDP. I also thank regional office bearers of AICTE , HYDERABAD.***

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*P. Reddy*

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*Handwritten signature*

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### CHIEF PATRON

Kavi Kireeti Dr. V MALAKONDA REDDY  
President, CBIT

### PROGRAM MONITORING COMMITTEE (PMC)

Prof. G. P. SARADHI VARMA (Chairman)  
Principal, CBIT

Prof. P. RAVINDER REDDY (Subject Expert)  
Dept. of Mechanical Engineering

Prof. P.V.R. RAVINDRA REDDY (Member)  
Head, Dept. of Mechanical Engineering

Prof. D. KRISHNA REDDY (Member)  
Head, Dept. of ECE

Dr. Md. ALEEM PASHA  
(Coordinator-FDP & Member Secretary-PMC)  
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Registration Fee

Free

### IMPORTANT DATES (Phase - I)

Last date for Registration : 12-11-2020

Intimation of selection : 14-11-2020

### IMPORTANT DATES (Phase - II)

Last date for Registration : 10-12-2020

Intimation of selection : 12-12-2020

### HOW TO APPLY

The applicants should fill the Registration Form through Google Forms using below link

A test will be conducted at the end of the program and joint certificates shall be issued (by AICTE & conducting institute) to those participants who have attended the program and have scored minimum 80% marks in the test.

### REGISTRATION LINKS

Phase - I

<https://forms.gle/vYqQmCTs3VSEBvL29>

Phase - II

<https://forms.gle/YyDh5V793kRHUXXk6>

PROFESSOR & HEAD

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CHAITANYA BHARATHI  
INSTITUTE OF TECHNOLOGY  
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AICTE – Sponsored  
TWO-WEEK ONLINE  
FACULTY DEVELOPMENT PROGRAM  
(FDP)

on

RESEARCH  
METHODOLOGIES  
AND STATISTICAL  
DATA ANALYSIS

Phase – I: 16<sup>th</sup> – 28<sup>th</sup> November, 2020

Phase – II: 14<sup>th</sup> – 26<sup>th</sup> December, 2020

Organized by

DEPARTMENT OF MECHANICAL  
ENGINEERING



## CHAITANYA BHARATHI INSTITUTE OF TECHNOLOGY(Autonomous)

CBIT, established in the Year 1979, has developed in Four Decades of its journey, as one of the Premier Engineering Institute in INDIA, in Telangana State. The Institute offers Eleven UG and Eleven PG Programs into which Brilliant and Meritorious Candidates with good EAMCET Rank are seeking admissions at CBIT. CBIT Students are prepared and perfected holistically to secure Placements in reputed National and Multi-National Industries. Alumni, nearly 25,000 Graduate Engineers, are successfully placed in their Careers and as Entrepreneurs Globally. The Institute has been granted Autonomous Status from the Academic Year 2013-14 onwards.



### ABOUT THE DEPARTMENT

The Department of Mechanical engineering, CBIT is offering 2 under graduate courses; Mechanical Engineering and Production Engineering with an intake of 120 and 60 respectively and Two PG programs in CAD/CAM

and Thermal Engineering domains. The department has 46 faculty members out of which 16 are PhDs. The department is growing exponentially in terms of R&D and consultancy. In the last 3 years 7 R&D sponsored projects of worth Rs. 98 lakhs were awarded to the department, 4 patents were published and 2 patents were filed, 22 works shops and 2 FDPs were organized, under the guidance of department faculty 15 PhDs were awarded and two were submitted. The Department is well equipped with all state-of-the-art equipment's. Laboratories & workshops providing all necessary facilities to the students. The Hexagon Capability Center India has opened Innovation laboratory in the premises of the CBIT. The lab has been equipped with hardware and a software worth Rs.6,50 Crore. B.E Mechanical Engineering Production Engineering and M.E CAD/CAM Programmes were accredited by NBA.

### ABOUT THE FDP

The objective of this programme is to emphasize on broad range of techniques available in both research process and data analysis for academicians, practitioners and researchers from interdisciplinary Domains. This FDP will provide an opportunity to the participants to share their experience and knowledge.

### COURSE CONTENT

- o Introduction to research Methodology
- o Successful Literature search and Review
- o Problem Identification and Literature review

- o Research Philosophy and design
- o Publication Ethics
- o Writing Research Papers using Latex
- o Scientific Journal Finder
- o Indexing and Impact factors
- o Effective Report Writing
- o Referencing Tools
- o Patent, copyright and Plagiarism.
- o Creating research profile and Collaborations
- o Sampling and data collection
- o Data Analysis
- o Hypothesis formulation
- o Design of Experiments
- o Different Optimization techniques
- o Optimization using Genetic Algorithm
- o Various univariate data analysis (T-test and ANOVA, etc)
- o Various multivariate data analysis (Correlation, regression, multi regression and logistic regression, etc)
- o Problem Validation
- o MAT Lab
- o Basics of SPSS and Data handling
- o Minitab software
- o Case Studies
- o Data Analytics using Python

### RESOURCE PERSONS

Faculty from IIT'S, NIT'S, Universities, CBIT and other reputed institutions. Scientists and industry experts from reputed Organizations/ Industries.

### TARGET GROUP

Faculty members of the AICTE approved institutions, Research Scholars and industry persons can register. Selected participants will be informed through mail. Selection is based on first-come-first-serve basis.

**Report submitted to AICTE**  
**on**  
**AICTE Sponsored Two Week FDP on Research Methodologies and Statistical Data Analysis**

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AICTE sponsored Two-week FDP program on "Research Methodologies and Statistical Data Analysis" under AQIS 2019-20 grant was sanctioned during the financial year 2020-21. As per AICTE file No. 34-67/61/FDC/FDP/P-1/2019-20 dated 30-July 2020, Rs- 489533/- ((Four Lakhs Eighty-Nine Thousand Five Hundred and Thirty-Three Only) grant was released to conduct two-week faculty development program under AQIS 2019-20 through contact mode by the AICTE during the financial year 2020-21. Due to COVID-19 pandemic situations AICTE allowed to conduct FDP through online mode in multiple phases.

A Two-week online FDP on Research Methodologies and Statistical Data Analysis was organized in TWO Phases. First Phase was organized during 16<sup>th</sup> to 28<sup>th</sup> November 2020. Second phase was organized during 14<sup>th</sup>-26<sup>th</sup> December 2020. A total of 208 candidates were registered for the Phase-1, out of which 198 eligible candidates were shortlisted. According to AICTE instructions, The PEC decided that 80% minimum attendance and 60% marks in the test as the eligibility criteria for the award of participation e-certificates. 134 candidates were attended for the program, 121 candidates satisfied the criteria and were awarded the e-certificates.

A total of 232 candidates were registered for the Phase-2, out of which 220 eligible candidates were shortlisted. 75 candidates were attended for the program, 73 candidates were satisfied the criteria and were awarded the e-certificates.

As part of the program, in each phase 34 sessions are organized excluding inaugural and valedictory. Each day Three sessions are organized from morning 9:30 AM to 4:00 PM. Eminent people from IITs, NITs, IIIT, University's and top affiliated college and industry are drawn for delivering lectures and were well received by the participants. Various topics and software's on Research Methodologies and Statistical Data Analysis are covered. The feedback from the participants shows that they were immensely benefited from the Programme.

  
PROFESSOR & HEAD  
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An amount of Rs. 489533/- was sanctioned out of which Rs.3,72,000 was spent on the conduct of the program and the remaining amount 1,17,533 is being returned to AICTE.

Phase-1		Phase-2	
Registered	208	Registered	232
Shortlisted Candidates	198	Shortlisted Candidates	220
Attended	134	Attended	75
Awarded with e-Certificate	121	Awarded with e-Certificate	73



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**AICTE Sponsored Two Week FDP on  
Research Methodologies and Statistical Data Analysis (Phase-I)  
16-28 NOVEMBER 2020**

**List of Participants successfully completed the program  
Phase-I FDP Certificate List**

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1	Dr.	Munhan Koli	Associate Professor	Lakireddy Bali Reddy College of Engineering	kmhanurow@gmail.com	AICTE/CBIT/MECH/FDP-1/2020/001
2	Mr.	K.Gunabrahman	Assistant Professor	Chaitanya Bharathi Institute of Technology, Hyderabad	k.g.chary@gmail.com	AICTE/CBIT/MECH/FDP-1/2020/002
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4	Mrs.	Hameemath Kutebura	Associate Professor	Sami Ramaraothi Yatha Institute of Science and Technology	hymaatece@ymit.ac.in	AICTE/CBIT/MECH/FDP-1/2020/004
5	Mr.	A. Chandrakanth	Assistant Professor	Chaitanya Bharathi Institute of Technology	chandrakanth_mech@cbi.ac.in	AICTE/CBIT/MECH/FDP-1/2020/005
6	Dr.	Ma Meera	Lecturer	GJC GIRLS JAGTIAL	mameeraj07@gmail.com	AICTE/CBIT/MECH/FDP-1/2020/006
7	M.	Yasoda Sreeram Kalluri	Assistant Professor	Chaitanya Bharathi Institute of Technology	yasodasreeram_mech@cbi.ac.in	AICTE/CBIT/MECH/FDP-1/2020/007
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9	M.	S. Dharmalakshmi	Quality Control Engineer	SSV ELECTRICALS	dharmabanothu02@gmail.com	AICTE/CBIT/MECH/FDP-1/2020/009
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13	Mrs.	Mita Thakkar	Assistant Professor	Department of Management, Suryadeep Vidyapeeth	mita_thakkar87@vyapeeth.ac.in	AICTE/CBIT/MECH/FDP-1/2020/013
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16	Mr.	Shah Saadul	Assistant Professor	Vidya Jyoti Institute of Technology	shahsaadul2015@gmail.com	AICTE/CBIT/MECH/FDP-1/2020/016
17	Mr.	K. V. Kavi. Viswanathan	Assistant Professor	Mahatma Gandhi Institute of Technology	kviswanathan_mech@mgit.ac.in	AICTE/CBIT/MECH/FDP-1/2020/017
18	Mr.	Prasaddeep Singh	Assistant Professor	Lovely Professional University	ppanddeep15631@lpu.ac.in	AICTE/CBIT/MECH/FDP-1/2020/018
19	Dr.	Srinivasaham Thamarani	Assistant Professor	IGMR Institute of Technology	srinivasaham_t@igmit.edu.in	AICTE/CBIT/MECH/FDP-1/2020/019
20	M.	J. Pranav Kulk	Assistant Professor	MAHATMA GANDHI INSTITUTE OF TECHNOLOGY	pranavkulk_mech@mgit.ac.in	AICTE/CBIT/MECH/FDP-1/2020/020
21	M.	Shah Khadar Basha	Assistant Professor	Koneru Lakshmaiah education foundation	khadarbasha_mech@university.in	AICTE/CBIT/MECH/FDP-1/2020/021
22	M.	M. Sharmuka Sriwas	Research Scholar	INDIAN INSTITUTE OF TECHNOLOGY TIRUPATI	msharmukasriwas@gmail.com	AICTE/CBIT/MECH/FDP-1/2020/022
23	M.	D. Sreerampasad	Associate Professor	SRK INSTITUTE OF TECHNOLOGY	sreerampasad@gmail.com	AICTE/CBIT/MECH/FDP-1/2020/023
24	Dr.	Pankaj Kumar	Asst. Professor	SR University, Warangal	pankajkumar@srui.edu.in	AICTE/CBIT/MECH/FDP-1/2020/024
25	M.	Ravi Degala	Assistant Professor	Chaitanya Bharathi Institute of Technology	ravid_mech@cbi.ac.in	AICTE/CBIT/MECH/FDP-1/2020/025
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27	Dr.	Chamoli Anjali	Assistant Professor	Dr. L B College	anjuz21174@gmail.com	AICTE/CBIT/MECH/FDP-1/2020/027
28	M.	Kam Naveen	Research Scholar	Lincoln University College	phdstudert.naveen@lincoln.edu.in	AICTE/CBIT/MECH/FDP-1/2020/028

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30	Dr.	Brijesh R. Sharma	Assistant Professor	VES Business School	brijesh.sharma@ves.ac.in	AICTE/CBIT/MECH/FDP-1/2020/030
31	Dr.	Mohan Ganesh Bonthu	Associate Professor	Sri Vasavi Institute of Pharmaceutical Sciences	bmrganadhaharna@gmail.com	AICTE/CBIT/MECH/FDP-1/2020/031
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66	Mr.	Kushal Pal Singh	Assistant Professor	G. L. (B&A) Greater Noida	kush.coulter.12@gmail.com	AICTE/CBIT/MECH/FDP-1/2020/066
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 Coordinator  
 Associate Professor  
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Dr. MD ALEEM PASHA, Professor

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 Department of Mechanical Engineering


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ON  
**Research Methodologies and Statistical Data Analysis**  
Phase I: 15<sup>th</sup> - 28<sup>th</sup> November 2020

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5

1. Development Environment
2. The MATLAB Mathematical Function Library
3. The MATLAB Language
4. Graphics
5. The MATLAB Application Program Interface (API)

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What does all this mean?

ALL teachers must help students become better technical writers so that they will be prepared for the writing they will have to do as successful adults in the workplace.

Research Objective	Appropriate Design
<ul style="list-style-type: none"> <li>• To gain background information, to define terms, to clarify problems and develop hypotheses, to establish research priorities, to develop questions to be answered</li> </ul>	<ul style="list-style-type: none"> <li>• Exploratory</li> </ul>
<ul style="list-style-type: none"> <li>• To describe characteristics of particular material, process, individual or a group. The frequency with which something occurs or its association with something else.</li> </ul>	<ul style="list-style-type: none"> <li>• Descriptive</li> <li>• Diagnostic</li> </ul>
<ul style="list-style-type: none"> <li>• To determine causality, test hypotheses, to make "if-then" statements, to answer questions</li> </ul>	<ul style="list-style-type: none"> <li>• Causal</li> <li>• Experimental</li> </ul>

November 12, 2020

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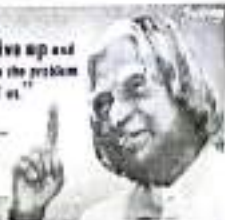
## Very much helpful while working in field of Research

- Forget about your degree
- Forget about your graduation
- Forget about all the expectations your friends or family or people have from you
- Forget about anything that isn't present at the moment and is distracting you

Focus on, what you have to do NOW, think about the next step and how to achieve it

The biggest source  
of motivation are  
your own thoughts.  
So, think big and  
motivate yourself  
to win.

"We should not give up and  
we should not allow the problem  
to defeat us"



TYPE-I & TYPE-II ERRORS  
JUDGMENT

		ACTUAL	
		Yes	No
THOUGHT	Yes	Correct Decision (D)	Type I Error (E)
	No	Type II Error (E)	Correct Decision (D)



You are presenting

You're presenting to everyone

THE PRESENTING

Participants: A, B, C, D, E, F, G, H, I, J, K, L, M, N, O, P, Q, R, S, T, U, V, W, X, Y, Z



## The two function of a patent document

A patent document – whether a published patent application or a granted patent – serves two distinct functions:

- it **discloses** (describes) an invention
- it defines the scope of the **legal monopoly**

According to the national law of most countries a patent application must disclose the invention in a manner **sufficiently clear and complete** for the invention to be reproduced by a person skilled in the specific technical field

In some countries, patent law requires that the inventor disclose the **« best mode »** for practicing the invention

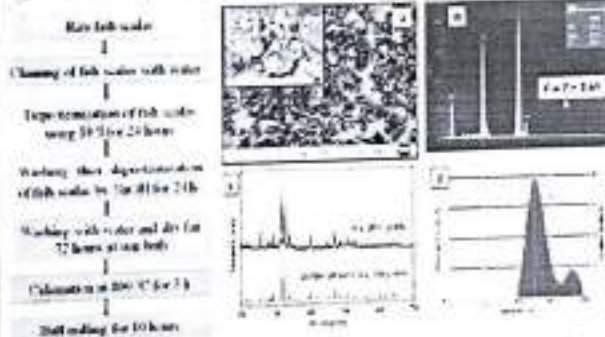
Working in a hybrid between  
Microbiology and  
Food



Dr. Alexander Keryel, Head of Department

49

## Bio Materials Characterization



Source: Journal of Food Science

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Manjula Reddy Sankar (MRS) Lab: III, Tirupur

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Manjula Reddy Sankar

## Where researchers some times don't focus



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### Pre-requisites of SPSS...

- SPSS will not teach you statistics
- SPSS will not guide you in selecting the appropriate statistical technique for analysing the data
- Learning statistics is hard
- Understanding the statistical tests are needed not the formulae's



Amal Kumar Chetty



**Model Summary**

Model	R	R Square	Adjusted R Square	Std. Error of the Estimate
1	.922 <sup>a</sup>	.850	.833	1.000

**ANOVA**


Source	Sum of Squares	df	Mean Square	F	Sig.
Corrected Total	1.000	14	.071		




G. Lakshminarayana

### Types of 3D response surfaces


Maximum




Minimum



Stationary Ridge





Vamsi Krishna P

Shravya

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20/001

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20/015

20/016

20/017

20/018

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### Registration Fee

Free

### IMPORTANT DATES (Phase - I)

Last date for Registration : 12-11-2020

Intimation of selection : 14-11-2020

### IMPORTANT DATES (Phase - II)

Last date for Registration : 10-12-2020

Intimation of selection : 12-12-2020

### HOW TO APPLY

The applicants should fill the Registration Form through Google Forms using below link

A test will be conducted at the end of the program and joint certificates shall be issued (by AICTE & conducting institute) to those participants who have attended the program and have scored minimum 80% marks in the test.

### REGISTRATION LINKS

#### Phase - I

<https://forms.gle/vYqQmCTs3VSEBvL29>

#### Phase - II

<https://forms.gle/YyDh5V793kRHUXXk6>

PROFESSOR & HEAD

Department of Mechanical Engineering  
CBIT (U) - Raichur Institute of Technology  
Raichur, Karnataka-575102



CBIT (U) - RAICHUR INSTITUTE OF TECHNOLOGY

WOMEN EMPOWERMENT CELL



41



## AICTE - Sponsored TWO-WEEK ONLINE FACULTY DEVELOPMENT PROGRAM (FDP)

on

## RESEARCH METHODOLOGIES AND STATISTICAL DATA ANALYSIS

Phase - I: 16<sup>th</sup> - 28<sup>th</sup> November, 2020

Phase - II: 14<sup>th</sup> - 26<sup>th</sup> December, 2020

Organized by

DEPARTMENT OF MECHANICAL  
ENGINEERING



## CHAITANYA BHARATHI INSTITUTE OF TECHNOLOGY(Autonomous)

CBIT, established in the Year 1979, has developed in Four Decades of its journey, as one of the Premier Engineering Institute in INDIA, in Telangana State. The Institute offers Eleven UG and Eleven PG Programs into which Brilliant and Meritorious Candidates with good EAMCET Rank are seeking admissions at CBIT. CBIT Students are prepared and perfected holistically to secure Placements in reputed National and Multi-National Industries. Alumni, nearly 25,000 Graduate Engineers, are successfully placed in their Careers and as Entrepreneurs Globally. The Institute has been granted Autonomous Status from the Academic Year 2013-14 onwards.



### ABOUT THE DEPARTMENT

The Department of Mechanical engineering, CBIT is offering 2 under graduate courses; Mechanical Engineering and Production Engineering with an intake of 120 and 60 respectively and Two PG programs in CAD/CAM

and Thermal Engineering domains. The department has 46 faculty members out of which 16 are PhDs. The department is growing exponentially in terms of R&D and consultancy. In the last 3 years 7 R&D sponsored projects of worth Rs. 98 lakhs were awarded to the department, 4 patents were published and 2 patents were filed, 22 works shops and 2 FDPs were organized, under the guidance of department faculty 15 PhDs were awarded and two were submitted. The Department is well equipped with all state-of-the-art equipment's. Laboratories & workshops providing all necessary facilities to the students. The Hexagon Capability Center India has opened Innovation laboratory in the premises of the CBIT. The lab has been equipped with hardware and a software worth Rs.6,50 Crore. B.E Mechanical Engineering Production Engineering and M.E CAD/CAM Programmes were accredited by NBA.

### ABOUT THE FDP

The objective of this programme is to emphasize on broad range of techniques available in both research process and data analysis for academicians, practitioners and researchers from interdisciplinary Domains. This FDP will provide an opportunity to the participants to share their experience and knowledge.

### COURSE CONTENT

- o Introduction to research Methodology
- o Successful Literature search and Review
- o Problem Identification and Literature review

- o Research Philosophy and design
- o Publication Ethics
- o Writing Research Papers using Latex
- o Scientific Journal Finder
- o Indexing and Impact factors
- o Effective Report Writing
- o Referencing Tools
- o Patent, copyright and Plagiarism.
- o Creating research profile and Collaborations
- o Sampling and data collection
- o Data Analysis
- o Hypothesis formulation
- o Design of Experiments
- o Different Optimization techniques
- o Optimization using Genetic Algorithm
- o Various univariate data analysis (T-test and ANOVA, etc)
- o Various multivariate data analysis (Correlation, regression, multi regression and logistic regression, etc)
- o Problem Validation
- o MAT Lab
- o Basics of SPSS and Data handling
- o Minitab software
- o Case Studies
- o Data Analytics using Python

### RESOURCE PERSONS

Faculty from IIT'S, NIT'S, Universities, CBIT and other reputed institutions. Scientists and industry experts from reputed Organizations/ Industries.

### TARGET GROUP

Faculty members of the AICTE approved institutions, Research Scholars and industry persons can register. Selected participants will be informed through mail. Selection is based on first-come-first-serve basis.

**Report submitted to AICTE**  
**on**  
**AICTE Sponsored Two Week FDP on Research Methodologies and Statistical Data Analysis**

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AICTE sponsored Two-week FDP program on "Research Methodologies and Statistical Data Analysis" under AQIS 2019-20 grant was sanctioned during the financial year 2020-21. As per AICTE file No. 34-67/61/FDC/FDP/P-1/2019-20 dated 30-July 2020, Rs- 489533/- ((Four Lakhs Eighty-Nine Thousand Five Hundred and Thirty-Three Only) grant was released to conduct two-week faculty development program under AQIS 2019-20 through contact mode by the AICTE during the financial year 2020-21. Due to COVID-19 pandemic situations AICTE allowed to conduct FDP through online mode in multiple phases.

A Two-week online FDP on Research Methodologies and Statistical Data Analysis was organized in TWO Phases. First Phase was organized during 16<sup>th</sup> to 28<sup>th</sup> November 2020. Second phase was organized during 14<sup>th</sup>-26<sup>th</sup> December 2020. A total of 208 candidates were registered for the Phase-1, out of which 198 eligible candidates were shortlisted. According to AICTE instructions, The PEC decided that 80% minimum attendance and 60% marks in the test as the eligibility criteria for the award of participation e-certificates. 134 candidates were attended for the program, 121 candidates satisfied the criteria and were awarded the e-certificates.

A total of 232 candidates were registered for the Phase-2, out of which 220 eligible candidates were shortlisted. 75 candidates were attended for the program, 73 candidates were satisfied the criteria and were awarded the e-certificates.

As part of the program, in each phase 34 sessions are organized excluding inaugural and valedictory. Each day Three sessions are organized from morning 9:30 AM to 4:00 PM. Eminent people from IITs, NITs, IIIT, University's and top affiliated college and industry are drawn for delivering lectures and were well received by the participants. Various topics and software's on Research Methodologies and Statistical Data Analysis are covered. The feedback from the participants shows that they were immensely benefited from the Programme.

  
PROFESSOR & HEAD  
Department of Mechanical Engineering  
Chaitanya Bharathi Institute of Technology (A)  
Gandipet, Hyderabad-500 075, Telangana

An amount of Rs. 489533/- was sanctioned out of which Rs.3,72,000 was spent on the conduct of the program and the remaining amount 1,17,533 is being returned to AICTE.

Phase-1		Phase-2	
Registered	208	Registered	232
Shortlisted Candidates	198	Shortlisted Candidates	220
Attended	134	Attended	75
Awarded with e-Certificate	121	Awarded with e-Certificate	73



**PROFESSOR & HEAD**  
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## AICTE Sponsored Two Week FDP on

### Research Methodologies and Statistical Data Analysis (Phase-2)

14-26 December 2020

### List of Participants successfully completed the program Phase-2 FDP Certificate List

S.NO	Salutation	Name of the Participant	Designation	Name of the Institute/Industry	Email Address	Reference No.
1	Ms.	Vinita	Assistant Professor	Kishan Lal Public College, Rewari	vin252011malkar@gmail.com	AICTE/CBIT/MECH/FDP-2/2020/001
2	Ms.	I.Bhavya Swathi	Research Scholar	VIGNAN Deemed to be University, Gunur	bhavyaswathi@gmail.com	AICTE/CBIT/MECH/FDP-2/2020/002
3	Mr.	Indrajit Das	Research Scholar	NEHU Tum Campus, Meghalaya, Tura	indrajitdas@gmail.com	AICTE/CBIT/MECH/FDP-2/2020/003
4	Dr.	Balasubramanian R.	Assistant Professor	Xavier University, Bhubaneswar	bala@xuh.edu.in	AICTE/CBIT/MECH/FDP-2/2020/004
5	Mr.	Pradeep Kumar S	Assistant Professor	Vel Tech Rangaraja Dr.Sagarthala R&D Institute of Science and Technology, Avadi	pradeepkumar@veltech.edu.in	AICTE/CBIT/MECH/FDP-2/2020/005
6	Dr.	P.Durga Bhavani	Associate Professor	Amrita sai institute of science and technology , Paritala	asir02485@amritasai.org.in	AICTE/CBIT/MECH/FDP-2/2020/006
7	Ms.	Vanita M Lalan	Assistant Professor	L.M.COLLEGE OF PHARMACY, AHMEDABAD	vanita.lalan@lmcpc.ac.in	AICTE/CBIT/MECH/FDP-2/2020/007
8	Ms.	Anbulakshmi S	Assistant Professor	Sree vidyanikethan engineering college, Tirupati	anbulakshmisveco@gmail.com	AICTE/CBIT/MECH/FDP-2/2020/008
9	Mr.	M Shannuka Srinivas	Research Scholar	INDIAN INSTITUTE OF TECHNOLOGY ,TIRUPATI	mohannukasrinivas@gmail.com	AICTE/CBIT/MECH/FDP-2/2020/009
10	Mr.	P Surender Reddy	Assistant Professor	Chaitanya Bharathi Institute of Technology , Hyderabad	surenderreddy_mech@cbit.ac.in	AICTE/CBIT/MECH/FDP-2/2020/010
11	Ms.	Ashwini Sindhe	Research Scholar	Guilbarga university, kalaburgi	Ashwini@sindhe.as1995@gmail.com	AICTE/CBIT/MECH/FDP-2/2020/011
12	Mr.	Sanjaya	Research Scholar	Guilbarga University, Kalsburgi	sanjaybpawar@gmail.com	AICTE/CBIT/MECH/FDP-2/2020/012
13	Mr.	Yadaiah Balagani	Assistant Professor	MGIT, Hyderabad	byadaiah_cse@mgit.ac.in	AICTE/CBIT/MECH/FDP-2/2020/013
14	Mr.	Rangajulu Basumatary	Assistant Professor	Bodoland University, Kokrajhar	rangajulubasumatary38194@gmail.com	AICTE/CBIT/MECH/FDP-2/2020/014
15	Dr.	Uday Kumar	Assistant Professor	BCET, Durgapur	kumaruday2404@gmail.com	AICTE/CBIT/MECH/FDP-2/2020/015
16	Dr.	Ravi Chowdary	Professor	Sri	ravichowdary99947@gmail.com	AICTE/CBIT/MECH/FDP-2/2020/016
17	Mr.	Suresh Redditha	Assistant Professor	Cadets training wing, MCEME , Secunderabad	rkrvsuresh@gmail.com	AICTE/CBIT/MECH/FDP-2/2020/017
18	Dr.	K.Lenin	Professor	Prasad V Potluri Siddhartha Institute of technology, Vijayawada	gklenin@gmail.com	AICTE/CBIT/MECH/FDP-2/2020/018
19	Dr.	Yasha Tomar	Assistant Professor	HNB Garhwal University, Srinagar Garhwal	Yeshatomar@gmail.com	AICTE/CBIT/MECH/FDP-2/2020/019

S.NO	Salutation	Name of the Participant	Designation	Name of the Institute/Industry	Email Address	Reference - No.
20	Mr.	Tanveer Ahmad Lone	Phd Research Scholar	Maulana Azad National Urdu University, Hyderabad	lonetanveeramu@gmail.com	AICTE/CBIT/MECH/FDP-2/2020/020
21	Mr.	Praveen Mathangi	Assistant Professor	Sri Venkateswara Engineering College, Suryapet	mpraveen_mechsrst@gmail.com	AICTE/CBIT/MECH/FDP-2/2020/021
22	Dr.	Lakshmi	Professor	Sri Venkateshwara, Bangalore	a22lakshmi@gmail.com	AICTE/CBIT/MECH/FDP-2/2020/022
23	Dr.	Sudhir Kumar Tiwari	Assistant Professor	SNS.Govt.P.G.College Narayan Nagar, Pithoragarh	sudhir.kumar.tiwari.akt@gmail.com	AICTE/CBIT/MECH/FDP-2/2020/023
24	Ms.	Aishwarya Tomar	Research Scholar	HNB Garhwal University, Srinagar Garhwal	ashwaryatomar@gmail.com	AICTE/CBIT/MECH/FDP-2/2020/024
25	Mr.	Jawahar Mamidala	Associate Professor	Jayamukhi Institute of technological Sciences warangal, Telangana	jawahar.mamidala123@gmail.com	AICTE/CBIT/MECH/FDP-2/2020/025
26	Mr.	Mohd Abdul Moiz	Research Scholar	Maulana Azad National Urdu University, Hyderabad	mamoiz786@gmail.com	AICTE/CBIT/MECH/FDP-2/2020/026
27	Dr.	Pankaj Kumar	Assistant Professor	SR University, Warangal	pankajkumar@sru.edu.in	AICTE/CBIT/MECH/FDP-2/2020/027
28	Mr.	V. Jaipal Reddy	Assistant Professor	Chaitanya Bharathi Institute of Technology (A), Hyderabad	vjaipalreddy_mech@cbit.ac.in	AICTE/CBIT/MECH/FDP-2/2020/028
29	Mr.	Gagandeep Singh	Assistant Professor	Lovely Professional University	gagandeep.15831@lpu.co.in	AICTE/CBIT/MECH/FDP-2/2020/029
30	Mr.	Jask Sunhar	Assistant Professor	St. John College of Engineering and Management	jkksunhar@gmail.com	AICTE/CBIT/MECH/FDP-2/2020/030
31	Mrs.	Syeda Romana	Assistant Professor	Muffakham Jah College of Engineering and Technology, Hyderabad	syedaromana@mjcollege.ac.in	AICTE/CBIT/MECH/FDP-2/2020/031
32	Dr.	Md. Aleem Pasha	Associate Professor	Chaitanya Bharathi Institute of Technology (A), Hyderabad	aleempasha_mech@cbit.ac.in	AICTE/CBIT/MECH/FDP-2/2020/069
33	Mr.	T. N Aditya	Assistant Professor	Chaitanya Bharathi Institute of Technology (A), Hyderabad	tnaditya_mech@cbit.ac.in	AICTE/CBIT/MECH/FDP-2/2020/070
34	Dr.	Manowar Hussain	Assistant Professor	Chaitanya Bharathi Institute of Technology (A), Hyderabad	manowar_mech@cbit.ac.in	AICTE/CBIT/MECH/FDP-2/2020/071
35	Dr.	Dr. N. V. Srinivasulu	Professor	Chaitanya Bharathi Institute of Technology (A), Hyderabad	nvsrinivasulu_mech@cbit.ac.in	AICTE/CBIT/MECH/FDP-2/2020/072
36	Dr.	Dr P Prabhakar Reddy	Professor	Chaitanya Bharathi Institute of Technology (A), Hyderabad	prabhakarreddy_mech@cbit.ac.in	AICTE/CBIT/MECH/FDP-2/2020/073
37	Mr.	Md. Alamgir	Assistant Professor	Rajiv Gandhi Memorial college of Engineering and Technology, Nandyal, kurnool dist.	alam.jugnu@gmail.com	AICTE/CBIT/MECH/FDP-2/2020/032
38	Mr.	V Rajesh Kumar	Research Scholar	Annamalai University, Chidambaram (nativ-kurnool)	v.rajeshkumar.b.m.pharma@gmail.com	AICTE/CBIT/MECH/FDP-2/2020/033
39	Mr.	Pranav R.	Research Scholar	Osmania University College of Engineering, Hyderabad	pranavturbokat91@gmail.com	AICTE/CBIT/MECH/FDP-2/2020/034

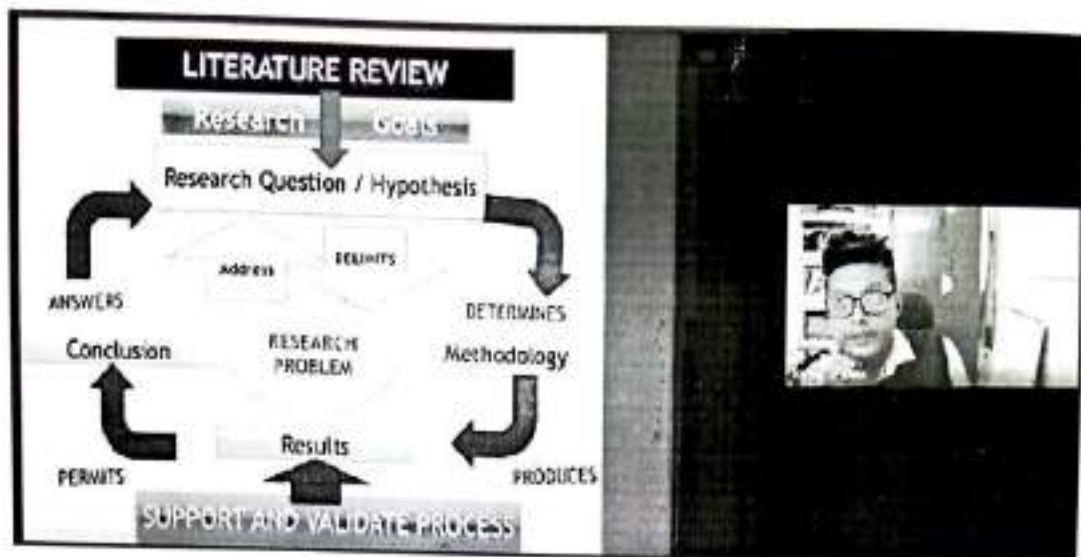
S.NO	Salutation	Name of the Participant	Designation	Name of the Institute/Industry	Email Address	Reference . No.
40	Dr.	Dr Jinali M. Amin	Sr Lecturer	L.M.COLLEGE OF PHARMACY, AHMEDABAD	jinure@gmail.com	AICTE/CBIT/MECH/FDP-2/2020/035
41	Mr.	Mohd Arfath Khan	Assistant Professor	Gitam, Hyderabad	mkhan2@gitam.edu	AICTE/CBIT/MECH/FDP-2/2020/036
42	Dr.	Suman Lata	Assistant Professor	Rayat-Bahra University, Mohali, Punjab	chem12jash@gmail.com	AICTE/CBIT/MECH/FDP-2/2020/037
43	Dr.	Naresh Kumar Tallapalli	Associate Professor	Department of Business Management, CMR Technical Campus, Hyderabad	naresh.mhbd@gmail.com	AICTE/CBIT/MECH/FDP-2/2020/038
44	Dr.	Pravallika Akula	Assistant Professor	Dept.of Management Studies,UCC&BM Mahatma Gandhi University, Nalgonda	pravallika.akula86@gmail.com	AICTE/CBIT/MECH/FDP-2/2020/039
45	Ms.	Mital Thakkar	Assistant Professor	Department of Management, Sumandeep Vidyapeeth, Vadodra	mital_thakkar87@yahoo.co.in	AICTE/CBIT/MECH/FDP-2/2020/040
46	Dr.	Hariharan Permal	Assistant Professor	PSG College of Technology, Coimbatore	phh.bio@psgpech.ac.in	AICTE/CBIT/MECH/FDP-2/2020/041
47	Mr.	Nikhil Yadav	Assistant Professor	WOMEN ENGINEERING COLLEGE, AJMER	nikhilyadav@wgeca.ac.in	AICTE/CBIT/MECH/FDP-2/2020/042
48	Ms.	Logeswari G	Teaching Fellow	College of Engineering Guindy, Anna University, Chennai	logeswarig4@gmail.com	AICTE/CBIT/MECH/FDP-2/2020/043
49	Mr.	Samit Arora	Research Scholar	IIT, Delhi	contactsamitnow@gmail.com	AICTE/CBIT/MECH/FDP-2/2020/044
50	Mr.	Rumit Kumar Saha	Assistant Professor	ITM University, Raipur	rumitkumar111@gmail.com	AICTE/CBIT/MECH/FDP-2/2020/045
51	Dr.	Ramesh Kumar	Assistant Professor	Koshi College, Khagaria-Munger University, Munger, Khagaria	rameshkumar2020eco@gmail.com	AICTE/CBIT/MECH/FDP-2/2020/046
52	Mrs.	Lijetha C Jaffrin	Assistant Professor	Veltech Rangarajan Dr.Sakunthala R&D Institute of Science and Technology, Chennai	lijethacjaffrin@veltech.edu.in	AICTE/CBIT/MECH/FDP-2/2020/047
53	Mrs.	Nair Reeta Shivashankaran	Research Scholar	Ct University, Ludhiana,Punjab	reetanair9@gmail.com	AICTE/CBIT/MECH/FDP-2/2020/048
54	Dr.	Mukesh N. Kher	Assistant Professor	L. M. College of Pharmacy, Ahmedabad, Gujarat.	mkher318@gmail.com	AICTE/CBIT/MECH/FDP-2/2020/049
55	Ms.	Shilpa Chaudhary	Assistant Professor	Jalandhar	shilpa.170913@gmail.com	AICTE/CBIT/MECH/FDP-2/2020/050
56	Mr.	S Tulasi Ram	Assistant Professor	Chaitanya Bharathi Institute of Technology	tulasiram_sms@cbit.ac.in	AICTE/CBIT/MECH/FDP-2/2020/051
57	Dr.	R.Gomathi	Assistant Professor	University College of Engineering Dindigul Campus, Hyderabad	gomathiaudeco@gmail.com	AICTE/CBIT/MECH/FDP-2/2020/052
58	Dr.	Dusanapudi Satyanarayana	Professor	Vignan's Foundation for Science,Technology and Research (Deemed to be University), Guntur	dsatya2312@gmail.com	AICTE/CBIT/MECH/FDP-2/2020/053
59	Mr.	Saju A	Research Scholar	Bangalore Institute of Technology, Bangalore	link2saju@gmail.com	AICTE/CBIT/MECH/FDP-2/2020/054

S.NO	Salutation	Name of the Participant	Designation	Name of the Institute/Industry	Email Address	Reference , No.
60	Mr.	Farooque Alam	Research Scholar	Aligarh Muslim University, Aligarh	farooque.alam11@gmail.com	AICTE/CBIT/MECH/FDP-2/2020/055
61	Mrs.	Mamatha Rani Ravula	Degree Lecturer in Chemistry	TSWRDC (W) Mahabubabad, Kakatiya University, Mahabubabad	mamatharani.chem@gmail.com	AICTE/CBIT/MECH/FDP-2/2020/056
62	Mr.	Chivireddy Sharath Reddy	Assistant Professor	Chaitanya Bharathi Institute of Technology (A), Hyderabad	csharathreddy_mech@cbit.ac.in	AICTE/CBIT/MECH/FDP-2/2020/057
63	Mr.	B.Ramji	Assistant Professor	Sri Venkateswara Engineering College, Suryapet	ramji1143@gmail.com	AICTE/CBIT/MECH/FDP-2/2020/058
64	Mr.	U Phani Vivek	Assistant Professor	Mahatma Gandhi Institute of Technology, Hyderabad	uphanivivek_mct@mgit.ac.in	AICTE/CBIT/MECH/FDP-2/2020/059
65	Ms.	Divya Preetha	Research Associate	Vellore Institute of Technology, Chennai Campus	jesudiv18@gmail.com	AICTE/CBIT/MECH/FDP-2/2020/060
66	Ms.	Peri See Prabha	Assistant Professor	ITM University, Raipur	prabha.etc@gmail.com	AICTE/CBIT/MECH/FDP-2/2020/061
67	Mr.	Achinami Vs Ravi Sai Nadh	Assistant Professor	KVSR SIDDHARTHA COLLEGE OF PHARMACEUTICAL SCIENCES, VIJAYAWADA	a2zravisai@gmail.com	AICTE/CBIT/MECH/FDP-2/2020/062
68	Mr.	Rishu Brind Kumar Upadhyay	Research Scholar	Indian Institute of Technology (BHU), Varanasi	rishubrinku.n.ecs17@iitbhu.ac.in	AICTE/CBIT/MECH/FDP-2/2020/063
69	Mr.	Mabasha Shaik	Assistant Professor	Bapatla Engineering College, Bapatla	mabashapec@gmail.com	AICTE/CBIT/MECH/FDP-2/2020/064
70	Mrs.	Varimadugu Sandhya	Assistant Professor	Chaitanya Bharathi Institute of Technology, Gandipet, Hyderabad	vsandhya_mech@cbit.ac.in	AICTE/CBIT/MECH/FDP-2/2020/065
71	Mr.	Swagat Dwivedi	Assistant Professor	VSSUT, Burla, Sambalpur	swagatsudhadwivedi@gmail.com	AICTE/CBIT/MECH/FDP-2/2020/066
72	Ms.	Kaleru Aparna	Assistant Professor	JNTUH College of Engineering Sultanpur, Sangareddy	kaleru.aparna@gmail.com	AICTE/CBIT/MECH/FDP-2/2020/067
73	Dr.	Reddy	Assistant Professor	CBIT, Gandipet, Hyderabad	sitravankumar_physics@cbit.ac.in	AICTE/CBIT/MECH/FDP-2/2020/068

FDP-Coordinator

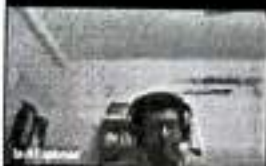
PROFESSOR & HEAD  
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- ▶ Here, we provide an introduction to the h-index.
- ▶ We give typical values of this index for academic physicians at different ranks as well as for a group of Nobel Prize-winning theoretical scientists.
- ▶ The advantages and drawbacks of the h-index will be discussed, as will several alternative indices that attempt to improve upon it.
- ▶ This review will be especially useful for pathologists and clinical laboratory scientists who work in an academic hospital or university department.
- ▶ It will help readers to manage their own careers and to ensure that the system is equitable for everyone.



**JOB MARKET**

## Tattoo, Bling Craze Raises Hiring Issues

A decade ago, most job search advisories would have had warnings of tattoos and body piercings as a barrier to get your resume placed in the "No Way" pile. However, times have changed. With some surveys indicating that more than one-third of young people now sport tattoos and other forms of body art, John A. Challenger, chief executive officer of the global recruitment firm Challenger, Gray & Christmas, Inc., Chicago, feels that companies will be forced to come up with new hiring strategies.

"Some employers are already having trouble finding qualified applicants—they just don't want to let some body art get in the way of hiring the best available candidate. Plus, a growing number of employers recognize the benefits of allowing all sorts of tattoos and piercings on the job, and are embracing the unique individuals that make people stand out from the crowd," notes Challenger.

At one time, the culture of tattoos and body piercings in the job interview or workplace would have been non-existent unless the job was with a punk rock band. However, body art is going mainstream among young people. One study by the Mayo Clinic found that 20% of university students had one to three tattoos, and 61% had one or more piercings (more than women's students). A more extensive poll found that 36% of 25- to 30-year-olds have tattoos, compared to 16% of Americans of all ages.

"And tattoos are friction, but some are prominent, some aren't, and some are 'readable,'" notes Challenger. "They can change the way an employer sees an applicant, as a job seeker, you have to judge whether the employer will see you as someone with a going-to-be-a-leader attitude or your body art is just for fun. It's not the class, and that is where you really need to watch, because you will have to make an effort to combat that your interview and take out your piercings."

"The best way to determine if body art is acceptable is by asking someone, preferably not the person you are to meet. However, if you know someone else at the company or if you have established rapport with a secretary or receptionist,




*Handwritten signature*


PROFESSOR & HEAD  
 of Mechanical Engineering  
 at the University of Technology, Sydney  
 Australia




# Effective Thesis Writing



Pappula LAXMI NARAYANA  
Dept. of Mechanical Engineering  
University College of Engineering  
Osmania University Hyderabad-500 007




HYDERABAD



## Scope

- Overview of intellectual property
- What is a patent?
- How Good Must Your Invention Be.
- The Basic Patent Right
- Precautions to be taken before drafting a specification
- Contents (kind) of patent specific claims
- Drafting the patent ( description and claims).
- Claims and their interpretation



*Pappula*  
PROFESSOR & HEAD  
Department of Mechanical Engineering  
University College of Engineering (A)  
Osmania University Hyderabad-500 007, Telangana

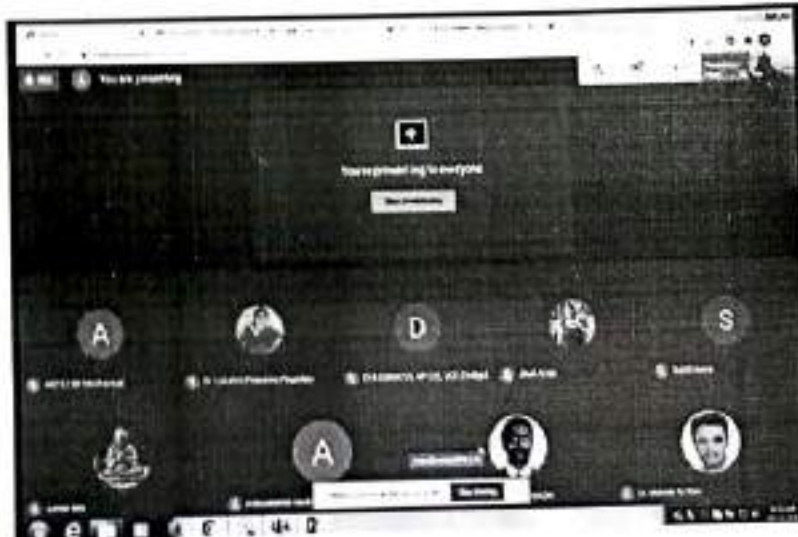
## Grey Relational Analysis

1. Grey Relational Analysis (GRA) was developed by a Chinese Professor Julong Deng of Huazhong University of Science and Technology.
2. GRA uses a specific concept of information.

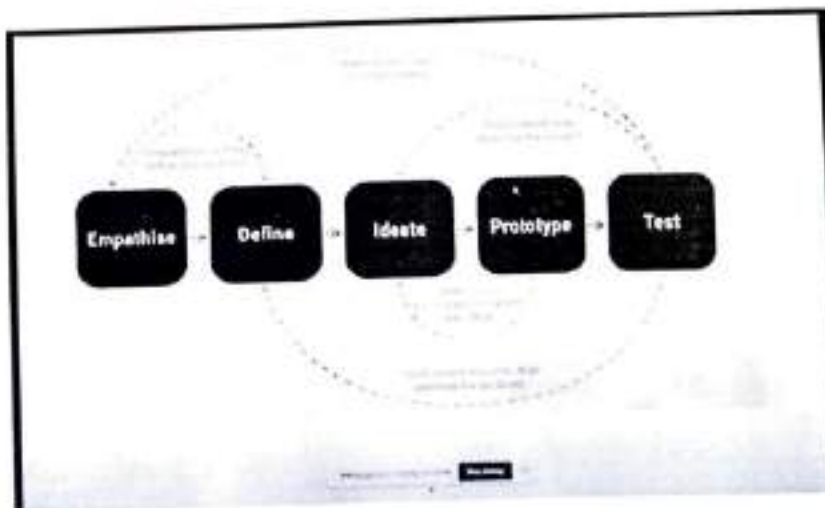
System with no information	Black
System with partial information	Grey
System with complete information	White



Samir Arora P



Shruti Tugade



Samir

*Samir*

PROFESSOR & HEAD  
Department of Mechanical Engineering  
Jawahar Institute of Technology (A)  
MIDC, Chindrapur - 500 075, Telangana

### ONLINE FILING PROCESS

• Any individual who is an author or rights owner or assignee or legal heir can file application for copyright of a work either by filing facility or by speed post

• With effect from August 01, 2014, the physical Copyright Courier for filing copyright applications has been closed in order to popularize the online filing

Term of Copyright - 60 years either from the death of the Author or 60 years from the date of publication.

Infringement of Copyright - Civil and Criminal remedies

No copyright in an idea, themes & plots of historical or legendary facts  
No copyright over news



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### What Makes a Good Paper/thesis



- **Good Paper/thesis = good content + writing skills**
  - Content and results: your job
- **Writing skills: Structure, flow, argument, ...**
  - Logical, clear, succinct, consistent, ...
  - English
- **Standard must be high**
  - Your best efforts
  - Compared with others, yours is better



### What is the difference between SPSS Base and Standard?

**Base** offers a variety of common analytics capabilities. **Standard** offers the essential statistical procedures you need to increase the reliability of your analysis and reach more accurate conclusions.

**Standard** includes **Base** plus regression, advanced statistics, custom tables and modules.



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*Prof. S. S. S. S.*

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Gandhinagar, Hyderabad-500 075, Telangana



# The Institution of Engineers (India) TELANGANA STATE CENTRE

in Association with  
**Department of Mechanical Engineering**



**CHAITANYA BHARATHI  
INSTITUTE OF TECHNOLOGY (A)**

Kotapet (Village), Gandipet, Hyderabad, Telangana-500075. www.cbti.ac.in



COMMITTED TO  
RESEARCH,  
INNOVATION AND  
EDUCATION

**42**  
years

**ONE DAY WORKSHOP**

**ON**

**SMART MANUFACTURING: CONNECTED FACTORIES**

on 17<sup>th</sup> JUNE 2021 (9.30AM to 1.30PM)

(Through ZOOM Cloud Meeting APP)

Meeting ID: 976 4678 3105

Passcode: ieitsc

For Registration, please click: <https://forms.gle/tsFZkahjWDocSWac6>

Contact: 9491377882, email: gurubrahman\_mech@cbti.ac.in

## INTRODUCTION:

The Institution of Engineers (India), Telangana State Centre in Association with Department of Mechanical Engineering, CBIT is organizing a one-day workshop on "SMART MANUFACTURING: CONNECTED FACTORIES" on June 17<sup>th</sup>, 2021 at 0930 hrs to 1330 hrs through ZOOM Cloud Meeting App.

## ABOUT THE WORKSHOP:

Manufacturers are now facing unprecedented challenges of complexity and growth while connected technology, often known as Industry 4.0 or Industrial IoT, brings the possibility of building the 'Digital Factory': an industrial facility where all products, personnel, raw materials, machines and processes are being connected.

In this Digital era, where managers are expected to use real-time data to continually optimize production operations and achieve higher levels of efficiency, factory executives are exposed to extraordinary levels of complexity and competitive pressures.

## The Evolution of Connected Factories:

A paradigm shift is clearly visible in the manufacturing scenario during the last two centuries. Various manufacturing strategies including mass production, flexible manufacturing, agile manufacturing, lean manufacturing, reconfigurable manufacturing, predictive manufacturing, cyber manufacturing and mass customization have been introduced to drastically improve the productivity, quality, variety and cost reduction. Customized functionality, high quality, affordable cost, high reliability, and environmentally friendly products are driving the changes in the manufacturing industry. These changes are realized mostly by enabling technologies like Internet of Things, Advanced Sensors, Artificial Intelligence, Industrial Big Data, Virtual and Augmented Reality, Adaptive Machine Learning, Cyber physical Systems etc., Rapid advances in material science, advances in machine tools and metrology, automation, robotics, optics and mechatronics among others are driving transformational change in the manufacturing technologies to meet the increasingly challenging demands of the future.

### Benefits of a Connected Factory:

The benefits of a connected factory are not only contained to the production process itself. For example, shorter lead times increase customer satisfaction who are receiving product on time or even early. Advantages of a connected factory include:

**Higher Productivity-** Since smart factories can operate 24/7 and have lower direct labor costs, there is a large investment savings.

**Increased Flexibility-** Smart factories are designed for different manufacturing configurations and demand fluctuation. This provides optimal operation flexibility.

**Better Safety-** Automation of tasks such as sorting, picking, packing, transporting, and delivering allows for humans to concentrate on safer tasks.

**Better Quality-** A connected factory can detect quality issues faster and can identify the reason for them.

**Lower Cost-Optimization** leads to more cost-efficient processes, including inventory control, better hiring decisions, and improved sourcing of needs.

### FOCUS AREAS:

- Introduction to Smart Manufacturing.
- Digital Manufacturing: Industry 4.0
- Core Tools/Technologies needed to implement a Connected Factory
- Industrial Internet of Things (IIoT)
- Advanced Sensors, Collaborative Robots (Cobots)

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### ORGANIZING COMMITTEE:

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**Dr G Rameshwar Rao, FIE**  
Chairman, IEL, TSC

**Prof G P S Varma**  
Principal, CBIT, Hyderabad

**Er T Anjaiah, FIE**  
Hon. Secretary, IEL, TSC

**Dr P V R Ravindra Reddy**  
Prof. & HOD of Mech. Engg, CBIT

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**Session Chairman:** **Dr S Satyanarayana, FIE**  
Immediate Past Chairman IEL, TSCC  
Former Principal Director, CITD

**Convener & Speaker:** **Dr G Chandra Mohan Reddy, FIE**  
Professor of Mech Engg, CBIT & Former Principal  
Past Hon Secretary & Member IEL, TSCC

**Guest Speaker:** **Dr Srin Perla**  
Global Head - Technical Training  
CYIENT, Hyderabad

**Co-Convener:** **Er K. Gurubrahman**  
Assistant Professor, MED, CBIT

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**Note: Registration Compulsory to attend the workshop. Participation Certificate will be provided to those who register and attend all the sessions of the program.**

Timestamp	Email Address	Name	Student/Faculty	Name of college	Department	Contact no.
6/17/2021 12:29:07	dileep.kotte@kluniversity.in	DILEEP KOTTE	Faculty	K L University	Mechanical Engineering	9160143333
6/17/2021 12:29:24	trvinkumar@gist.edu.in	Dr.TNVLN Kumar	Faculty	Geethanjali Institute of Science and Technology Nellore	EEE	9246422864
6/17/2021 12:29:40	sharma.gvss@gmit.edu.in	Dr. G.V.S.S. Sharma	Faculty	GMR Institute of Technology	Mechanical Engineering Department	9949617264
6/17/2021 12:29:52	ajjestaoundattikar@gmail.com	Sujeet Ashok Soundattikar	Faculty	DKTE's Textile and Engineering Institute, Ichalkaranj	Mechanical	9850084663
6/17/2021 12:30:16	pehashidar_mct@mgit.ac.in	PEDDIREDDY SHASHIDAR	Faculty	MAHATMA GANDHI INSTITUTE OF TECHNOLOGY	Mechanical Engineering	7095843401
6/17/2021 12:30:21	nagaveni.t@uceou.edu	Dr Nagaveni T	Faculty	University College of Engineering, Osmania University, HYDERABAD	Mechanical Engineering	9966998960
6/17/2021 12:30:42	pavanaries2010@gmail.com	PAVAN KUMAR THIMMARAJU	Faculty	Nalla Narasimha Reddy Education Society's Group of Institutions	Mechanical Engineering	9866754820
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6/17/2021 12:31:21	pavan.damera0334@gmail.com	CAMERA PAVAN KUMAR	Faculty	Ratnapuri institute of technology College of Polytechnic	Mechanical Engineering	9133523634
6/17/2021 12:31:23	prkprasad22@gmail.com	Rajendra Krishna Prasad Peddi	Faculty	PRK Engineering Services	Manufacturing Services	9966697674
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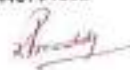
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6/17/2021 12:31:46	nagakondaiah@gmail.com	Polliboina naga kondaiah	Faculty	Geethanjali institute of science and technology	Electrical	7661886653
6/17/2021 12:31:58	shailesh8484@gmail.com	Shailesh Singh Thakur	Faculty	Kalinga University	Mechanical Engineering	9827115986
6/17/2021 12:32:15	vpantrajakumar@gmail.com	T RAJKUMAR	Faculty	K RAMAKRISHNAN COLLEGE OF TECHNOLOGY	MECHANICAL ENGINEERING	9944153338
6/17/2021 12:32:23	malavika103@gmail.com	N.V.MALAVIKA	Faculty	PSCMR College of Engineering and Technology	Mechanical Engineering	9949143080
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6/17/2021 12:32:47	ksantoshkumar_mct@mgit.ac.in	K.Santosh Kumar	Faculty	Mahatma Gandhi Institute of Technology	Mechanical Engineering	9963903199
6/17/2021 12:32:53	0208ravi@gmail.com	Dr THUMMALA RAVIKUMAR	Faculty	Geethanjali Institute of Science and Technology	Electrical and Electronics Engineering	9133076655
6/17/2021 12:33:16	aravisvk@gmail.com	Dr S Ravi Sekhar	Faculty	Gokaraju Rangaraju Institute of Engineering Technology	Mechanical Engineering	9010643178
6/17/2021 12:33:26	anishmech037@gmail.com	MEDI ANISH KUMAR	Faculty	MEDI ANISH KUMAR	Mechanical	9912119067
6/17/2021 12:33:34	saiturupati95@gmail.com	TURUPATI SAI KUMAR	Faculty	Ratnapuri Institute of Technology - College of Polytechnic	Mechanical Engineering	9969304536
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6/17/2021 12:34:30 hodmech@smrceet.org	Dr. P. RAVI KUMAR	Faculty	CMR COLLEGE OF ENGINEERING & TECHNOLOGY	MECHANICAL ENGINEERING	9248727204
6/17/2021 12:37:32 sai.anji1@gmail.com	Mr V ANJANEYULU	Faculty	GEETHANJALI INSTITUTE OF SCIENCE AND TECHNOLOGY, NELLORE	EEE	7999486943
6/17/2021 12:38:49 vasundharag@gist.edu.in	Gurimini vasundhara	Faculty	Geethanjali Institute of technology and science	EEE	9542829195
6/17/2021 12:41:04 ajaykumars_mct@mgil.ac.in	AJAY KUMAR S	Faculty	MAHATMA GANDHI INSTITUTE OF TECHNOLOGY	MECHANICAL ENGINEERING	9573507427
6/17/2021 12:43:31 gunubrahmam_mech@cbil.ac.in	K.GURUBRAHMAM	Faculty	CBIT, HYD	Mechanical engineering	9491377882
6/17/2021 12:44:34 praveenjha.45@gmail.com	Praveen Kumar Jha	Faculty	Ratnapuri Institute of Technology college of Polytechnic	Mechanical Engineering	8866810045
6/17/2021 12:45:12 ravindra@gist.edu.in	K.Venkata Ravindra	Faculty	GIST, NELLORE	EEE	9948042415
6/17/2021 12:45:38 mohdhashamali786@gmail.com	Mohd Hasham Ali	Faculty	Muffakham Jah College of Engineering and Technology	Mechanical Engineering	7729993348
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6/17/2021 12:53:47 ramu@gist.edu.in	Ramu Vasa	Faculty	Geethanjali institute of science and technology	Mechanical Engineering	9042662401
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6/17/2021 12:55:11 panjanidevi_mech@cbil.ac.in	P.ANJANI DEVI	Faculty	Chaitanya Bharathi Institute of Technology	Mechanical	9959408547
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6/17/2021	12:58:28	kcsabitha_mct@mgt.ac.in	K. CHIRANJEEVI SABITHA	Faculty	Mahatma Gandhi Institute Of Technology	Mechanical	9959827778
6/17/2021	12:58:29	rvraomechanical@gmail.com	R Venkatesw Rao	Faculty	Vignera Bharathi Institute of Technology	Mechanical	9063941978
6/17/2021	12:59:16	vprasad1956@gmail.com	Vijay prasad Chinthakindi	Faculty	University College of Engineering	Manufacturing	9701874043
6/17/2021	12:59:31	rajesh.m@gist.edu.in	MULUMUDI RAJESH	Faculty	Geethanjali Institute Of Science and Technology, Nellore	Electrical and Electronics Engineering	9963014352
6/17/2021	13:00:24	udaykumar403@gmail.com	Dr. R.Uday Kumar	Faculty	MAHATMA GANDHI INSTITUTE OF TECHNOLOGY, HYDERABAD	Mechanical Engineering	900696596
6/17/2021	13:01:03	muralidvr@gist.edu.in	Mr Murali Dasari	Faculty	Geethanjali institute of science and technology	EEE	8897197709
6/17/2021	13:01:10	suraj@indiasoft.co.in	Suraj Vaishnav	Faculty	Indisoft Technologies Pvt. Ltd.	Technical Support	9955802616
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6/17/2021	13:08:48	mazharuddin@mjcollege.ac.in	Mr. K M D Mazharuddin	Faculty	Muffakham Jah College of Engineering & Technology	Mechanical Engineering	9032665806
6/17/2021	13:10:14	abdumuneem@mjcollege.ac.in	Mr. Ahmed Abdul Muneem	Faculty	Muffakham Jah College of Engineering & Technology	Mechanical Engineering Department	8008492321
6/17/2021	13:18:03	dayakar@gist.edu.in	DAYAKAR KANDE	Faculty	Geethanjali Institute of Science and Technology	Electrical and Electronics Engineering	9441183095
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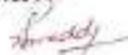
13:29:22		KRISHNA		management and technology for women	Engineering	
6/17/2021 13:38:34	mdyahiya_nyn@gmail.com	MD YAHYA	Faculty	Muffakham Jah College of Engineering and Technology	Mechanical Engineering	7415495838
6/17/2021 13:48:40	saiganesh@gist.edu.in	M. Sai Ganesh	Faculty	Geethanjali institute of science and technology	Electrical and electronics engineering	7981032754
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6/17/2021 13:56:24	sriharshapscmr@gmail.com	VUJAY SRIHARSHA TANGELLA	Faculty	PSCMR COLLEGE OF ENGINEERING AND TECHNOLOGY	DEPARTMENT OF MECHANICAL ENGINEERING	8099955180
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6/17/2021 15:19:53	kvkviswanadham_mct@mgil.ac.in	K V Kasi Viswanadham	Faculty	Mahatma Gandhi Institute of Technology m	Mechanical	9246757582
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6/17/2021 12:29:25	jayantheko@gmail.com	C. Jayanth Sakrishna	Student	Chaitanya Bharathi Institute of Technology	Mechanical Engineering	8639052107
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6/17/2021 12:31:05	matlamsandeep1998@gmail.com	Matham.Sandeep	Student	CBIT	Thermal engg	7893577978
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6/17/2021 12:32:21	dibyenn@yahoo.com	DIBYENDU MUKHERJEE	Student	Chaitanya Bharathi Institute of Technology	M.E-CADCAM	7032736066
6/17/2021 12:32:47	saitejad6086@gmail.com	D. Sai Teja	Student	CHAITANYA BHARATHI INSTITUTE OF TECHNOLOGY	MECHANICAL	8454806889
6/17/2021 12:33:03	jagapathidurgam@gmail.com	DURGAM JAGAPATHI BABU	Student	Chaitanya Bharathi Institute of Technology	MECHANICAL	8985993242
6/17/2021 12:33:05	ShruthiKammani@gmail.com	Shruthi Kammani	Student	CHAITANYA BHARATHI INSTITUTE OF TECHNOLOGY	ME-CAD/CAM	9100228394
6/17/2021 12:33:44	mdshahrulkh12898@gmail.com	SHAIK SHARUKH PASHA	Student	CBIT	MECHANICAL	8106849383
6/17/2021 12:34:32	akkenapallsaikiran202@gmail.com	AKKENAPALLI SAIKIRAN	Student	Cbit	Cadcam	8309199114
6/17/2021 12:35:25	akhilprasadsadige007@gmail.com	Sadige akhil prasad	Student			

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6/17/2021 12:37:32	katurusaikiran@gmail.com	Koluru Sai kiran	Student	Chaitanya Bharathi institute of technology	CAD/Cam	8555961736
6/17/2021 12:42:14	ramnairjativath@gmail.com	JATAVATH RAMU	Student	Chaitanya Bharathi institute of technology	CAD/CAM Mechanical (thermal engineering)	9603871636 9866653858
6/17/2021 12:42:23	charanjajameera@gmail.com	Ajneera Charan tej	Student	Chaitanya Bharathi institute of technology	ET&T MECHANICAL-ME CAD/CAM	8639403521 7036858595
6/17/2021 12:44:38	tiwari.rtk.9831@gmail.com	Er. DEEPAK TIWARI	Student	SSIPMT, RAIPUR	Mechanical Engineering	8918362648
6/17/2021 12:44:46	indudhulagondi11@gmail.com	Indu Dhulagondi	Student	Indu Dhulagondi	Design for manufacturing	7985744607
6/17/2021 12:44:59	harshareddy3783@gmail.com	HarshaVardhan Reddy	Student	CBIT Gokaraju Rangaraju institute of engineering and technology	ET & T Thermal engineering Mechanical ME CAD CAM	8639403521 8686278726 9099808241
6/17/2021 12:53:50	simharaju20241d5208@gnietcollege.com	Simharaju Srikanth	Student	SSIPMT, RAIPUR	Thermal Engineering	9701639224
6/17/2021 13:08:21	tiwari.rtk.9831@gmail.com	Er. DEEPAK TIWARI	Student	C.B.I.T		
6/17/2021 13:08:58	kumars658126@gmail.com	Jadhav sunil kumar	Student	Cbit		
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*Ranjit Reddy*

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Zoom Meeting    [Mute] [Unmute] [Close] [Share Screen] [Join Audio Meeting] [View Options]

**K. GURUBRAHM...**    [Video Off]    [Video On]    [Mute]    [Unmute]    [Close]    [Share Screen]    [Join Audio Meeting]    [View Options]

**Participants (130)**

Find a participant

- K. GURUBRAHMAM (M)
- Abhis Hydrabad Head
- Dr. G. Chandraiah... (A-Boys)
- Dr. G. Ramachandra Rao (Dr. Rao)
- Dr. G. Subramanyam Subramani
- Dr. Srin Perla (Comcast)
- Dr. Suresh

More    Unmute All    Mute All

**Chat**

as hof of our study programme...

2021/06/19, 10:15 Ranga Reddy, Telangana

Video Off    Mute    Unmute    Participants    Chat    Share Screen    Record    Reactions    [More]

*S. Prasad*

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 Hyderabad-500 075, Telangana

Zoom Meeting | [Title] | View Options

K GURUBRAHM... | Dr S Sajeenay... | Dr Sri Perla... | Dr G Chand... | Dr G Ramesh...

**LIVE** on YouTube

# Evolution of Connected Factories 4.0 revolution

Setup professional audio in **Quality** | Settings

**Smart Components**  
Intelligent machine components and subsystems

**Smart Machines**  
Intelligent machines in production with minimum human intervention

**Digital Factory**  
Smart manufacturing in a single factory premise with other digitized functions

**Connected Factories**  
Multiple digital factories are connected through the cloud and can be managed centrally

**Industry 4.0 Enterprise**  
Integrating connected factories with smart supply chain, suppliers, customers, product design, and aftermarket services

2021/06/17 12:01 Ranga Reddy, Telangana

Participants | Chat | Screen Share | Record | Co-host

Participants (10)

Find a participant

- Dr. G. Ramesh...
- Dr. S. Sajeenay...
- Dr. Sri Perla...
- Dr. G. Chand...
- Dr. G. Ramesh...
- Dr. G. Ramesh...
- Dr. G. Ramesh...
- Dr. G. Ramesh...
- Dr. G. Ramesh...
- Dr. G. Ramesh...

Chat

ONE DAY WORKSHOP ON SMART MANUFACTURING: CONNECTED FACTORIES on 17th JUNE 2021 (9.30AM to 1.30PM) (Responses)

PROFESSOR A. K. REDDY  
 Professor in Electrical Engineering  
 Anna University, Chennai  
 600 025, Tamil Nadu, India



**Chief Patron**  
**Kavi Kiranli Dr. V MALAKONDA REDDY**  
 President, CBIT

**Conference Chair**  
**Prof. G. P. Sarathi Varma, Principal, CBIT**

**Conference Co-Chair**  
**Dr. P.V.R Ravindra Reddy, Professor & Head, MED**

**Conveners**  
**Dr. P. Prabhakar Reddy, Professor, MED**  
**Dr. G. Laxmalah, Professor, MED**

**Co-Conveners**  
**Dr T Ratna Reddy, Associate Professor, MED**  
**Dr R P Chowdry, Associate Professor, MED**  
**Dr S Solomon Raj, Associate Professor, MED**

**International Advisory Committee**

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**Dr Chemsaph Jagadeah, Distinguished Professor, Australian National University, Australia**  
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Papers should be submitted to corresponding email: [icdsme\\_mech@cbit.ac.in](mailto:icdsme_mech@cbit.ac.in)

**Publication**

All accepted, registered and presented papers will be published in ISBN online series. Selected papers will be published in the Scopus Indexed Journals with additional charges.

**Conference e-Souvenir**

Conference e-Souvenir will be brought out during ICDSME-2021 and will include abstracts of all the selected papers.

**Important Dates**

**Last Date for Submission : 05 March 2021**  
**Acceptance Intimation : 15 March 2021**  
**Last Date for Registration : 30 March 2021**

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 Mail: [glaxmalah\\_mech@cbit.ac.in](mailto:glaxmalah_mech@cbit.ac.in); 98490 60749

**1<sup>st</sup> INTERNATIONAL E-CONFERENCE**  
**ON**  
**'DEVELOPMENTS IN SUSTAINABLE**  
**MATERIALS, MANUFACTURING AND**  
**ENERGY ENGINEERING'**  
**(ICDSME-2021)**

**3<sup>rd</sup> - 4<sup>th</sup> April, 2021**

[www.cbit.ac.in/research\\_soc/icdsme2021](http://www.cbit.ac.in/research_soc/icdsme2021)



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INDIA

Chaitanya Bharathi Institute of Technology  
 Hyderabad-500 075, Telangana

## About CBIT

CBIT is one of the premier Engineering Institutes in India, pioneer in Telangana State, which is at idyllic surroundings of Gandipet Lake, Hyderabad. The college offers Nine UG and Eleven PG programs. It has been standing as a temple of knowledge for the past 42 years by producing more than 25,000 Eminent and skilful Graduate Engineers, who are successful in their Careers, serving all over the Globe. Brilliant and Meritorious Candidates with good EAMCET Rank are seeking admissions at CBIT. CBIT Students are prepared and perfected to secure Placements in reputed MNCs. The Institute has been accredited by NAAC – UGC with 'A' Grade and the various programs are accredited by NBA – AICTE. The UGC has granted Autonomous Status from the Academic Year 2013-14 onwards. The Grants received from AICTE/UGC are worth about Rs. 2.75 Crores. Stringent Academic Standards, Industry Compliant Teaching Methodology, Research Projects from Private and Public Sector organizations Industries in Engineering and Management and Consultancy Practice, enabled the Institute to establish its identity in the Technical Education and is Ranked No. 1 amongst the Private Engineering Colleges in both the Telugu Speaking States.

## About the Conference

International Conference on Developments in Sustainable materials, Manufacturing and Energy engineering (ICDSME2021) aims to attract the research communities to promote fusion between theory and practice and explore different perspectives on the application of research findings into practice. This conference will provide an excellent platform to the faculty, research scholars and students to present their research work. A Two-Day International Conference on Developments in Sustainable materials, Manufacturing and Energy engineering (ICDSME2021) is being organized during 3-4 April, 2021. This conference aims at bringing together researchers, developers, consultants, academicians and students to present their research work discuss and exchange ideas about the present and future developments in the latest technologies in the areas of Engineering consists of both invited and contributed papers.

Due to the continued impact of the COVID-19, the ICDSME-2021 has decided to make the conference a virtual event.

## Call for Papers

ICDSME-2021 invites papers related to various fields and recent developments in Mechanical Engineering for presentation. The papers and invited talks by eminent practicing engineers are expected to benefit the participants. Papers selected and presented in ICDSME- 2021 will have opportunity to be published in proceedings with ISBN and Scopus Indexed Journals.

## Conference Tracks

### Materials:

Advanced Materials, Mechanical behavior of materials, Phase transformations, Fatigue & fracture mechanics, Severe plastic deformation, Nano materials, Materials for aerospace applications, Materials for thermal/Nuclear power plants, Ultra-fine-grained materials, Ceramic Materials, High entropy alloys, Functional materials, Composite materials, Bio materials, Optical/Electronic/Magnetic materials, Building Materials, Materials characterization, Renewable materials, Corrosion control, Heat treatment, Powder metallurgy, Synthesis of materials, High temperature Materials, Functionally gradient materials

### Manufacturing:

Micro manufacturing, Precision Technologies, Additive Manufacturing, Advanced Machining Processes, Non-Traditional, Micro and Nano Machining, Green Manufacturing, Clean and Sustainable Manufacturing Processes, Advanced Metal Forming and Bending, Manufacturing processes, Technology and Automation, Fabrication of Nano materials and Nano Devices, Non-Destructive Testing, Metal joining/Welding and Casting Techniques, Thermal Protection systems & Coatings, Surface Engineering, Surface Design, modification technologies, Surface process control, Wear & Tribology, Computational Methods and Materials, Manufacturing system and simulation, FEA Applications, Process modeling and Simulation, Numerical Analysis and Optimization Techniques, Numerical Methods for Scientific Computations, Optimization Techniques and Methods

### Energy

Renewable Energy, Sustainable Power, Solar, Wind and Bioenergy, Geothermal Energy, Green nanotechnology, Nano Environmental Technologies, Green Energy and Economy, Bioremediation, Waste to Energy, Fuel cells, Smart Grid, Sustainable technologies, Electric vehicles, Battery energy storage, Energy Storage and Conservation, NEXT-GENERATION Technologies in Power sector, Environmental impact of energy conversion, Hydrogen energy conversion systems, Environmental Impact Assessment

The scope is not limited to the above tracks; any relevant and emerging areas can be submitted.

## Author Guidelines

- ❖ Papers are invited from Students, Research Scholars, Academicians and Industry persons.
- ❖ The paper should be in ASME format with maximum 6 pages (if it exceeds Rs. 500/- per page)
- ❖ Papers submitted should not have been previously published in any other conference or journal/book chapter etc.
- ❖ Authors should satisfy the standard norms of plagiarism.
- ❖ Papers submitted will be reviewed by our expert committee members.
- ❖ At least one author should register for the conference.
- ❖ E-Certificate will be provided through email only.
- ❖ Guidelines on font size, type, margins, and other document related information, please refer to the college website.

The Registration Fee can be paid online using the account details given below:

Account Name : CBIT Recurring Expenditure  
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## Registration Fee

Category	Indian Author	Foreign Author
Industry	Rs. 2000/-	80 USD
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Research Scholar and Student	Rs. 1000/-	50 USD
Non-presenting Member (Attendees)	Rs. 500/-	



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1<sup>st</sup> International E-conference on

**DEVELOPMENTS IN SUSTAINABLE MATERIALS, MANUFACTURING AND ENERGY ENGINEERING (ICDSME – 2021)**

3<sup>rd</sup> - 4<sup>th</sup> April, 2021

Programme Schedule

3 <sup>rd</sup> April, 2021	<p align="center"><b>Technical Session 1: Materials Engineering</b></p> <p align="center">Meeting Link: <a href="https://meet.google.com/sao-ggob-afu">https://meet.google.com/sao-ggob-afu</a></p>	<p align="center"><b>Time</b></p> <p align="center"><b>14.00Hrs-16.12Hrs</b></p>
<p align="center"> <b>Prof. M. Madhavi</b>  <b>Session Chair</b>            Head, MED, MVSR Engineering College         </p> <p align="center"> <b>Dr T Ratna Reddy,</b>  <b>Session Co-chair</b>            Associate Professor, MED, CBIT         </p> <p align="center"> <b>Coordinators:</b>            Sri K. Gurubrahmam, Assistant Professor, MED,CBIT            Smt V Sandhya, Assistant Professor, MED,CBIT            Smt Ispitha Mohanthy, Assistant Professor, MED,CBIT         </p>		
<p><b>Invited Talk:</b></p> <p><b>Experimental Investigations on Automobile Components Developed Using Fiber Reinforced Composite Materials. By Prof. M. Madhavi, Head, MED, MVSR Engineering College</b></p>	<p align="center"><b>14.00Hrs-14.15Hrs</b></p>	

  
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Paper ID	Paper Titles	Time
2021451	<p><b>1.1. Effect of Barcol Hardness properties on EGlass fabric Epoxy Composites</b></p> <p>Balu Maloth<sup>1</sup>, N.V.Srinivasulu<sup>2</sup>, R.Rajendra<sup>3</sup></p> <p><sup>1</sup> Research Scholar, Department of Mechanical Engineering, College of Engineering ,Osmania University,O.U, Hyderabad, India</p> <p><sup>2</sup> Professors, Department of Mechanical Engineering, Chaitanya Bharathi Institute of Technology, Hyderabad, India</p> <p><sup>3</sup> Professor, Department of Mechanical Engineering, ,College of Engineering ,Osmania University,O.U, Hyderabad, India</p>	14.15Hrs – 14.27Hrs
2021456	<p><b>1.2. Development &amp; Characterization of low friction wear &amp; corrosion resistant Coating for Automobile Application</b></p> <p>[1] Dr. B S Praveen Kumar, [2] Dr. Yuvaraj Naik, [3] Vinod Kumar Biradar [4] Shalini S [5] Renuka K</p> <p>[1] [2] Assistant Professor, Dept. of Mechanical Engineering, Presidency University Bangalore.</p> <p>[3] Assistant Professor, Dept. of Mechanical Engineering, Sri Sairam College of Engineering Bangalore.</p> <p>[4] [5] UG Students, Dept. of Mechanical Engineering, Sri Sairam College of Engineering Bangalore.</p>	14.27Hrs – 14.39Hrs
2021457	<p><b>1.3. Dynamic Mechanical Analysis of Carbon Fibre Reinforced Graphene Nano Composite</b></p> <p>V. Nikil Murthy<sup>1</sup>, Dr. Dr. Muzzamil Ahamed<sup>2</sup></p> <p><sup>1</sup>Department of Mechanical Engineering, Matari Venkata Subba Rao (MVSR) Engineering College, Nadergul, Hyderabad-501510.</p> <p><sup>2</sup>Professor Department of Mechanical Engg., HKBK College of Engineering, Near Manyatha Tech. Park, Bengaluru- 560 045</p>	14.39 Hrs – 14.51 Hrs

Paper ID	Paper Titles	Time
2021462	<p><b>1.4. Synthesis of ZnO-BaO-CuO mixed metal oxide nanocomposites and their electrical characterization for humidity sensor along with morphology</b></p> <p>K. Kavitha<sup>1</sup> *, T. Sabbarao<sup>2</sup> *, R. Padmasuvama<sup>1</sup>, 3  <sup>1</sup>Department of M&amp;PS, Nalla Malla Reddy Engineering College,<sup>2</sup>Department of Physics, Sri Krishnadevaraya University, Anantapur 515001, India <sup>3</sup> Jawaharlal Nehru Technological University, Anantapur 515001, India</p>	14.51 Hrs – 15.03 Hrs
2021481	<p><b>1.5. Prediction of Instantaneous Shear Modulus in Neat and Multi-Walled Carbon-Nanotube Reinforced E-Glass Epoxy Composites by Finite Element Analysis</b></p> <p>PREDICTION OF INSTANTANEOUS SHEAR MODULUS IN NEAT AND MULTI-WALLED CARBON-NANOTUBE REINFORCED E-GLASS EPOXY COMPOSITES BY FINITE ELEMENT ANALYSIS  P. Raalakshmi<sup>1</sup>, K. V. N. Sashikanth<sup>2</sup>, P. Ravinder Reddy<sup>3</sup><sup>1</sup> Assistant Professor<sup>2</sup> Undergraduate Student<sup>3</sup> Professor  Mechanical Engineering Department, Chaitanya Bharathi Institute of Technology (Autonomous)</p>	15.03 Hrs – 15.12 Hrs
2021485	<p><b>1.6. Design and Analysis for Piston of Four Stroke Engine with Different Materials</b></p> <p>Dr.G. Laxmaiah<sup>1</sup>, E. Manasa<sup>1</sup>, Dr.Ch. Indira Priyadarshini<sup>2</sup>  <sup>1</sup>Professor, Chaitanya Bharathi Institute of Technology, Hyderabad, glaxmaiah_mech@cbit.ac.in  <sup>2</sup>ME(TE) Student, Chaitanya Bharathi Institute of Technology, Hyderabad  <sup>3</sup>Assistant Professor, Chaitanya Bharathi Institute of Technology, Hyderabad</p>	15.12 Hrs – 15.24 Hrs
2021482	<p><b>1.7. Effect of Fibre Orientation on Vibration Characteristic of Carbon/Epoxy Composite Plate</b></p> <p>Venkata Sushma Chinta<sup>1</sup>, P. Ravinder Reddy<sup>2</sup>, Koorapati Eshwara Prasad<sup>3</sup>, S. Solomon Raj<sup>4</sup>  <sup>1</sup>Assistant Professor, Mechanical Engineering Department, Chaitanya Bharathi Institute of Technology(A), Hyderabad, India.  <sup>2</sup>Professor, Mechanical Engineering Department, Chaitanya Bharathi Institute of Technology(A), Hyderabad, India.  <sup>3</sup>Professor, Mechanical Engineering Department, Siddhartha Institute of Engineering and Technology, Hyderabad, Telangana, India.  <sup>4</sup>Associate Professor, Mechanical Engineering Department, Chaitanya Bharathi Institute of Technology(A), Hyderabad, India.</p>	15.24 Hrs – 15.36 Hrs

2021454	<p><b>1.8.Compressive Strength of ZnO-BaO-CuO Nanocomposites synthesized by chemical route</b></p> <p>K. Kavitha<sup>1</sup> *, T. Subbarao<sup>2</sup> *, R. Padmasuvama<sup>1</sup>,<sup>3</sup>  <sup>1</sup>Department of M&amp;PS, Nalla Malla Reddy Engineering College,<sup>2</sup>Department of Physics, Sri Krishnadevaraya University, Anantapur 515001, India <sup>3</sup> Jawaharlal Nehru Technological University, Anantapur 515001, India</p>	<p>15.36 Hrs – 15.48 Hrs</p>
2021469	<p><b>1.9. Parabolic Dish Collector Where Receiver Made By Sandwiching Materials</b></p> <p>S. Abhimani, Dr.M.V.S Murali Krishna<sup>2</sup>  <sup>1</sup> ME(TE) Student, Chaitanya Bharathi Institute of Technology, Hyderabad, pgs19101_mech.sambaraju@cbit.org.in  <sup>2</sup> Professor, Chaitanya Bharathi Institute of Technology, Hyderabad</p>	<p>15.48 Hrs – 16.00 Hrs</p>
2021465	<p><b>1.10. Warpage Analysis of a Over Molded Chip on Scale Electronic Package using Finite Element Methods</b></p> <p>Y Venkata Naga Chandana<sup>1</sup>  <sup>1</sup> Mahatma Gandhi Institute of Technology</p>	<p>16.00 Hrs – 16.12 Hrs</p>



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ON  
DEVELOPMENTS IN SUSTAINABLE MATERIALS,  
MANUFACTURING AND ENERGY ENGINEERING  
(ICDSME-2021)**

**3<sup>RD</sup>-4<sup>TH</sup> APRIL 2021**

**ORGANIZED BY  
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on  
**DEVELOPMENTS IN SUSTAINABLE MATERIALS, MANUFACTURING  
AND ENERGY ENGINEERING(ICDSME-2021)**

3<sup>rd</sup> & 4<sup>th</sup> April, 2021



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AND ENERGY ENGINEERING(CDSME-2021)  
1<sup>st</sup> & 2<sup>nd</sup> April, 2021

ICDSME2021 on 1<sup>st</sup> & 2<sup>nd</sup> April, 2021

Zoom Meeting: Gururaj Telasing is presenting

Sustainability of Additive  
Manufacturing and Applications

Gururaj Telasing  
ARC, Hyderabad  
gururajst@arc.res.in

12:22

Testing of Shock Absorption Device Equipped With AM Built  
Light SS Heavy Comp Structure

Test Description	Duration	Top Shock level (g)			Bottom Shock level (g)		
		Real	Virtual	Actual	Actual	Virtual	Actual
Test 1 with P/Burn	---	Seizured			Seizured		
Test 2 with Shocking (using high density)	4.11 sec	28100	7.65	6745	32800	20.80	9700
Test 3 with Shocking (using low density)	4.11 sec	3300	5.92	1175	18200	10.65	5147

Gururaj  
Dr. Mahe...  
S D  
30 others





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Autonomous Institute, Hyderabad-500 075, Telangana

*S. Sridhar*



ICDSME 2021 on 3rd & 4th April, 2021



ICDSME 2021 on 3rd & 4th April, 2021

*Srinidhi*

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Jawahar Bharathi Institute of Technology (A)  
Indipet, Hyderabad-500 075, Telangana

## EDC SPEAKER SESSION-20/02/2021

EDC-CBIT hosted its first ever virtual event of 2021 on the 20th of february. The event was a speaker session by K.Veda Samhitha Reddy, a baker and a chocolatier by profession. She is a young entrepreneur who has turned her passion for baking into a startup. She has done her bachelors in BBA+ENTREPRENEURSHIP (Specialisation) from Bennett University, Delhi and started her own business at a very young age of 17. The Chocolate box is a bakery which she has started with her sibling. It has gained a lot of popularity in the recent times. She started her company when she was just in high school and it brought her a huge success at a very young age. She was a part of ted talks in the year 2017 where she spoke about her journey. She started baking wedding cakes and other food delicacies which got her so much fame that she started making her own chocolates.

During the session, she spoke about how her elective subject entrepreneurship turned into her passion. She also spoke about her inspiration and what made her start her own business. She spoke about how she used social media to advertise her business and how instagram has played a huge role in it. She told us how she attributes her success to her family and how they never left her side and have been with her through everything. She also guided everyone on what mistakes she made and how to overcome those mistakes. She also spoke about her favourite techniques as a baker and her most difficult projects she ever took up. She mentioned her goals and how she wants her bakery to be automated and how she wants her bakery to grow for the next year. She has also mentioned that she got into a baking school and how she wants her bakery to be automated before she leaves for college. She gave some amazing tips for all the budding entrepreneurs. Overall this session was very helpful and we were all amazed with what she had achieved at such a young age.



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CHAITANYA BHARATHI INSTITUTE OF TECHNOLOGY (A), HYDERABAD - 75

No. 774/CBIT-AEC/2021

Dt. 20.02.2021

CIRCULAR

EDC, A Wing of Chaitanya Reethi, CBIT is organizing an online Speaker Session on 21<sup>st</sup> February 2021 from 4:00 PM onwards. The Speaker for the Session is Ms. Samhita Reddy, Founder – Chocolate Box.

All the interested students can join the Session through link - [meet.google.com/uca-qycp-wma](https://meet.google.com/uca-qycp-wma). For further information they can contact Dr. P. Prabhakar Reddy, Professor, Dept. of Mechanical Engineering on his Mobile: 9885468253 and Smt. V. Sandhya, Asst. Professor, Dept. of Mechanical Engineering on her Mobile: 9701540189.

G.P.S. /  
PRINCIPAL

To  
All Heads of the Departments / Sections, for information and with a request to arrange for circulation among all the students under their control.

*20/2/2021*

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Chaitanya Bharathi Institute of Technology (A)  
Gandipet, Hyderabad-500 075, Telangana

Attendance for: class-list

Date: "2021-02-20"

"Time:"

"16:00"

"Meet

ID: "" "uca-qycq-wma"

Names

- 1 Director Incubation & Innovation
- 2 Entrepreneurship Development Cell
- 3 Jyothirmayi MED
- 4 Nagini MED
- 5 Prabhakar Reddy MED
- 6 Sandhya Reddy MED
- 7 Sridevi MED
- 8 Sushma MED

Student Participants

- 1 Shivani 067
- 2 Mohanmed Adnan
- 3 Asmatullah
- 4 Harsha Vardhan Bashavathini
- 5 Abhishek Begari
- 6 Vikas Bhatti
- 7 Preethi Bollam
- 8 Sri Vishwanath Gopisetty Ced
- 9 Vamsi Ch
- 10 Manoj Chippa
- 11 Shiva Raj Devarakonda
- 12 Angoth Divya
- 13 Meghana Reddy Dropathi
- 14 Sai Teja G
- 15 Suhas Gajawada
- 16 032\_Ganesh
- 17 Akhil Godavari
- 18 Sunethra Guntur
- 19 Krishna Guptha
- 20 Director Incubation & Innovation
- 21 Saba Iram
- 22 Sahithi Katoori
- 23 Sai Sarath Chandra Kavuluru
- 24 Lavanya Konjeti
- 25 Jhansi Lavudya
- 26 Nimisha Malreddy
- 27 Anrutha Merla
- 28 Aryan Mohan
- 29 Jatothvenu Nayak
- 30 Ilaparthi Nissy
- 31 Deepak Padamanabhan
- 32 Shiva Pakala
- 33 Dhruv Pechetty
- 34 Vaishnavi Pekety
- 35 Gayatri Piratla
- 36 G Ramakoti-015
- 37 Tulasi Rasamsetti
- 38 Chandra Kiran Reddy



PROFESSOR & HEAD  
Department of Mechanical Engineering  
Dr. K. J. Somaiya Institute of Technology (KJ-SOIT)  
Kandipet, Hyderabad-500 075, Telangana

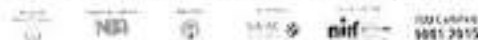
- 39 Deepika Reddy  
40 Kashyap Reddy  
41 Meghna Reddy  
42 Pranav Reddy  
43 Prateek Reddy  
44 Rikkulachey Reddy  
45 Rishita Reddy  
46 Ruchitha Reddy  
47 Samhita Reddy  
48 Sandhya  
49 Shiva Reddy  
50 Varun Reddy  
51 Sandeep  
52 Sai Sashikanth  
53 Adarsh Shetkar  
54 Poornima Siddineni  
55 Sifath Singh  
56 Sai Teja  
57 Tarun Tejadande  
58 Aashrith S Thatipalli  
59 Mbvamshi Vamshi  
60 Akhil Reddy Vancha  
61 Vivek Vardhan  
62 Vignesh078  
63 178 Vijay  
64 Vijay



PROFESSOR & HEAD  
Department of Mechanical Engineering  
Chaitanya Bharathi Institute of Technology (A)  
Sandipet, Hyderabad-500 075, Telangana



CHAITANYA BHARATHI  
INSTITUTE OF TECHNOLOGY (A)  
Kusupet (Village), Gandpet, Hyderabad, Telangana-500075 www.cbit.ac.in



COMMITTED TO  
RESEARCH,  
INNOVATION AND  
EDUCATION

42  
years

## Academic and Examination Cell

No. 897/ CBIT/ AEC/ 2021

Dt. 27-05-2021

### CIRCULAR

Chaitanya Teja - Entrepreneurship development Cell in association with IIC is planning to organize a Seminar with title "Be Beyond Being- Being Innovative in an Entrepreneurial Journey" on 28-05-2021 from 11.30AM onwards. The speaker for the session is Dr. P. Prabhakar Reddy, Professor, Department of Mechanical Engineering, CBIT. All the interested students can join the session using the link:

<https://teams.microsoft.com/l/meetup-join/19%3aVEmBz5YfcZk6FxZu47qWk153vR342NCHYmUSBO9TFfw1%40thead.tacv2/1621868490765?context=%7b%22Tid%22%3a%228ba02f42-a433-4ad5-bdab-0103a1bc5fa5%22%2c%22Oid%22%3a%22e0f6be02-fe40-4385-9cbc-fa0b130fefca%22%7d>

For further information, they may contact Ms. V. Sandhya, Assistant Professor, Dept. of Mechanical Engineering on her mobile no. 9701540189 and Mr. K. Gurubrahman, Assistant Professor, Dept. of Mechanical Engineering on his Mobile No. 9491377882.

G.P.S.J —

PRINCIPAL

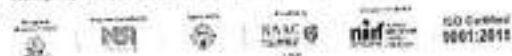
To  
All Heads of the Departments/ Sections, for circulation among all the concerned students under their control  
C.C. to all the Directors, Joint Directors, Librarian, for information WBC for uploading on the Institute's Website

  
PROFESSOR & HEAD  
Department of Mechanical Engineering  
Chaitanya Bharathi Institute of Technology (A)  
Gandpet, Hyderabad-500 075, Telangana



CHAITANYA BHARATHI  
INSTITUTE OF TECHNOLOGY (A)

Kollegal (Village), Gandipet, Hyderabad, Telangana-500075. www.cbti.ac.in



COMMITTED TO  
RESEARCH,  
INNOVATION AND  
EDUCATION

42  
years

## Seminar report

### DEPARTMENT OF MECHANICAL ENGINEERING

EDC & IIC Organized a Seminar on

**Be Beyond Being - Being Innovative in an Entrepreneurial Journey**

Date: Friday, 28<sup>th</sup> May 2021 Time: 11:30 am

Chaitanya Teja - Entrepreneurship development Cell in association with IIC organized a Seminar with the title "Be Beyond Being - Being Innovative in an Entrepreneurial Journey" on 28-05-2021 from 11.30AM onwards. The speaker for the session is Dr. P. Prabhakar Reddy, Professor, Department of Mechanical Engineering, CBIT.

In this seminar Prof. P. Srinivasa Sarma, Director-Student Affairs, Dr. Umakanta Choudhury, Director-Incubation & Innovation and Prof P.V.R. Ravindra Reddy, Head Department of Mechanical Engineering addressed the gathering.

The speaker of the session Dr. P. Prabhakar Reddy delivered a lecture on "Be Beyond Being - Being Innovative in an Entrepreneurial Journey". Some of the content and insights of the session are as mentioned below.

- Significance and relevance of the title
- Inventions and discoveries with timeline.
- Entrepreneurship and art of building something from nothing.
- Innovation and novelty
- Making of an entrepreneur
- Difference between innovation, creation and Entrepreneurship
- Action plans for entrepreneurial journey
- KSA mantra- formation of effective and entrepreneurial habits.
- Innovation paradigm
- Seven habits of entrepreneurial habits.
- Prioritisation.
- The productivity of quadrant.

The session Concluded by presenting vote of thanks followed by National Anthem.

**Total no of Faculty and students attended: 139**

Video recording link:

<https://drive.google.com/file/d/1WY0LldgKrqdWp8KpGBC8pTYqKZDdjF5R/view?usp=sharing>

PROFESSOR & HEAD  
Department of Mechanical Engineering  
Chaitanya Bharathi Institute of Technology (A)  
Kollegal, Hyderabad-500 075, Telangana



## Be Beyond Being- Being Innovative in an Entrepreneurial Journey\* on 28-05-2021

Full Name	User Action	Timestamp
Smt.Ch.V.Sushma	Joined	5/28/2021, 11:03:42 AM
Dr. P. Prabhakar Reddy (Guest)	Joined	5/28/2021, 11:18:29 AM
perambudur vasanth	Joined	5/28/2021, 11:20:59 AM
shaik alamgeer basha	Joined	5/28/2021, 11:21:41 AM
shaik alamgeer basha	Left	5/28/2021, 11:31:45 AM
Sn K.Gurubrahmam	Joined	5/28/2021, 11:21:57 AM
sai priyanka kattameedhi	Joined	5/28/2021, 11:22:07 AM
pavitra puli	Joined	5/28/2021, 11:22:17 AM
pavitra puli	Left	5/28/2021, 11:37:22 AM
Dr. P.V.R.Ravinder Reddy	Joined	5/28/2021, 11:22:42 AM
mohammed Abdul basid (Guest)	Joined	5/28/2021, 11:22:54 AM
mohammed Abdul basid (Guest)	Left	5/28/2021, 11:31:08 AM
aasriya rambhatla	Joined	5/28/2021, 11:24:58 AM
deekshith a	Joined	5/28/2021, 11:25:36 AM
deekshith a	Left	5/28/2021, 11:54:13 AM
deekshith a	Joined	5/28/2021, 11:55:26 AM
Dr. K. Kishor (Guest)	Joined	5/28/2021, 11:25:51 AM
160117738307_Srikanth (Guest)	Joined	5/28/2021, 11:26:04 AM
VENKATESU VEERAVALLI (Guest)	Joined	5/28/2021, 11:26:23 AM
Dr. T.Ratna Reddy	Joined	5/28/2021, 11:26:38 AM
sapthaharsh (Guest)	Joined	5/28/2021, 11:27:10 AM
160118736076 (Guest)	Joined	5/28/2021, 11:27:25 AM
160118736076 (Guest)	Left	5/28/2021, 11:39:13 AM
160118736076 (Guest)	Joined	5/28/2021, 11:39:38 AM
160118736076 (Guest)	Left	5/28/2021, 11:54:06 AM
rahul sanjay bhilare	Joined	5/28/2021, 11:27:36 AM
rahul sanjay bhilare	Left	5/28/2021, 11:32:32 AM
rahul sanjay bhilare	Joined	5/28/2021, 11:32:48 AM
rahul sanjay bhilare	Left	5/28/2021, 11:40:15 AM
sumanth reddy koppula	Joined	5/28/2021, 11:27:58 AM
dinesh chandra gupta malepati	Joined	5/28/2021, 11:28:23 AM
srinivas narige	Joined	5/28/2021, 11:28:34 AM
rohit rahul godse	Joined	5/28/2021, 11:28:46 AM
rohit rahul godse	Left	5/28/2021, 11:36:25 AM
rohit rahul godse	Joined	5/28/2021, 11:36:56 AM
rohit rahul godse	Left	5/28/2021, 11:53:26 AM
rohit rahul godse	Joined	5/28/2021, 11:54:33 AM
gaurang rathi	Joined	5/28/2021, 11:28:51 AM
gaurang rathi	Left	5/28/2021, 11:40:43 AM
160118736041 (Guest)	Joined	5/28/2021, 11:29:09 AM
309-Manisha (Guest)	Joined	5/28/2021, 11:29:14 AM
309-Manisha (Guest)	Left	5/28/2021, 11:29:43 AM
murari pushpa raj ale	Joined	5/28/2021, 11:29:37 AM
17251A0227@gnits.in	Joined	5/28/2021, 11:29:59 AM
17251A0227@gnits.in	Left	5/28/2021, 11:30:05 AM
17251A0227@gnits.in	Joined	5/28/2021, 11:34:54 AM
309-Manisha (Guest)	Joined	5/28/2021, 11:30:03 AM
309-Manisha (Guest)	Left	5/28/2021, 11:32:57 AM
dheekshith anumala	Joined	5/28/2021, 11:30:23 AM
hemamshu kesigarla	Joined	5/28/2021, 11:30:29 AM

PROFESSOR &amp; HEAD

Department of Mechanical Engineering  
Sri Jayasree Institute of Technology (A)  
Andhra Pradesh, Hyderabad-500 075, Telangana

kushal kumar rajampet	Joined	5/28/2021, 11:30:30 AM
Shaik Sayeed (Guest)	Joined	5/28/2021, 11:30:44 AM
Shaik Sayeed (Guest)	Left	5/28/2021, 11:36:03 AM
Shaik Sayeed (Guest)	Joined	5/28/2021, 11:36:10 AM
Shaik Sayeed (Guest)	Left	5/28/2021, 11:36:15 AM
vamshi gugulothu	Joined	5/28/2021, 11:30:49 AM
160118736038 (Guest)	Joined	5/28/2021, 11:30:52 AM
160118736038 (Guest)	Left	5/28/2021, 11:31:10 AM
sharath chandra maloth	Joined	5/28/2021, 11:30:57 AM
almas (Guest)	Joined	5/28/2021, 11:30:57 AM
sampath reddy anugu	Joined	5/28/2021, 11:30:59 AM
sampath reddy anugu	Left	5/28/2021, 11:32:12 AM
sanjana mandarapu	Joined	5/28/2021, 11:31:03 AM
sanjana mandarapu	Left	5/28/2021, 11:34:26 AM
sanjana mandarapu	Joined	5/28/2021, 11:36:06 AM
anil kumar vanam	Joined	5/28/2021, 11:31:05 AM
prathyusha pasarakonda	Joined	5/28/2021, 11:31:06 AM
vitesh bharadwaj mallibhat	Joined	5/28/2021, 11:31:08 AM
arun kumar guguloth	Joined	5/28/2021, 11:31:09 AM
arun kumar guguloth	Left	5/28/2021, 11:31:28 AM
arun kumar guguloth	Joined	5/28/2021, 11:32:14 AM
pavan goud matta	Joined	5/28/2021, 11:31:11 AM
anthadupula shashi kumar	Joined	5/28/2021, 11:31:12 AM
anthadupula shashi kumar	Left	5/28/2021, 11:48:09 AM
anthadupula shashi kumar	Joined	5/28/2021, 11:48:49 AM
anthadupula shashi kumar	Left	5/28/2021, 11:49:14 AM
anthadupula shashi kumar	Joined	5/28/2021, 11:50:10 AM
sai anjan kumar vege	Joined	5/28/2021, 11:31:15 AM
19-737-134_MADUPALLY HOMAMALINI	Joined	5/28/2021, 11:31:16 AM
19-737-134_MADUPALLY HOMAMALINI	Left	5/28/2021, 11:36:31 AM
19-737-134_MADUPALLY HOMAMALINI	Joined	5/28/2021, 11:52:13 AM
sai umesh teegala	Joined	5/28/2021, 11:31:16 AM
chaitanya sanapala	Joined	5/28/2021, 11:31:33 AM
raghavendra iluri	Joined	5/28/2021, 11:31:39 AM
raghavendra iluri	Left	5/28/2021, 11:34:13 AM
Satya Sai (Guest)	Joined	5/28/2021, 11:31:45 AM
Satya Sai (Guest)	Left	5/28/2021, 11:35:39 AM
Satya Sai (Guest)	Joined	5/28/2021, 11:35:47 AM
Satya Sai (Guest)	Left	5/28/2021, 11:47:30 AM
vamshidhar goud g	Joined	5/28/2021, 11:31:45 AM
shivani tirumaiasetti	Joined	5/28/2021, 11:31:47 AM
160117738301_G-mohammed Abdul basid	Joined	5/28/2021, 11:31:49 AM
160117738301_G-mohammed Abdul basid	Left	5/28/2021, 11:42:01 AM
Dr. Rahul (Guest)	Joined	5/28/2021, 11:31:52 AM
choodamani chandana	Joined	5/28/2021, 11:31:55 AM
suyog sunil sharnagat	Joined	5/28/2021, 11:32:00 AM
rajesh pendyala	Joined	5/28/2021, 11:32:07 AM
amaanullah hasheme	Joined	5/28/2021, 11:32:11 AM
amaanullah hasheme	Left	5/28/2021, 11:35:28 AM
amaanullah hasheme	Joined	5/28/2021, 11:36:35 AM
amaanullah hasheme	Left	5/28/2021, 11:41:29 AM
amaanullah hasheme	Joined	5/28/2021, 11:41:52 AM

PROFESSOR & HEAD

Department of Mechanical Engineering  
Chaitanya Bharathi Institute of Technology (W)  
Dandurthi, Hyderabad-500 075, Telangana

*[Handwritten Signature]*

gopi krishna azmeera	Joined	5/28/2021, 11:32:23 AM
gopi krishna azmeera	Left	5/28/2021, 11:39:07 AM
gopi krishna azmeera	Joined	5/28/2021, 11:42:40 AM
syed asgar hussain abedi sami	Joined	5/28/2021, 11:32:26 AM
adnan abdul	Joined	5/28/2021, 11:32:34 AM
vamshi krishna polamuri	Joined	5/28/2021, 11:32:41 AM
varshith kalva	Joined	5/28/2021, 11:32:46 AM
manoj kumar bogam	Joined	5/28/2021, 11:32:46 AM
manoj kumar bogam	Left	5/28/2021, 11:36:26 AM
manoj kumar bogam	Joined	5/28/2021, 11:38:39 AM
nigamananda janjanam	Joined	5/28/2021, 11:32:46 AM
160118736306-F1 (Guest)	Joined	5/28/2021, 11:32:46 AM
160118736306-F1 (Guest)	Left	5/28/2021, 11:37:48 AM
Smt.P.Anjani Devi	Joined	5/28/2021, 11:32:56 AM
Smt.P.Anjani Devi	Left	5/28/2021, 11:33:28 AM
yashashwitha swaraj mankar	Joined	5/28/2021, 11:32:57 AM
sai harsha chittimouju	Joined	5/28/2021, 11:33:01 AM
lakshmi anusha wudali	Joined	5/28/2021, 11:33:02 AM
jatoth venu	Joined	5/28/2021, 11:33:04 AM
srujana s	Joined	5/28/2021, 11:33:05 AM
srujana s	Left	5/28/2021, 11:35:49 AM
309-Manisha (Guest)	Joined	5/28/2021, 11:33:11 AM
nishanth (Guest)	Joined	5/28/2021, 11:33:21 AM
nishanth (Guest)	Left	5/28/2021, 11:53:19 AM
160118738303 (Guest)	Joined	5/28/2021, 11:33:24 AM
manichaitanya reddy marka	Joined	5/28/2021, 11:33:29 AM
manichaitanya reddy marka	Left	5/28/2021, 11:38:42 AM
manichaitanya reddy marka	Joined	5/28/2021, 11:39:04 AM
rohit dampetla	Joined	5/28/2021, 11:33:30 AM
harsh kumar m n	Joined	5/28/2021, 11:33:40 AM
Dr. R.P. Chowdary (Guest)	Joined	5/28/2021, 11:33:43 AM
160118736009 (Guest)	Joined	5/28/2021, 11:33:44 AM
Nirmith Naha	Joined	5/28/2021, 11:33:47 AM
Sri G.N.R.Prasad	Joined	5/28/2021, 11:33:48 AM
Mahesh 10 (Guest)	Joined	5/28/2021, 11:34:26 AM
Mahesh 10 (Guest)	Left	5/28/2021, 11:37:42 AM
Mahesh 10 (Guest)	Joined	5/28/2021, 11:37:51 AM
160118736090 saikiran (Guest)	Joined	5/28/2021, 11:34:33 AM
aravind ramavath	Joined	5/28/2021, 11:34:33 AM
aravind ramavath	Left	5/28/2021, 11:35:11 AM
pranava g	Joined	5/28/2021, 11:34:33 AM
sri harsha manchukonda	Joined	5/28/2021, 11:34:37 AM
kranthi sai rajoju	Joined	5/28/2021, 11:34:40 AM
yashpal kumar reddy annapureddy	Joined	5/28/2021, 11:34:40 AM
yashpal kumar reddy annapureddy	Left	5/28/2021, 11:36:24 AM
yashpal kumar reddy annapureddy	Joined	5/28/2021, 11:39:03 AM
1601-18-736-074 (Guest)	Joined	5/28/2021, 11:34:49 AM
1601-18-736-074 (Guest)	Left	5/28/2021, 11:35:27 AM
sai laxman tanuj vimmadisetty	Joined	5/28/2021, 11:34:49 AM
sai prajwal harsha m	Joined	5/28/2021, 11:34:52 AM
Prashanth (Guest)	Joined	5/28/2021, 11:34:56 AM
Anjani Devi P (Guest)	Joined	5/28/2021, 11:34:58 AM

P  
2021

aqeel (Guest)	Joined	5/28/2021, 11:35:02 AM
nagasree y	Joined	5/28/2021, 11:35:06 AM
nagasree y	Left	5/28/2021, 11:36:39 AM
chinmay krishna peri	Joined	5/28/2021, 11:35:16 AM
lakshmi prasanna kathroju	Joined	5/28/2021, 11:35:22 AM
mubeen patel (Guest)	Joined	5/28/2021, 11:35:23 AM
shobhananda reddy kambham	Joined	5/28/2021, 11:35:24 AM
shobhananda reddy kambham	Left	5/28/2021, 11:38:08 AM
Sumithra Salla (Guest)	Joined	5/28/2021, 11:35:25 AM
Sumithra Salla (Guest)	Left	5/28/2021, 11:40:34 AM
160118736048 umesh Chandra (Guest)	Joined	5/28/2021, 11:35:34 AM
p nishanth bhanu	Joined	5/28/2021, 11:35:38 AM
janardhan reddy nandhyala	Joined	5/28/2021, 11:35:45 AM
Sai Venkat Aala (Guest)	Joined	5/28/2021, 11:35:51 AM
Sai Venkat Aala (Guest)	Left	5/28/2021, 11:37:56 AM
yantrapati bhakthsingh	Joined	5/28/2021, 11:35:59 AM
yantrapati bhakthsingh	Left	5/28/2021, 11:37:29 AM
yantrapati bhakthsingh	Joined	5/28/2021, 11:39:24 AM
nagamani bhukya	Joined	5/28/2021, 11:36:12 AM
nagamani bhukya	Left	5/28/2021, 11:55:49 AM
160118736042 (Guest)	Joined	5/28/2021, 11:36:47 AM
mohammed imran qadeer	Joined	5/28/2021, 11:36:52 AM
mohammed imran qadeer	Left	5/28/2021, 11:52:43 AM
lakshmi narayana reddy gurram	Joined	5/28/2021, 11:36:57 AM
Dr U.K Choudhury (Guest)	Joined	5/28/2021, 11:37:08 AM
Dr U.K Choudhury (Guest)	Left	5/28/2021, 11:43:35 AM
1601-18-736-074 (Guest)	Joined	5/28/2021, 11:37:09 AM
160118736003 Puli Pavitra (Guest)	Joined	5/28/2021, 11:37:09 AM
mohammed idris	Joined	5/28/2021, 11:37:16 AM
mohammed idris	Left	5/28/2021, 11:56:13 AM
mohammed idris	Joined	5/28/2021, 11:56:30 AM
prema sai etukala	Joined	5/28/2021, 11:37:20 AM
prema sai etukala	Left	5/28/2021, 11:41:58 AM
160118736007 akarsh (Guest)	Joined	5/28/2021, 11:37:45 AM
AMARENDRA PRASAD (Guest)	Joined	5/28/2021, 11:37:56 AM
AMARENDRA PRASAD (Guest)	Left	5/28/2021, 11:41:46 AM
160119736090 (Guest)	Joined	5/28/2021, 11:38:03 AM
Krishna Prasad Reddy (Guest)	Joined	5/28/2021, 11:38:05 AM
160118736306-F1 (Guest)	Joined	5/28/2021, 11:38:11 AM
rushyandra reddy mudiam	Joined	5/28/2021, 11:38:15 AM
mounika bushipaka	Joined	5/28/2021, 11:38:19 AM
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<a href="https://teams.microsoft.com/j/meetup-join/1">https://teams.microsoft.com/j/meetup-join/1</a>	Left	5/28/2021, 11:48:18 AM
vasudev jupaka	Joined	5/28/2021, 11:38:27 AM
vijayender aravindam gunnala	Joined	5/28/2021, 11:38:28 AM
160117736044 - Sai Venkat Aala (Guest)	Joined	5/28/2021, 11:38:38 AM
160118738025 (Guest)	Joined	5/28/2021, 11:38:40 AM
160118738025 (Guest)	Left	5/28/2021, 11:39:16 AM
Mounika (Guest)	Joined	5/28/2021, 11:38:42 AM
Srikanth (Guest)	Joined	5/28/2021, 11:38:51 AM
Virat (Guest)	Joined	5/28/2021, 11:38:57 AM
311 Rachana (Guest)	Joined	5/28/2021, 11:39:03 AM

Ajay Naidu Dasari	Joined	5/28/2021, 11:39:06 AM
Ajay Naidu Dasari	Left	5/28/2021, 11:40:18 AM
Ajay Naidu Dasari	Joined	5/28/2021, 11:40:44 AM
ncs (Guest)	Joined	5/28/2021, 11:39:29 AM
160119736307 (Guest)	Joined	5/28/2021, 11:39:32 AM
160119736307 (Guest)	Left	5/28/2021, 11:40:28 AM
niteesh chandra gannamaneni	Joined	5/28/2021, 11:39:42 AM
bandoju divya	Joined	5/28/2021, 11:39:45 AM
Dr G Laxmalah (Guest)	Joined	5/28/2021, 11:39:55 AM
divya amgoth	Joined	5/28/2021, 11:39:58 AM
Dr U.K. Choudhury (Guest)	Joined	5/28/2021, 11:40:08 AM
manasa reddy katangur	Joined	5/28/2021, 11:40:12 AM
manasa reddy katangur	Left	5/28/2021, 11:40:25 AM
manasa reddy katangur	Joined	5/28/2021, 11:46:43 AM
manasa reddy katangur	Left	5/28/2021, 11:47:51 AM
naveen sanjeev ashwin vipparti	Joined	5/28/2021, 11:40:22 AM
snehitha terupally	Joined	5/28/2021, 11:40:48 AM
snehitha terupally	Left	5/28/2021, 11:44:18 AM
160119736307 (Guest)	Joined	5/28/2021, 11:40:55 AM
063 (Guest)	Joined	5/28/2021, 11:41:19 AM
venkat karthik sai y	Joined	5/28/2021, 11:41:25 AM
udaykiran reddy cherukupally	Joined	5/28/2021, 11:41:41 AM
udaykiran reddy cherukupally	Left	5/28/2021, 11:42:07 AM
160118736008-amarendra prasad (Guest)	Joined	5/28/2021, 11:42:19 AM
purnachandra rao guttikonda	Joined	5/28/2021, 11:42:32 AM
Dr. S.Narasimha Kumar	Joined	5/28/2021, 11:42:34 AM
sri lakshmi harshitha namaduri	Joined	5/28/2021, 11:42:44 AM
rohitha vegesana	Joined	5/28/2021, 11:42:49 AM
160117738023 (Guest)	Joined	5/28/2021, 11:42:54 AM
160117738023 (Guest)	Left	5/28/2021, 11:45:13 AM
akhilesh kumar goud g	Joined	5/28/2021, 11:42:55 AM
mani vardhan reddy a	Joined	5/28/2021, 11:42:57 AM
Sree Nandini-66 (Guest)	Joined	5/28/2021, 11:43:16 AM
sai chinnu biyyala	Joined	5/28/2021, 11:43:43 AM
jayanth kandukuri	Joined	5/28/2021, 11:43:45 AM
jayanth kandukuri	Left	5/28/2021, 11:44:32 AM
chand pasha (Guest)	Joined	5/28/2021, 11:44:08 AM
Pavani Basanthpur (Guest)	Joined	5/28/2021, 11:44:12 AM
Dr.B.R.Sreedhar (Guest)	Joined	5/28/2021, 11:44:23 AM
Raghupathi Reddy (Guest)	Joined	5/28/2021, 11:44:44 AM
pooja reddy (Guest)	Joined	5/28/2021, 11:45:11 AM
pooja reddy (Guest)	Left	5/28/2021, 11:53:20 AM
Smt. V.Sandhya	Joined	5/28/2021, 11:45:26 AM
divya nama	Joined	5/28/2021, 11:45:52 AM
divya nama	Left	5/28/2021, 11:50:09 AM
Director SA & P (Guest)	Joined	5/28/2021, 11:45:52 AM
pravalika lakshmi boorugu	Joined	5/28/2021, 11:46:06 AM
pravalika lakshmi boorugu	Left	5/28/2021, 11:46:27 AM
160118736038 (Guest)	Joined	5/28/2021, 11:46:06 AM
160118736038 (Guest)	Left	5/28/2021, 11:46:57 AM
Vanaja (Guest)	Joined	5/28/2021, 11:46:22 AM
Vanaja (Guest)	Left	5/28/2021, 11:46:53 AM

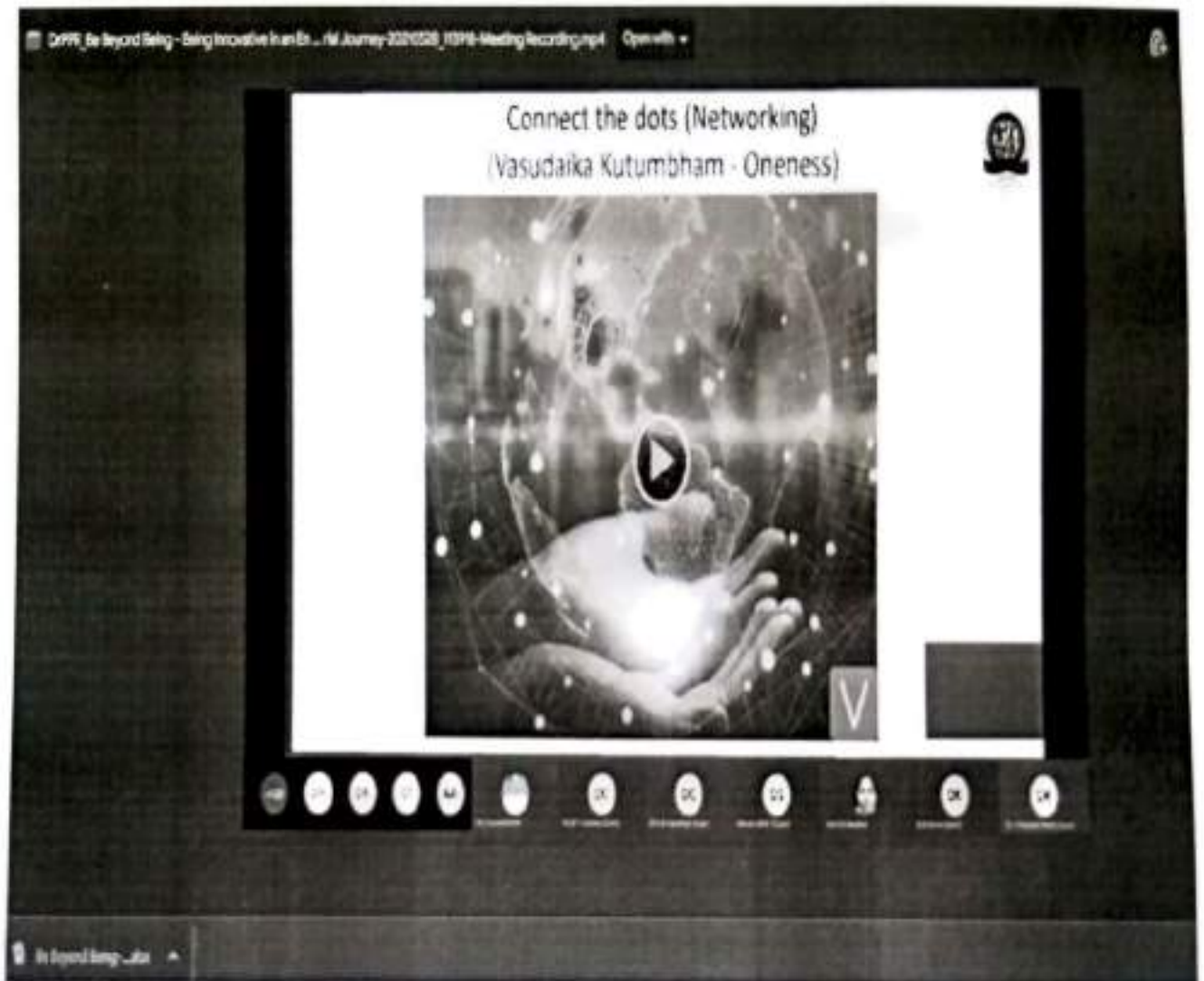
PROFESSOR & HEAD

Department of Mechanical Engineering  
 K. J. Somaiya Institute of Technology (K)  
 Gandhinagar, Hyderabad-500 075, Telangana

karthik modugula	Joined	5/28/2021, 11:46:36 AM
MANVITH REDDY	Joined	5/28/2021, 11:46:40 AM
MANVITH REDDY	Left	5/28/2021, 11:48:32 AM
160118736038 kamal (Guest)	Joined	5/28/2021, 11:47:07 AM
Vanaja (Guest)	Joined	5/28/2021, 11:47:11 AM
neelima manthri	Joined	5/28/2021, 11:47:34 AM
neelima manthri	Left	5/28/2021, 11:47:58 AM
neelima manthri	Joined	5/28/2021, 11:48:35 AM
sunil kumar thangella	Joined	5/28/2021, 11:47:38 AM
sunil kumar thangella	Left	5/28/2021, 11:48:50 AM
venkat naga sai rohit reddy manda	Joined	5/28/2021, 11:47:49 AM
160118736094-Satya Sai (Guest)	Joined	5/28/2021, 11:47:53 AM
160118736107 (Guest)	Joined	5/28/2021, 11:48:16 AM
072 - Abhinav (Guest)	Joined	5/28/2021, 11:49:11 AM
160119736074-bharadwaj (Guest)	Joined	5/28/2021, 11:49:27 AM
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160117736021 (Guest)	Joined	5/28/2021, 11:50:27 AM
160118746021 (Guest)	Joined	5/28/2021, 11:52:31 AM
160118746021 (Guest)	Left	5/28/2021, 11:56:11 AM
Pradeep_19_014 (Guest)	Joined	5/28/2021, 11:52:38 AM
Pradeep_19_014 (Guest)	Left	5/28/2021, 11:54:22 AM
rohith reddy kalta	Joined	5/28/2021, 11:56:35 AM
160118736021 (Guest)	Joined	5/28/2021, 11:56:40 AM

*S. S. S.*

PROFESSOR & HEAD  
 Department of Mechanical Engineering  
 J. Jayarama Bharathi Institute of Technology (A)  
 Gandipet, Hyderabad-500 075, Telangana



*Srinivas*

PROFESSOR & HEAD  
Department of Mechanical Engineering  
Chaitanya Bharathi Institute of Technology,  
Tandipet, Hyderabad (500 075, Telangana)



**CHAITANYA BHARATHI  
INSTITUTE OF TECHNOLOGY (A)**  
 Mokkapati Village, Gandipati, Hyderabad, Telangana-500075. www.cbit.ac.in








COMMITTED TO  
RESEARCH,  
INNOVATION AND  
EDUCATION

**42**  
years

# Sudhee 2021

## Department of Mechanical Engineering

### Mechanica 2021

#### About Mechanica

Mechanica is the two-day National-Level Technical Fest of Department of Mechanical Engineering organized as a part of Sudhee 2021, the Technical Fest of CBIT. Mechanica has organized 7 ecstatic events during the year 2020-2021. The fest was conducted on the 3rd and 4th of March, 2021 virtually. We had **237** participants altogether.

#### Support from College

The College Management, Principal, Sudhee Core Committee, Head of the Department have encouraged, supported and guided us in this endeavor.

#### Faculty Coordinators:

1. Dr. S. Solomon Raj, Associate Professor



2. Sri. P. Kiran Kumar, Assistant Professor



PROFESSOR & HEAD  
Department of Mechanical Engineering  
Chaitanya Bharathi Institute of Technology (A)  
Mokkapati - 500 075, Hyderabad



**Student Coordinators:**

1. Vignan Babu, D



2. Kaleemullah, M



3. Dheeraj, N



**DETAILS ABOUT THE EVENT**

**Inaugural Ceremony**

The Opening Ceremony of Mechanics, was conducted online at 11:30 AM on 3rd March, 2021. The ceremony was presided over by the Head of the Department, Mechanical Engineering, Professors, faculty Coordinators and faculty members. The speaker, Dr.L.Siva Rama Krishna, then addressed the crowd. The conference was officially declared open.

Speaker: Dr. L.Siva Rama Krishna

Topic: Innovative Application of 3D printing

Event Dates: 3rd and 4th March 2021

Event Website: [HOME | Mechanics2021 \(wixsite.com\)](http://HOME | Mechanics2021 (wixsite.com))

PROFESSOR & HEAD  
Department of Mechanical Engineering  
Jawahar Institute of Technology (JIT)  
JNTU, Hyderabad-500 075, Telangana



**Dr. L. Siva Rama  
Krishna.**  
**Associate Professor**  
**MED, OUCE.**

**Profile:**

**Dr. L. Siva Rama Krishna,** is presently working as Associate Professor in the Dept. of Mech. Engineering, University College of Engineering(A), Osmania University. Presently he is **working as Joint Director, Centre for Product Design, Development and Additive Manufacturing (A centre of Excellence established under RUSA 2.0),** Nodal Officer PMSSS (J&K), Single Point of Contact for Local Chapter SWAYAM- NPTEL, NSS program officer, and Faculty Adviser for M.E course on DFM. Course. He has also worked as Joint Director of Evaluation Examination Cell, University College of Engineering, Osmania University.

**Some Professional milestones:**

He is Reviewer for many reputed journals like Institute of Engineers India Series C journal Springer Series, British Journal of Medicine and Medical Research, etc. He has won the best research paper award in the International Conference on Recent Innovations in Engineering and Technology at Bhubaneswar. He has guided more than 60 ME projects and presently guiding 9 Ph.D students. He has delivered 85 guest lecturers in various UGC & AICTE refresher courses, webinars, in house training programs of prestigious organizations like BHEL (R&D), BDL etc. He has also organized various STTP's, International Conferences, workshops etc. He works with **MDS Care Hospitals Banjara Hills, Yashodha Hospitals Secunderabad and Sri Sai Dental College, Mahbubnagr** for solving various critical cases related **Cranioplasty and Maxillofacial Surgeries.**

PROFESSOR & HEAD

Department of Mechanical Engineering  
Osmania University Institute of Technology (UOIT)  
Hyderabad-500 075, Telangana

The schedule for the event was as follows:

**Mechanica 2021 Inaugural Function**

**Date & Time:**

03-03-2021 11:30 AM to 11:45AM

**Event 1: Guest Talk**

**Date & Time :**

03-03-2021 11:45 AM – 01 : 15 PM

**Speaker:** Dr. L. Siva Rama Krishna

**Topic:** Innovative Application of 3D printing

**Audience:** 50 Count

**Event Description :**

To uphold the enthusiasm and excitement of the students in emerging technologies in the field of Mechanical Engineering. We have come up with an industrial expert who will explain the scope of their studies in practical applications

The event will help the students to choose their career path by exercising every step, in relation to the future demanding skills.

**Links:**

<https://drive.google.com/file/d/184dIDyPcsufOK58KXe6ZygiN-C4GtIEJ/view?usp=sharing>

**Photos:**



*S. Sridhar*

PROFESSOR & HEAD  
Department of Mechanical Engineering  
Chaitanya Bharathi Institute of Technology  
P. O. Box 10, Hyderabad-500 075, Telangana



**CHAITANYA BHARATHI  
INSTITUTE OF TECHNOLOGY (CBIT)**  
H. No. 11, K. J. Somayajulu, Gopalpet, Hyderabad, Telangana-500076. www.cbit.ac.in

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EDUCATION



DEPARTMENT OF MECHANICAL ENGINEERING

MECHANICA 2021

Guest Talk



Dr. L. SIVA RAMA KRISHNA  
PwM, MIED, DUCE  
INNOVATIVE APPLICATION OF 3D PRINTING



Visualization of 3D Model of the Skull attached with Implant

NATIONAL LEVEL STUDENT TECHFEST  
"MECHANICA"  
Organized by  
Dept. of Mech. Engg., CBIT Hyderabad  
(23-24, March, 2021)

**INNOVATIVE APPLICATIONS OF  
3D PRINTING**



By  
Dr. L. SIVA RAMA KRISHNA  
Joint Director CPDDAM  
Associate Professor  
Dept. of Mechanical Engg.  
University College of Engg.  
Osmania University



PROFESSOR & HEAD  
Department of Mechanical Engineering  
Chaitanya Bharathi Institute of Technology  
H. No. 11, K. J. Somayajulu, Gopalpet, Hyderabad-500076, Telangana

20-21

25

CHAITANYA BHARATHI INSTITUTE OF TECHNOLOGY(A)  
MECHANICAL ENGINEERING DEPARTMENT

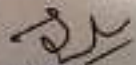
Innovative Application of 3D printing - Speaker: Dr. L. Siva Rama Krishna

List of participants

SNo.	Name	Signature
1	Dr. RAHUL	
2	Dr. S. Nageswara Kumar	
3	Dr. K. K. K. K.	
4	Y. Nagini	
5	P. Suresh Kumar	
6	P. Suresh Reddy	
7	Dr. N. V. Srinivasulu	
8	P. KIRAN KUMAR	
9	V. Sandhya	
10	R. Reddy	
11	N. Jyothi May	
12	Dr. D. V. R. Ramana Reddy	
13	V. Jai Prakash	
14	A. Chandrakanth	
15	V. Venkatesu, Asst Prof	
16	Dr. G. Hanumanth, Professor	
17	Dr. L. Luresh Kumar Asst. Prof	
18	P. Anjani Reddy Asst. Prof	
19	Dr. R. P. Chaudhary Assoc. Prof	
20	N. Venkateswara Rao	
21	N. Jai Prakash	
22	P. Reddy Krishna Prasad	
23	K. N. V. Sree Devi	
24	D. S. Madhuri	
25	T. N. S. S.	
26	Dr. M. M. M. M.	
27	Dr. V. V. R. Seshagiri Rao	

PROFESSOR & HEAD  
Department of Mechanical Engineering  
Chaitanya Bharathi Institute of Technology (A)  
Sankarpet, Hyderabad-500 075, Telangana

**TRENDS & CHALLENGES  
OF HYBRID ELECTRIC  
DRIVE UTILITIES IN  
TRANSPORT SECTOR-  
PHASE-I**

  
HEAD  
Dept. of EEE, CBIT (A)  
Gandipet, Hyderabad-75

**CHIEF PATRON**

**Kavi Kireeti Dr. V MALAKONDA REDDY**  
President, CBIT

**PATRONS**

**Sri. N. SUBASH**  
Secretary & Correspondent, CBES

**Smt. D. SANDHYA SREE**  
Chairperson D&P, CBIT

**PROGRAM EVALUATION COMMITTEE**

**Prof. P. RAVINDER REDDY**  
Principal - CBIT & Chairman - PEC

**Prof. U. K. CHOUDHURY**  
Director - I&I and Subject Expert - PEC

**Prof. D. KRISHNA REDDY**  
Head, Dept. of ECE

**Prof. P.V.R. RAVINDRA REDDY**  
Head, Dept. of Mechanical Engineering

**Dr. T. MURALI KRISHNA**  
Coordinator - STTP

**CONVENER**

**Prof. G. SURESH BABU**  
Head, Department of EEE

**CO-COORDINATORS**

**Dr. N. VASANTHA GOWRI**  
Assistant professor, Dept. of EEE

**Sri M. NAGARAJU**  
Assistant professor, Dept. of EEE

Registration Fee : Free

**IMPORTANT DATES**

Last date for Registration : 01-08-2020  
Intimation of selection : 02-08-2020

**HOW TO APPLY**

The applicants should fill the Registration Form through Google Forms using below link

E-certificate will be issued to those Participants who attend 80% of the sessions and clear the exam.

**FOR FURTHER DETAILS PLEASE CONTACT**


E-mail: stpccc@cbit.ac.in

Mobile: 7013526685, 9052221446, 9866479770

**REGISTRATION LINK**

<https://forms.gle/Ky9TgoJtGE2W1QEB6>



  
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Dept. of EEE, CBIT (A)  
Gandipet, Hyderabad-75



AICTE - Sponsored  
Short Term Training Program  
(STTP-Phase-I)

on

**TRENDS & CHALLENGES OF HYBRID  
ELECTRIC DRIVE UTILITIES IN  
TRANSPORT SECTOR**

03<sup>rd</sup> - 08<sup>th</sup> August, 2020

Organized by

**DEPARTMENT OF ELECTRICAL  
AND ELECTRONICS ENGINEERING**

## CHAITANYA BHARATHI INSTITUTE OF TECHNOLOGY(A)

CBIT is one of the premier Engineering Institute in INDIA, pioneer in Telangana State, which is at idyllic surroundings of Gandipet Lake, Hyderabad. The college offers Nine UG and Eleven PG programs. It has been standing as a temple of knowledge for the past 41 years by producing about 25,000 Eminent and skillful Graduate Engineers, who are successful in their Careers, serving all over the world. The Institute has been Accredited by NBA--AICTE and NAAC--UGC. UGC has granted Autonomous Status from the Academic Year 2013-14 onwards. The Grants received from AICTE/UGC are worth about Rs. 2.5 Crores. Brilliant and Meritorious Candidates with good EAMCET Rank are seeking admissions at CBIT. CBIT Students are prepared and perfected to secure Placements in MNCs through College Career Development Center.



## ABOUT THE DEPARTMENT

CBIT started Electrical & Electronics Engineering UG course in 1994 and was accredited thrice i.e. in years 2004, 2008 & 2013 by NBA. The intake was increased from 60 to 120 from the Academic Year 2013-14. The Department started offering a PG course in Power Systems & Power Electronics in 2006 with an intake of 18 and was accredited by NBA in the year 2016. The Department has highly qualified and experienced faculty. The Department is having well equipped labs with latest Hardware & Software. The Department is also certified by ISO 9001:2008. The Department is recognized as Research Centre in 2017 by Osmania University to carry out research for the award of Ph.D. degree. The Department is keen on developing consultancy services and welcomes funding research from outside agencies. The Department in the year 2019-20 has received a funding of Rs.2,72,000 under AICTE-STTP Scheme for MATLAB Research Methodology project, Rs. 3,00,000 under AICTE-STTP scheme for Hybrid Electric Utilities Project and Rs.11,00,000 under AICTE-RPS Scheme for Development of Low Cost Flexible Quality Conditioner to Mitigate Power Quality Issues and MODROBS for special electrical machines to the tune of Rs.17Lakh.

## ABOUT THE STTP

Deterioration in air quality, global warming, and a decrease in petroleum resources are becoming the major threats to human beings. More and more stringent emissions and fuel consumption regulations are stimulating an interest in the development of safe, clean, and high-efficiency transportation. It has been well recognized that electric, hybrid electric, and fuel-cell powered drive train technologies are the most promising solutions to the problem of land transportation in the future. In recent decades, the research and development activities related to

transportation have emphasized the development of high efficiency, clean, and Modern Electric, Hybrid Electric, and Fuel Cell Vehicles safe transportation.

## Topics to be covered in STTP

- ↓Over View of Electric Vehicle ↓
- Govt. Policies and Guide Lines ↓
- Special Electrical Machines
- ↓Batteries for Hybrid Electric Vehicles ↓
- Testing and Certification
- ↓Electric Vehicle Design ↓
- Axial Flux Machines
- ↓Hybrid Electric Vehicles

## RESOURCE PERSONS

Resource Persons will be from Renowned Institutions such as IIT's/NIT's, Industries like Tata Motors, and host Institution.

## TARGET GROUP

The STTP is expected to benefit Engineer Scientists, Researchers and Academicians who are working / Teaching / studying in the area of Hybrid Electric Vehicles.

  
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Gandipet, Hyderabad-76





**Department of Electrical & Electronics Engineering**

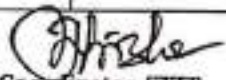
**AICTE Sponsored Short Term Training Program (Phase-1) Schedule**

on


**TRENDS & CHALLENGES OF HYBRID ELECTRIC DRIVE UTILITIES IN TRANSPORT SECTOR**

03<sup>rd</sup> - 08<sup>th</sup> August 2020

	9.30 AM-11.00AM		11.30 AM – 1.00 PM		2.00 PM – 3.30 PM
03-08-2020 Monday	Inauguration	Break	Introduction to Electric Mobility, Policy and Guidelines, Trends and Challenges, Electric vehicle System and Components by <b>Dr. U.K. Choudhury, Prof. &amp; Director(I&amp;I), CBIT, (Ex ED, CTM, BHEL)</b>	Lunch break	Permanent Magnet Motor Drives for Electric Mobility by <b>Dr. U.K. Choudhury, Prof. &amp; Director(I&amp;I), CBIT, (Ex ED, CTM, BHEL)</b>
04-08-2020 Tuesday	Power Electronics Converters for Electric Vehicles by <b>Mr. Balwanth Reddy, Dy. Manager, BHEL R&amp;D</b>		Hybrid Electric Vehicle, Regenerative Braking and Future Trends by <b>Dr U.K. Choudhury, Prof. &amp; Director(I&amp;I), CBIT, (Ex ED, CTM, BHEL)</b>		Optimal Dispatch of Electric Vehicle Battery in EV Charging Stations and Its Impact on Distribution System by <b>Dr. Y. Chandrasekhar, Dept of EEE, NITW</b>
05-08-2020 Wednesday	Testing Standards for Electric Vehicle and Its Components by <b>Mr. M. Desai, DGM, ARAI, Pune</b>		Development of Electric Vehicle by Edison Motors Korea and Special Design Features by <b>Sri Y.K. Lec, MD, Edison Motors</b>		Fuel Cell and Its Application for Electric Vehicle by <b>Mr. S. Ravi, Hybrid fuel solutions Pvt. Ltd</b>
06-08-2020 Thursday	Charging Station for Electric Vehicle by <b>Mr. S. Eswar Rao, Sr. DGM, BHEL R&amp;D</b>		Liquid Cooled Induction Motor for Electric Mobility by <b>By Mr. A. Venkanna Deputy Manager, EM Lab, BHEL</b>		Design of an Electric Vehicle by <b>Mr. Y. Rama Rao, COO, M/s Deccan Auto</b>
07-08-2020 Friday	Reliability Modeling and Assessment of Hybrid Electric Vehicles by <b>Dr. P. V. N. Prasad, Prof. (Rtd), Dept of EE, OUCE</b>		Application of E-mobility for Industrial Transport Application by <b>Mr. Jatil Sharma, MD, Tejaswi Green Engg. Pvt. Ltd.</b>		Optical Location of Battery Swapping Stations by <b>Dr. Y. Chandrasekhar, Dept of EEE, NITW</b>
08-08-2020 Saturday	Materials for 21 <sup>st</sup> Century Energy Crisis for Sustainable Transport Applications by <b>Dr. R. Gopalan, Director, ARCI</b>		Electrical Motor Drives for Electric Vehicles by <b>Dr. G. Tulasi Ram Das, Former Vice Chancellor (JNTUK) Prof, Dept of EEE, JNTUH</b>		Test, Feedback and valedictory

  
Coordinator-STTP

  
HoD, EEE, CBIT

  
HEAD  
Dept. of EEE, CBIT (A)  
Gandipet, Hyderabad-75

Totally 159 participants from 15 states registered for the STTP, but 106 participants regularly attended the program out of which only 91 received certificates by clearing the end examination with equal to or more than 60% in which was conducted on the last day i.e. on 08-08-2020. Every day three sessions are conducted (two in the morning and one in the evening) which is of 1 ½ hour duration. The program was conducted on google-meet platform. After the completion of each session the attendance and feedback forms are shared in the chat box. The detailed report of each session is given below.

**03-08-2020** **Session-1** **Time: 10:40 AM to 01:10 PM**  
**Speaker: Dr. U.K. Choudhury, Prof. & Director(I&I), CBIT, (Ex ED, CTM, BHEL)**  
**Topic: Introduction to Electric Mobility, Policy and Guidelines, Trends and Challenges**

The session started with Parts of electric vehicle, difference between ordinary vehicle & electric vehicle, Shape of the front panel of the vehicle & its impact on energy consumption, Electric bus layout, importance of electric vehicle power train, Challenges/barriers to electric vehicles in terms of Technical, Infrastructural, Market & Policy. The he compared the components & distribution of energy losses in diesel bus & battery-operated bus like aerodynamic losses, braking losses wheel losses, Transmission losses, Engine/Battery losses and ancillary losses. He concluded the session with Indian Government Initiatives toward electric vehicles like NMEM, NEMM, EVI, FAME-1 & FAME-2

**03-08-2020** **Session-2** **Time: 02:15 AM to 04:10 PM**  
**Speaker: Dr. U.K. Choudhury, Prof. & Director(I&I), CBIT, (Ex ED, CTM, BHEL)**  
**Topic: Permanent Magnet Motor Drives for Electric Mobility**

In this session, the advantages, classification and applications of the permanent magnet machines are discussed. The performance requirement of electric vehicle in terms of torque density, power density speed range, efficiency, hill climbing, intermittent overload capacity, overtaking, reliability, robustness, low acoustic noise and reasonable cost are discussed. Sir shown different pictures of permanent magnets, precision thin material, flexible magnets and the comparison between various magnets are discussed. Domain movement during magnetization, magnetizer and critical points for permanent magnet generators are deliberated.

**04-08-2020** **Session-1** **Time: 09:30 AM to 11:00 AM**  
**Speaker: Mr. Balwanth Reddy, Dy. Manager, BHEL R&D**  
**Topic: Power Electronic Converters for Electric Mobility**

Session started with the basic components of Power electronics, Significance of Static switches, PI control gains in the design of power converters, Importance of IGBT in the medium voltage high current applications, Intelligent power modules, Latest materials used in power devices like Silicon carbide, Gallium Arsenide, Thin Film, Superconductors etc. then presented the types of electric vehicles, Basic design aspect of converters like Importance of technical specifications, Application standards, selection of semiconductor device, EMI/EMC standards, DC link capacitor. The continued with Scalar & vector control of induction motor.

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Bangalore, Hyderabad-75

04-08-2020

Session-2

Speaker: Dr. U.K. Choudhury, Prof. & Director(I&I), CBIT, (Ex ED, CTM, BHEL)

Topic: Hybrid Electric Vehicle, Regenerative Braking and Future Trends

The resource person has given overview of future advancements in e-mobility. This lecture mainly focused on Regenerative braking, Hybrid Electric Vehicle (HEV), Hydraulic Hybrid Vehicles. He discussed about the complexity in the design of HEVs than IC engine vehicles in all the aspects. He deliberated about advantages and disadvantages of different configurations of HEVs, Types of HEVs. He quoted different topics of research requirements on energy storage systems, regenerative braking, vehicle dynamics and optimization, Challenges in power electronics, vehicle control.

04-08-2020

Session-3

Speaker: Dr. Y. Chandrasekhar, Dept of EEE, NITW

Topic: Optimal Dispatch of Electric Vehicle Battery in EV Charging Stations and Its Impact on Distribution

The session started with a novel dispatch strategy to determine, when and at what rate EV battery should charge/discharge in order to maximize profits to EV owners and responding to power system's requirements while considering the effect of renewable DG power availability. This objective depends on many criteria like buying and selling price of energy, battery state of charge (SoC), Renewable DG power availability, and load levelling. The optimal dispatch strategy is applied to 100 and 200 EV fleets with random travel plan, the effect of these fleets with optimal dispatch strategy is tested on IEEE 33 bus distribution system with added DGs. Furthermore, optimal power dispatch of DGs in EV-rich distribution system is explained with BAT optimization algorithm (BOA).

05-08-2020

Session-1

Speaker: Mr. M. Desai, DGM, ARAI, Pune

Topic: Testing Standards for Electric Vehicle and Its Components

In this session Desai sir quoted the importance of regulatory mechanism like standardization, type of approval/certification Agencies, regulation frame work for electric vehicle under CMVR for 250W-EV, E-Rickshaw/E-cart vehicles. The electric vehicle approval requirements like AIS 038: Constructional & functional safety requirements like traction battery, protection against electric shock, high voltage marking etc. Then continued with AIS:039-Electrical energy consumption, AIS:040-Measurement of range, AIS:041-Maximum Power test, AIS:049-EV Specific requirements like grade-ability test at 60% of State of Charge. Battery Management System, AIS:048-performance and abuse testing for traction batteries are discussed. Then continued with the topics like Present scenario in India, new battery safety standard, Charges/Charging stations like conductive & inductive charging, EV Charging: Ministry of power Guidelines, Different types of charges and charger standards. The session ended with Vehicles converted to Electric-Hybrid, Hybrid vehicle regulations in India, e-motor test bed for 3-10 kW motors, Characterization of Li-ion Cell, module & pack, challenges with adoption of Electric Mobility and the role of Government agencies in India.

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Dept. of EEE, CBIT (A)  
Basundevi, Hyderabad-75

05-08-2020

Session-2

Speaker: Sri Y.K. Lee, MD, Edison Motors

Topic: Development of Electric Vehicle by Edison Motors Korea and Special Design Features

Started with the introduction of Edison motors, their vision & mission from value market to trust market and its operating policy. Then their product electric bus constructional details, Power train, battery & Motor positions in cars, how they entered in Indian market with accelerated adoption of alternate fuels like CNG/LNG/Hybrid/Electric vehicles. He discussed about types of Li-Ion batteries, challenges with adoption of electric mobility, role of Ministry of Heavy Industry, Ministry of Road Transport to manufacture electric vehicles. Concluded the session with the products of Edison motors and their specifications.

05-08-2020

Session-3

Speaker: Mr. S. Ravi, Hybrid fuel solutions Pvt. Ltd

Topic: Fuel Cell and Its Application for Electric Vehicle

This session concentrated on basic components of fuel cells like PEM stack, Balance of plant, membrane electrode assembly etc. then discussed about hybrid fuel cells, bipolar plate fabrication cell, stack assembly, stack testing BOP components like blowers, LCD, Load connectors, Controller, Short Circuit unit are exemplified. Then depicted the MEA assembly unit, its requirements and applications of fuel cells in practical application like operating excavators in remote areas. Continued with the necessity of supercapacitor, DC-DC converter, Dc-bus in the system. He quoted that the fuel cell fleet is now mostly hydrogen fuelled.

06-08-2020

Session-1

Speaker: Mr. S. Eswar Rao, Sr. DGM, BHEL R&D

Topic: Charging Station for Electric Vehicle


Sri S. Eswar Rao sir has discussed charges for electric vehicles, batteries for e-mobility to meet the challenges of electric vehicles such as waiting time for recharge, range anxiety, high initial cost etc., continued his session with understanding battery characteristics and battery management system. Then explained about types of charging standards, dc charging station architecture, dc fast charger developed by BHEL, topology of high frequency-based charger, design of controller for grid connected converters, solar based ac charging stations, weigh side charging infrastructure, types of charging, difference between continuous charging and conductive charging. Concluded his session with on-board charges, off-board charges and types of chargers like Level-1, Level-2, Level-3 etc.

06-08-2020

Session-2

Speaker: By Mr.A. Venkanna, Deputy Manager, EM Lab, BHEL

Topic: Liquid Cooled Induction Motor for Electric Mobility

  
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Report on AICTE Sponsored STTP on "TRENDS & CHALLENGES OF HYBRID ELECTRIC DRIVE UTILITIES IN TRANSPORT SECTOR" during 03<sup>rd</sup> - 08<sup>th</sup> August 2020

Introduced water cooled induction motor application for electric vehicle. The first step is customers specification like cost, weight, volume and efficiency, IP 69 K requirements, motor mounting configurations. The main advantage of liquid cooling system in transportation is at the time of starting, overtaking of the vehicle and during transmission of vehicle on gradient surfaces. Then he continued his session on air cooling and water-cooled induction motors. Depicted the cross-sectional view of water-cooled induction motor. Then he concluded the session with electro magnetic design and analytical design of induction motors.

06-08-2020

Session-3

Speaker: Mr. Y. Rama Rao, COO, M/s Deccan Auto

Topic: Design of an Electric Vehicle

Explained about growing economy power in India. India stands fifth position in auto mobile industry. Hence the solution for future transportation is e-mobility. Given a comparison between IC engine and Electric vehicles. explained about batteries and their costs for electric vehicles. He also presented the statistics of electric car. Discussed in detail about electric charging regulations in India. Concluded the session with development challenges, electric vehicle safety, operability, centre of excellence on e-mobility.

07-08-2020

Session-1

Speaker: Dr. P. V. N. Prasad, Prof. (Rtd), Dept of EE, OUCE

Topic: Reliability Modeling and Assessment of Hybrid Electric Vehicles

In this session the importance of reliability in Hybrid Electric Vehicles is discussed. The need of reliability assessment is required because of the increasing automation, complexity in the system, Failure & Repairs, Quality of product, Reduction of overall cost. Two types of assessment viz. Past & Future assessment are discussed. The four parts of reliability are probability, adequate performance, Time, Operating conditions are introduced. Various reliability indices are like number of failures, average time between failures, average down time energy loss, revenue is quoted. The maintainability, availability and bath tub model is conferred. The Markov models for series-hybrid, Parallel hybrid and Series-Parallel Hybrid Electric Vehicles are discussed. Concluded that parallel-hybrid is more reliable than series-hybrid Electric Vehicles.

07-08-2020

Session-2

Speaker: Mr. Jatil Sharma, MD, Tejaswi Green Engg. Pvt. Ltd

Topic: Application of E-mobility for Industrial Transport Application

The vehicles landscape in India is introduced by the resource person. Discussed about EVs, BEVs, ZEVs & BOU etc., electric vehicles viabilities like charging infrastructure, increased efficiency, reduction of cost and policies related to motor drive technology. He more focused on innovation, life cycle, project management. Then continued with the products developed for various applications like EVs in golf-carts, vehicles for cleaning of solar panels, e-ambulances in hospitals, missile carriers in defence sector, vehicles for vigilance & security, forest & tourism, public health and sanitation by Tejaswi Green Engg. Pvt. Ltd.

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07-08-2020

Session-3

Speaker: Dr. Y. Chandrasekhar, Dept of EEE, NITW

Topic: **Optical Planning of EV Charging stations and Battery Swapping Stations**

For the installation of EV charging stations the objectives are loss minimization and profit maximization in optimization process. Due to development of the batteries and its charging technologies, public incentives and growing criticism on dense air pollution, the electrical vehicles (EVs) gaining more popularity as compared to traditional fuel vehicles. In this scenario, the multi-objective optimal scheduling of Electric Vehicle batteries in Battery Swapping Station (BSS) is explained in order to optimize the number of EV batteries taken from battery stock. Further, degradation cost of batteries and electricity charging cost of batteries also considered for optimal scheduling of EV batteries in BSS. The dynamic electricity pricing model is considered to avoid new peaks of battery charging demand in BSS. EV battery swapping demand in each hour of the day is solved by using a multi-objective Shuffled Frog Leaping Algorithm (SFLA).

08-08-2020

Session-1

Speaker: Dr. R. Gopalan, Director, ARCI

Topic: **Materials for 21<sup>st</sup> Century Energy Crisis for Sustainable Transport Applications**

Session started with Sustainable energy, Matter of concern in India, Energy Crisis & demand, wind energy, solar energy, roof-top wind-solar hybrid systems, introduced about 50MW solar plant in Jodhpur, 1000MW solar plant in Tamilnadu, 21<sup>st</sup> century energy crisis in transport sector. Session continued with Transformation in vehicle technology, Carbon foot print, EV concept, Drivers for growth of electric vehicles in India, Electric vehicle status in India, Permanent magnet technology and its role for energy saving technology, Li-ion battery, possible combination of Li-ion battery, fabrication of Li-ion battery at ARCI, power and energy of various batteries, Alternative energy materials & systems, fuel cells, solar cells, Thermoelectric materials.


08-08-2020

Session-2

Speaker: Dr. G. Tulasi Ram Das, Prof, Dept of EEE, JNTUH, Former Vice Chancellor (JNTUK)

Topic: **Electrical Motor Drives for Electric Vehicles**

The session started with induction motor and its advantages & limitations in electric vehicles. The session continued with the importance of switched reluctance motors with its major advantages of less heat development, but the main drawback of complex control circuitry, insights for selecting the right motor for electric vehicles for two wheelers & three wheelers. Sir has illustrated the performance comparison between indirect field-oriented control and direct torque control of induction motors with case study. Session ended with future scope of research in electric vehicles.

  
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AICTE SPONSORED STTP(Phase-1)- Day 5 -Session-1 (2020-08-06 at 21:07 GMT-7)

Uses of Quantitative assessment:

- Past assessment
  - Weak areas can be identified
  - Chronological trends in reliability performance can be observed
  - Existing reliability indices can serve as guidance for future assessments
  - Past predictions can be compared with actual present prediction
  - Change in reliability can be monitored with changes in system design
- Future assessment
  - System future behaviour can be predicted
  - Benefits of alternative system designs, reinforcements and expansion plans can be analysed
  - Effects of alternative operational and maintenance policies can be studied
  - Cost worth benefit analysis can be made



AICTE-Sponsored-STTP(Phase 1)-day4-session2 (2020-08-05 at 23:28 GMT-7)

Hybrid Electric bus



SIEM developed Induction Motors



120 kW Induction motor

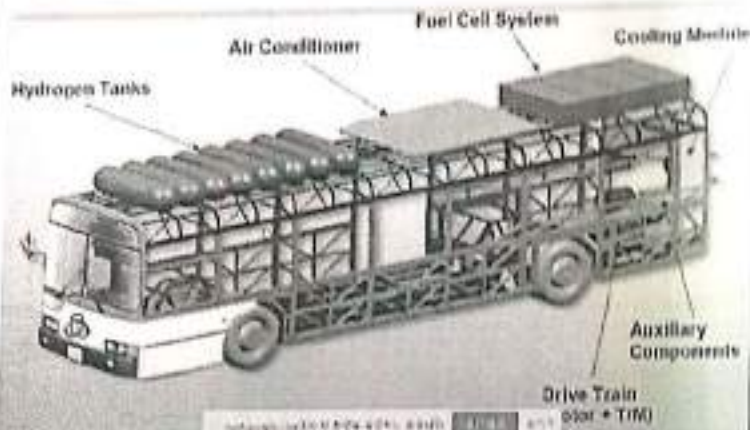


67 kW Induction motor



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### E-Mobility Introduction



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On  
**TRENDS & CHALLENGES OF HYBRID ELECTRIC DRIVE UTILITIES IN TRANSPORT SECTOR**  
 03th - 08th August 2020

List of participants shortlisted for Certificates

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Department of EEE

AICTE - Sponsored Short Term Training Program (STTP-Phase-1)

on

TRENDS &amp; CHALLENGES OF HYBRID ELECTRIC DRIVE UTILITIES IN TRANSPORT SECTOR

03th - 08th August 2020

S.No.	Participant Name	Score	Do you think the event helps in your future works?	How do you rate the planning of the event?	How do you rate the conduction of the event?	How about the quality of the lectures?	What is your level of satisfaction with this event?	Which aspect of the event did you like most?	Are you likely to participate in our events in the future?
Mr	Musub Mehfooz	12 / 20	Yes	4	4	4	5	Resource persons	Yes
Mr	KASOJU BHARATH KUMAR	13 / 20	Yes	5	5	5	5	All	Yes
Dr	Dr.B Suresh Kumar	14 / 20	Yes	5	5	5	5	planning	Yes
Mr	SHIV SHAMBHU CHOUDHARY	15 / 20	Yes	5	4	4	4	All	Yes
Mr	MADAN MOHAN CHODAVARAPU	15 / 20	Yes	5	5	5	5	All	Yes
Mr	Salyanarayana Addala	16 / 20	Yes	5	4	4	4	All	Yes
Mr	CH.VINAY KUMAR	17 / 20	Yes	5	5	5	5	All	Yes
Mr	A.Bala Raja Ram	20 / 20	Yes	5	5	5	5	All	Yes
Mrs	Minakhi Behera	17 / 20	Yes	5	5	5	5	All	Yes
Mrs	M NALINI DEVI	17 / 20	Yes	5	5	5	5	All	Yes
Mr	V BALARAJU	15 / 20	Yes	5	5	5	5	All	Yes
Mr	THIRIVEEDHI HARIBABU	13 / 20	Yes	5	5	5	5	All	Yes
Mr	ALLIPILLI YELLAJI	14 / 20	Yes	5	5	5	5	All	Yes
Mr	S. SARAVANAN	12 / 20	Yes	5	5	5	5	All	Yes
Mr	Anil Mameni	16 / 20	Yes	5	5	5	5	All	Yes
Mr	MURALI MOHAN T	16 / 20	Yes	4	5	5	4	All	Yes
Mrs	Sowmya G	14 / 20	Yes	5	5	5	5	All	Yes
Mr	Santhosh Raikar M	18 / 20	Yes	5	5	5	5	Resource persons	Yes
Ms	Aluri Sai Sree Sarayu	19 / 20	Yes	5	4	5	4	All	Yes
Mr	Nedunuri Parameshwar	14 / 20	Yes	5	5	5	5	All	Yes
Mrs	S.SUDHARANI	16 / 20	Maybe	4	4	4	4	Resource persons	Yes
Mr	K.Dhanraj	12 / 20	Yes	4	4	4	4	All	Yes
Mr	G Hari Krishna	18 / 20	Yes	5	5	5	5	All	Yes
Mr	ATHMAKURU RANJITH KUMAR	19 / 20	Yes	5	5	5	5	All	Yes
Mr	KOLA SURESH KUMAR	19 / 20	Yes	5	5	5	5	All	Yes

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Mr	SRINIVAS MODUGU	15 / 20	Yes	5	5	5	5	All	Yes
Mr	KARANGULA PRASANNA KRISHNA	13 / 20	Yes	5	5	5	5	All	Yes
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Mr	Subash Ranjan Kabat	15 / 20	Yes	5	5	5	5	All	Yes
Mr	CHANDRA PRASAD MODALAVALASA	16 / 20	Yes	5	5	5	5	All	Yes
Mr	A R Govardhana Naidu	13 / 20	Yes	5	5	5	5	All	Yes
Mrs	TIPPANI ANUSHA	14 / 20	Yes	4	5	3	4	All	Yes
Mr	BALAKISHAN PADAKANTI	16 / 20	Yes	5	5	5	5	All	Yes
Dr	S.SRINATH	17 / 20	Yes	5	5	5	5	All	Yes
Dr	Neelakanteshwar	12 / 20	Yes	5	5	5	5	planning	Yes
Dr	Haripriya T	13 / 20	Yes	5	4	4	4	All	Yes
Mr	GADUPUDI	14 / 20	Yes	5	5	5	5	All	Yes
Dr	G Radhika	15 / 20	Yes	5	4	4	4	All	Yes
Dr	Dr. D. Ravi Kumar	15 / 20	Yes	5	5	5	5	All	Yes
Mr	Cholleti Harish	16 / 20	Yes	5	5	5	5	All	Yes
Mr	AMARNADH	17 / 20	Yes	5	5	5	5	All	Yes
Dr	N M G kumar	20 / 20	Yes	5	5	5	5	All	Yes
Mr	M. Manohara	17 / 20	Yes	5	5	5	5	All	Yes
Mr	MOHAMMED	17 / 20	Yes	5	5	5	5	All	Yes

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Dept. of EEE, CBIT (A)  
Hyderabad-75

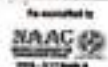
Mr	BOMMASANI	15 / 20	Yes	5	5	5	5	All	Yes
Mr	Yamsani Akshith	13 / 20	Yes	5	5	5	5	All	Yes
Mr	D Harsha	14 / 20	Yes	5	5	5	5	All	Yes
Mr	K. PRAVEEN	12 / 20	Yes	4	5	5	4	All	Yes
Dr	D.Sunitha	16 / 20	Yes	5	5	5	5	All	Yes
Ms	Tejaswi Algam	16 / 20	Yes	5	5	5	5	Resource	Yes
Mr	S.MD.MAZHAR UL	14 / 20	Yes	5	4	5	4	All	Yes
Dr	S Premalatha	18 / 20	Yes	5	5	5	5	All	Yes
Dr	KUNTLA	19 / 20	Maybe	4	4	4	4	Resource	Yes
Dr	shiva prasad odara	14 / 20	Yes	4	4	4	4	All	Yes
Mrs	R Geshma Kumari	16 / 20	Yes	5	5	5	5	All	Yes
Mr	GOLLA NARESH	12 / 20	Yes	5	5	5	5	All	Yes
Mr	P sai niranjan	16 / 20	Yes	5	5	5	5	All	Yes
Mr	C.Jagan Mohan	19 / 20	Yes	5	5	5	5	All	Yes
Dr	Ahmad Syed	19 / 20	Yes	4	4	4	4	All	Yes
Mrs	P. Veera Bhadra	19 / 20	Yes	5	5	5	5	All	Yes
Mr	KANCHAN SAHA	16 / 20	Yes	4	4	4	4	Resource	Yes
Mr	RABI RANJAN	17 / 20	Yes	5	4	5	4	All	Yes
Mrs	Narmada Reddi.B	16 / 20	Yes	5	5	5	5	All	Yes
Mrs	KUSUMA KUMARI	18 / 20	Maybe	4	4	4	4	Resource	Yes
Mrs	SELVE V	15 / 20	Yes	4	4	4	4	All	Yes
Mrs	G Angala	13 / 20	Yes	5	5	5	5	All	Yes
Dr	K.SURESHKUMAR	12 / 20	Yes	5	5	5	5	All	Yes
Mrs	VIDHYA K	19 / 20	Yes	5	5	5	5	All	Yes
Mr	N B RAJESH	15 / 20	Yes	5	5	5	5	All	Yes
Dr	GEETHA RAMAN	12 / 20	Yes	4	4	4	4	All	Yes
Ms	Preethi L	12 / 20	Yes	5	5	5	5	All	Yes
Dr	SASIKUMAR M	15 / 20	Yes	4	4	4	4	All	Yes
Mr	SANJIBA KUMAR B	13 / 20	Yes	5	5	5	5	All	Yes
Ms	Dasyam Sushma	12 / 20	Yes	5	5	5	5	All	Yes
Mr	Lenkalapelly raju	19 / 20	Yes	5	5	5	5	All	Yes
Mrs	G Angala Paramesw	15 / 20	Yes	5	5	5	5	All	Yes
Mr	Chaitrashree S R	12 / 20	Yes	4	4	4	4	All	Yes
Mrs	Pushpanjali	12 / 20	Yes	5	5	5	5	All	Yes

HEAD  
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 Gandipet, Hyderabad-75



**CHAITANYA BHARATHI  
INSTITUTE OF TECHNOLOGY (A)**

Kokapet(Village), Gandipet, Hyderabad, Telangana-500075. [www.cbit.ac.in](http://www.cbit.ac.in)



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COMMITTED TO  
RESEARCH,  
INNOVATION AND  
EDUCATION

**41**  
years


**Report**

**on**

**AICTE Sponsored STTP on**

**“TRENDS & CHALLENGES OF HYBRID ELECTRIC DRIVE  
UTILITIES IN TRANSPORT SECTOR”**

**Ref No.34-65/RIFD/STT P/Policy-1/2018-19**

  
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Gandipet, Hyderabad-75



**CHAITANYA BHARATHI INSTITUTE OF TECHNOLOGY:: HYDERABAD  
(AUTONOMOUS)**

**AUDITED UTILIZATION CERTIFICATE**

Name of the scheme under which the amount was sanctioned: **SHORT TERM TRAINING PROGRAMME** for the technical institutions for the Academic Year 2018-19 during the Financial Year 2019-20

AICTE Sanction Order/Letter No.& Date under which the amount was sanctioned	Amount (Rs.)	- CERTIFICATE
File. No. 34-65/288/RIFD/STTP/Policy-1/2018-19 dated 10-01-2020	Grant Received Rs.3,00,000/- (Rupees Three Lakhs Only)	Certified that out of the grant-in-aid of <b>Rs.3,00,000/- (Three Lakhs)</b> sanctioned by the AICTE during the Financial Year 2019-20 as per the letter mentioned in the margin, a sum of <b>Rs, 1,92,689/- (Rupees One Lakh and Ninety Two Thousand Six Hundred and Eighty Nine Only)</b> has been utilized for the purpose for which it was sanctioned, and the balance of <b>Rs.1,07,311/- (One Lakh Seven Thousand Three Hundred and Eleven only)</b> remained unutilized at the end of the program.

Certified that I have satisfied myself that conditions on which the amount was sanctioned have been duly fulfilled and I have exercised the following checks to see that the money was actually utilized for the purpose for which it was sanctioned.

**Kinds of checks exercised:-**

1. Actual Expenditure

*A.S.V. Subhadra Devi*  
Place: CBIT, Hyderabad  
Smt. A. S. V. Subhadra Devi  
Superintendent, Chaitanya Bharathi Institute of Technology), Chaitanya Bharathi(Post), Gandipet, Hyderabad-500075

*G.P.S.*  
Signature of Head of the Institute  
Dr. G. P. Saradhi Varma, Principal,  
Chaitanya Bharathi Institute of Technology), Chaitanya Bharathi(Post), Gandipet, Hyderabad-500075

Full Address with Seal

Principal  
Chaitanya Bharathi Institute of Technology  
(Autonomous)  
Gandipet, Hyderabad-500 075.

Accounts Department  
**CBIT**

**For BOLLA & ASSOCIATES**  
Chartered Accountants  
FRN : 016237S  
*[Signature]*  
BOLLA NAVEEN KUMAR  
Partner  
MRN : 237218



Date: 19-03-2021

UDIN : 21237218-AAAACD1930

*[Signature]*  
**HEAD**  
Dept. of EEE, CBIT (A)  
Gandipet, Hyderabad-75

**CHAITANYA BHARATHI INSTITUTE OF TECHNOLOGY:: HYDERABAD**  
(AUTONOMOUS)  
**FOR RECEIPT AND PAYMENT ACCOUNT**  
(Financial Year 2020-21)

Ref.: Sanction Letter no File. No. 34-65/288/RIFD/STTP/Policy-1/2018-19 dated 10-01-2020

Sl. No	Date	Receipt	Amount (Rs)	Sl. No	Date	Payments	Amount (Rs)
1	10-01-2020	Amount Sanctioned by AICTE	3,00,000/-				
				1	17/12/2020	Dr. Umakantha Choudhury	9,000/-
				2	17/12/2020	Sri. G. Balawanth Reddy	3,000/-
				3	17/12/2020	Dr. Y. Chandrasekhar	6,000/-
				4	17/12/2020	Mr. M. Desai,	3,000/-
				5	17/12/2020	Sri Y.K. Lee	3,000/-
				6	17/12/2020	Mr. S. Ravi	3,000/-
				7	17/12/2020	Mr. S. Eswar Rao	3,000/-
				8	17/12/2020	Mr. Venkanna	3,000/-
				9	17/12/2020	Mr. Y. Rama Rao	3,000/-
				10	17/12/2020	Dr. P. V. N. Prasad	3,000/-
				11	17/12/2020	Mr. Jatil Sharma	3,000/-
				12	17/12/2020	Dr. R. Gopalan	3,000/-
				13	17/12/2020	Dr. G. Tulasi Ram Das	3,000/-
				14	17/12/2020	Honorarium to Course Coordinator	5,000/-
				15	17/12/2020	Computer Operator	3,000/-
				16	17/12/2020	Internet(Miscellaneous)	1,200/-
				17	25/01/2021	Dr. Umakantha Choudhury	18,000/-
				18	25/01/2021	Mr. M. Desai	4,500/-
				19	25/01/2021	Dr. P. Satish	4,500/-
				20	25/01/2021	Dr. Krishna Vasudevan	4,500/-
				21	25/01/2021	Dr. O. Chandrasekhar	4,500/-
				22	25/01/2021	Dr. V.T. Soma Sekhar	4,500/-
				23	25/01/2021	Dr. S. Venugopalan	4,500/-
				24	25/01/2021	Mr. Jatil Sharma	4,500/-
				25	25/01/2021	Honorarium to Course Coordinator	5,000/-
				26	25/01/2021	Computer Operator	3,000/-
				27	25/01/2021	Internet(Miscellaneous)	1,189/-



*25*

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Dept. of EEE, CBIT (A)  
Gandhinagar, Hyderabad

			28	Phase- III Expenditure	18/03/2021	Dr. Umakantha Choudhury	15,000/-
			29		18/03/2021	Raunak Choudhury	4,500/-
			30		18/03/2021	Mr. S. Ravi	4,500/-
			31		18/03/2021	Prof. V N Achutha Naikan	4,500/-
			32		18/03/2021	Prof. Krishna Vasudevan	4,500/-
			33		16/03/2021	Mr. M. Desai	4,500/-
			34		18/03/2021	Dr. NVPR Durga Prasad	3,000/-
			35		18/03/2021	Mr. Venkanna	3,000/-
			36		18/03/2021	Mr. S. Eswar Rao	4,500/-
			37		18/03/2021	Dr. G. Tulasi Ram Das	4,500/-
			38		18/03/2021	Dr.S.Venugopalan	4,500/-
			39		16/03/2021	Honorarium to Course Coordinator	5,000/-
			40		16/03/2021	Computer Operator	3,000/-
			41		18/03/2021	Miscellaneous	9,300/-
			42		18/03/2021	Auditor Fee	2,500/-
<b>Grand Total</b>		<b>3,00,000/-</b>			<b>Grand Total</b>	<b>1,92,689/-</b>	

A.S.V. Subhadra Devi  
Smt. A. S. V. Subhadra Devi  
Superintendent, Chaitanya Bharathi Institute of  
Technology, Chaitanya Bharathi(Post),  
Gandipet, Hyderabad-500075

Accounts Department  
CBIT

G.P.S. →  
Signature of Head of the Institute  
Dr. G. P. Saradhi Varma, Principal,  
Chaitanya Bharathi Institute of  
Technology, Chaitanya Bharathi(Post),  
Gandipet, Hyderabad-500075

Principal  
Chaitanya Bharathi Institute of Technology  
(Autonomous)  
Gandipet, Hyderabad-500075.

For BOLLA & ASSOCIATES  
Chartered Accountants

FRN : 0162378

BOLLA NAVEEN KUMAR  
Partner  
MRN : 237218



Place: CBIT, Hyderabad  
Date: 19-03-2021

HEAD  
Dept. of EEE, CBIT (A)  
Gandipet, Hyderabad-75



CHAITANYA BHARATHI  
INSTITUTE OF TECHNOLOGY

Date: 20.03.2021

To

The Manager,  
KICI Bank

Dear Sir,

Sub: Remittance of Amount by NEFT/RTGS

We enclose here with our Cheque No. 000432 dated 20.03.2021 for Rs.1,07,311/- drawn in your favour in your favour on A/c. No. 438501000041 and request you to send NEFT/RTGS Member, Secretary, AICTE, New Delhi as per details given here under.

Name of Beneficiary	:	Member, Secretary, AICTE, New Delhi
Beneficiary Bank Name	:	SBI
Beneficiary Account Number	:	5511100057
Beneficiary Branch Name	:	Shastri Bhawan, New Delhi
Beneficiary IFSC Code	:	SBIN0050203


Kindly acknowledge.

Thanking you

Yours Faithfully

For Chaitanya Bharathi Institute of Technology (A)

PRINCIPAL

  
PRESIDENT

26.03.2021



# All India Council for Technical Education

(A Statutory body under Ministry of HRD, Govt. of India)

Nelson Mandela Marg, Vasant Kunj, New Delhi-110070 Website: [www.aicte-india.org](http://www.aicte-india.org)



-STTP- Sanction Letter

Ref. No. 34-65/288/RIFD/STTP/Policy-1/2018-19

Date **10 JAN 2020**

To  
The Drawing and Disbursing Officer,  
All India Council for Technical Education,  
Nelson Mandela Marg,  
Vasant Kunj, New Delhi - 110070

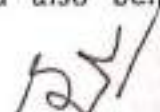
**Sub:** Release of grant for conduct of Short Term Training Programme (STTP) under AQIS 2018-19 during the financial year 2019-20- reg.

Sir,

This is to convey the sanction of the Council for payment of Rs. 300000 /- (Rupees Three Lakh Only) for conduct of Short Term Training Program as per details given below:-

1.	Name and address of the beneficiary University / Institution	CHAITANYA BHARATHI INSTITUTE OF TECHNOLOGY, CHAITANYA BHARATHI POST, GANDIPET, KOKAPET(VILL.) HYDERABAD. 500075 RANGAREDDI-500075 Telangana
2.	Permanent ID of Institute	1-4735791
3.	Institute type	Unaided - Private
4.	Name of Coordinator	Dr. MURALI TANGIRALA
5.	Amount sanctioned	Rs. 300000/-
6.	Amount to be released	Rs.300000/- Full & final payment
7.	Head of account	601.15(a) Gen. Short Term Training Programme (Plan)
8.	The authorized officer in whose favour Cheque/ Demand Draft/ RTGS is to be made	REGISTRAR / DIRECTOR / PRINCIPAL
9.	Title of the programme	Trends & Challenges of Hybrid Electric Drive Utilities in Transport Sector

1. The amount of the grant shall be drawn by the Drawing and Disbursing Officer, All India Council for Technical Education on the grant-in-aid bill and shall be disbursed to and credited to the Registrar/ Director/Principal of the institute through RTGS.
2. This grant-in-aid is being released in conformity with the terms & conditions as well as norms of the scheme as already communicated, and also being communicated in this letter.

  
HEAD

3. The Principal of the Institute and the Coordinator of the Program are requested to verify the correctness of the under-mentioned 'Bank Account' / RTGS Data submitted by them alongwith the proposals, in which the grant is being released:-

Institute PAN No.	Bank Name	Bank Branch Name	Bank Branch Address	Account Holder Name	Account Type	Account Number	IFSC Code
AABTC1906A	Andhra Bank	CBIT Campus, Kokapet Branch	CBIT post, Gandipet, Hyderabad	Chaitanya Bharathi Institute of Technology	Current Account	064311011000003	ANDB0000643

### Instructions/Guidelines to be followed by the University/Institution

#### I. Disbursement of funds to University/Institutions

- The full amount of the grant sanctioned is being released as advance to the University/Institute.
- The amount spent by the institute on the conduct of STTP shall be adjusted on the basis of utilization certificate and detailed expenditure statement submitted by the University/Institution on the prescribed format along with other mandatory documents viz feedback form, copy of proceedings and completion report etc.
- The above said amount of grant shall be refunded back to AICTE if the Letter of Approval (LOA) / Extension of Approval (EOA) is not issued by AICTE to the institute for the academic year 2019-20.

#### II Maintenance of Accounts

- The Institute shall strictly follow the provisions laid down in the scheme document as available on the portal.
- Funds covered by this grant shall be kept separately and would not be mixed up with other funds so as to know the amount of interest accrued on the grant.
- The University/College/Institute shall maintain proper accounts of the expenditure out of the grants, which shall be utilized only on approved items of expenditure.
- The grant is intended to cover items of expenditure connected with the Short Term Training Programme such as Boarding & Lodging to the participants, TA to outstation participants, Honorarium to Course Coordinator, reading material to participants, Honorarium to resource persons, TA/DA to resource persons including two outstations resource persons & working expenses (reprographic services, postage, transport, daily wages, tea/coffee etc.

#### III. Conduct of test and issuance of certificate

A test shall be conducted by Program Evaluation Committee (PEC) at the end of the program and the certificates shall be issued to those participants who have attended the program and have qualified in the test.

#### IV. Submission of Documents by the University/Institutions to AICTE

- The following mandatory relevant documents are required to be submitted to the University/Institution within one month of the completion of the program:

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Gandipet, Hyderabad-77

a. The following *mandatory relevant documents* are required to be submitted by the University/Institution within one month of the completion of the program:-

- (i) Original Statement of actual expenditure & Utilization Certificate in the prescribed proforma duly signed by the Head of the institution and countersigned by Registrar/Finance Officer/Govt. Auditor. In case of self-financing/private institutions, Statement of actual Expenditure & Utilization Certificate are required to be audited & signed and sealed by a Chartered Accountant endorsing the membership number and complete postal address. Format for the same is available on AICTE web portal.

The University/Institution is not required to submit bills/vouchers/invoices etc for the expenditure incurred out of recurring grants. However, such copies of bills/vouchers/invoices shall be digitized by respective institutions receiving grant and uploaded scanned copies of such bills/vouchers/invoices etc on the portal for availability and view at any point of time.

- (ii) Feedback form in the prescribed proforma.
- (iii) Copy of the proceedings and completion report.
- (iv) List of candidates who have successfully completed the program on the basis of the test conducted by Program Evaluation Committee (PEC).
- (v) Report submitted by Program Evaluation Committee (PEC).

b. The amount of the grant shall be adjusted on submission of utilization certificate & detailed expenditure statement by University/Institution. On receipt of these documents, the total amount of financial assistance, admissible as per the norms, shall be worked out and grant-in-aid adjusted.

#### V. General instructions

- a. Preferably 10% of the participants may be industry professionals deputed by industry. Further, not more than 2 participants shall be from the host institution/group of institutions.
- b. Money to be reimbursed on the grant (for any reasons to include unspent amount, interest, penalty if imposed) shall be refunded back to AICTE in the form of Demand Draft payable to Member Secretary, AICTE, New Delhi.
- c. As AICTE needs adequate time for depositing the Demand Draft in the bank, the same be immediately dispatched to avoid any lapse of the validity period.
- d. The STTP is a residential program of a duration of six days with minimum 40 participants. The approved STTP shall be conducted within three months from the date of release of funds.
- e. If programme is not conducted in the period of three months of the issuance of this Sanction Order, the released amount, alongwith interest accrued thereon, has to be necessarily returned back to AICTE within a month.
- f. The expenditure under the Heads 'Honorarium to Course Coordinator' and 'Honorarium to Resource Persons' shall not exceed 1% & 20% respectively of the total sanctioned grant for the Programme. However, overall expenditure shall not exceed the funds sanctioned for the Programme.

22/11  
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Gandipet, Hyderabad-75

- g. Any extra money required to complete the programme must be borne by the institute from their own resources. But the quality of the activities should not be compromised.
- h. Any unavoidable circumstantial change in the program with respect to name of Project Coordinator, Venue and date for organizing STTP would mandatorily require prior approval of the Council. All such requests should be addressed to AICTE, in advance, recording the specific reasons for proposed changes, failing which the offer for the grant already issued would be treated as automatically withdrawn and the financial assistance released in favour of the beneficiary institution shall be refunded immediately to the Council. Kindly mention the File No. 34-65/288/RIFD/STTP/Policy-1/2018-19 in your future correspondence.
- i. **Program Evaluation Committee (PEC)** is required to be constituted at institutional level. The constitution of the PEC shall be as under:
- (i) Principal/Director/Registrar of the institution (Chairperson).
  - (ii) Coordinator of the program (Member Secretary).
  - (iii) Two HoDs and one subject expert (members).

The members of the said PEC shall not be below the rank of Associate Professor. A test shall be conducted by Program Evaluation Committee (PEC) at the end of the program and the certificates shall be issued to those participants who have attended the program and have qualified in the test. The minutes of the meetings, along with PEC report, are to be submitted to the Council at end of the program along with other mandatory documents.

- j. **Gol GFR rules** (@<https://doe.gov.in/order-circular/general-financial-rules2017-0>) should be followed during utilization of grant.
- k. This Sanction Order may be treated as Offer Letter for all purposes.

**NOTE:- Any deviation from the above will invoke serious action against the Institute.**

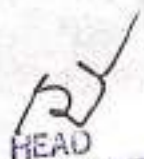
Yours sincerely,

  
(Dileep N Malkhede)  
Advisor-I (RIFD)

116 JAN 2020

Copy forwarded for information and necessary action to:-

1. **Name and Address of the Coordinator**  
Dr. MURALI TANGIRALA  
CHAITANYA BHARATHI INSTITUTE OF TECHNOLOGY  
CHAITANYA BHARATHI POST, GANDIPET, KOKAPET(VILL.) HYDERABAD. 500075  
HYDERABAD 500075 Telangana
2. **The Registrar / Director / Principal**  
CHAITANYA BHARATHI INSTITUTE OF TECHNOLOGY  
CHAITANYA BHARATHI POST, GANDIPET, KOKAPET(VILL.) HYDERABAD. 500075  
HYDERABAD 500075 Telangana
3. **Guard File**

  
HEAD  
Dept. of EEE, CBIT (A)  
Gandipet, Hyderabad-75





Phone : 011-26131375, 77, 78, 80  
Website : www.aicte-India.org



सत्यमेव जयते

अखिल भारतीय तकनीकी शिक्षा परिषद्

(भारत सरकार का एक शासित निकाय)

मानव संसाधन विकास विभाग, भारत सरकार

नेशनल मंदीरा मार्ग, नई दिल्ली-110067

ALL INDIA COUNCIL FOR TECHNICAL EDUCATION

(A Statutory Body of the Govt. of India)

Ministry of Human Resource Development, Govt. of India  
Nelson Mandela Marg, New Delhi-110067

Col. B. Venkat  
Director (FDC)  
E-mail: [director.fdc@aicte-india.org](mailto:director.fdc@aicte-india.org)  
Mob. No. 8130255472

25 June 2020

**Sub:-For information of AICTE approved institutes which have received grants for conducting STTP's/FDP's under AQIS 2018-19.**

Sir,

This is in reference to grants released by AICTE under AQIS 2018-19 for conduct of STTP's/FDPs. It is being observed that due to present circumstances of ongoing pandemic of COVID-19, most of Institutes are facing difficulties in organizing and conducting STTP's. This office has received a number of requests from various institute to allow on line method of conducting STTP/FDP to complete their commitments.

In this regard, it is to inform that all such institutes, which have already received grants for conducting STTP's/FDPs through prevailing contact mode, are allowed to conduct STTP's through online mode subject to following conditions:

- (i) The Institute will be allowed to adjust the grants received for STTP at following rates:-

a.	Honorarium for Coordinator	Rs. 5000.00
b.	Honorarium to experts	Rs. 75000.00
c.	Provision for payment to lab attendant engaged during lab practices	Rs. 3000.00
d.	miscellaneous charge	Rs. 10000.00
<b>Total for each STTP's</b>		<b>Rs 93000.00</b>

- (ii) The Institute will conduct more than one STTP's in multiples of Rs. 93000.00 within the total grant received by it and shall return the balance unspent amount to AICTE.

e.g.

if an Institute has received grant for STTP,	-Rs 3,00,000.00
Cost of three STTP	3x93000= Rs. 279000.00
<b>Balance</b>	<b>= Rs. 21,000.00</b>

The institute will return the balance unspent amount of Rs.21,000.00 alongwith interest earned on such amounts to AICTE while submitting UC for adjustment of accounts for keeping its eligibility for receiving grants in next AQIS.



सूचना का  
अधिकार

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Dept. of EEE, CBIT (A)  
Gandipet, Hyderabad-75

- (iii) The institute will conduct all three STTP's as explained above on the same topic which has been approved by AICTE while releasing the grants.
- (iv) Firm dates for each program will be intimated to AICTE beforehand.

On similar lines FDP (02 week program) to be conducted online has the following approval totaling to Rs. 1,86,000.00.

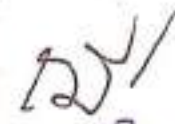
a.	Honorarium for Coordinator	Rs. 5000.00
b.	Honorarium to experts	Rs. 1,68,000.00
c.	Provision for payment to lab attendant engaged during lab practices	Rs. 3000.00
d.	miscellaneous charge	Rs. 10000.00
<b>Total for each FDPs</b>		<b>Rs 1,86,000.00</b>

The conducting of FDP's (two weeks program) shall be subjected to the similar conditions (i) to (iv) given above for conduct STTP courses, except rates of Honorarium to experts.

You are requested to acknowledge receipt of above guidelines and convey your consent if your institute is ready for conducting the STTP through online format on conditions explained above.

**It is once again reiterated that online conduct of FDP & STTP will be on explicit permission of AICTE.**

  
Yours sincerely,  
25 June 2020  
Director (FDC)

  
HEAD  
Dept. of EEE, CBIT (A)  
Gandipet, Hyderabad-75

**Fwd: CBIT, Hyderabad - Pandemic situation - Permission to conduct the STTP Online - Requested - Reg.**

Principal CBIT &lt;principal@cbit.ac.in&gt;

Sun, Aug 2, 2020 at 6:11 PM

To: EEE HEAD &lt;hod\_eee@cbit.ac.in&gt;, "Dr.T.Murali Krishna Assistant Professor" &lt;tmuralikrishna\_eee@cbit.ac.in&gt;

----- Forwarded message -----

From: Col B Venkat &lt;director.fdc@aicte-india.org&gt;

Date: Sun, Aug 2, 2020, 5:09 PM

Subject: Re: CBIT, Hyderabad - Pandemic situation - Permission to conduct the STTP Online - Requested - Reg.

To: Principal CBIT &lt;principal@cbit.ac.in&gt;

1. Conduct of 03 STTPs in online mode are hereby **approved**.

2. Following to be ensured

- Each STTP will be for 06 days from Monday to Saturday, followed by an online exam on last working day ie. Saturday. Certificates will only be issued to those participants who have attended regularly and qualify in the exam with minimum 60% marks.

- STTPs to be scheduled in such a manner that in a month only one is conducted (Space it out evenly so as to complete it by 31 Dec 2020).

- Post successful completion, balance unutilised amount along with interest generated will be returned by RTGS as per the letter.

- **Online link of the inauguration will be shared with this office for all the STTPs with an invite for the inaugural function.**

3. This will be treated as an official correspondence on the subject and will be enclosed at the time of submission of Final Utilisation certificate.

With warm regards,

Col B Venkat,

Director (Faculty Development)

AICTE, New Delhi

Mobile - 8130255472

On Fri, Jul 31, 2020 at 2:33 PM Principal CBIT &lt;principal@cbit.ac.in&gt; wrote:

Respected Sir,

Ref : 1. STTP- Sanctioned - L.No.34-65/288/RIFD/STTP/Policy-1/2018-19 dated.10-01-2020  
(Enclosed)

2. Letter issued by AICTE regrading this dated 25-06-2020. (Enclosed)

3. Brochure of STTP (Phase-1) -(Enclosed)

4. Tentative Schedule

This is to bring to your kind notice that the Department of Electrical and Electronics Engineering of our Institute got sanctioned with Rs.3,00,000/- to conduct STTP on "Trends and Challenges of Hybrid Electric Drive utilities in Transport sector" as Dr. T. Murali Krishna as coordinator, vide Ref.(1) cited above.

In this regard, it is contemplated to conduct the sanctioned STTP into THREE phases through on-line platform, vide reference (2) cited. In this connection, we request you to

HEAD  
Dept. of EEE, CBIT (A)  
Gandipet, Hyderabad-75

Date: 03-03-2020

Minutes of the meeting conducted on 3<sup>rd</sup> March, 2020.

Members Present:

1. Dr. P. Ravinder Reddy, Principal, CBIT
2. Dr. G. Suresh Babu, Prof & Head, Dept. of EEE,
3. Dr. U.K. Choudhury, Prof. Dept. of EEE,
4. Dr. T. Murali Krishna, Assoc. Prof, Dept. of EEE,
5. Smt. N.Vasantha Gowri, Asst. Prof, Dept. of EEE,

The meeting started with the greetings from the Head of the department.

Item No.1 :To form Program Evaluation Committee


Minutes : Principal Dr. P. Ravinder Reddy suggested the two HoD names Dr. D. Krishna Reddy & Dr. P. Suresh as PEC members and Prof. U.K. Choudhury as subject expert in PEC

Item No.2 : To discuss and finalize the schedule for STTP

Minutes : HoD asked the coordinator of STTP to prepare Brochure & Schedule for STTP from 20<sup>th</sup> - 25<sup>th</sup> April 2020,

Item No.3: Preparation of Schedule



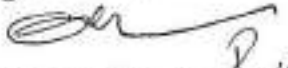

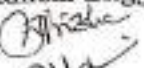

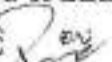
Minutes : The subject expert of this STTP, Dr. U. K. Choudhary has suggested resource persons for the phase 1. Dr. N. Vasantha Gowri & Sri. C. Harish are asked be the co-coordinators for Phase-1

  
HEAD  
Dept. of EEE, CBIT (A)  
Gandipet, Hyderabad-75

Date: 20-07-2020

Minutes of the meeting conducted on 20<sup>th</sup> July, 2020.

Members Present:

1. Dr. P. Ravinder Reddy, Principal, CBIT
2. Dr. G. Suresh Babu, Prof & Head, Dept. of EEE, 
3. Dr. U.K. Choudhury, Prof. Dept. of EEE, 
4. Dr. D. Krishna Reddy, Head, Dept. of ECE, 
5. Dr. P.V. R. Ravindra Reddy, Head, Dept. of Mechanical Engg., 
6. Dr. T. Murali Krishna, Assoc. Prof, Dept. of EEE, 
7. Smt. N. Vasantha Gowri, Asst. Prof, Dept. of EEE, 
8. Mr. M. Nagaraju, Asst. Prof, Dept. of EEE, 

The meeting started with the greetings from the Head of the department.

Item No.1 : To form Program Evaluation Committee

Minutes : Principal Dr. P. Ravinder Reddy suggested the two HoD names Dr. D. Krishna Reddy & Dr. P.V. R. Ravinder Reddy as PEC members and Prof. U.K. Choudhury as subject expert in PEC


Item No.2 : To Conduct STTP on on-line mode

Minutes : HoD asked the coordinator of STTP to prepare Brochure & Schedule for STTP to be conducted as per the AICTE guidelines in three phases and put up a letter to AICTE for approval. Tentative Schedules are as follows

First phase is from 3<sup>rd</sup> to 8<sup>th</sup> August 2020,  
Second phase is from 24<sup>th</sup> to 29<sup>th</sup> August 2020 and  
Third phase is from 7<sup>th</sup> to 12<sup>th</sup> September 2020.

Item No.3: Conduct of STTP

Minutes : Dr. N. Vasantha Gowri & Sri. M. Nagaraju are asked be the co-coordinators for Phase-1

  
HEAD  
Dept. of EEE, CBIT (A)  
Gandipet, Hyderabad-75

**TRENDS & CHALLENGES  
OF HYBRID ELECTRIC  
DRIVE UTILITIES IN  
TRANSPORT SECTOR-  
PHASE-II**

HEAD  
Dept. of EEE, CBIT (A),  
Hyderabad-75

CHAITANYA BHARATHI INSTITUTE OF TECHNOLOGY (A), HYDERABAD-75

Department of Electrical & Electronics Engineering

Date: 26-10-2020

Minutes of the meeting conducted on 26<sup>th</sup> October, 2020.

Members Present:

1. Dr. G. P. Saradhi Varma, Principal, CBIT *G.P.S.*
2. Dr. G. Suresh Babu, Prof & Head, Dept. of EEE, *G.S.*
3. Dr. U.K. Choudhury, Prof. Dept. of EEE, *U. Choudh*
4. Dr. D. Krishna Reddy, Head, Dept. of ECE, *D.K.R.*
5. Dr. P.V. R. Ravindra Reddy, Head, Dept. of Mechanical Engg., *P.V.R.*
6. Dr. T. Murali Krishna, Assoc. Prof, Dept. of EEE, *T.M.K.*
7. Mr. M. Nagaraju, Asst. Prof, Dept. of EEE, *M.N.*
8. Dr. N.V. Phanendra Babu, Asst. Prof, Dept. of EEE, *N.V.P.*

The meeting started with the greetings from the Head of the department.

Item No.1 : To form Program Evaluation Committee

Minutes : Principal Dr. G. P. Saradhi Varma asked the same members to be in PEC

Item No.2 : To Conduct STTP Phase-II on on-line mode

Minutes : HoD asked the coordinator of STTP to prepare Brochure & Schedule for STTP Phase -2 as per the AICTE guidelines and send the invitation link to AICTE.

Item No.3: Conduct of STTP

Minutes : Dr. U. K. Choudhary suggested resource persons for the STTP.

Sri. M. Nagaraju & Dr. N. V. Phanendra Babu are asked be the co-coordinators for Phase-2

*G.S.*  
HEAD  
Dept. of EEE, CBIT (A)  
Hyderabad-75

### CHIEF PATRON

Kavi Kireeti Dr. V MALAKONDA REDDY  
President, CBIT

### PROGRAM MONITORING COMMITTEE (PEC)

Prof. G. P. SARADHI VARMA (Chairman)  
Principal, CBIT

Prof. U. K. CHOUDHURY (Subject Expert)  
Director I&I, CBIT

Prof. G. SURESH BABU  
Head, Dept. of EEE

Prof. D. KRISHNA REDDY (Member)  
Head, Dept. of ECE

Prof. P.V.R. RAVINDRA REDDY (Member)  
Head, Dept. of Mechanical Engineering

Dr. T. MURALI KRISHNA  
(Coordinator-STTP & Member secretary-PEC)  
Associate Professor, Department of EEE

### CO-COORDINATORS

Sri M. NAGARAJU,  
Assistant professor, Dept. of EEE

Dr. N.V. PHANENDRA BABU,  
Assistant professor, Dept. of EEE

Dept. of EEE - CBIT (I&I)  
Hyderabad-75

Registration Fee

Free

### IMPORTANT DATES

Last date for Registration : 30-10-2020

Intimation of selection : 31-10-2020

### HOW TO APPLY

The applicants should fill the Registration Form through Google Forms using below link

E-certificate will be issued to those Participants who attend 80% of the sessions and clear the exam with 60% marks.

### FOR FURTHER DETAILS PLEASE CONTACT

E-mail: sttpees@cbit.ac.in

Mobile: 7702578106, 7013526685, 9866479770

### REGISTRATION LINK

<https://forms.gle/keJiThYkyxaGqwf9>



### AICTE – Sponsored SHORT TERM TRAINING PROGRAM (STTP)

Phase - II

on

### TRENDS & CHALLENGES OF HYBRID ELECTRIC DRIVE UTILITIES IN TRANSPORT SECTOR

02<sup>nd</sup> – 07<sup>th</sup> November, 2020

Organized by

DEPARTMENT OF ELECTRICAL AND  
ELECTRONICS ENGINEERING



## CHAITANYA BHARATHI INSTITUTE OF TECHNOLOGY(Autonomous)

CBIT, established in the Year 1979, has developed in Four Decades of its journey, as one of the Premier Engineering Institutes in INDIA, in Telangana State. The Institute offers Eleven UG and Eleven PG Programs into which Brilliant and Meritorious Candidates with good EAMCET Rank are seeking admissions at CBIT. CBIT Students are prepared and perfected holistically to secure Placements in reputed National and Multi-National Industries. Alumni, nearly 25,000 Graduate Engineers, are successfully placed in their Careers and as Entrepreneurs Globally. The Institute has been granted Autonomous.



### ABOUT THE DEPARTMENT

CBIT started Electrical & Electronics Engineering UG course in 1994 and was accredited thrice i.e. in years 2004, 2008 & 2013 by NBA. The intake was increased from 60 to 120 from the Academic Year 2013-14. The Department started offering a

course in Power Systems & Power Electronics in 2006 with an intake of 18 and was accredited by NBA in the year 2016. The Department has highly qualified and experienced faculty. The Department is having well equipped labs with latest Hardware & Software. The Department is also certified by ISO 9001:2008. The Department is recognized as Research Centre in 2017 by Osmania University to carry out research for the award of Ph.D. degree. The Department is keen on developing consultancy services and welcomes funding research from outside agencies. The Department in the year 2019-20 has received a funding of Rs.2,72,000 under AICTE-STTP Scheme for MATLAB Research Methodology project, Rs. 3,00,000 under AICTE-STTP scheme for Hybrid Electric Utilities Project and Rs.11,00,000 under AICTE-RPS Scheme for Development of Low-Cost Flexible Quality Conditioner to Mitigate Power Quality Issues and MODROBS for special electrical machines to the tune of Rs.17 Lakh.

### ABOUT THE FDP

Deterioration in air quality, global warming, and a decrease in petroleum resources are becoming the major threats to human beings. More and more stringent emissions and fuel consumption regulations are stimulating an interest in the development of safe, clean, and high-efficiency transportation. It has been well recognized that electric, hybrid electric, and fuel-cell powered drive train technologies are the most promising solutions to the problem of land transportation in the future. In recent decades,

the research and development activities related to of high efficiency, clean, and Modern Electric, Hybrid Electric, and Fuel Cell Vehicles safe transportation.

### TOPICS TO BE COVERED IN STTP

- ↓ Over View of Electric Vehicle & Govt. Policies
- ↓ Hybrid Electric Vehicle and its performance
- ↓ Electric Vehicle Mechanics and Modelling
- ↓ Power Converters for Electric Vehicles
- ↓ PM motor Drives for EVs
- ↓ Induction Machine Drives for EVs
- ↓ High Energy Batteries
- ↓ Charging Stations & Wireless Chargers
- ↓ Testing & Certification
- ↓ PWM Techniques for Inverters

### RESOURCE PERSONS

Resource Persons will be from Renowned Institutions such as IIT's/NIT's, Industries like Tata Motors, and host Institution.

### TARGET GROUP

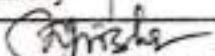
The STTP is expected to benefit Engineers, Scientists, Researchers and Academicians who are working / Teaching / studying in the area of Hybrid Electric Vehicles.




AICTE – Sponsored Short Term Training Program (STTP-Phase-2) Schedule

On  
**TRENDS & CHALLENGES OF HYBRID ELECTRIC DRIVE UTILITIES IN TRANSPORT SECTOR**  
02<sup>nd</sup> - 07<sup>th</sup> November 2020

	11.30 AM – 1.00 PM		2.30 PM – 4.00 PM
02-11-2020 Monday	Overview of Electric Mobility, Policy and Guidelines, National and International Trends and Challenges Dr. U.K. Choudhury, Prof. & Director(I&I), CBIT, (Ex ED, CTM, BHEL)	Lunch break	Permanent Magnet Motor drives for Electric Vehicle Dr. U.K. Choudhury, Prof. & Director(I&I), CBIT, (Ex ED, CTM, BHEL)
03-11-2020 Tuesday	Hybrid Electric Vehicle, Series/Parallel Hybrid, Plug-in Hybrid Vehicle Dr. U.K. Choudhury, Prof. & Director(I&I), CBIT, (Ex ED, CTM, BHEL)		Advances in Multi-Level Inverters Dr. P. Satish Kumar, Associate Professor, Dept. of EEE, Osmania University
04-11-2020 Wednesday	Electric Hybrid Vehicle Mechanics, Modelling and Performance Calculation Dr. U.K. Choudhury, Prof. & Director(I&I), CBIT, (Ex ED, CTM, BHEL)		Design and Analysis of Power Converters for Electric Vehicles, Dr. Krishna Vasudevan, Professor, IIT Chennai
05-11-2020 Thursday	Power Converters for Hybrid Electric Vehicle Dr. O. Chandrasekhar, Associate Professor, Dept. of EE, NIT-Srinagar		Open-end winding Induction Motor Drives Dr. V.T. Soma Sekhar, Professor, Dept. of EE, NIT-Warangal
06-11-2020 Friday	Testing and Certification Mr. Manoj Desai, General Manager, ARAI, Pune		High Energy Batteries for EV Applications Dr. S. Venugopalan, Prof. PES College of Engg. (Ex ISRO Official)
07-11-2020 Saturday	Electric Vehicle for Transport Application Mr. Jatil Sharma, MD, Tejaswi Green Engg. Pvt. Ltd.		Test, Feedback and valedictory

  
Coordinator-STTP

  
HoD - EEE, CBIT

HEAD  
Dept. of EEE, CBIT (A)  
Gandipet, Hyderabad-75

Report on AICTE Sponsored STTP on "TRENDS & CHALLENGES OF HYBRID ELECTRIC DRIVE UTILITIES IN TRANSPORT SECTOR" during 02<sup>nd</sup> - 07<sup>th</sup> November 2020

Totally 84 participants from 8 states registered for the STTP, but 58 participants regularly attended the program out of which 48 received certificates by clearing the end examination with equal to or more than 60% in which was conducted on the last day i.e. on 07-11-2020. Every day two sessions are conducted (one in the morning and one in the evening) which is of 1 ½ hour duration. The program was conducted on google-meet platform. After the completion of each session the attendance and feedback forms are shared in the chat box. The detailed report of each session is given below.

02-11-2020

Session-1

Time: 11:30 AM to 01:10 PM

Speaker: Dr. U.K. Choudhury, Prof. & Director(I&I), CBIT, (Ex ED, CTM, BHEL)

Topic: Introduction to Electric Mobility, Policy and Guidelines, Trends and Challenges

The session started with drivers for electric mobility, present scenario & challenges, govt initiatives and forecast, types of EVs, HEVs and their components, fuel cell EV, charging infrastructure and technology, strategy for R&D and manufacturing and opportunities. Then he discussed about electric vehicle components of pure electric vehicle with front wheel drive, back wheel drive and four-wheel drive. He also explained about rechargeable battery electric vehicle. Sir shown a statistic of usage of cars in all over the world along with Indian EV market growth in 2020.

02-11-2020

Session-2

Time: 02:30PM to 04:00 PM

Speaker: Dr. U.K. Choudhury, Prof. & Director(I&I), CBIT, (Ex ED, CTM, BHEL)

Topic: Permanent Magnet Motor Drives for Electric Mobility

In this session, the design aspects, advantages, classification and applications of the permanent magnet machines are discussed. The performance requirement of electric vehicle in terms of torque density, power density speed range, efficiency, hill climbing, intermittent overload capacity, overtaking, reliability, robustness, low acoustic noise and reasonable cost are discussed. Sir shown different pictures of permanent magnets, precision thin material, flexible magnets and the comparison between various magnets are discussed. Domain movement during magnetization, magnetizer and critical points for permanent magnet generators are deliberated.

03-11-2020

Session-1

Time: 11:30 AM to 1:00 PM

Speaker: Dr. U.K. Choudhury, Prof. & Director(I&I), CBIT, (Ex ED, CTM, BHEL)

Topic: Hybrid Electric Vehicle, Series/Parallel Hybrid, Plug-in Hybrid Vehicle

Session started with the basic components of Power electronics, Significance of Static switches, PI control gains in the design of power converters, Importance of IGBT in the medium voltage high current applications, Intelligent power modules, Latest materials used in power devices like Silicon carbide, Gallium Arsenide, Thin Film, Superconductors etc. then presented the types of electric vehicles, Basic design aspect of converters like Importance of technical specifications, Application standards, selection of semiconductor device, EMI/EMC standards, DC link capacitor. The continued with Scalar & vector control of induction motor.

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Campus, Hyderabad-75

03-11-2020

Session-2

Time: 02:30 PM to 04:00 PM

Speaker: Dr. P. Satish Kumar, Associate Professor, Dept. of EEE, Osmania University

Topic: Advances in PWM techniques for Inverters

The resource person has given overview of Space-Vector pulse width modulation-based algorithm for multilevel inverters. He explained different pulse width modulation techniques used for multilevel inverters. He started with conventional two-level inverter operation and he focussed on detailed explanation of space-vector pulse width modulation technique. He has shown the comparison between two level and three level inverters in various parameters.

04-11-2020

Session-1

Time: 11:30 AM to 1:00 PM

Speaker: Dr. U.K. Choudhury, Prof. & Director(I&I), CBIT, (Ex ED, CTM, BHEL)

Topic: Electric Hybrid Vehicle Mechanics, Modelling and Performance Calculation

The session started with a description on series and parallel electric vehicle and regenerative braking in electric vehicles, and the comparison of TCO and payback for electric vs diesel buses. The variation of braking with respect to deceleration rate has explained. The concept of rolling resistance and grading resistance of road has been discussed for different types of roads. The torque development of the motor with respect to different surfaces is explained. Later, he discussed about aero dynamics concept of wind pressure on vehicle. How the rolling resistance varies with the speed of the vehicle has shown in the graph.

04-11-2020

Session-2

Time: 02:30 PM to 04:00 PM

Speaker: Dr. Krishna Vasudevan, Professor, IIT Chennai

Topic: Design and Analysis of Power Converters for Electric Vehicles

Sir started the session with steps involved for designing an inverter. He explained the selection procedure for power device based on current rating and power loss. Heat sink design considerations explained for inverter. Then he differentiated between diode voltage drop and IGBT voltage drop during selection of power device. The design of DC bus with a decoupling capacitor has been discussed. He also given detailed description about gate driver circuits by considering dead time and its effects.

05-11-2020

Session-1

Time: 11:30 AM to 1:00 PM

Speaker: Dr. O. Chandrasekhar, Associate Professor, Dept. of EE, NIT-Srinagar

Topic: Power Converters for Hybrid Electric Vehicle

In this lecture, sir has given a detailed explanation of converter regarding objective, applications, IEC standards, general representation of converters. He compared various topologies implemented and available for converters and implementation of IB3 converter. For a given duty cycle what is a simulated voltage and what is a theoretical voltage also been explained. Then the same voltages have observed with different duty cycle. He has shown graphical explanation of power factor, efficiency and ripple content with respect to duty cycle variation. He also discussed the total

HEAD  
Dept. of EEE, CBIT (A) 2  
Hyderabad-75

Report on AICTE Sponsored STIP on "TRENDS & CHALLENGES OF HYBRID ELECTRIC DRIVE UTILITIES IN TRANSPORT SECTOR" during 02<sup>nd</sup> - 07<sup>th</sup> November 2020

harmonic distortion by varying the voltage from 90 volts to 260 volts, and load with different impedances. for a proposed topology.

05-11-2020

Session-2

Time: 02:30 PM to 04:00 PM

Speaker: Dr. V.T. Soma Sekhar, Professor, Dept. of EE, NIT-Warangal

Topic: Open-end winding Induction Motor Drives

This session started with two level inverter concepts. The switches toggling, current waveform and voltage waveform has been explained with wave shape and it is non sinusoidal. Then he discussed the drawback of non-sinusoidal voltage given to induction motor. And sir discussed about pole voltage, motor phase voltage and common mode voltage with calculation of motor phase voltage with remaining two voltages. Sir has given detailed description of switching states and null states of two level inverter with total harmonic spectra with modulation and without modulation. He said how to get three level from two level inverter using space vector modulation. Then neutral point clamped and cascaded inverter concepts have been explained. He focussed on open end winding induction motor with isolated DC source. How to reduce the effect of zero sequence currents also been discussed.

06-11-2020

Session-1

Time: 11:30 AM to 1:00 PM

Speaker: Mr. Manoj Desai, General Manager, ARAI

Topic: Testing and Certification

This session is on testing and certification of electric vehicles. Sir has explained why the standards are required and salient features of electric vehicle. The regulation frame work and the rules followed by vehicle certification of less than 250 watts rating. Also discussed about type approval testing with verification, safety and performance. Then the battery management systems and their performance has been discussed. He focussed on ARAI approaches such as AIS 038 for M and N vehicles, AIS 156 high category vehicle. Described about the AIS 157 and 168 for fuel cell and agricultural. The classification and standards for battery charging stations also depicted. The phase-2 of FAME scheme implemented by govt of India is also been discussed.

06-11-2020

Session-2

Time: 02:30 PM to 04:00 PM

Speaker: Dr. Venugopal, Ex- ISRO official.

Topic: High Energy Batteries and Performance

Started with definition of battery and its specifications like energy density, power density and safety. Classification of batteries based on active materials, electrolytes, and case materials etc. And then he discussed about various materials used for anode, cathode, separator and electrolyte etc. He quoted about evolving process of Lithium manganese aluminium oxides in the battery technology. Sir has focussed more on progress of Lithium ion, silicon anode and try electrode. Then he discussed about electric vehicle battery pack design trade off. He quoted about aerodynamics and electric vehicles in the city limits. National Automotive testing R&D infrastructure project is also been discussed. Sir explained about battery swapping also.

HEAD  
Dept. of EEE, CBIT (A)  
Raddipet, Hyderabad-75

Report on AICTE Sponsored STTP on "TRENDS & CHALLENGES OF HYBRID ELECTRIC DRIVE UTILITIES IN TRANSPORT SECTOR" during 02<sup>nd</sup> - 07<sup>th</sup> November 2020

07-11-2020


Session-1

Time: 11:30 AM to 1:00 PM

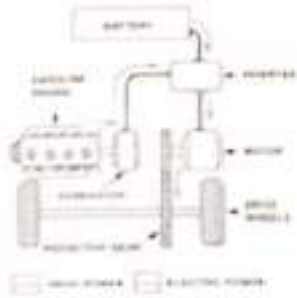
Speaker: Mr. Jatil Sharma, MD, Tejaswi Green Engg. Pvt. Ltd.

Topic: Electric Vehicle for Transport Application

The vehicles landscape in India is introduced by the resource person. Discussed about EVs, BEVs, ZEVs & BOU etc., electric vehicles viabilities like charging infrastructure, increased efficiency, reduction of cost and policies related to motor drive technology. He more focused on innovation, life cycle, project management. Then continued with the products developed for various applications like EVs in golf-carts, vehicles for cleaning of solar panels, e-ambulances in hospitals, missile carriers in defence sector, vehicles for vigilance & security, forest & tourism, public health and sanitation by Tejaswi GreenEngg. Pvt. Ltd.

  
HEAD  
Dept. of EEE, CBIT (A)  
Hyderabad-75

### Series Hybrid EV




- Petrol engine runs a generator
- Generator may either charge the batteries or power an electric motor that drives the transmission

- Lower fuel cost
- Reduced nitrogen emissions
- recovers energy from braking
- IC engine can run at constant speed, thus increases the engine efficiency
- Reduced IC engine capacity
- Best suited for city transport

Engine/Motor Capacity
Engine
Motor

Series hybrid is the most popular hybrid technology for city transport



  
HEAD  
Dept. of EEE, CBIT (A)  
Hyderabad-75

**AICTE – Sponsored Short Term Training Program (STTP-Phase-2)**  
**On**  
**TRENDS & CHALLENGES OF HYBRID ELECTRIC DRIVE UTILITIES IN TRANSPORT SECTOR**  
**02<sup>nd</sup> - 07<sup>th</sup> November 2020**

List of participants shortlisted for Certificates

PDF No.	Participant Name (which you want to be printed on the certificate)	Registered Email	Name of the College/Industry
2	S Manohar Reddy	sayri.manohar@gmail.com	S Manohar Reddy
3	Yassar Arfat	yassar@bgsbu.ac.in	Department Electrical Engineering SoET BGSB University Rajouri J&K UT India
4	R Chander	chander.ramavath@gmail.com	University college of engineering osmania University Hyderabad
5	Dr. K MUTHU	mkrithivasan283@gmail.com	Institute of Chemical Technology, Taramani, Chennai 113
6	Dr.P.MARISH KUMAR	p.marishkumar@gmail.com	EASWARI ENGINEERING COLLEGE
7	SRINU BHUKYA	srinu.bhukya@gmail.com	OSMANIA UNIVERSITY
8	SUDHIR KUMAR SHARMA	sudhirs390@gmail.com	SLIET LONGOWAL
9	ABHAS KUMAR SINGH	abhasnith@gmail.com	IEEE (MEMBER)
10	Amar Nath seh	amar@nil.ac.in	National Institute of Immunology
11	ENUMULA MANOJ	enumulamanoj@gmail.com	Jayamukhi Institute of Technological Sciences
12	Madgula Satyanarayana	m.satya78@gmail.com	Jayamukhi institute of technological sciences
13	BIBHU PADARBINDA MOHANTY	bibhu.cetb@gmail.com	COLLEGE OF ENGINEERING AND TECHNOLOGY, BHUBANESWAR
14	Edara V C Sekhara Rao	sekhararao_eee@mvsrec.edu.in	M. V. S. R. Engineering College
15	Venkateswarlu Velisala	2venkee@gmail.com	VKR VNB & AGK College of Engineering
16	BURRI ANKAIAH	anks202@gmail.com	REVA University
17	VIKRAM SINGH BHATI	bhati.vikram2@gmail.com	ARYA COLLEGE OF ENGINEERING AND INFORMATION TECHNOLOGY
18	M.VENKATACHALAM	venkatachalam.m@eec.srmmp.edu.in	EASWARI ENGINEERING COLLEGE
19	K.V.THILAGAR	thilagar.v@eec.srmmp.edu.in	Easwari Engineering College
20	PRITAM SINGHA RAY	pritam.singha.ray@gmail.com	Bankura Government Polytechnic
21	PRAKASH C	prakashvaiju@gmail.com	JCT COLLEGE OF ENGINEERING AND TECHNOLOGY
22	MD SAZZAD	alimd31809@gmail.com	ARKA JAIN UNIVERSITY JAMSHEDPUR JHARKHAND
23	RASMIRANJAN SAMAL	rasmiranjan.samal@silicon.ac.in	SILICON INSTITUTE OF TECHNOLOGY SAMBALPUR

Dept. of EEE, CBIT (A)  
 Secy, Hyderabad-75

HEAD



24	KIRAN YADDANAPUDI	kiran045@gmail.com	Jawahar Lal Nehru Technological University Hyderabad, Hyderabad
25	P. RAMKISHORE KUMAR REDDY	prkkreddy252@gmail.com	Mahatma Gandhi Institute of Technology
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28	KOLA SURESH KUMAR	kolasuresh18@gmail.com	ANURAG COLLEGE OF ENGINEERING
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30	Elisha Undeti	elisha27u@gmail.com	Vasavi College of Engineering
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33	Mrs.N.PRIYA	priya.n@eec.srmmp.edu.in	EASWARI ENGINEERING COLLEGE
34	S.Rajesh	rajesh118@gmail.com	University College of engineering Osmania University
35	ARUL SELVAN S	arul.automobile@gmail.com	MADRAS INSTITUTE OF TECHNOLOGY
36	CHENNAIAH BANOTH	banoth.chennaiah@gmail.com	JNAFA UNIVERSITY
37	JAGDISH PITAMBAR DHOLWANI	jagdishdholwani@gmail.com	NATIONAL INSTITUTE OF TECHNOLOGY SILCHAR ASSAM
38	V RAJA KUMAR	coolvrajakumar@gmail.com	GITAM DEEMED TO BE UNIVERSITY
39	Ms.R.RAMYA	chanmaya.17@gmail.com	K.S.K COLLEGE OF ENGINEERING AND TECHNOLOGY
40	Dr.M.RAJMAL JOSHI	rajmaljoshi@gmail.com	PANIMALAR ENGINEERING COLLEGE
41	CHADARAM CHANDRA SEKHAR	cschandu.chandra@gmail.com	NIT WARANGAL
42	Dr. ANANTHABABU PALAPARTHI	ananthasnet@gmail.com	Malla Reddy Engineering College(Autonomous)
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44	VIGNESH G	vignesh.g@eec.srmmp.edu.in	Easwari Engineering College
45	TIPRISETTI RAKESH	tiprisettirakesh21@gmail.com	University College of Engineering Osmania University
46	GOTTIPATI MADHURI	gottipati.madhuri@gmail.com	Vignan Institute of Technology and Science
47	N NAGESWARA REDDY	nageshreddy218@gmail.com	NIT TIRUCHIRAPPALLI
48	S.KARKUZHALI	skarkuzhali.eee@rmd.ac.in	R.M.D. ENGINEERING COLLEGE

Coordinators

Head of the Department, EEE, CBIT(A)

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Dept. of EEE, CBIT (A)  
Gandipet, Hyderabad-75

# AICTE\_STTP2\_CBIT\_Exit-Feedback & Quiz

\* Required

1. Participant's Registered ID \*

---

2. Participant Name (which you want to be printed on the certificate) \*

---

3. Registered Email \*

---


4. Participant Designation \*

*Mark only one oval.*

- Student
- Assistant Professor
- Associate Professor
- Professor
- Industry Personnel
- Research scholar

5. Department \*

---

  
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Hyderabad-75

6. Name of the College/Industry \*

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---

---

7. Do you think the event helps in your future works? \*

Mark only one oval.

- Yes
- No
- Maybe

8. How do you rate the planning of the event? \*

Mark only one oval.

	1	2	3	4	5	
Poor	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	Excellent

9. How do you rate the conduction of the event? \*

Mark only one oval.

	1	2	3	4	5	
Poor	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	Excellent

  
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[https://docs.google.com/forms/d/1C\\_4Bu3RVS2fp94OzLz77CoddIamym2qBxT1hlz0YaVek/edit](https://docs.google.com/forms/d/1C_4Bu3RVS2fp94OzLz77CoddIamym2qBxT1hlz0YaVek/edit)

10. How about the quality of the lectures? \*

Mark only one oval.

	1	2	3	4	5	
Poor	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	Excellent

11. What is your level of satisfaction with this event? \*

Mark only one oval.

	1	2	3	4	5	
Less	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	Most

12. Which aspect of the event did you like most? \*

Mark only one oval.

- planning
- conduction
- Resource persons
- All
- Other: \_\_\_\_\_

13. Are you likely to participate in our events in the future? \*

Mark only one oval.

- Yes
- No

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14. What are the technical areas you are expecting from us in our future events? \*

---

15. Any suggestions/Requests? \*

---

---

---

---

---

### Quiz

16. 1. The standards/regulations are to be approved for \_\_\_ \*

1 point

*Mark only one oval.*

- social demand
- technology advancement
- c. performance requirements
- d. All the above

17. 2. What is the standard used for testing the electric shock of electric vehicles? \*

1 point

*Mark only one oval.*

- AIS 38
- AIS 39
- AIS 40
- AIS 41

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18. 3. Standard AIS-048 is for \_\_\_\_ \*

1 point

Mark only one oval.

- construction test for EVs
- performance and abuse testing of traction batteries
- Electric shock testing
- Energy consumption testing of EVs

19. 4. In the dc-dc converter, conversion ratio (M) is a function of \_\_\_\_ \*

1 point

Mark only one oval.

- input voltage
- input frequency
- duty ratio
- number of switching devices

20. 5. Un-abbreviate IB3 \*

1 point

Mark only one oval.

- integrated buck-buck-boost
- integrated boost-buck-boost
- integrated buck-boost-buck
- integrated bipolar-buck-boost



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21. 6. How many resistors are required to model the thermal modeling of a power device? \* 1 point

Mark only one oval.

- 1  
 2  
 3  
 4

22. 7. Specific heat of aluminum \_\_\_\_\_, J/kg/K \* 1 point

Mark only one oval.

- 750  
 800  
 850  
 900

23. 8. In an inverter, the diode voltage drop and IGBT voltage drop are \* 1 point

Mark only one oval.

- same  
 different

24. 9. In the inverter, the decoupling capacitor must not be placed closer to the inverter device. \* 1 point

Mark only one oval.

- True  
 False

25. 10. What is the mobile-ion in an Alkaline Fuel cell? \*

1 point

Mark only one oval.

- $\text{OH}^+$
- $\text{OH}^-$
- $\text{O}_2^+$
- $\text{O}_2^-$

26. 11. BMS stands for \*

1 point

Mark only one oval.


- battery management system
- battery monitoring system
- battery maintenance system
- battery making system

27. 12. Pure Electric Vehicle consists \*

1 point

Mark only one oval.

- only batteries
- only electric motors
- batteries and ICEs
- batteries and electric motors

  
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28. 13. The energy source for FEVs is \*

1 point

Mark only one oval.

- electricity
- liquid fuel
- gaseous fuel
- hydrogen

29. 14. Which type of Electric Vehicles is suitable for city transportation? \*

1 point

Mark only one oval.

- series type
- parallel type

30. 15. battery converts \_\_\_\_\_ \*

1 point

Mark only one oval.

- heat to electrical energy
- chemical energy to electrical energy
- electrical energy to chemical energy
- strain to electrical energy

31. 16. Disadvantage of electric vehicles \*

1 point

Mark only one oval.

- clean energy
- zero emission
- mileage range
- energy saving

32. 17. In electric vehicles, the battery will be connected to the propulsion motor through \_\_\_\_\_ \* 1 point

Mark only one oval.

- Rectifier  
 DC capacitor  
 Inverter  
 dc-dc converter

33. 18. The value of pole voltage in a 3phase, 2-level inverter is \* 1 point

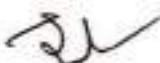
Mark only one oval.

- $V_d/2$   
 0  
  $V_d$   
 0 and/or  $V_d$

34. 19. To synthesize pure sinusoidal, an N-level inverter should possess \_\_\_\_\_ number of switching states \* 1 point

Mark only one oval.

- $2N$   
  $3N$   
  $9N$   
 Infinite

  
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Osaidpet, Hyderabad-75

35. 20-bit 2-level tree has. How null states are?

1 point

Mark only one oval

- 1(0,0)
- 2(0,0)
- 3(0,0)
- 4(0,0)

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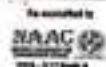
Google Forms

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Gandipet, Hyderabad-75



**CHAITANYA BHARATHI  
INSTITUTE OF TECHNOLOGY (A)**

Kokapet(Village), Gandipet, Hyderabad, Telangana-500075. [www.cbit.ac.in](http://www.cbit.ac.in)



ISO  
9001:2015

COMMITTED TO  
RESEARCH,  
INNOVATION AND  
EDUCATION

**41**  
years


**Report**

**on**

**AICTE Sponsored STTP on**

**“TRENDS & CHALLENGES OF HYBRID ELECTRIC DRIVE  
UTILITIES IN TRANSPORT SECTOR”**

**Ref No.34-65/RIFD/STT P/Policy-1/2018-19**

  
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Gandipet, Hyderabad-75

CHAITANYA BHARATHI INSTITUTE OF TECHNOLOGY:: HYDERABAD  
(AUTONOMOUS)

AUDITED UTILIZATION CERTIFICATE

Name of the scheme under which the amount was sanctioned: SHORT TERM TRAINING PROGRAMME for the technical institutions for the Academic Year 2018-19 during the Financial Year 2019-20

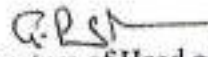
AICTE Sanction Order/Letter No.& Date under which the amount was sanctioned	Amount (Rs.)	- CERTIFICATE
File. No. 34-65/288/RIFD/STTP/Policy-1/2018-19 dated 10-01-2020	Grant Received Rs.3,00,000/- (Rupees Three Lakhs Only)	Certified that out of the grant-in-aid of Rs.3,00,000/- (Three Lakhs) sanctioned by the AICTE during the Financial Year 2019-20 as per the letter mentioned in the margin, a sum of Rs, 1,92,689/-(Rupees One Lakh and Ninety Two Thousand Six Hundred and Eighty Nine Only) has been utilized for the purpose for which it was sanctioned, and the balance of Rs.1,07,311/-(One Lakh Seven Thousand Three Hundred and Eleven only) remained unutilized at the end of the program.

Certified that I have satisfied myself that conditions on which the amount was sanctioned have been duly fulfilled and I have exercised the following checks to see that the money was actually utilized for the purpose for which it was sanctioned.

Kinds of checks exercised:-

1. Actual Expenditure

A.S.V. Subhadra Devi  
Place: CBIT, Hyderabad  
Smt. A. S. V. Subhadra Devi  
Superintendent, Chaitanya Bharathi Institute of Technology), Chaitanya Bharathi(Post), Gandipet, Hyderabad-500075

  
Signature of Head of the Institute  
Dr. G. P. Saradhi Varma, Principal,  
Chaitanya Bharathi Institute of Technology), Chaitanya Bharathi(Post), Gandipet, Hyderabad-500075

Full Address with Seal

Principal  
Chaitanya Bharathi Institute of Technology  
(Autonomous)  
Gandipet, Hyderabad-500 075.

Accounts Department  
CBIT

For BOLLA & ASSOCIATES  
Chartered Accountants

FRN : 016237S

  
BOLLA NAVEEN KUMAR  
Partner  
MRN : 237218



Date: 19-03-2021

UDIN : 21237218-AAAACD1930

  
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Gandipet, Hyderabad-75

**CHAITANYA BHARATHI INSTITUTE OF TECHNOLOGY:: HYDERABAD**  
(AUTONOMOUS)  
**FOR RECEIPT AND PAYMENT ACCOUNT**  
(Financial Year 2020-21)

Ref.: Sanction Letter no File. No. 34-65/288/RIFD/STTP/Policy-1/2018-19 dated 10-01-2020

Sl. No	Date	Receipt	Amount (Rs)	Sl. No	Date	Payments	Amount (Rs)
1	10-01-2020	Amount Sanctioned by AICTE	3,00,000/-				
				1	17/12/2020	Dr. Umakantha Choudhury	9,000/-
				2	17/12/2020	Sri. G. Balawanth Reddy	3,000/-
				3	17/12/2020	Dr. Y. Chandrasekhar	6,000/-
				4	17/12/2020	Mr. M. Desai,	3,000/-
				5	17/12/2020	Sri Y.K. Lee	3,000/-
				6	17/12/2020	Mr. S. Ravi	3,000/-
				7	17/12/2020	Mr. S. Eswar Rao	3,000/-
				8	17/12/2020	Mr. Venkanna	3,000/-
				9	17/12/2020	Mr. Y. Rama Rao	3,000/-
				10	17/12/2020	Dr. P. V. N. Prasad	3,000/-
				11	17/12/2020	Mr. Jatil Sharma	3,000/-
				12	17/12/2020	Dr. R. Gopalan	3,000/-
				13	17/12/2020	Dr. G. Tulasi Ram Das	3,000/-
				14	17/12/2020	Honorarium to Course Coordinator	5,000/-
				15	17/12/2020	Computer Operator	3,000/-
				16	17/12/2020	Internet(Miscellaneous)	1,200/-
				17	25/01/2021	Dr. Umakantha Choudhury	18,000/-
				18	25/01/2021	Mr. M. Desai	4,500/-
				19	25/01/2021	Dr. P. Satish	4,500/-
				20	25/01/2021	Dr. Krishna Vasudevan	4,500/-
				21	25/01/2021	Dr. O. Chandrasekhar	4,500/-
				22	25/01/2021	Dr. V.T. Soma Sekhar	4,500/-
				23	25/01/2021	Dr. S. Venugopalan	4,500/-
				24	25/01/2021	Mr. Jatil Sharma	4,500/-
				25	25/01/2021	Honorarium to Course Coordinator	5,000/-
				26	25/01/2021	Computer Operator	3,000/-
				27	25/01/2021	Internet(Miscellaneous)	1,189/-



*SV*

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Dept. of EEE, CBIT (A)  
Gandhinagar, Hyderabad

			28	Phase- III Expenditure	18/03/2021	Dr. Umakantha Choudhury	15,000/-
			29		18/03/2021	Raunak Choudhury	4,500/-
			30		18/03/2021	Mr. S. Ravi	4,500/-
			31		18/03/2021	Prof. V N Achutha Naikan	4,500/-
			32		18/03/2021	Prof. Krishna Vasudevan	4,500/-
			33		16/03/2021	Mr. M. Desai	4,500/-
			34		18/03/2021	Dr. NVPR Durga Prasad	3,000/-
			35		18/03/2021	Mr. Venkanna	3,000/-
			36		18/03/2021	Mr. S. Eswar Rao	4,500/-
			37		18/03/2021	Dr. G. Tulasi Ram Das	4,500/-
			38		18/03/2021	Dr. S. Venugopalan	4,500/-
			39		16/03/2021	Honorarium to Course Coordinator	5,000/-
			40		16/03/2021	Computer Operator	3,000/-
			41		18/03/2021	Miscellaneous	9,300/-
			42		18/03/2021	Auditor Fee	2,500/-
<b>Grand Total</b>		<b>3,00,000/-</b>			<b>Grand Total</b>	<b>1,92,689/-</b>	

A.S.V. Subhadra Devi  
Smt. A. S. V. Subhadra Devi  
Superintendent, Chaitanya Bharathi Institute of  
Technology, Chaitanya Bharathi (Post),  
Gandipet, Hyderabad-500075

Accounts Department  
CBIT

G.P.S. →  
Signature of Head of the Institute  
Dr. G. P. Saradhi Varma, Principal,  
Chaitanya Bharathi Institute of  
Technology, Chaitanya Bharathi (Post),  
Gandipet, Hyderabad-500075

Principal  
Chaitanya Bharathi Institute of Technology  
(Autonomous)  
Gandipet, Hyderabad 500 075.

For BOLLA & ASSOCIATES  
Chartered Accountants

FRN : 0162378

BOLLA NAVEEN KUMAR  
Partner  
MRN : 237218



Place: CBIT, Hyderabad  
Date: 19-03-2021

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Dept. of EEE, CBIT (A)  
Gandipet, Hyderabad-75



CHAITANYA BHARATHI  
INSTITUTE OF TECHNOLOGY

Date: 20.03.2021

To

The Manager,  
ICICI Bank

Dear Sir,

Sub: Remittance of Amount by NEFT/RTGS

We enclose here with our Cheque No. 000432 dated 20.03.2021 for Rs.1,07,311/- drawn in your favour in your favour on A/c. No. 438501000041 and request you to send NEFT/RTGS Member, Secretary, AICTE, New Delhi as per details given here under.

Name of Beneficiary	:	Member, Secretary, AICTE, New Delhi
Beneficiary Bank Name	:	SBI
Beneficiary Account Number	:	5511109057
Beneficiary Branch Name	:	Shastri Bhawan, New Delhi
Beneficiary IFSC Code	:	SBIN0050203

Kindly acknowledge.

Thanking you

Yours Faithfully

For Chaitanya Bharathi Institute of Technology (A)

PRINCIPAL

  
PRESIDENT

26.03.2021





# All India Council for Technical Education

(A Statutory body under Ministry of HRD, Govt. of India)

Nelson Mandela Marg, Vasant Kunj, New Delhi-110070 Website: [www.aicte-india.org](http://www.aicte-india.org)



-STTP- Sanction Letter

Ref. No. 34-65/288/RIFD/STTP/Policy-1/2018-19

Date **10 JAN 2020**

To  
The Drawing and Disbursing Officer,  
All India Council for Technical Education,  
Nelson Mandela Marg,  
Vasant Kunj, New Delhi - 110070

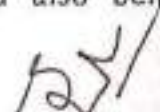
**Sub:** Release of grant for conduct of Short Term Training Programme (STTP) under AQIS 2018-19 during the financial year 2019-20- reg.

Sir,

This is to convey the sanction of the Council for payment of Rs. 300000 /- (Rupees Three Lakh Only) for conduct of Short Term Training Program as per details given below:-

1.	Name and address of the beneficiary University / Institution	CHAITANYA BHARATHI INSTITUTE OF TECHNOLOGY, CHAITANYA BHARATHI POST, GANDIPET, KOKAPET(VILL.) HYDERABAD. 500075 RANGAREDDI-500075 Telangana
2.	Permanent ID of Institute	1-4735791
3.	Institute type	Unaided - Private
4.	Name of Coordinator	Dr. MURALI TANGIRALA
5.	Amount sanctioned	Rs. 300000/-
6.	Amount to be released	Rs.300000/- Full & final payment
7.	Head of account	601.15(a) Gen. Short Term Training Programme (Plan)
8.	The authorized officer in whose favour Cheque/ Demand Draft/ RTGS is to be made	REGISTRAR / DIRECTOR / PRINCIPAL
9.	Title of the programme	Trends & Challenges of Hybrid Electric Drive Utilities in Transport Sector

1. The amount of the grant shall be drawn by the Drawing and Disbursing Officer, All India Council for Technical Education on the grant-in-aid bill and shall be disbursed to and credited to the Registrar/ Director/Principal of the institute through RTGS.
2. This grant-in-aid is being released in conformity with the terms & conditions as well as norms of the scheme as already communicated, and also being communicated in this letter.

  
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3. The Principal of the Institute and the Coordinator of the Program are requested to verify the correctness of the under-mentioned 'Bank Account' / RTGS Details submitted by them alongwith the proposals, in which the grant is being released:-

Institute PAN No.	Bank Name	Bank Branch Name	Bank Branch Address	Account Holder Name	Account Type	Account Number	IFSC Code
AABTC1906A	Andhra Bank	CBIT Campus, Kokapet Branch	CBIT post, Gandipet, Hyderabad	Chaitanya Bharathi Institute of Technology	Current Account	06-4311011000003	ANDB00006-13

### Instructions/Guidelines to be followed by the University/Institution

#### I. Disbursement of funds to University/Institutions

- The full amount of the grant sanctioned is being released as advance to the University/Institute.
- The amount spent by the institute on the conduct of STTP shall be adjusted on the basis of utilization certificate and detailed expenditure statement submitted by the University/Institution on the prescribed format along with other mandatory documents viz feedback form, copy of proceedings and completion report etc.
- The above said amount of grant shall be refunded back to AICTE if the Letter of Approval (LOA) / Extension of Approval (EOA) is not issued by AICTE to the institute for the academic year 2019-20.

#### II Maintenance of Accounts

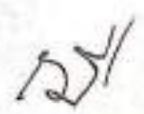
- The Institute shall strictly follow the provisions laid down in the scheme document as available on the portal.
- Funds covered by this grant shall be kept separately and would not be mixed up with other funds so as to know the amount of interest accrued on the grant.
- The University/College/Institute shall maintain proper accounts of the expenditure out of the grants, which shall be utilized only on approved items of expenditure.
- The grant is intended to cover items of expenditure connected with the Short Term Training Programme such as Boarding & Lodging to the participants, TA to outstation participants, Honorarium to Course Coordinator, reading material to participants, Honorarium to resource persons, TA/DA to resource persons including two outstations resource persons & working expenses (reprographic services, postage, transport, daily wages, tea/coffee etc.

#### III. Conduct of test and issuance of certificate

A test shall be conducted by Program Evaluation Committee (PEC) at the end of the program and the certificates shall be issued to those participants who have attended the program and have qualified in the test.

#### IV. Submission of Documents by the University/Institutions to AICTE

- The following mandatory relevant documents are required to be submitted to the University/Institution within one month of the completion of the program:

  
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 Gandipet, Hyderabad-77

a. The following **mandatory relevant documents** are required to be submitted by the University/Institution within one month of the completion of the program:-

- (i) Original Statement of actual expenditure & Utilization Certificate in the prescribed proforma duly signed by the Head of the institution and countersigned by Registrar/Finance Officer/Govt. Auditor. In case of self-financing/private institutions, Statement of actual Expenditure & Utilization Certificate are required to be audited & signed and sealed by a Chartered Accountant endorsing the membership number and complete postal address. Format for the same is available on AICTE web portal.

The University/Institution is not required to submit bills/vouchers/invoices etc for the expenditure incurred out of recurring grants. However, such copies of bills/vouchers/invoices shall be digitized by respective institutions receiving grant and uploaded scanned copies of such bills/vouchers/invoices etc on the portal for availability and view at any point of time.

- (ii) Feedback form in the prescribed proforma.
- (iii) Copy of the proceedings and completion report.
- (iv) List of candidates who have successfully completed the program on the basis of the test conducted by Program Evaluation Committee (PEC).
- (v) Report submitted by Program Evaluation Committee (PEC).

b. The amount of the grant shall be adjusted on submission of utilization certificate & detailed expenditure statement by University/Institution. On receipt of these documents, the total amount of financial assistance, admissible as per the norms, shall be worked out and grant-in-aid adjusted.

#### V. General instructions

- a. Preferably 10% of the participants may be industry professionals deputed by industry. Further, not more than 2 participants shall be from the host institution/group of institutions.
- b. Money to be reimbursed on the grant (for any reasons to include unspent amount, interest, penalty if imposed) shall be refunded back to AICTE in the form of Demand Draft payable to Member Secretary, AICTE, New Delhi.
- c. As AICTE needs adequate time for depositing the Demand Draft in the bank, the same be immediately dispatched to avoid any lapse of the validity period.
- d. The STTP is a residential program of a duration of six days with minimum 40 participants. The approved STTP shall be conducted within three months from the date of release of funds.
- e. If programme is not conducted in the period of three months of the issuance of this Sanction Order, the released amount, alongwith interest accrued thereon, has to be necessarily returned back to AICTE within a month.
- f. The expenditure under the Heads 'Honorarium to Course Coordinator' and 'Honorarium to Resource Persons' shall not exceed 1% & 20% respectively of the total sanctioned grant for the Programme. However, overall expenditure shall not exceed the funds sanctioned for the Programme.

22/11  
HEAD  
Dept. of EEE, CBIT (A)  
Gandipet, Hyderabad-75

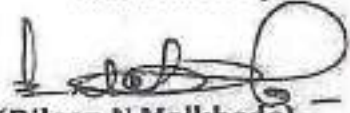
- g. Any extra money required to complete the programme must be borne by the institute from their own resources. But the quality of the activities should not be compromised.
- h. Any unavoidable circumstantial change in the program with respect to name of Project Coordinator, Venue and date for organizing STTP would mandatorily require prior approval of the Council. All such requests should be addressed to AICTE, in advance, recording the specific reasons for proposed changes, failing which the offer for the grant already issued would be treated as automatically withdrawn and the financial assistance released in favour of the beneficiary institution shall be refunded immediately to the Council. Kindly mention the File No. 34-65/288/RIFD/STTP/Policy-1/2018-19 in your future correspondence.
- i. **Program Evaluation Committee (PEC)** is required to be constituted at institutional level. The constitution of the PEC shall be as under:
  - (i) Principal/Director/Registrar of the institution (Chairperson).
  - (ii) Coordinator of the program (Member Secretary).
  - (iii) Two HoDs and one subject expert (members).

The members of the said PEC shall not be below the rank of Associate Professor. A test shall be conducted by Program Evaluation Committee (PEC) at the end of the program and the certificates shall be issued to those participants who have attended the program and have qualified in the test. The minutes of the meetings, along with PEC report, are to be submitted to the Council at end of the program along with other mandatory documents.

- j. **GoI GFR rules** (@<https://doe.gov.in/order-circular/general-financial-rules2017-0>) should be followed during utilization of grant.
- k. This Sanction Order may be treated as Offer Letter for all purposes.

**NOTE:- Any deviation from the above will invoke serious action against the Institute.**


Yours sincerely,

  
 (Dileep N Malkhede)  
 Advisor-I (RIFD)

116 JAN 2020

Copy forwarded for information and necessary action to:-

1. **Name and Address of the Coordinator**  
 Dr. MURALI TANGIRALA  
 CHAITANYA BHARATHI INSTITUTE OF TECHNOLOGY  
 CHAITANYA BHARATHI POST, GANDIPET, KOKAPET(VILL.) HYDERABAD. 500075  
 HYDERABAD 500075 Telangana
2. **The Registrar / Director / Principal**  
 CHAITANYA BHARATHI INSTITUTE OF TECHNOLOGY  
 CHAITANYA BHARATHI POST, GANDIPET, KOKAPET(VILL.) HYDERABAD. 500075  
 HYDERABAD 500075 Telangana
3. **Guard File**

  
 HEAD  
 Dept. of EEE, CBIT (A)  
 Gandipet, Hyderabad-75



Phone : 011-26131576, 77, 78, 80  
Website : www.aicte-india.org



संस्कृत (२०)

अखिल भारतीय तकनीकी शिक्षा परिषद्

(भारत सरकार का एक शासित निकाय)

मानव संसाधन विकास विभाग, भारत सरकार

नेशनल मंदीरा मार्ग, नई दिल्ली-110067

ALL INDIA COUNCIL FOR TECHNICAL EDUCATION

(A Statutory Body of the Govt. of India)

Ministry of Human Resource Development, Govt. of India

Nelson Mandela Marg, New Delhi-110067

Col. B. Venkat  
Director (FDC)  
E-mail: [director.fdc@aicte-india.org](mailto:director.fdc@aicte-india.org)  
Mob. No. 8130255472

25 June 2020

**Sub:-For information of AICTE approved institutes which have received grants for conducting STTP's/FDP's under AQIS 2018-19.**

Sir,

This is in reference to grants released by AICTE under AQIS 2018-19 for conduct of STTP's/FDPs. It is being observed that due to present circumstances of ongoing pandemic of COVID-19, most of Institutes are facing difficulties in organizing and conducting STTP's. This office has received a number of requests from various institute to allow on line method of conducting STTP/FDP to complete their commitments.

In this regard, it is to inform that all such institutes, which have already received grants for conducting STTP's/FDPs through prevailing contact mode, are allowed to conduct STTP's through online mode subject to following conditions:

- (i) The Institute will be allowed to adjust the grants received for STTP at following rates:-

a.	Honorarium for Coordinator	Rs. 5000.00
b.	Honorarium to experts	Rs. 75000.00
c.	Provision for payment to lab attendant engaged during lab practices	Rs. 3000.00
d.	miscellaneous charge	Rs. 10000.00
<b>Total for each STTP's</b>		<b>Rs 93000.00</b>

- (ii) The Institute will conduct more than one STTP's in multiples of Rs. 93000.00 within the total grant received by it and shall return the balance unspent amount to AICTE.

e.g.

if an Institute has received grant for STTP,	-Rs 3,00,000.00
Cost of three STTP	3x93000= Rs. 279000.00
<b>Balance</b>	<b>= Rs. 21,000.00</b>

The institute will return the balance unspent amount of Rs.21,000.00 alongwith interest earned on such amounts to AICTE while submitting UC for adjustment of accounts for keeping its eligibility for receiving grants in next AQIS.



सूचना का  
अधिकार

HEAD  
Dept. of EEE, CBIT (A)  
Gandipet, Hyderabad-75

- (iii) The institute will conduct all three STTP's as explained above on the same topic which has been approved by AICTE while releasing the grants.
- (iv) Firm dates for each program will be intimated to AICTE beforehand.

On similar lines FDP (02 week program) to be conducted online has the following approval totaling to Rs. 1,86,000.00.

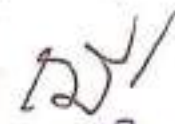
a.	Honorarium for Coordinator	Rs. 5000.00
b.	Honorarium to experts	Rs. 1,68,000.00
c.	Provision for payment to lab attendant engaged during lab practices	Rs. 3000.00
d.	miscellaneous charge	Rs. 10000.00
<b>Total for each FDPs</b>		<b>Rs 1,86,000.00</b>

The conducting of FDP's (two weeks program) shall be subjected to the similar conditions (i) to (iv) given above for conduct STTP courses, except rates of Honorarium to experts.

You are requested to acknowledge receipt of above guidelines and convey your consent if your institute is ready for conducting the STTP through online format on conditions explained above.

**It is once again reiterated that online conduct of FDP & STTP will be on explicit permission of AICTE.**

  
Yours sincerely,  
25 June 2020  
Director (FDC)

  
HEAD  
Dept. of EEE, CBIT (A)  
Gandipet, Hyderabad-75

**Fwd: CBIT, Hyderabad - Pandemic situation - Permission to conduct the STTP Online - Requested - Reg.**

Principal CBIT &lt;principal@cbit.ac.in&gt;

Sun, Aug 2, 2020 at 6:11 PM

To: EEE HEAD &lt;hod\_eee@cbit.ac.in&gt;, "Dr.T.Murali Krishna Assistant Professor" &lt;tmuralikrishna\_eee@cbit.ac.in&gt;

----- Forwarded message -----

From: Col B Venkat &lt;director.fdc@aicte-india.org&gt;

Date: Sun, Aug 2, 2020, 5:09 PM

Subject: Re: CBIT, Hyderabad - Pandemic situation - Permission to conduct the STTP Online - Requested - Reg.

To: Principal CBIT &lt;principal@cbit.ac.in&gt;

1. Conduct of 03 STTTPs in online mode are hereby **approved**.

2. Following to be ensured

- Each STTP will be for 06 days from Monday to Saturday, followed by an online exam on last working day ie. Saturday. Certificates will only be issued to those participants who have attended regularly and qualify in the exam with minimum 60% marks.

- STTTPs to be scheduled in such a manner that in a month only one is conducted (Space it out evenly so as to complete it by 31 Dec 2020).

- Post successful completion, balance unutilised amount along with interest generated will be returned by RTGS as per the letter.

- **Online link of the inauguration will be shared with this office for all the STTTPs with an invite for the inaugural function.**

3. This will be treated as an official correspondence on the subject and will be enclosed at the time of submission of Final Utilisation certificate.

With warm regards,

Col B Venkat,

Director (Faculty Development)

AICTE, New Delhi

Mobile - 8130255472

On Fri, Jul 31, 2020 at 2:33 PM Principal CBIT &lt;principal@cbit.ac.in&gt; wrote:

Respected Sir,

Ref : 1. STTP- Sanctioned - L.No.34-65/288/RIFD/STTP/Policy-1/2018-19 dated.10-01-2020  
(Enclosed)

2. Letter issued by AICTE regrading this dated 25-06-2020. (Enclosed)

3. Brochure of STTP (Phase-1) -(Enclosed)

4. Tentative Schedule

This is to bring to your kind notice that the Department of Electrical and Electronics Engineering of our Institute got sanctioned with Rs.3,00,000/- to conduct STTP on "Trends and Challenges of Hybrid Electric Drive utilities in Transport sector" as Dr. T. Murali Krishna as coordinator, vide Ref.(1) cited above.

In this regard, it is contemplated to conduct the sanctioned STTP into THREE phases through on-line platform, vide reference (2) cited. In this connction, we request you to

HEAD  
Dept. of EEE, CBIT (A)  
Gandipet, Hyderabad-75

Date: 03-03-2020

Minutes of the meeting conducted on 3<sup>rd</sup> March, 2020.

Members Present:

1. Dr. P. Ravinder Reddy, Principal, CBIT
2. Dr. G. Suresh Babu, Prof & Head, Dept. of EEE,
3. Dr. U.K. Choudhury, Prof. Dept. of EEE,
4. Dr. T. Murali Krishna, Assoc. Prof, Dept. of EEE,
5. Smt. N.Vasantha Gowri, Asst. Prof, Dept. of EEE,

The meeting started with the greetings from the Head of the department.

Item No.1 :To form Program Evaluation Committee


Minutes : Principal Dr. P. Ravinder Reddy suggested the two HoD names Dr. D. Krishna Reddy & Dr. P. Suresh as PEC members and Prof. U.K. Choudhury as subject expert in PEC

Item No.2 : To discuss and finalize the schedule for STTP

Minutes : HoD asked the coordinator of STTP to prepare Brochure & Schedule for STTP from 20<sup>th</sup> - 25<sup>th</sup> April 2020,

Item No.3: Preparation of Schedule

Minutes : The subject expert of this STTP, Dr. U. K. Choudhary has suggested resource persons for the phase I. Dr. N. Vasantha Gowri & Sri. C. Harish are asked be the co-coordinators for Phase-1



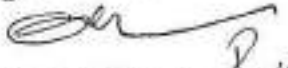

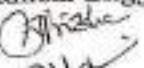

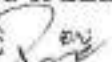
  
HEAD  
Dept. of EEE, CBIT (A)  
Gandipet, Hyderabad-75



Date: 20-07-2020

Minutes of the meeting conducted on 20<sup>th</sup> July, 2020.

Members Present:

1. Dr. P. Ravinder Reddy, Principal, CBIT
2. Dr. G. Suresh Babu, Prof & Head, Dept. of EEE, 
3. Dr. U.K. Choudhury, Prof. Dept. of EEE, 
4. Dr. D. Krishna Reddy, Head, Dept. of ECE, 
5. Dr. P.V. R. Ravindra Reddy, Head, Dept. of Mechanical Engg., 
6. Dr. T. Murali Krishna, Assoc. Prof, Dept. of EEE, 
7. Smt. N. Vasantha Gowri, Asst. Prof, Dept. of EEE, 
8. Mr. M. Nagaraju, Asst. Prof, Dept. of EEE, 

The meeting started with the greetings from the Head of the department.

Item No.1 : To form Program Evaluation Committee

Minutes : Principal Dr. P. Ravinder Reddy suggested the two HoD names Dr. D. Krishna Reddy & Dr. P.V. R. Ravinder Reddy as PEC members and Prof. U.K. Choudhury as subject expert in PEC

Item No.2 : To Conduct STTP on on-line mode

Minutes : HoD asked the coordinator of STTP to prepare Brochure & Schedule for STTP to be conducted as per the AICTE guidelines in three phases and put up a letter to AICTE for approval. Tentative Schedules are as follows

First phase is from 3<sup>rd</sup> to 8<sup>th</sup> August 2020,  
Second phase is from 24<sup>th</sup> to 29<sup>th</sup> August 2020 and  
Third phase is from 7<sup>th</sup> to 12<sup>th</sup> September 2020.

Item No.3: Conduct of STTP

Minutes : Dr. N. Vasantha Gowri & Sri. M. Nagaraju are asked be the co-coordinators for Phase-1

  
HEAD  
Dept. of EEE, CBIT (A)  
Gandipet, Hyderabad-75

**TRENDS & CHALLENGES OF  
HYBRID ELECTRIC DRIVE  
UTILITIES IN TRANSPORT  
SECTOR- PHASE-III**

HEAD  
Dept. of EEE, CBIT (A)  
Gandhinagar, Hyderabad-75



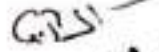
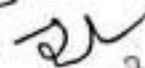
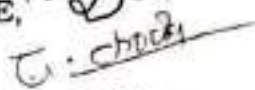
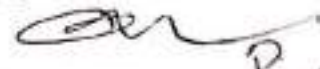
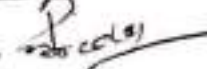
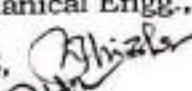


CHAITANYA BHARATHI INSTITUTE OF TECHNOLOGY (A), HYDERABAD-75

Department of Electrical & Electronics Engineering

Date: 18-01-2021

Minutes of the meeting conducted on 18<sup>th</sup> January, 2021.

Members Present:

1. Dr. G. P. Saradhi Varma, Principal, CBIT 
2. Dr. G. Suresh Babu, Prof & Head, Dept. of EEE, 
3. Dr. U.K. Choudhury, Prof. Dept. of EEE, 
4. Dr. D. Krishna Reddy, Head, Dept. of ECE, 
5. Dr. P.V. R. Ravindra Reddy, Head, Dept. of Mechanical Engg., 
6. Dr. T. Murali Krishna, Assoc. Prof, Dept. of EEE, 
7. Dr. N. Vasantha Gowri, Asst. Prof, Dept. of EEE, 
8. Dr. N.V. Phanendra Babu, Asst. Prof, Dept. of EEE, 

The meeting started with the greetings from the Head of the department.

Item No.1 : To Conduct STTP Phase-III on on-line mode

Minutes : HoD asked the coordinator of STTP to prepare Brochure & Schedule for STTP as per the AICTE guidelines and send the invitation link to AICTE.

Item No.2: Conduct of STTP

Minutes : Dr. U. K. Choudhary suggested resource persons for the STTP.

Dr. N. Vasantha Gowri & Dr. N. V. Phanendra Babu are asked be the co-coordinators for Phase-3

  
HEAD  
Dept. of EEE, CBIT (A)  
Gandipet, Hyderabad-75

## CHIEF PATRON

Kavi Kreeti Dr. V. MALAKONDA REDDY  
President, CBIT

## PROGRAM EVALUATION COMMITTEE

Prof. G. P. SARADHI VARMA (Chairman)  
Principal, CBIT

Prof. U. K. CHOUDHURY (Subject Expert)  
Director I&I, CBIT

Prof. D. KRISHNA REDDY (Member)  
Head, Dept. of ECE

Prof. P.V.R. RAVINDRA REDDY (Member)  
Head, Dept. of Mechanical Engineering

Dr. T. MURALI KRISHNA  
Coordinator - STTP

## CONVENER

Prof. G. SURESH BABU  
Head, Dept. of EEE

## CO-COORDINATORS

Dr. N. VASANTHA GOWRI  
Assistant professor, Dept. of EEE

Dr. N. VENKATA PHANENDRA BABU  
Assistant professor, Dept. of EEE

Registration Fee : Free

## IMPORTANT DATES

Last date for Registration : 17-02-2021  
Intimation of selection : 19-02-2021

## HOW TO APPLY

The applicants should fill the Registration Form through Google Forms using below link

E-certificate will be issued to those Participants who attend all the sessions and clear the exam with 60% marks.

## FOR FURTHER DETAILS PLEASE CONTACT

E-mail: [sttpeee@cbit.ac.in](mailto:sttpeee@cbit.ac.in)

Mobile: 7702578106, 9052221446, 9866479770

## REGISTRATION LINK

<https://forms.gle/Y7usarJ88XUCbi286>



*(Handwritten signature)*

HEAD  
Dept. of EEE, CBIT (A)  
cbit.ac.in, Hyderabad-75



AICTE - Sponsored  
Short Term Training Program  
(STTP-Phase-III)

on

TRENDS & CHALLENGES OF  
HYBRID ELECTRIC DRIVE  
UTILITIES IN TRANSPORT  
SECTOR

22<sup>nd</sup> - 27<sup>th</sup> February, 2021

Organized by

Department of Electrical & Electronics  
Engineering  
Chaitanya Bharathi Institute of Technology  
(Autonomous under UGC)  
Affiliated to Osmania University  
Gandipet, Hyderabad - 500075  
Telangana State, India.

## JAITANYA BHARATHI INSTITUTE OF TECHNOLOGY (A)

It is one of the premier Engineering Institute in Andhra Pradesh, which is at the heart of the state, which is at the heart of the state, which is at the heart of the state. The Institute has a long and illustrious history, and has been a pioneer in the field of engineering education. It has a strong tradition of academic excellence and has produced many distinguished graduates who have gone on to make significant contributions to the world of science and technology. The Institute is currently offering a variety of undergraduate and postgraduate programs in engineering and technology, and is committed to providing a high-quality education to all its students.

## ABOUT THE DEPARTMENT

CBIT started Electrical & Electronics Engineering UG course in 1994 and was accredited twice i.e. in years 2004, 2008 & 2013 by NBA. The intake was increased from 60 to 120 from the Academic Year 2013-14. The Department started offering a PG course in Power Systems & Power Electronics in 2006 with an intake of 18 and was accredited by NBA in the year 2016. The Department has highly qualified and experienced faculty. The Department is having well equipped labs with latest Hardware & Software. The Department is also certified by ISO 9001:2008. The Department is recognized as Research Centre in 2017 by Osmania University to carry out research for the award of Ph.D. degree. The Department is keen on developing consultancy services and welcomes funding research from outside agencies. The Department in the year 2019-20 has received a funding of Rs.2,72,000 under AICTE-STTP Scheme for MATLAB Research Methodology project, Rs. 3,00,000 under AICTE-STTP scheme for Hybrid Electric Utilities Project and Rs.11,00,000 under AICTE-RPS Scheme for Development of Low-Cost Flexible Quality Conditioner to Mitigate Power Quality Issues and MOCROBS for special electrical machines to the tune of Rs.17Lakh.

## ABOUT THE STTP

Deterioration in air quality, global warming, and a decrease in petroleum resources are becoming the major threats to human beings. More and more stringent emissions and fuel consumption regulations are stimulating an interest in the development of safe, clean, and high-efficiency transportation. It has been well recognized that electric, hybrid electric, and fuel cell powered drive train technologies are the most promising solutions to the problem of land transportation in the future. In recent decades, the research and development activities related to transportation have emphasized

the development of high efficiency, clean, and Modern Electric, Hybrid Electric, and Fuel Cell Vehicles safe transportation.

## Topics to be covered in STTP

- Introduction, Trends of Electric Vehicle & Govt. Policies
- Hybrid Electric Vehicle and its performance
- Electric Vehicle Mechanics, Modeling & Vehicle Grid Technology
- Modeling & Design of Power Converters for Electric Vehicles
- Design & Manufacturing of PM motor Drives for EVs
- Design & Manufacturing of Induction Machine Drives for EVs
- Energy Storage devices for EVs
- Charging Stations & Wireless Chargers
- PWM Techniques for Inverter

## RESOURCE PERSONS

Resource Persons will be from Renowned Institutions such as IIT's/NIT's, Industries and host Institution.

## TARGET GROUP

The STTP is expected to benefit Engineers, Scientists, Researchers and Academicians working / Teaching / studying in the Dept. of EEE, CBIT (A) Gandipet, Hyderabad-75.





**CHAITANYA BHARATHI**  
INSTITUTE OF TECHNOLOGY (A)

Kothuru (Vijaya) District, Hyderabad, Telangana-500075, www.cbit.ac.in

**42**  
YEARS  
COMMITTED TO  
RESEARCH,  
INNOVATION AND  
EDUCATION

AICTE - Sponsored Short Term Training Program (STTP-Phase-1) Schedule

On

**TRENDS & CHALLENGES OF HYBRID ELECTRIC DRIVEUTILITIES IN TRANSPORT SECTOR**

22<sup>nd</sup> - 27<sup>th</sup> February 2021

	11:00 AM - 12:30 PM			2:30 PM - 4:30 PM
22-02-21 Monday	Introduction to Electric Mobility, Policy and Guidelines, Trends and Challenges Dr. U.K. Choudhury, Prof. & Director(I&I), CBIT, (Ex ED, CTM, BHEL)		Electric Vehicle Components and Market Scenarios Mr. Ramesh Choudhary Senior Design Engineer, ISE (NCH)	
23-02-21 Tuesday	PWM Technique, Modeling & Design of Power Converters for EVs Prof. Krishna Vasudevan, Professor, IIT Chennai		Fuel Cell as Energy Storage Device in Electric Vehicle Mr. S. Ravi, M.D., I.R. Hybrid Fuel Cell	
24-02-21 Wednesday	Hybrid Electric Vehicle Mechanics, Modelling and Performance Calculation Dr. U.K. Choudhury, Prof. & Director(I&I), CBIT, (Ex ED, CTM, BHEL) (10:00AM -11:30 AM)	Reliability Analysis Techniques Prof. V.N. Achutha Naikan, Professor, IIT Kharagpur (11:45 PM -12:45PM)	EMI & EM Compatibility Mrs. N. V. P. R. Deepa Prasad Ex-MGM BHEL	
25-02-21 Thursday	Design & Manufacturing of Special PM Motors for Traction Applications & Software to design e-mobility motors Dr. U.K. Choudhury, Prof. & Director(I&I), CBIT, (Ex ED, CTM, BHEL)		Testing and Certification Mr. Manoj Desai, General Manager, ARAI, Pune	
26-02-21 Friday	Charging Stations Sri. S. EASWAR RAO, Senior DGM, BHEL, Hyderabad		Wireless Charging & Vehicle to Grid Technology Dr. U.K. Choudhury, Prof. & Director (I&I), CBIT, (Ex ED, CTM, BHEL)	
27-02-21 Saturday	Induction Motors for Electric Mobility Mr. A. Venkanna, Deputy Manager, EM Lab, BHEL (10:00AM -11:30 AM)	Vector Control of Electrical Motor Drives for Electric Vehicles Dr. G. Tulasi Ram Das Former Vice-Chancellor (JNTUK) Prof, Dept of EEE, JNTUHH (11:30 PM -12:30 PM)	High Energy Batteries for EV Applications Dr. A. Venugopal (Ex SREC Officer) Prod. Back, Exams & Laboratories	

*[Signature]*  
Coordinator-STTP

*[Signature]*  
HEAD  
Dept. of EEE, CBIT (A)  
GasCist, Hyderabad-75

*[Signature]*  
HoD - EEE, CBIT

Report on AICTE Sponsored STTP on "TRENDS & CHALLENGES OF HYBRID ELECTRIC DRIVE UTILITIES IN TRANSPORT SECTOR" during 22<sup>nd</sup> - 27<sup>th</sup> February 2021

Totally 100 participants from 6 states registered for the STTP, but 59 participants regularly attended the program out of which 57 received certificates by clearing the end examination with equal to or more than 60% in which was conducted on the last day i.e. on 27-02-2021. First four days two sessions are conducted (one in the morning and one in the evening) which is of 1 ½ hour duration. Last two days three sessions are conducted. The program was conducted on google meet platform. After the completion of each session the attendance and feedback forms are shared in the chat box. The detailed report of each session is given below.

22-02-2021

Session-1

Time: 11:00 AM to 12:30 PM

Speaker: Dr. U.K. Choudhury, Prof. & Director(I&I), CBIT, (Ex ED, CTM, BHEL)

Topic: Introduction to Electric Mobility, Trends, Challenges & Opportunities

The session started with drivers for electric mobility, present scenario & challenges, govt initiatives and forecast, types of EVs, HEVs and their components, fuel cell EV, charging infrastructure and technology, strategy for R&D and manufacturing and opportunities. Then he discussed about electric vehicle components of pure electric vehicle with front wheel drive, back wheel drive and four-wheel drive. He also explained about rechargeable battery electric vehicle. Sir shown a statistic of usage of cars in all over the world along with Indian EV market growth in 2020.

22-02-2021

Session-2

Time: 02:30PM to 04:00 PM

Speaker: Mr. Raunak Chaudhary, Senior Design Engineer, ISIE, India

Topic: Electric Vehicle Components and Market Scenarios

The afternoon session who primary & secondary cells are used in a battery, how different drives are used to provide pickup for a single vehicle and their synchronization. Then the resource person illustrated on EV global & domestic sales post covid-19 market. Then the session continued with EV battery prices, battery energy densities after 2010, Average EV range, Average EV charging speed etc.

23-02-2021

Session-1

Time: 11:00 AM to 12:30 PM

Speaker: Dr. U.K. Choudhury, Prof. & Director(I&I), CBIT, (Ex ED, CTM, BHEL)

Topic: Design & Manufacturing of Special PM Motors for Traction Applications

In this session sir has introduced different types of motors and the motors suitable for electric vehicles. He explained about the Permanent magnet machines used in electric mobility. The session continued with different constructional features of permanent magnet machines, comparison of various magnets like ALNICO, FERRITE, SMCO, NDFEB etc. Then sir discussed about the characteristic comparison of soft magnetic and hard magnetic materials.

  
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Report on AICTE Sponsored STTP on "TRENDS & CHALLENGES OF HYBRID ELECTRIC DRIVE UTILITIES IN TRANSPORT SECTOR" during 22<sup>nd</sup> - 27<sup>th</sup> February 2021

23-02-2021

Session-2

Time: 02:30 PM to 04:00 PM

Speaker: Mr. S. Ravi, M.D., S.R. Hybrid Fuel Cell

Topic: Fuel Cell and Its application in Electric Vehicle

The resource person has given overview fuel cell as a future source of electric vehicle, hydrogen economy, polymer electrolyte membrane, solid oxide fuel cells, their basic components, membrane electrode assembly. Then continued with bipolar plate fabrication cell, assembly of stack, stack testing. Explained how a battery operated excavator works with fuel cell, evaluation and testing of fuel cells, FCEV cars, FCEV bus etc

24-02-2021

Session-1

Time: 11:00 AM to 12:30 PM

Speaker: Prof. V. N. Achuta Naikan, Professor, IIT Kharagpur

Topic: Reliability Analysis Techniques

In this session Naikan sir distinguished between quality and reliability analysis. Quality is fitness for use/application, conformance to design specification like dimensions, strength, slope, finish, efficiency etc. Reliability is the [probability that the system thus intended function adequately over period of time under the prescribed conditions he inferred that quality is static measure and reliability is dynamic measure. Purpose of reliability is to find wide does a work/component fails? How to minimise failures, to predict how often a work fails, what is the reason for failure how to minimise the failure and what are consequence of failures. Then summarised reliability engineering topics like analysis and prediction and life testing, estimation, design and allocation, fault diagnosis, system safety and risk analysis and maintainability etc.. The session ended with bath tub curve, failure analysis like FTA, FMECA etc.

24-02-2021

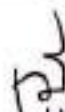
Session-2

Time: 02:30 PM to 04:00 PM

Speaker: Dr. U.K. Choudhury, Prof. & Director(I&I), CBIT, (Ex ED, CTM, BHEL)

Topic: Design Hybrid Electric Vehicle Mechanics, Modeling and Performance Calculation

In this session the resource person discussed about development of PM materials, domain movement during magnetization, hard & soft magnetic materials, effect of air gap length & magnetic thickness, critical points in PMG design like steady-state operation, stabilization, transient operation, effect of temperature on permanent magnets etc. Then sir introduced the basic structure of hybrid electric vehicle, series hybrid and parallel hybrid electric vehicle comparison, rolling resistance, aerodynamic drag, grading resistance etc. The session ended with the challenges to EVs power converters, electric machines, electromagnetic interference, energy storage system, regenerative braking and control, power management & vehicle control.

  
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24-02-2021

Session-1

Time: 11:00 AM to 12:30 PM

Speaker: Dr. Krishna Vasudevan, Professor, IIT Chennai

Topic: Design and Analysis of Power Converters for EVs

Sir started the session with steps involved for designing an inverter. He explained the selection procedure for power device based on current rating and power loss. Discussed about open loop and closed loop control system design for power converter. Illustrated about Heat sink design considerations for inverter. Then he differentiated between diode voltage drop and IGBT voltage drop during selection of power device. The design of DC bus with a decoupling capacitor has been discussed. He also given detailed description about gate driver circuits by considering dead time and its effects.

25-02-2021

Session-2

Time: 02:30 PM to 04:00 PM

Speaker: Mr. Manoj Desai, General Manager, ARAI, Pune

Topic: EV validation and Certification

Introduced why standards or regulations and type approval is important for EV. Elaborated about the process of certification for different types of EVs in India. Then continued with regulation framework for EVs under CMVR. Then discussed about Live, social demand Minimum safety requirement etc. Given standards of EV, HEV, Retro fitment and EVSE (Electric Vehicle Supply Equipment) and explained about EV Testing and EV Regulations. He has shared valuable content of constructional and Functional safety of EV and briefed information about Battery Management System (BMS) and Thermal Management System, Vehicle safety, Battery safety.

26-02-2021

Session-1

Time: 10:0 AM to 11:30 AM

Speaker: Sri. N. V. P. R. Durga Prasad Ex-AGM , BHEL

Topic: EMI & EM Compatibility

This session started with overview of EMI and EMC. Discussed about what is EMI and EMC, the causes and effects of EMI, their significance and importance in Hybrid EV such as ignition system relays and solenoids, modulated DC for interior lighting ,voltage SAG from engine starting inductive load kicks, alternator load dump etc. Sir explain about the objective of EMC, EMI coupling modes viz conduction and radiation, inter-system EMI and intra-system EMI, automotive industry standard AIS-004, immunity standards. Then the session concluded with Compliance of electromagnetism, testing of EMI and EMC, limits and standards of EMI and EMC design approach

26-02-2021

Session-2

Time: 11:30 AM to 12:30 PM

Speaker: Mr. A. Venkanna, Deputy Manager, EM Lab, BHEL

Topic: Induction Motors for Electric Mobility

The speaker discussed about water cooled induction motor for EV application which was manufactured at BHEL R & D. He given various steps involved in the design of induction motor like customer specification like DC link voltage ,continuous torque, peak torque ,rated speed, maximum speed ,weight, efficiency etc. Then continued his session with motor mounting configuration, analytical methods, like type of encloser, duty cycle of the load and frequency of starting and stopping the motor illustrated various analysis like stress analysis, frequency analysis, temperature distribution etc..

26-02-2021

Session-3

Time: 02:30 PM to 04:00 PM

Speaker: Dr. U.K. Choudhury, Prof. & Director(I&I), CBIT, (Ex ED, CTM, BHEL)

Topic: Software to design e-mobility motors , Wireless Charging & Vehicle to Grid Technology

In this session the resource person introduced the procedure how to develop a prescribed motor design using ANSYS motor CAD software. Discussed about how a winding diagram can be designed the help of software, how machine efficiency can be predetermine with respect to speed variation. Then focussed on vehicle to grid technology aspects. Inferred about the need of wireless power transfer/ charger for EVs.

27-02-2021

Session-1

Time: 10:00 AM to 11:30 PM

Speaker: Sri. S. EASWAR RAO, Senior DGM, BHEL,

Topic: Charging Stations for EVs

The session started with importance of charging station for Electric vehicles like on-board AC charging and OFF board DC charging and fast chargers and charging standards. Batteries life time depends on C-rate i.e charging and discharging rate. The main barrier for e-mobility is battery swapping technology for commercial vehicles and passenger vehicle configurations then focused on OCPP protocols and IEC-61851-1 standard for charging discussed about level-1, level-2, level-3 charges He coated the need of the our is fast charges he ended with different ZVS and ZCS switching methodologies ,and high frequency transformer in the design of chargers in EV .

27-02-2021

Session-2

Time: 11:30 AM to 1:00 PM

Speaker: Dr. G. Tulas Ram Das, Former Vice-chancellor (JNTUK), Prof, Dept of EEE, JNTUH

Topic: High Vector Control of Electrical Motor Drives for Electric Vehicles

Introduced about various companies, manufacturing different types of electric vehicles, Nationally & Internationally. Discussed about future preparedness, need to address the new materials used, quick charging, induction motor control using SVM etc. Then explained about types of motors used for EVs & HEVs. Given comparison between BLDC motor & PMSM. Then illustrated on indirect field oriented control & direct torque control of induction motors. Given in-detail analysis of IFOC of induction motor used for EVs.

27-02-2021

Session-3

Time: 02:30 PM to 4:00 PM

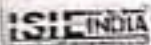
Speaker: Dr. Venugopal, Ex- ISRO official.

Topic: Electric Vehicle for Transport Application

Introduced about definition of battery and its specifications like energy density, power density and safety. Then battery technologies like reserve battery, thermal battery, quantum battery etc.. Continued with Li-Ion batteries based on active materials, electrolytes, and case materials etc. and then he discussed about various materials used for anode, cathode, separator and electrolyte etc. He quoted about evolving process of Lithium manganese aluminium oxides in the battery technology. Sir has focussed more on progress of Lithium ion, silicon anode and try electrode. Then he discussed about electric vehicle battery pack design trade off. He quoted about aerodynamics and electric vehicles in the city limits. National Automotive testing R&D infrastructure project is also been discussed. Sir explained about battery swapping also.

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EV GLOBAL SALES - POST COVID MARKET



Rahul Chawla

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### Areas of Concern

- Branded Electric Vehicles
- Experiences of Manufacturing Companies for Electrical Motors
- Future preparedness
- Types of Electrical Motors used for EVs and HEVs
- Insights to select right motor for EVs and HEVs
- Vector Control of Induction Motor Drives for EVs and HEVs
  - Published Research paper is considered for this talk
  - Both FOC and DTC are considered
  - Various switching schemes are adopted (HCC, ST, SVPWM)
  - Dynamic analysis and Sensitivity Analysis have been studied
- Future Scope



Exit full screen (f)

0:07 / 1:29:20



### Categories of Electric Vehicles in India

Off Road Vehicles...  
Within campus...  
Hospitals... Air ports...  
universities...Resorts...



ARAI



250W Electric 2W



E-rickshaw/E-Car



4W Passenger Vehicle (M1/N1 category)



2W Electric 2W & E-rickshaw/E-Car



Heavy Vehicle (M2/M3 category)



Mute

14:13 / 1:38:41



  
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AJCTE - Sponsored Short Term Training Program (STTP-Phase-3)  
TRENDS & CHALLENGES OF HYBRID ELECTRIC DRIVE UTILITIES IN TRANSPORT SECTOR  
List of Participants

Participant ID	Salutation	Name	Designation	Organization name
001	Mr	BHUKYA BHAVSINGH	Assistant Professor	RCJNT BASAR
003	Mr	TIPRISETTI RAKESH	Research Scholar	University College of Engg
006	Mr	SRINU BHUKYA	RESEARCH SCHOLAR	OSMANIA UNIVERSITY
010	Mr	Sajesh T V	Project manager	Lectur and Teachr imbed
011	Mr	BUPRI ANKAIAH	Assistant Professor	REVA University
013	Mr	M NALINI DEVI	Assistant professor	Mahatma Gandhi Institute
015	Mrs	D.Sudharani	Assistant Professor	Mahatma Gandhi Institute
018	Mrs	Latha N	Assistant professor	REVA UNIVERSITY
019	Ms	P Lakshmi Suptiya	Assistant Professor	IGST
021	Dr	Madgule Satyanarayana	Assistant Professor	Jayaramiah Institute of Tech
022	Mr	Swati palwal	Assistant professor	IGST
023	Mrs	Chandrabala Patil	Assistant professor	POA COLLEGE OF ENG
024	Mrs	VIGNESH G	Assistant Professor	EASWAR ENGINEERING
025	Mr	LENKALAPPELLY RAJU	ASSISTANT PROFESSOR	JAYARAMIAH INSTITUTE
027	Mr	KOLA SURESH KUMAR	ASSISTANT PROFESSOR	ANURAG COLLEGE OF E
028	Mr	Sudharani Potturi	Research Scholar	REVA UNIVERSITY
031	Ms	VENKATA KOTESWARA	Adhoc Faculty	NT Warangal
038	Dr	P. RANJITH KRISHNA	Assistant Professor	MAHATMA GANDHI INST
042	Mr	GUMALAPURAM GOPAL	Assistant Professor	Mahatma Gandhi Institute
043	Mr	CHENNAIAH BANDITH	Assistant Professor	UNAFI UNIVERSITY
044	Mr	G Han Krishna	Assistant Professor	CHAITANYA BHARATH I
046	Mr	Chaitanya kommerz	Assistant professor	IGoel, Kadapa
047	Mr	Jarepala Ramesh Babu	Assistant Professor	Methodist college of engin
048	Mr	Priya M Palli	Assistant professor	POA college of engineering
049	Mrs	Gayatri Arun Kumar	Assistant Professor	Mahatma Gandhi Institute
054	Mr	UDAY KUMAR NEERATI	Assistant Professor	Vasavi College of Enginee
056	Mr	MR. JAGDISH PITAMBAR	PhD Researor Scholar	NATIONAL INSTITUTE O
057	Mr	KARAMALA VIJAY	ASSOCIATE PROFESSOR	GLOBAL COLLEGE OF E
059	Mr	Kam Hemant Kumar	Research Scholar	Andhra University, Visakh
060	Mr	Polu Veeraraghava Reddy	Assistant professor	Tkr college of Engineering
061	Mr	RAVULA RAMASWAMY	Asst Professor	TKRDET
062	Mr	Nuthulapati Rajesh Babu	Assistant Professor	DVR & Dr HE MDC College
063	Mrs	KOTHA R	Assistant professor	Sri Sarani engineering col
064	Dr	Dr Naveen Kumar Sharma	Assistant Professor	V. K. S. Punjab Technica U
066	Mr	SATTAR PASHA SHAIK	Assistant professor	TKR COLLEGE OF ENGI
067	Mr	B SHARATH KUMAR	Assistant professor	TKR COLLEGE OF ENGI
068	Mrs	V SWARUPA	Associate professor	TKR college of engineering
071	Dr	Ch.Indira Priyadarsini	Assistant Professor	Chaitanya Bharath Institut
073	Mr	K.Subhash	Assistant Professor	TKR college of Engineerin
077	Mrs	OBULAREDDY SOBHANA	Assistant Professor	VNRVJET
078	Dr	Narasimha Kumar Somasa	Asst.Professor	CBIT
079	Dr	Mahendra Babu Kantipudi	Assistant Professor	CBIT
080	Dr	G Lakshmaiah	Professor	Chaitanya Bharath Institut
081	Dr	N v srinivasulu	Professor	CBIT
082	Mr	T.Rampradesh	Associate Professor	IFET College of Engineerin
083	Mr	CH VINAY KUMAR	ASSISTANT PROFESSOR	MAHATMA GANDHI INST
086	Mr	M.CHINNALAL	ASSOCIATE PROFESSOR	TKRDET
088	Mrs	Eshwar.A	Assistant professor	IFET college of engineering
089	Mr	P. Ram Kishore Kumar Re	Professor	MAHATMA GANDHI INST
090	Mr	KASOJU BHARATH KUM	Assistant Professor	Mahatma Gandhi Institute
091	Mr	MAHESH CHANDA	ASSISTANT PROFESSOR	MAHATMA GANDHI INST
093	Mrs	P.ANJANI DEVI	Assistant Prof	CBIT
095	Mr	SAGAR B S	Assistant Professor	REVA University
096	Ms	Divya B V	Assistant Professor	REVA UNIVERSITY
097	Mr	N HIMABINDU	Assistant Professor	REVA University
098	Dr	RAGHU	Assistant Professor	REVA University
099	Ms	Saanithi S	Assistant professor	REVA University

# AICTE\_CBIT\_EEE\_STTP-Phase-3\_Quiz

22nd- 27th February 2021

\* Required

1. Email address \*

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2. 1. Which of the following is NOT the type of Hybrid Vehicle? \*

1 point

Mark only one oval.

- Plug-in Hybrid
- Parallel Hybrid
- Natural Gas For Vehicles
- Series Hybrid

3. 2. The Hybrid Electric Vehicle consists of : \*

1 point

Mark only one oval.

- Internal Combustion Engine + Electric Motor
- Motor Electric 1 + Motor electric 2
- NGV engine + Gasoline engine
- All of the above

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4. 3. "In this system, the engine is used to supply electrical power to the motor, which then turns the wheels" Select the type of Hybrid System according to above description. \* 1 point

Mark only one oval.

- Series Hybrid  
 Parallel Hybrid  
 Plug-in Hybrid  
 Series-parallel Hybrid

5. 4. \_\_\_\_\_ is defined as the fraction of the total energy or battery capacity that has been used over the total available from the battery. \* 1 point

Mark only one oval.

- Battery state of charge(BSOC)  
 Depth of Discharge (DOD)  
 Daily Depth of Discharge  
 None of the above

6. 5. \_\_\_\_\_ of a battery determines the fraction of power that can be withdrawn from the battery. \* 1 point

Mark only one oval.

- Battery state of charge(BSOC)  
 Depth of Discharge (DOD)  
 Daily Depth of Discharge  
 None of the above

2/16/2021

7. 6. Select the WRONG statement. \*

Mark only one oval.

- Toyota produced the Insight Hybrid
- Hybrid systems rely on very high voltages.
- All of the high-voltage cables are covered in orange sleeves for easy identification.
- To test high-voltage systems you need a Category 3 (CAT III) digital volt ohmmeter

1 point

8. 7. Select the cycle use in a Hybrid Engine. \*

Mark only one oval.

- Otto
- Diesel
- Atkinson
- Isentropic

9. 8. A Toyota Prius C Hybrid has \_\_\_ engine. \*

Mark only one oval.

- 1
- 2
- half
- no

1 point

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10. 9. A \_\_\_\_\_ is a vehicle that can run on just the engine, just the batteries, or a combination of the two. \* 1 point

Mark only one oval.

- Mild Hybrid  
 Full Hybrid  
 Fuel Cell  
 Assist Hybrid

11. 10. The benefits of a hybrid car include : \* 1 point

Mark only one oval.

- reducing emissions  
 improving gas mileage  
 high fuel consumption  
 high speed driving

12. 11. Regenerative braking involves : \* 1 point

Mark only one oval.

- nanofibers that repair the surface of brake pads  
 reducing the amount of friction necessary to slow a car  
 reclaiming heat from the brakes and using it for power  
 None of the above

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12. What is the operating voltage of the Toyota Prius version 2004? \*

1 point

Mark only one oval.

- 104 volts
- 399 volts
- 288 volts
- 500 volts

13. the rating of the battery is given by \*

1 point

Mark only one oval.


- watt
- VA
- Ahr
- volt

14. the type of converter used for battery operated two-wheeler is \_\_\_\_\_ \*

1 point

Mark only one oval.

- AC-AC
- AC-DC
- DC-DC
- DC-AC

  
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3/16/2021

AICTE\_CBIT\_EEE\_STTP-Phase-3\_Quiz

1 point

16. 15. Reliability of a system is \_\_\_\_\_ process \*

*Mark only one oval.*

- static
- dynamic
- mass
- batch

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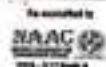
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Kokapet(Village), Gandipet, Hyderabad, Telangana-500075. [www.cbit.ac.in](http://www.cbit.ac.in)



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RESEARCH,  
INNOVATION AND  
EDUCATION

**41**  
years


**Report**

**on**

**AICTE Sponsored STTP on**

**“TRENDS & CHALLENGES OF HYBRID ELECTRIC DRIVE  
UTILITIES IN TRANSPORT SECTOR”**

**Ref No.34-65/RIFD/STT P/Policy-1/2018-19**

  
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CHAITANYA BHARATHI INSTITUTE OF TECHNOLOGY:: HYDERABAD  
(AUTONOMOUS)

AUDITED UTILIZATION CERTIFICATE

Name of the scheme under which the amount was sanctioned: SHORT TERM TRAINING PROGRAMME for the technical institutions for the Academic Year 2018-19 during the Financial Year 2019-20

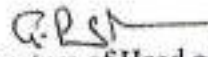
AICTE Sanction Order/Letter No.& Date under which the amount was sanctioned	Amount (Rs.)	- CERTIFICATE
File. No. 34-65/288/RIFD/STTP/Policy-1/2018-19 dated 10-01-2020	Grant Received Rs.3,00,000/- (Rupees Three Lakhs Only)	Certified that out of the grant-in-aid of Rs.3,00,000/- (Three Lakhs) sanctioned by the AICTE during the Financial Year 2019-20 as per the letter mentioned in the margin, a sum of Rs, 1,92,689/-(Rupees One Lakh and Ninety Two Thousand Six Hundred and Eighty Nine Only) has been utilized for the purpose for which it was sanctioned, and the balance of Rs.1,07,311/-(One Lakh Seven Thousand Three Hundred and Eleven only) remained unutilized at the end of the program.

Certified that I have satisfied myself that conditions on which the amount was sanctioned have been duly fulfilled and I have exercised the following checks to see that the money was actually utilized for the purpose for which it was sanctioned.

Kinds of checks exercised:-

1. Actual Expenditure

A.S.V. Subhadra Devi  
Place: CBIT, Hyderabad  
Smt. A. S. V. Subhadra Devi  
Superintendent, Chaitanya Bharathi Institute of Technology), Chaitanya Bharathi(Post), Gandipet, Hyderabad-500075

  
Signature of Head of the Institute  
Dr. G. P. Saradhi Varma, Principal,  
Chaitanya Bharathi Institute of Technology), Chaitanya Bharathi(Post), Gandipet, Hyderabad-500075

Full Address with Seal

Accounts Department  
CBIT

Principal  
Chaitanya Bharathi Institute of Technology  
(Autonomous)  
Gandipet, Hyderabad-500 075.

For BOLLA & ASSOCIATES  
Chartered Accountants

FRN : 016237S

  
BOLLA NAVEEN KUMAR  
Partner  
MRN : 237218



Date: 19-03-2021

UDIN: 21237218-AAAACD1930

  
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**CHAITANYA BHARATHI INSTITUTE OF TECHNOLOGY:: HYDERABAD**  
(AUTONOMOUS)  
**FOR RECEIPT AND PAYMENT ACCOUNT**  
(Financial Year 2020-21)

Ref.: Sanction Letter no File. No. 34-65/288/RIFD/STTP/Policy-1/2018-19 dated 10-01-2020

Sl. No	Date	Receipt	Amount (Rs)	Sl. No	Date	Payments	Amount (Rs)
1	10-01-2020	Amount Sanctioned by AICTE	3,00,000/-				
				1	17/12/2020	Dr. Umakantha Choudhury	9,000/-
				2	17/12/2020	Sri. G. Balawanth Reddy	3,000/-
				3	17/12/2020	Dr. Y. Chandrasekhar	6,000/-
				4	17/12/2020	Mr. M. Desai,	3,000/-
				5	17/12/2020	Sri Y.K. Lee	3,000/-
				6	17/12/2020	Mr. S. Ravi	3,000/-
				7	17/12/2020	Mr. S. Eswar Rao	3,000/-
				8	17/12/2020	Mr. Venkanna	3,000/-
				9	17/12/2020	Mr. Y. Rama Rao	3,000/-
				10	17/12/2020	Dr. P. V. N. Prasad	3,000/-
				11	17/12/2020	Mr. Jatil Sharma	3,000/-
				12	17/12/2020	Dr. R. Gopalan	3,000/-
				13	17/12/2020	Dr. G. Tulasi Ram Das	3,000/-
				14	17/12/2020	Honorarium to Course Coordinator	5,000/-
				15	17/12/2020	Computer Operator	3,000/-
				16	17/12/2020	Internet(Miscellaneous)	1,200/-
				17	25/01/2021	Dr. Umakantha Choudhury	18,000/-
				18	25/01/2021	Mr. M. Desai	4,500/-
				19	25/01/2021	Dr. P. Satish	4,500/-
				20	25/01/2021	Dr. Krishna Vasudevan	4,500/-
				21	25/01/2021	Dr. O. Chandrasekhar	4,500/-
				22	25/01/2021	Dr. V.T. Soma Sekhar	4,500/-
				23	25/01/2021	Dr. S. Venugopalan	4,500/-
				24	25/01/2021	Mr. Jatil Sharma	4,500/-
				25	25/01/2021	Honorarium to Course Coordinator	5,000/-
				26	25/01/2021	Computer Operator	3,000/-
				27	25/01/2021	Internet(Miscellaneous)	1,189/-



*SV*

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			28	Phase- III Expenditure	18/03/2021	Dr. Umakantha Choudhury	15,000/-
			29		18/03/2021	Raunak Choudhury	4,500/-
			30		18/03/2021	Mr. S. Ravi	4,500/-
			31		18/03/2021	Prof. V N Achutha Naikan	4,500/-
			32		18/03/2021	Prof. Krishna Vasudevan	4,500/-
			33		16/03/2021	Mr. M. Desai	4,500/-
			34		18/03/2021	Dr. NVPR Durga Prasad	3,000/-
			35		18/03/2021	Mr. Venkanna	3,000/-
			36		18/03/2021	Mr. S. Eswar Rao	4,500/-
			37		18/03/2021	Dr. G. Tulasi Ram Das	4,500/-
			38		18/03/2021	Dr.S.Venugopalan	4,500/-
			39		16/03/2021	Honorarium to Course Coordinator	5,000/-
			40		16/03/2021	Computer Operator	3,000/-
			41		18/03/2021	Miscellaneous	9,300/-
			42		18/03/2021	Auditor Fee	2,500/-
<b>Grand Total</b>		<b>3,00,000/-</b>			<b>Grand Total</b>	<b>1,92,689/-</b>	

A.S.V.Subhadra Devi  
Smt. A. S. V. Subhadra Devi  
Superintendent, Chaitanya Bharathi Institute of  
Technology, Chaitanya Bharathi(Post),  
Gandipet, Hyderabad-500075

Accounts Department  
CBIT

G.P.S. →  
Signature of Head of the Institute  
Dr. G. P. Saradhi Varma, Principal,  
Chaitanya Bharathi Institute of  
Technology, Chaitanya Bharathi(Post),  
Gandipet, Hyderabad-500075

Principal  
Chaitanya Bharathi Institute of Technology  
(Autonomous)  
Gandipet, Hyderabad 500 075.

For BOLLA & ASSOCIATES  
Chartered Accountants

FRN : 0162378

BOLLA NAVEEN KUMAR  
Partner  
MRN : 237218



Place: CBIT, Hyderabad  
Date: 19-03-2021

HEAD  
Dept. of EEE, CBIT (A)  
Gandipet, Hyderabad-75



CHAITANYA BHARATHI  
INSTITUTE OF TECHNOLOGY

Date: 20.03.2021

To

The Manager,  
ICICI Bank

Dear Sir,

Sub: Remittance of Amount by NEFT/RTGS

We enclose here with our Cheque No. 000432 dated 20.03.2021 for Rs.1,07,311/- drawn in your favour in your favour on A/c. No. 438501000041 and request you to send NEFT/RTGS Member, Secretary, AICTE, New Delhi as per details given here under.

Name of Beneficiary	:	Member, Secretary, AICTE, New Delhi
Beneficiary Bank Name	:	SBI
Beneficiary Account Number	:	5511109057
Beneficiary Branch Name	:	Shastri Bhawan, New Delhi
Beneficiary IFSC Code	:	SBIN0050203

Kindly acknowledge.

Thanking you

Yours Faithfully

For Chaitanya Bharathi Institute of Technology (A)

PRINCIPAL

  
PRESIDENT

26.03.2021





# All India Council for Technical Education

(A Statutory body under Ministry of HRD, Govt. of India)

Nelson Mandela Marg, Vasant Kunj, New Delhi-110070 Website: [www.aicte-india.org](http://www.aicte-india.org)



-STTP- Sanction Letter

Ref. No. 34-65/288/RIFD/STTP/Policy-1/2018-19

Date 10 JAN 2020

To  
The Drawing and Disbursing Officer,  
All India Council for Technical Education,  
Nelson Mandela Marg,  
Vasant Kunj, New Delhi - 110070

**Sub:** Release of grant for conduct of Short Term Training Programme (STTP) under AQIS 2018-19 during the financial year 2019-20- reg.

Sir,

This is to convey the sanction of the Council for payment of Rs. 300000 /- (Rupees Three Lakh Only) for conduct of Short Term Training Program as per details given below:-

1.	Name and address of the beneficiary University / Institution	CHAITANYA BHARATHI INSTITUTE OF TECHNOLOGY, CHAITANYA BHARATHI POST, GANDIPET, KOKAPET(VILL.) HYDERABAD. 500075 RANGAREDDI-500075 Telangana
2.	Permanent ID of Institute	1-4735791
3.	Institute type	Unaided - Private
4.	Name of Coordinator	Dr. MURALI TANGIRALA
5.	Amount sanctioned	Rs. 300000/-
6.	Amount to be released	Rs.300000/- Full & final payment
7.	Head of account	601.15(a) Gen. Short Term Training Programme (Plan)
8.	The authorized officer in whose favour Cheque/ Demand Draft/ RTGS is to be made	REGISTRAR / DIRECTOR / PRINCIPAL
9.	Title of the programme	Trends & Challenges of Hybrid Electric Drive Utilities in Transport Sector

1. The amount of the grant shall be drawn by the Drawing and Disbursing Officer, All India Council for Technical Education on the grant-in-aid bill and shall be disbursed to and credited to the Registrar/ Director/Principal of the institute through RTGS.
2. This grant-in-aid is being released in conformity with the terms & conditions as well as norms of the scheme as already communicated, and also being communicated in this letter.

HEAD

3. The Principal of the Institute and the Coordinator of the Program are requested to verify the correctness of the under-mentioned Bank Account / RTGS Details submitted by them alongwith the proposals, in which the grant is being released:-

Institute PAN No.	Bank Name	Bank Branch Name	Bank Branch Address	Account Holder Name	Account Type	Account Number	IFSC Code
AABTC1906A	Andhra Bank	CBIT Campus, Kokapet Branch	CBIT post, Gandipet, Hyderabad	Chaitanya Bharathi Institute of Technology	Current Account	06-4311011000003	ANDB0000613

### Instructions/Guidelines to be followed by the University/Institution

#### I. Disbursement of funds to University/Institutions

- The full amount of the grant sanctioned is being released as advance to the University/Institute.
- The amount spent by the institute on the conduct of STTP shall be adjusted on the basis of utilization certificate and detailed expenditure statement submitted by the University/Institution on the prescribed format along with other mandatory documents viz feedback form, copy of proceedings and completion report etc.
- The above said amount of grant shall be refunded back to AICTE if the Letter of Approval (LOA) / Extension of Approval (EOA) is not issued by AICTE to the institute for the academic year 2019-20.

#### II Maintenance of Accounts

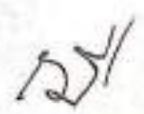
- The Institute shall strictly follow the provisions laid down in the scheme document as available on the portal.
- Funds covered by this grant shall be kept separately and would not be mixed up with other funds so as to know the amount of interest accrued on the grant.
- The University/College/Institute shall maintain proper accounts of the expenditure out of the grants, which shall be utilized only on approved items of expenditure.
- The grant is intended to cover items of expenditure connected with the Short Term Training Programme such as Boarding & Lodging to the participants, TA to outstation participants, Honorarium to Course Coordinator, reading material to participants, Honorarium to resource persons, TA/DA to resource persons including two outstations resource persons & working expenses (reprographic services, postage, transport, daily wages, tea/coffee etc.

#### III. Conduct of test and issuance of certificate

A test shall be conducted by Program Evaluation Committee (PEC) at the end of the program and the certificates shall be issued to those participants who have attended the program and have qualified in the test.

#### IV. Submission of Documents by the University/Institutions to AICTE

- The following mandatory relevant documents are required to be submitted to the University/Institution within one month of the completion of the program:

  
 HEAD  
 Dept. of ECE, CBIT (A)  
 Gandipet, Hyderabad-77

a. The following **mandatory relevant documents** are required to be submitted by the University/Institution within one month of the completion of the program:-

- (i) Original Statement of actual expenditure & Utilization Certificate in the prescribed proforma duly signed by the Head of the institution and countersigned by Registrar/Finance Officer/Govt. Auditor. In case of self-financing/private institutions, Statement of actual Expenditure & Utilization Certificate are required to be audited & signed and sealed by a Chartered Accountant endorsing the membership number and complete postal address. Format for the same is available on AICTE web portal.

The University/Institution is not required to submit bills/vouchers/invoices etc for the expenditure incurred out of recurring grants. However, such copies of bills/vouchers/invoices shall be digitized by respective institutions receiving grant and uploaded scanned copies of such bills/vouchers/invoices etc on the portal for availability and view at any point of time.

- (ii) Feedback form in the prescribed proforma.
- (iii) Copy of the proceedings and completion report.
- (iv) List of candidates who have successfully completed the program on the basis of the test conducted by Program Evaluation Committee (PEC).
- (v) Report submitted by Program Evaluation Committee (PEC).

b. The amount of the grant shall be adjusted on submission of utilization certificate & detailed expenditure statement by University/Institution. On receipt of these documents, the total amount of financial assistance, admissible as per the norms, shall be worked out and grant-in-aid adjusted.

#### V. General instructions

- a. Preferably 10% of the participants may be industry professionals deputed by industry. Further, not more than 2 participants shall be from the host institution/group of institutions.
- b. Money to be reimbursed on the grant (for any reasons to include unspent amount, interest, penalty if imposed) shall be refunded back to AICTE in the form of Demand Draft payable to Member Secretary, AICTE, New Delhi.
- c. As AICTE needs adequate time for depositing the Demand Draft in the bank, the same be immediately dispatched to avoid any lapse of the validity period.
- d. The STTP is a residential program of a duration of six days with minimum 40 participants. The approved STTP shall be conducted within three months from the date of release of funds.
- e. If programme is not conducted in the period of three months of the issuance of this Sanction Order, the released amount, alongwith interest accrued thereon, has to be necessarily returned back to AICTE within a month.
- f. The expenditure under the Heads 'Honorarium to Course Coordinator' and 'Honorarium to Resource Persons' shall not exceed 1% & 20% respectively of the total sanctioned grant for the Programme. However, overall expenditure shall not exceed the funds sanctioned for the Programme.

22/11/20  
HEAD  
Dept. of EEE, CBIT (A)  
Gandipet, Hyderabad-75

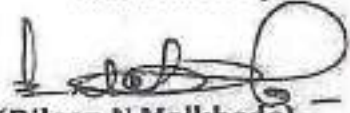
- g. Any extra money required to complete the programme must be borne by the institute from their own resources. But the quality of the activities should not be compromised.
- h. Any unavoidable circumstantial change in the program with respect to name of Project Coordinator, Venue and date for organizing STTP would mandatorily require prior approval of the Council. All such requests should be addressed to AICTE, in advance, recording the specific reasons for proposed changes, failing which the offer for the grant already issued would be treated as automatically withdrawn and the financial assistance released in favour of the beneficiary institution shall be refunded immediately to the Council. Kindly mention the File No. 34-65/288/RIFD/STTP/Policy-1/2018-19 in your future correspondence.
- i. **Program Evaluation Committee (PEC)** is required to be constituted at institutional level. The constitution of the PEC shall be as under:
  - (i) Principal/Director/Registrar of the institution (Chairperson).
  - (ii) Coordinator of the program (Member Secretary).
  - (iii) Two HoDs and one subject expert (members).

The members of the said PEC shall not be below the rank of Associate Professor. A test shall be conducted by Program Evaluation Committee (PEC) at the end of the program and the certificates shall be issued to those participants who have attended the program and have qualified in the test. The minutes of the meetings, along with PEC report, are to be submitted to the Council at end of the program along with other mandatory documents.

- j. **GoI GFR rules** (@<https://doe.gov.in/order-circular/general-financial-rules2017-0>) should be followed during utilization of grant.
- k. This Sanction Order may be treated as Offer Letter for all purposes.

**NOTE:- Any deviation from the above will invoke serious action against the Institute.**


Yours sincerely,

  
 (Dileep N Malkhede)  
 Advisor-I (RIFD)

116 JAN 2020

Copy forwarded for information and necessary action to:-

1. **Name and Address of the Coordinator**  
 Dr. MURALI TANGIRALA  
 CHAITANYA BHARATHI INSTITUTE OF TECHNOLOGY  
 CHAITANYA BHARATHI POST, GANDIPET, KOKAPET(VILL.) HYDERABAD. 500075  
 HYDERABAD 500075 Telangana
2. **The Registrar / Director / Principal**  
 CHAITANYA BHARATHI INSTITUTE OF TECHNOLOGY  
 CHAITANYA BHARATHI POST, GANDIPET, KOKAPET(VILL.) HYDERABAD. 500075  
 HYDERABAD 500075 Telangana
3. **Guard File**

  
 HEAD  
 Dept. of EEE, CBIT (A)  
 Gandipet, Hyderabad-75



Phone : 011-26131576, 77, 78, 80  
Website : www.aicte-india.org



संस्कृत (२०१)

अखिल भारतीय तकनीकी शिक्षा परिषद्

(भारत सरकार का एक शासित निकाय)

मंत्रालय संसाधन विकास विभाग, भारत सरकार

नेशनल मंदीरा मार्ग, नई दिल्ली-110067

ALL INDIA COUNCIL FOR TECHNICAL EDUCATION

(A Statutory Body of the Govt. of India)

Ministry of Human Resource Development, Govt. of India

Nelson Mandela Marg, New Delhi-110067

Col. B. Venkat  
Director (FDC)  
E-mail: [director.fdc@aicte-india.org](mailto:director.fdc@aicte-india.org)  
Mob. No. 8130255472

25 June 2020

**Sub:-For information of AICTE approved institutes which have received grants for conducting STTP's/FDP's under AQIS 2018-19.**

Sir,

This is in reference to grants released by AICTE under AQIS 2018-19 for conduct of STTP's/FDPs. It is being observed that due to present circumstances of ongoing pandemic of COVID-19, most of Institutes are facing difficulties in organizing and conducting STTP's. This office has received a number of requests from various institute to allow on line method of conducting STTP/FDP to complete their commitments.

In this regard, it is to inform that all such institutes, which have already received grants for conducting STTP's/FDPs through prevailing contact mode, are allowed to conduct STTP's through online mode subject to following conditions:

- (i) The Institute will be allowed to adjust the grants received for STTP at following rates:-

a.	Honorarium for Coordinator	Rs. 5000.00
b.	Honorarium to experts	Rs. 75000.00
c.	Provision for payment to lab attendant engaged during lab practices	Rs. 3000.00
d.	miscellaneous charge	Rs. 10000.00
<b>Total for each STTP's</b>		<b>Rs 93000.00</b>

- (ii) The Institute will conduct more than one STTP's in multiples of Rs. 93000.00 within the total grant received by it and shall return the balance unspent amount to AICTE.

e.g.

if an Institute has received grant for STTP,		=Rs 3,00,000.00
Cost of three STTP	3x93000=	Rs. 279000.00
<b>Balance</b>		<b>= Rs. 21,000.00</b>

The institute will return the balance unspent amount of Rs.21,000.00 alongwith interest earned on such amounts to AICTE while submitting UC for adjustment of accounts for keeping its eligibility for receiving grants in next AQIS.



सूचना का  
अधिकार

HEAD  
Dept. of EEE, CBIT (A)  
Gandipet, Hyderabad-75

- (iii) The institute will conduct all three STTP's as explained above on the same topic which has been approved by AICTE while releasing the grants.
- (iv) Firm dates for each program will be intimated to AICTE beforehand.

On similar lines FDP (02 week program) to be conducted online has the following approval totaling to Rs. 1,86,000.00.

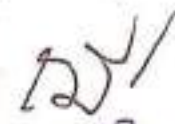
a.	Honorarium for Coordinator	Rs. 5000.00
b.	Honorarium to experts	Rs. 1,68,000.00
c.	Provision for payment to lab attendant engaged during lab practices	Rs. 3000.00
d.	miscellaneous charge	Rs. 10000.00
<b>Total for each FDPs</b>		<b>Rs 1,86,000.00</b>

The conducting of FDP's (two weeks program) shall be subjected to the similar conditions (i) to (iv) given above for conduct STTP courses, except rates of Honorarium to experts.

You are requested to acknowledge receipt of above guidelines and convey your consent if your institute is ready for conducting the STTP through online format on conditions explained above.

**It is once again reiterated that online conduct of FDP & STTP will be on explicit permission of AICTE.**

  
Yours sincerely,  
25 June 2020  
Director (FDC)

  
HEAD  
Dept. of EEE, CBIT (A)  
Gandipet, Hyderabad-75

**Fwd: CBIT, Hyderabad - Pandemic situation - Permission to conduct the STTP Online - Requested - Reg.**

Principal CBIT &lt;principal@cbit.ac.in&gt;

Sun, Aug 2, 2020 at 6:11 PM

To: EEE HEAD &lt;hod\_eee@cbit.ac.in&gt;, "Dr.T.Murali Krishna Assistant Professor" &lt;tmuralikrishna\_eee@cbit.ac.in&gt;

----- Forwarded message -----

From: Col B Venkat &lt;director.fdc@aicte-india.org&gt;

Date: Sun, Aug 2, 2020, 5:09 PM

Subject: Re: CBIT, Hyderabad - Pandemic situation - Permission to conduct the STTP Online - Requested - Reg.

To: Principal CBIT &lt;principal@cbit.ac.in&gt;

1. Conduct of 03 STTPs in online mode are hereby **approved**.

2. Following to be ensured

- Each STTP will be for 06 days from Monday to Saturday, followed by an online exam on last working day ie. Saturday. Certificates will only be issued to those participants who have attended regularly and qualify in the exam with minimum 60% marks.

- STTPs to be scheduled in such a manner that in a month only one is conducted (Space it out evenly so as to complete it by 31 Dec 2020).

- Post successful completion, balance unutilised amount along with interest generated will be returned by RTGS as per the letter.

- **Online link of the inauguration will be shared with this office for all the STTPs with an invite for the inaugural function.**

3. This will be treated as an official correspondence on the subject and will be enclosed at the time of submission of Final Utilisation certificate.

With warm regards,

Col B Venkat,

Director (Faculty Development)

AICTE, New Delhi

Mobile - 8130255472

On Fri, Jul 31, 2020 at 2:33 PM Principal CBIT &lt;principal@cbit.ac.in&gt; wrote:

Respected Sir,

Ref : 1. STTP- Sanctioned - L.No.34-65/288/RIFD/STTP/Policy-1/2018-19 dated.10-01-2020  
(Enclosed)

2. Letter issued by AICTE regrading this dated 25-06-2020. (Enclosed)

3. Brochure of STTP (Phase-1) -(Enclosed)

4. Tentative Schedule

This is to bring to your kind notice that the Department of Electrical and Electronics Engineering of our Institute got sanctioned with Rs.3,00,000/- to conduct STTP on "Trends and Challenges of Hybrid Electric Drive utilities in Transport sector" as Dr. T. Murali Krishna as coordinator, vide Ref.(1) cited above.


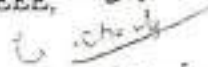


In this regard, it is contemplated to conduct the sanctioned STTP into THREE phases through on-line platform, vide reference (2) cited. In this connction, we request you to

HEAD  
Dept. of EEE, CBIT (A)  
Gandipet, Hyderabad-75

Date: 03-03-2020

Minutes of the meeting conducted on 3<sup>rd</sup> March, 2020.

Members Present:

1. Dr. P. Ravinder Reddy, Principal, CBIT
2. Dr. G. Suresh Babu, Prof & Head, Dept. of EEE, 
3. Dr. U.K. Choudhury, Prof. Dept. of EEE, 
4. Dr. T. Murali Krishna, Assoc. Prof, Dept. of EEE, 
5. Smt. N.Vasantha Gowri, Asst. Prof, Dept. of EEE, 

The meeting started with the greetings from the Head of the department.

Item No.1 :To form Program Evaluation Committee


Minutes : Principal Dr. P. Ravinder Reddy suggested the two HoD names Dr. D. Krishna Reddy & Dr. P. Suresh as PEC members and Prof. U.K. Choudhury as subject expert in PEC

Item No.2 : To discuss and finalize the schedule for STTP

Minutes : HoD asked the coordinator of STTP to prepare Brochure & Schedule for STTP from 20<sup>th</sup> - 25<sup>th</sup> April 2020,

Item No.3: Preparation of Schedule

Minutes : The subject expert of this STTP, Dr. U. K. Choudhary has suggested resource persons for the phase I. Dr. N. Vasantha Gowri & Sri. C. Harish are asked be the co-coordinators for Phase-1



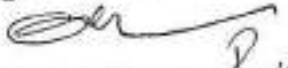

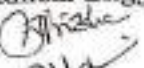

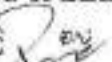
  
HEAD  
Dept. of EEE, CBIT (A)  
Gandipet, Hyderabad-75



Date: 20-07-2020

Minutes of the meeting conducted on 20<sup>th</sup> July, 2020.

Members Present:

1. Dr. P. Ravinder Reddy, Principal, CBIT
2. Dr. G. Suresh Babu, Prof & Head, Dept. of EEE, 
3. Dr. U.K. Choudhury, Prof. Dept. of EEE, 
4. Dr. D. Krishna Reddy, Head, Dept. of ECE, 
5. Dr. P.V. R. Ravindra Reddy, Head, Dept. of Mechanical Engg., 
6. Dr. T. Murali Krishna, Assoc. Prof, Dept. of EEE, 
7. Smt. N. Vasantha Gowri, Asst. Prof, Dept. of EEE, 
8. Mr. M. Nagaraju, Asst. Prof, Dept. of EEE, 

The meeting started with the greetings from the Head of the department.

Item No.1 : To form Program Evaluation Committee

Minutes : Principal Dr. P. Ravinder Reddy suggested the two HoD names Dr. D. Krishna Reddy & Dr. P.V. R. Ravinder Reddy as PEC members and Prof. U.K. Choudhury as subject expert in PEC

Item No.2 : To Conduct STTP on on-line mode

Minutes : HoD asked the coordinator of STTP to prepare Brochure & Schedule for STTP to be conducted as per the AICTE guidelines in three phases and put up a letter to AICTE for approval. Tentative Schedules are as follows

First phase is from 3<sup>rd</sup> to 8<sup>th</sup> August 2020,  
Second phase is from 24<sup>th</sup> to 29<sup>th</sup> August 2020 and  
Third phase is from 7<sup>th</sup> to 12<sup>th</sup> September 2020.

Item No.3: Conduct of STTP

Minutes : Dr. N. Vasantha Gowri & Sri. M. Nagaraju are asked be the co-coordinators for Phase-1

  
HEAD  
Dept. of EEE, CBIT (A)  
Gandipet, Hyderabad-75

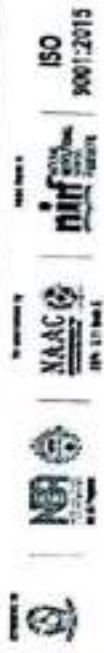
**LABORATORY  
EXPERIMENTS ANALYSIS  
FOR REINFORCEMENT OF  
NEXUS ( NON TEACHING )**

12  
2023-2024  
Page No. \_\_\_\_\_  
Date: \_\_\_\_\_



**CHAITANYA BHARATHI  
INSTITUTE OF TECHNOLOGY (A)**

Kokapet(Village), Gandipet, Hyderabad, Telangana-500075. [www.cb.it.ac.in](http://www.cb.it.ac.in)



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**Laboratory Experiment Analysis  
for Reinforcement of Nexus**

**LEARN**

**A Two Week Skill Development Program for  
Technical Staff**

*[Signature]*  
HEAD  
of EEE, CBIT (A)  
Hyderabad-7

**CHAITANYA BHARATHI INSTITUTE OF TECHNOLOGY  
(Autonomous)**

**ABOUT THE COLLEGE/CBIT** is one of the premier Engineering Institutes in INDIA, pioneer in Telangana state which is at subtle surroundings of Gandipet Lake, Hyderabad. The college offers Nine UG and Eleven PG programs. It has been standing as a temple of knowledge for the past 39 years by producing about 21,000 eminent and skilful graduate engineers, who are successful in their careers, serving all over the world. It was accredited many times by NBA-AICTE and NAAC-UGC. UGC has granted autonomous status to this Institute from the academic year 2013-14 onwards. The grants received from AICTE/UGC are worth about Rs. 2.5 crores. Brilliant and meritorious candidates with good EAMC ET rank availing admission CBIT students are grabbing the opportunity of entering into MNCs through college placement cell.

**ABOUT LEARN PROGRAM:** In technical education, practical training and developing expertise in application of theoretical knowledge has a great importance. The key role of the technical staff in supporting the process of transformation of technical skills among students is commendable / significant. It is the technical supporting staff, who has a more direct bearing on the quality of education. At present, there is short provision for training & development of technical staff under quality improvement programme. With change in the instructional and developmental processes and the utilization of more sophisticated and delicate instruments and equipment, the need to train and develop this category of staff is being felt acutely. To meet diverse requirements and challenges in the profession, technical staff must be provided facilities to his continuous education and for acquiring new competencies. No attempt at quality improvement would be complete without giving due attention to this category of staff.

**OBJECTIVES OF LEARN PROGRAM:**

- To enlighten qualities of the Instructor
- To enhance the fundamental concepts in Electrical & Electronics Engg.
- To touch upon the trouble shooting aspect of day-to-day lab work
- To amplify the computation skills

**Schedule of the program:**  
18-01-2021 to 30-01-2021:  
**Laboratory Instructions**

**CHIEF PATRON:**  
**Dr.G.P.Saradhi Varma**  
Principal CBIT

**CONVENER:**  
**Dr.G.Suresh Babu**  
Head, Dept of EEE

**COORDINATOR:**  
**Dr.N.Vasantha Gowri**  
Assistant Professor, Dept of EEE

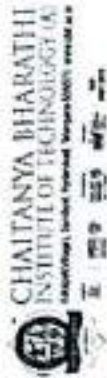
**CONTACT INFORMATION**

Department of EEE  
Chaitanya Bharathi Institute of Technology  
Chaitanya Bharathi (P.O),  
Gandipet, Hyderabad - 500 075,  
E-mail: vasanthagowri\_eee@cbit.ac.in  
Mobile: 9052221446

**ORGANIZING COMMITTEE:**  
All teaching, technical staff of EEE department

*The true laboratory is  
the mind, where behind  
illusions we uncover  
the laws of truth.*

*Jagadish Chandra Bose*  
More scientific spirit at Taty in Science History  
Development.com



CHAITANYA BHARATHI  
INSTITUTE OF TECHNOLOGY  
Department of Electrical Engineering  
Gandipet, Hyderabad - 500075

41  
POST

**Department of  
Electrical & Electronics Engineering**  
**Laboratory Experiment Analysis  
for Reinforcement of Nexus  
[LEARN]**

**18<sup>th</sup> to 30<sup>th</sup> January 2021**

*Skill Development Program for  
Technical Staff*

HEAD  
Dept. of EEE, CBIT (A)  
Gandipet, Hyderabad-75

**Chaitanya Bharathi Institute of Technology  
(Autonomous)**

Kokapet(Village), Gandipet,  
Hyderabad-500075, Telangana. www.cbit.ac.in  
ISO 9001:2015 Certified Institute

**DEPARTMENT OF EEE::CBIT(A)  
LEARN [18.01.2021-30-01.2021]  
Master Schedule**

Date	10AM-11 AM	11.30 AM - 12.30PM	1.30 PM -2.30 PM	3PM- 4PM
18-01-2021 (DE Lab)	SCR Characteristics(PE Lab/Dr.T.M.K)	Gate triggering ckt (PE Lab/Dr.T.M.K)	AC Voltage controller (PE Lab/Dr.T.M.K)	Cyclo converter (PE Lab/Dr.T.M.K)
19-01-2021 (DE Lab)	Demorgan's theorem (DE Lab/Shri C.H.)	Adders & Subtractors (DE Lab/Shri C.H.)	k-maps, Mux & de mux (DE Lab/Shri C.H.)	Encoder & decoder (DE Lab/Shri C.H.)
20-01-2021 (DE Lab)	Commutation ckt (PE Lab/Dr.T.M.K)	Chopper ckt (PE Lab/Dr.T.M.K)	Half controlled converter (PE Lab/Dr.T.M.K)	Fully controlled converter (PE Lab/Dr.T.M.K)
21-01-2021 (DE Lab)	Latch & flip – flops (DE Lab/Shri C.H.)	SR, JK Flip - Flops (DE Lab/Shri C.H.)	D & T Flip – Flops (DE Lab/Shri C.H.)	Shift Registers (DE Lab/Shri C.H.)
22-01-2021 (DE Lab)	Study of Solar PVTR (PG Lab/ Shri C.S / Dr.G.S.B)	Study of Solar PVTR (PG Lab/ Shri C.S / Dr.G.S.B)	Synchronous counters (DE Lab/Shri C.H.)	Asynchronous counters (DE Lab/Shri C.H.)
23-01-2021 (DE Lab)	Linear system simulator (LCS Lab/Shri D.H)	Time response of second order system (LCS Lab/Shri D.H)	Magnetic amplifier (LCS Lab/Shri D.H)	P, PI, PID controller (LCS Lab/Shri D.H)
25-01-2021 (DE Lab)	Transistor Characteristics (AEC Lab / Dr. P.K)	CE Amplifier (AEC Lab / Dr. P.K)	FET Characteristics (AEC Lab / Dr. P.K)	OP Amp parameters (AEC Lab / Dr. P.K)
27-01-2021 (DE Lab)	Inverting & Non Inverting Amplifier (AEC Lab / Dr. P.K)	Integrator (AEC Lab / Dr. P.K)	Differentiator (AEC Lab / Dr. P.K)	Triangle Generator (AEC Lab / Dr. P.K)
28-01-2021 (DE Lab)	AC servo motor (LCS Lab/Shri D.H)	DC position controller (LCS Lab/Shri D.H)	Square Generator (AEC Lab / Dr. P.K)	Schmitt Trigger (AEC Lab / Dr. P.K)
29-01-2021 (DE Lab)	Half bridge inverter (PE Lab/Dr.T.M.K)	Full bridge inverter (PE Lab/Dr.T.M.K)	Study of Solar Emulator (PG Lab/ Shri C.S / Dr.G.S.B)	Study of Solar Emulator (PG Lab/ Shri C.S / Dr.G.S.B)

  
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COMMITTED TO  
RESEARCH,  
INNOVATION AND  
EDUCATION

41  
YEARS

Chaitanya Bharathi Institute of Technology  
(Autonomous)

Department of Electrical & Electronics Engineering  
Laboratory Experiment Analysis for Reinforcement of Nexus

[LEARN]

18<sup>th</sup> to 30<sup>th</sup> January 2021

Report of the program

This program was commenced on 18-1-2021 by Dr.G.Suresh Babu and Head of EEE department and Dr.N.Vsantha Gowri, Co-ordinator of the program. Day wise happenings of the program is given below.

18-01-2021:

- Basics of semiconductor devices are explained by Dr. T. Muralikrishna Assoc prof, EEE
- Basic and universal logic gates and Boolean equations are discussed by Shri Ch.Harish Asst prof, EEE

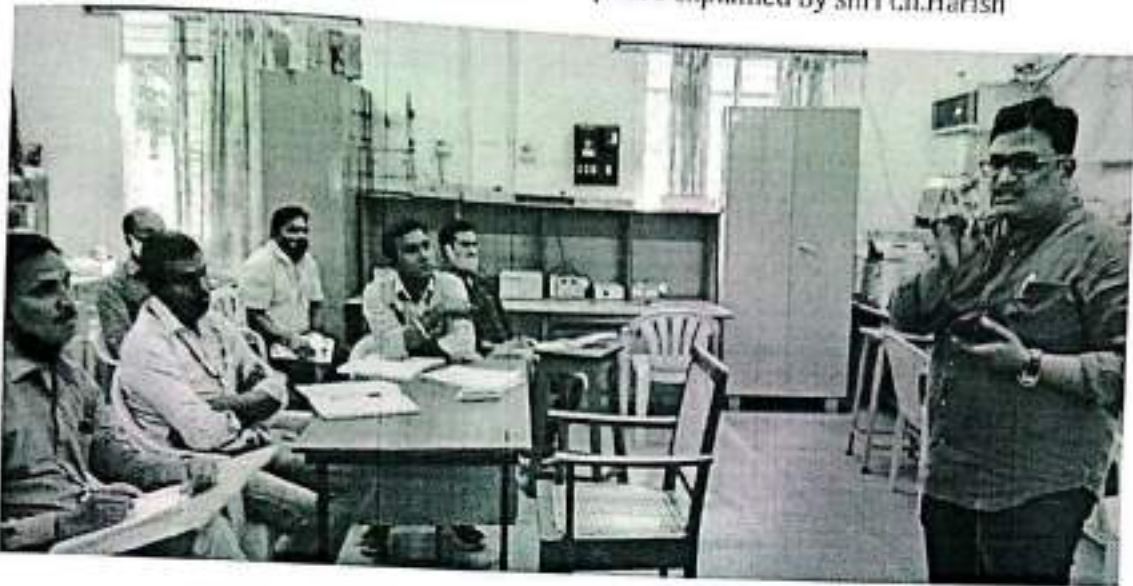


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19-01-2021:


- Logic gates and Boolean equations are practiced on hardware kits by technical staff
- Half adder, Full adder and 2 input k-maps are explained by shri Ch.Harish



20-01-2021:

- SCR Characteristics are practiced on hardware kit by technical staff
- Effect of doping level on switching devices and comparison of different switching devices discussed by Dr.T.Muralikrishna



  
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21-01-2021:

- Commutation circuits and effect of inductive load on SCR are discussed by Dr.T.Muralikrishna
- Forward and reverse bias characteristics of P-N diode and Zener diode are explained by Dr.P.Kowstubha



22-01-2021:

- Diode characteristics practiced on bread board by technical staff
- BJT Input and output characteristics are explained by Dr.P.Kowstubha



  
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**23-01-2021:**

- Difference between open loop and closed loop systems is discussed by shri D.Harsha
- Effect of P,PI& PID on temperature controller is explained by shri D.Harsha



**25-01-2021:**

- Op Amp working principle and voltage follower are discussed by Dr. P.Kowstubha
- Inverting and non-inverting amplifiers are explained by Dr.P.Kowstubha



  
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27-01-2021:

- Class - A and Class - B commutation circuits are explained by Dr.T.Muralikrishna
- Gate triggering circuits are practiced on hardware kits by technical staff



28-01-2021:

- Introduction to solar PVTR and solar emulator is given by Dr.G.Suresh Babu
- Fixed mode, Table mode and Simulation mode operation of solar emulator is explained by shri. Sai varun.



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29-01-2021:

- Inverting and non-inverting amplifiers are practiced on bread board by technical staff
- Commutation circuits practiced on hardware kits by technical staff



30-01-2021:

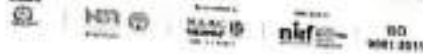
- Valedictory & Certificate distribution for the participants has been conducted. Principal Dr. GPS Varma distributed the certificates to the participants.



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41  
years

**A Two week Skill Development Program  
for Technical Staff**

**Laboratory Experiments Analysis for  
Reinforcement of Nexus  
LEARN**


**CERTIFICATE OF PARTICIPATION**

This is to Certify Mr. of \_\_\_\_\_ CBIT, has attended a  
Two week skill development program on “**Laboratory Experiments  
Analysis for Reinforcement of Nexus**” LEARN, conducted by the  
department of Electrical and Electronics Engineering from **18.01.2021  
to 30.01.2021**.

**Dr.N.VASANTHA GOWRI**  
COORDINATOR- LEARN

**Prof.G.SURESH BABU**  
HEAD, DEPT. OF EEE

**Prof. G.P.S.VARMA**  
PRINCIPAL

  
HEAD  
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EDUCATION

41  
years

**Department of Electrical & Electronics Engineering**

To


Dr.T.Murali Krishna

Assoc. Prof Dept of EEE, CBIT(A)

This is to express sincere thanks to you ,for having accepted and been part of a two week skill development programme for technical staff Laboratory Experiment Analysis for Reinforcement of Nexus[LEARN]held during 18<sup>th</sup> to 30<sup>th</sup> January 2021and trained them in Power Electronics Lab.

Dr.N.Vasantha Gowri  
Coordinator

Dr G Suresh Babu  
Professor & Head-EEE

  
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**DAILY REPORT**  
of  
the TWO week Programme -LEARN  
[18.01.2021-30.01.2021]

Name of the participant: K. Malleshwari


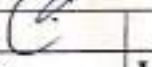
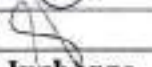

DAY & DATE: 18/01/2021

slots	Scheduled	Practically happened	Remarks
10AM--11AM	SCR characteristics	Semiconductor	
11.30-12.30PM	Gate triggering	SCR characteristics	
1.30 - 2.30 PM	AC voltage controller	Basic universal	
3.00-4.00 PM	cyclo converter	Boolean Laws	

**Inference of today's sessions: (take away)**

1. Semiconductor characteristics basics
2. Latching and holding currents of SCR
3. Basic gates are Learned.

**Signatures**

			
<b>Participant</b>	<b>Resource Person</b>	<b>Lab Incharge</b>	<b>Coordinator-LEARN</b>

  
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[18.01.2021-30.01.2021]

Name of the participant: S. Srinivas

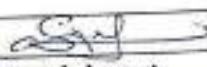


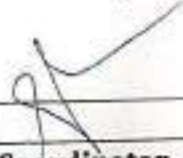
DAY & DATE: 18.01-2021


slots	Scheduled	Practically happened	Remarks
10AM--11AM	PC Lab		
11.30-12.30PM	PE Lab	SCR-Chromatography	
1.30 - 2.30 PM	DE Lab		
3.00-4.00 PM	OE Lab		

Inference of today's sessions: (take away)

1. I got little bit idea about digital electronic lab (Basic logic Gates & Universal Gates)
- 2.
- 3.

Signatures

			
Participant	Resource Person	Lab Incharge	Coordinator-LEARN

  
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[18.01.2021-30.01.2021]

Name of the participant: B. Maheshwar

DAY & DATE: 18-01-2021

slots	Scheduled	Practically happened	Remarks
10AM--11AM	P.E. Lab	SCR Character	
11.30-12.30PM	PE Lab	SCR Character	
1.30 - 2.30 PM	D.E Lab		
3.00-4.00 PM	D.E Lab		

Inference of today's sessions: (take away)

1. How to connect easy way. SCR. Circuit diagram.
2. Latching and Holding Current
3. Basic Logic gates

Signatures

B. Maheshwar			
Participant	Resource Person	Lab Incharge	Coordinator-LEARN

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[18.01.2021-30.01.2021]

Name of the participant: P. Venemadhavachary

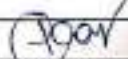



DAY & DATE: 18/01/2021


slots	Scheduled	Practically happened	Remarks
10AM--11AM	PE LAB		
11.30-12.30PM	PE LAB	SCR-Characteristics	
1.30 - 2.30 PM	DE LAB		
3.00-4.00 PM	DE LAB		

Inference of today's sessions: (take away)

1. I learned power Electronics components
2. Basic & Universal gates learned
3. Boolean laws are explained.

Signatures

			
Participant	Resource Person	Lab Incharge	Coordinator-LEARN

  
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[18.01.2021-30.01.2021]

Name of the participant: KRSIMORE.M





DAY & DATE: MONDAY 18/01/2021

slots	Scheduled	Practically happened	Remarks
10AM--11AM	PE lab (SCR charact)	PE class introduction	
11.30-12.30PM	PE Lab (Gate charact)	SCR characteristics	
1.30 - 2.30 PM	PE Lab (Vx voltage control)	DE introduction	
3.00-4.00 PM	PE lab (cyclic inverter)	DE Gate structure table	

Inference of today's sessions: (take away)

1. Studied about semiconductor physics and also studied about conduction of diode characteristics.
2. In afternoon session, studied about different types of logic gates and simplification with K-maps (two).
3. Studied about boolean laws.

Signatures

			
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[18.01.2021-30.01.2021]

Name of the participant: A.KRISHNAMA CHARY

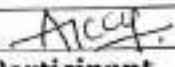



DAY & DATE: MONDAY 18-01-2021


slots	Scheduled	Practically happened	Remarks
10AM--11AM	S.C.R. Characteris.	Semiconductor devices	
11.30-12.30PM	Gate triggering	S.C.R Characteris.	
1.30 - 2.30 PM	A.c Voltage Control	S.C.R Characteris.	
3.00-4.00 PM	Cyclo Converter.	Basic Gates.	

Inference of today's sessions: (take away)

1. Semiconductor characteristics Basics.
2. Latching and holding Currents of SCR.
3. Basic Gates are learned.

Signatures

			
Participant	Resource Person	Lab Incharge	Coordinator-LEARN

  
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[18.01.2021-30.01.2021]

Name of the participant: V. Siva Rama Krishna

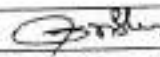


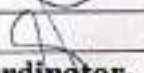
DAY & DATE: 18-01-2021 (MON DAY)

slots	Scheduled	Practically happened	Remarks
10AM--11AM	scr character	semiconductor characteristics	
11.30-12.30PM	Gate triggering	scr characteristics	
1.30 - 2.30 PM	AC voltage control	Basic & universal gates	
3.00-4.00 PM	cyclo converter	Boolean laws	

Inference of today's sessions: (take away)

1. Basics of power Electronics ~~lab~~ components learned.
2. Difference between basic & universal gates learned.
3. Boolean laws are explained.

Signatures

			
Participant	Resource Person	Lab Incharge	Coordinator-LEARN

  
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[18.01.2021-30.01.2021]

Name of the participant: B. yadav ah

DAY & DATE: 18/01/2021

slots	Scheduled	Practically happened	Remarks
10AM--11AM	P.E-Lab	Semi conductor	
11.30-12.30PM	S.C.R. & G.BT	S.C.R. experiment	
1.30 - 2.30 PM	D.E-Lab	Basic Universal	
3.00-4.00 PM	D.E-Lab	gates	

Inference of today's sessions: (take away)

1. P.E Lab :- Basics of power Electronics  
Semi conductors
2. Difference between basic & universal gates  
Lessons
3. S.C.R. & G.BT Experiment Lessons (P.E)  
Lab.

Signatures

Participant	Resource Person	Lab Incharge	Coordinator-LEARN
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[18.01.2021-30.01.2021]

Name of the participant: V. Siva Rama Krishna

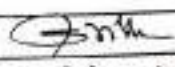


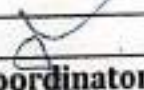
DAY & DATE: 19-01-2021, Tuesday


slots	Scheduled	Practically happened	Remarks
10AM-11AM	Demorgan's theorem	Logic gate practice	
11.30-12.30PM	Adders & Subtractor	Boolean Equations	
1.30 - 2.30 PM	K-maps, mux, de-mux	Half Adder & Subtractor	
3.00-4.00 PM	encoders & De coder	Full Adder & Subtractor	

Inference of today's sessions: (take away)

1. Min terms & max terms learned.
2. K-maps practiced for 3 inputs.
3. And Equations derived from k-maps.

Signatures

			
Participant	Resource Person	Lab Incharge	Coordinator-LEARN

  
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[18.01.2021-30.01.2021]

Name of the participant:





DAY & DATE: 19-01-2021


slots	Scheduled	Practically happened	Remarks
10AM-11AM	DE-lab	Introduction about	
11.30-12.30PM	DE-lab	Kits & Logical Gates	
1.30 - 2.30 PM	DE-lab	Full adder & half	
3.00-4.00 PM	DE-lab	Full & half subtractor	

Inference of today's sessions: (take away)

1. practiced logical Gates on kits
2. Learning Full adder & Half adder & sub
3. Full subtractor & Half subtractor

Signatures

			
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[18.01.2021-30.01.2021]

Name of the participant: K. Mallesha



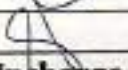
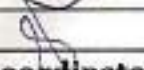
DAY & DATE: 19/01/2021

slots	Scheduled	Practically happened	Remarks
10AM--11AM	DE Lab	Testing of kit gate	
11.30-12.30PM	DE Lab	Testing of kit gate	
1.30 - 2.30 PM	DE Lab	Half adder & subtractor	
3.00-4.00 PM	DE Lab	Full adder & subtractor	

Inference of today's sessions: (take away)

1. K-maps Practised for 3 inputs
2. kits testing of gates AND gate or gate, NOT gate NAND gate on kits practically.
- 3.

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[18.01.2021-30.01.2021]

Name of the participant: KISHORE M

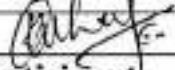
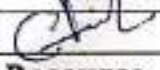
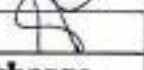

DAY & DATE: 19/01/2021, TUESDAY.


slots	Scheduled	Practically happened	Remarks
10AM--11AM	DE LAB - DEMONSTRATIONS	PRACTICE WITH KIT	
11.30-12.30PM	DE LAB - ADDITION & SUBTRACTOR	PRACTICE WITH KIT	
1.30 - 2.30 PM	DE LAB - K-MAPS	DE LAB - K-MAPS.	
3.00-4.00 PM	DE LAB - ENCODER, DECODER	K-MAPS, SUBTRACTORS.	

Inference of today's sessions: (take away)

1. Practiced all the gates on the kit
2. I studied about K-MAPS
3. studied about encoder & subtractors.

Signatures

			
Participant	Resource Person	Lab Incharge	Coordinator-LEARN

  
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[18.01.2021-30.01.2021]

Name of the participant: P. Venemoolhavachary





DAY & DATE: Tuesday - 19/01/2021

slots	Scheduled	Practically happened	Remarks
10AM--11AM	DE LAB - Demu	practice with bit	
11.30-12.30PM	DE LAB address	practice with bit	
1.30 - 2.30 PM	DE LAB - <sup>Subtractor</sup> K-map	DE LAB - K-map	
3.00-4.00 PM	DE LAB - Encoder	Address Subtractor	

Inference of today's sessions: (take away)

1. practiced all the gates on 'two bits
2. I studied about K-map
3. Studied about Address & Subtractor

Signatures

			
Participant	Resource Person	Lab Incharge	Coordinator-LEARN

  
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[18.01.2021-30.01.2021]

Name of the participant: B. Maheshwar



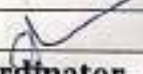
DAY & DATE: 19-01-2021


slots	Scheduled	Practically happened	Remarks
10AM--11AM	Practic DE	practic of	
11.30-12.30PM	Practic DE	DE-Lab	
1.30 - 2.30 PM	Theroy DE	trab adder	
3.00-4.00 PM	Theroy DE	Full adder	

Inference of today's sessions: (take away)

1. Practic of Logic gates
2. verify the truth table
- 3.

Signatures

B. Maheshwar			
Participant	Resource Person	Lab Incharge	Coordinator-LEARN

  
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[18.01.2021-30.01.2021]

Name of the participant: A. KRISHNAMA CHARY

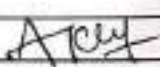

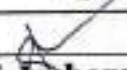

DAY & DATE: TUESDAY 19-01-2021


slots	Scheduled	Practically happened	Remarks
10AM--11AM	Demorgan's theorem	testing of kit gates	
11.30-12.30PM	Address Substructure	testing of kit gates	
1.30 - 2.30 PM	K-map, minterm & maxterm	Mr. Anish Jain	
3.00-4.00 PM	Encoder & Decoder	Classical map substructure	

Inference of today's sessions: (take away)

1. Kits testing of gates. AND Gate or Gate, NOT Gate NAND Gate. ON kits, practicing.
- 2.
- 3.

Signatures

			
Participant	Resource Person	Lab Incharge	Coordinator-LEARN

  
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DAILY REPORT  
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[18.01.2021-30.01.2021]

Name of the participant: S. Srinivas


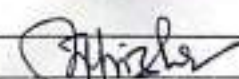


DAY & DATE: 20-01-21 (wed)


slots	Scheduled	Practically happened	Remarks
10AM-11AM	commutation ckt	Choppers	
11.30-12.30PM	chopper ckt		
1.30 - 2.30 PM	Halt controlled com Diode		
3.00-4.00 PM	Fully converter		

Inference of today's sessions: (take away)

1. I learned valuable information about transistor's family and SCR characteristics. from Dr. T. Murali Krishna
- 2.
- 3.

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[18.01.2021-30.01.2021]

Name of the participant: K. Malleshya


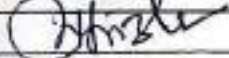

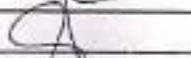
DAY & DATE: 22/01/2021 Wednesday


slots	Scheduled	Practically happened	Remarks
10AM--11AM	Commutation ext	SCR characteristic	
11.30-12.30PM	Chopper ext	Effect of doping level	
1.30 - 2.30 PM	Half controlled convert	Switching devices	
3.00-4.00 PM	Fully converted	Comparison Model	Review

Inference of today's sessions: (take away)

1. Effect of doping level on Transistors learned
2. characteristics of SCR, BJT, MOSFET, IGBT, diode.
- 3.

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[18.01.2021-30.01.2021]

Name of the participant: B. Maheshwar

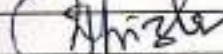


DAY & DATE: WEDNESDAY 20-01-2021


slots	Scheduled	Practically happened	Remarks
10AM--11AM	Commutation ckt	Theory part	
11.30-12.30PM	Transistors	✓	
1.30 - 2.30 PM	SCR, RTT	"	
3.00-4.00 PM	Chopper	✓	

Inference of today's sessions: (take away)

1. good knowlege <sup>about</sup> of diodes
2. Transistors. types of transistors
3. Conduction of forward and Reverse blocking

Signatures

B. Maheshwar			
Participant	Resource Person	Lab Incharge	Coordinator-LEARN

  
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[18.01.2021-30.01.2021]

Name of the participant: KISHORE M

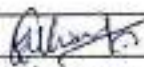
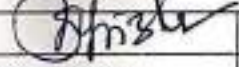

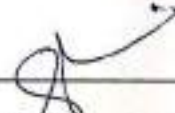
DAY & DATE: WEDNESDAY, 20/01/21


slots	Scheduled	Practically happened	Remarks
10AM--11AM	commutation ckt	commutation ckt	
11.30-12.30PM	Chopper circuit	Switching device	
1.30 - 2.30 PM	Half controlled Rect.	Half controlled Rect.	
3.00-4.00 PM	Full controlled Rect.	fully controlled Rect.	

**Inference of today's sessions: (take away)**

1. studied about SCR, Transistor and I<sub>c</sub>'s characteristics.
2. studied about Half controlled and fully controlled Rectifiers.
3. Differences between BJT, MOSFET and IGBT.

**Signatures**

			
<b>Participant</b>	<b>Resource Person</b>	<b>Lab Incharge</b>	<b>Coordinator-LEARN</b>

  
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[18.01.2021-30.01.2021]

Name of the participant: P. Venu Madhava Chary

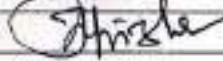


DAY & DATE: Wednesday & 20-01-2021


slots	Scheduled	Practically happened	Remarks
10AM-11AM	Commutation ckt	see character	
11.30-12.30PM	Chopper cts.	Effect of Doping level	
1.30 - 2.30 PM	Half controlled	Switching Device.	
3.00-4.00 PM	Fully controlled	Comparison of MOSFET, IGBT, BJT	

Inference of today's sessions: (take away)

1. Diference b/w transistor IGBT MOSFET  
Theory clear basics and about
2. triggering circuits and thyristor its  
layers How to it controlled.
3. Reverse and Forward blocking mode

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[18.01.2021-30.01.2021]

Name of the participant: A. KRISHNA MA CHARY

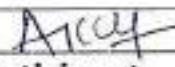
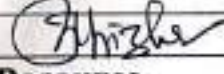
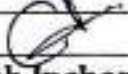

DAY & DATE: WEDNESDAY 20-01-2021


slots	Scheduled	Practically happened	Remarks
10AM--11AM	Commutation ckt	Theory class	
11.30-12.30PM	chopper ckt	Practical with	
1.30 - 2.30 PM	Half controlled comm	murali/krishna	
3.00-4.00 PM	Rally converter	Sir with subject	

Inference of today's sessions: (take away)

1. Diode of transistor & EGT MOSFET. Theory, class notes and about
2. triggering circuits and thyristors and its layers How to it connected we learned.
3. Reverse and forward blocking mode.

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[18.01.2021-30.01.2021]

Name of the participant: V. Siva Rama Krishna

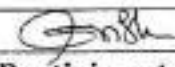
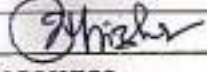

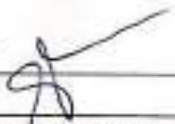
DAY & DATE: 20-01-2021 a Wednesday


slots	Scheduled	Practically happened	Remarks
10AM--11AM	commutation ckt	see characteristics	
11.30-12.30PM	chopper ckt	Effect of doping level	
1.30 - 2.30 PM	Half controlled converter	switching devices	
3.00-4.00 PM	Fully converter	comparison MOSFET, IGBT, BJT	

Inference of today's sessions: (take away)

1. Effect of doping level on transistor learned.
2. characteristics of SCR, BJT, MOSFET, IGBT discussed.
3. Applications of switching devices.

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[18.01.2021-30.01.2021]

Name of the participant: B. yadaviah

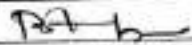
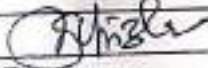

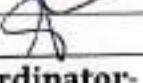
DAY & DATE: 20/01/2021 - Monday

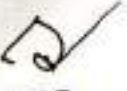
slots	Scheduled	Practically happened	Remarks
10AM--11AM	Commutation	SCR - SCR Converter	
11.30-12.30PM	Chopper	CRT Effect of Doping	
1.30 - 2.30 PM	Half control	Converter - Switching devices	
3.00-4.00 PM	Fully Converter	Competition MOSFET, IGBT, BJT	

Inference of today's sessions: (take away)

1. Effect of doping level on Transition Level
2. Characteristics of SCR, BJT, MOSFET, IGBT Level
3. Applications of Switching devices

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[18.01.2021-30.01.2021]

Name of the participant: B. Maheshwar

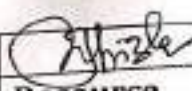

DAY & DATE: Thursday & 21-01-2021

slots	Scheduled	Practically happened	Remarks
10AM-11AM	Latch & Flip-Flops	commutation ckt	
11.30-12.30PM	SR-JK Flip-Flops	Ringing ckt	
1.30 - 2.30 PM	DCT Flip-Flops	P-N Diode characteristics	
3.00-4.00 PM	Shift Registers	Zener Diode voltage regulator	

Inference of today's sessions: (take away)

1. SCR Characteristics.
2. Latching and holding Current
3. diode. forward and reverse biased.

Signatures

B. Maheshwar			
Participant	Resource Person	Lab Incharge	Coordinator-LEARN

P. Kowthar

P. Kowthar

  
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[18.01.2021-30.01.2021]

Name of the participant: M. Kishore

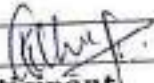
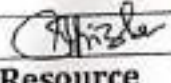

DAY & DATE: Thursday 4 21-01-2021

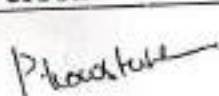
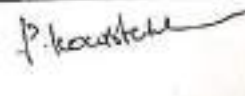
slots	Scheduled	Practically happened	Remarks
10AM-11AM	Latch & Flip-Flops	commutation ckt	
11.30-12.30PM	SR & JK Flip-flops	Ringing ckt	
1.30 - 2.30 PM	DAT flip-flops	P-N diode characteristics	
3.00-4.00 PM	shift registers	Zener diode voltage regulator	


Inference of today's sessions: (take away)

1. Study of about line commutation and forced commutation.
2. Ringing circuit (or) Tank circuit.
3. P-N junction diode and its characteristics and also studied about Zener diode.

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[18.01.2021-30.01.2021]

Name of the participant: S. Seemivas


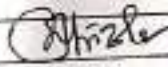
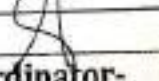
DAY & DATE: Thursday & 21-01-2021

slots	Scheduled	Practically happened	Remarks
10AM-11AM	Latch & Flip-flop	Commutation circ.	
11.30-12.30PM	SR & JK flip-flops	Ringing circ.	
1.30 - 2.30 PM	DAT Flip-Flop	P-N Diode characteristics	
3.00-4.00 PM	Shift Register	Zener diode voltage regulator	

Inference of today's sessions: (take away)

1. I studied SR characteristics & applications
- 2.
- 3.

Signatures

			
Participant	Resource Person	Lab Incharge	Coordinator-LEARN

P. Koushik

P. Koushik

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[18.01.2021-30.01.2021]

Name of the participant: B. Yadaiah

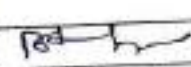
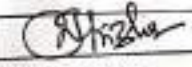
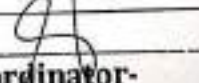
DAY & DATE: Thursday & 21-01-2021

slots	Scheduled	Practically happened	Remarks
10AM-11AM	Latch & Flip-flops	Commutations	
11.30-12.30PM	SR-JK Flip-flops	Ringing ckt	
1.30 - 2.30 PM	DST Flip-flops	p-n diode characteristics	
3.00-4.00 PM	Shift registers	Zener diode voltage regulator	

Inference of today's sessions: (take away)

1. S-CR Latching Current Learn
2. S-CR. Holding Current Learn  
& P-N diode Learn
3. Zener diode & diode Learn

Signatures

			
Participant	Resource Person	Lab Incharge	Coordinator-LEARN

P. Kowstall

P. Kowstall

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[18.01.2021-30.01.2021]

Name of the participant: K. Mallesha


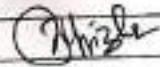

DAY & DATE: Thursday & 21-01-2021

slots	Scheduled	Practically happened	Remarks
10AM--11AM	Latch & Flip-flops	commutation ckt	
11.30-12.30PM	SR-JK Flip-flops	Ringing ckt	
1.30 - 2.30 PM	DFT flip-flops	P-N diode characteristic.	
3.00-4.00 PM	Shift registers	Zener diode characteristic.	

Inference of today's sessions: (take away)

1. I learned Latching current and Holding current in SR
2. I studied Zener diode characteristics
- 3.

Signatures

			
Participant	Resource Person	Lab Incharge	Coordinator-LEARN

P. K. S. S. K. - P. K. S. S. K.

  
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[18.01.2021-30.01.2021]

Name of the participant: P. Venumadhava Chary

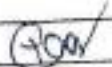
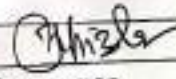
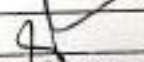
DAY & DATE: Thursday & 21-01-2021

slots	Scheduled	Practically happened	Remarks
10AM--11AM	Latch & flip-flops	commutation ckt	
11.30-12.30PM	SR-JK flip-flops	ringing ckt	
1.30 - 2.30 PM	D & T flip-flops	P-N diode characteristics	
3.00-4.00 PM	Shift Registers	Zener diode voltage regulator	

Inference of today's sessions: (take away)

1. Effect of inductive load on a SER
2. Voltage & current directions in L & C elements
3. Regulation of Voltage using Zener diode.

Signatures

			
Participant	Resource Person	Lab Incharge	Coordinator-LEARN

P. Venumadhava Chary      P. Venumadhava Chary

  
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[18.01.2021-30.01.2021]

Name of the participant: V. Siva Rama Krishna

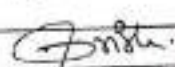
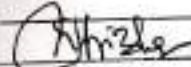
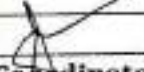
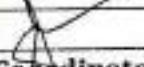
DAY & DATE: Thursday 21-01-2021

slots	Scheduled	Practically happened	Remarks
10AM--11AM	Latch & Flip-Flops	commutation ckt	
11.30-12.30PM	SR-JK Flip-Flops	ringing ckt	
1.30 - 2.30 PM	D ET Flip-Flops	P-N Diode characteristics	
3.00-4.00 PM	Shift registers	Zener diode voltage regulator	

Inference of today's sessions: (take away)

1. Effect of inductive load on SCR in
2. voltage & current directions in LCC elements.
3. Regulation of voltage using zener diode.

Signatures

			
Participant	Resource Person	Lab Incharge	Coordinator-LEARN

P. Koushika

P. Koushika

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DAILY REPORT  
of  
the TWO week Programme -LEARN

[18.01.2021-30.01.2021]

Name of the participant: A. Krishnama Chary

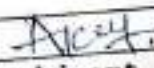
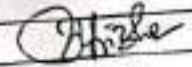
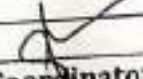
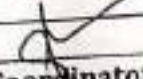
DAY & DATE: Thursday 21-01-2021

slots	Scheduled	Practically happened	Remarks
10AM-11AM	Latch & flip-flop	commutation ckt	
11.30-12.30PM	sc-jk flip-flops	ringing ckt	
1.30 - 2.30 PM	D & T flip-flops	P-N Diode characteristics	
3.00-4.00 PM	Shift registers	Zener Diode & Voltage regulator	

Inference of today's sessions: (take away)

1. Commutation circuit how to off-for S.C.R with capacitor and blocking mode and forward blocking mode
2. Diode and Zener characteristics
- 3.

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Participant	Resource Person	Lab Incharge	Coordinator-LEARN

P. Kowthika

P. Kowthika



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[18.01.2021-30.01.2021]

Name of the participant: V. Siva Rama Krishna

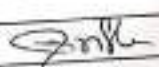



DAY & DATE: Friday & 22-01-2021

slots	Scheduled	Practically happened	Remarks
10AM--11AM	Solar pure	transistor characteristics	Theory
11.30-12.30PM	Solar pure	Transistor Amplifier	Theory
1.30 - 2.30 PM	Synchronous condt	CE characteristics	Practical
3.00-4.00 PM	Synchronous condt	CE Amplifier	Practical

Inference of today's sessions: (take away)

1. Property of resistance of transistor varies with respect to base current applied.
- 2.
- 3.

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[18.01.2021-30.01.2021]

Name of the participant: S. Srinivas

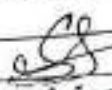



DAY & DATE: 22-01-2021


slots	Scheduled	Practically happened	Remarks
10AM--11AM	Study of solar panel	Diode-Zener	
11.30-12.30PM	"	Diode Experiment	
1.30 - 2.30 PM	Sy. Counters	Transistor BJT	
3.00-4.00 PM	Asy. Counters	BJT, Amplifiers	

Inference of today's sessions: (take away)

1. Diode experiment forward & Reverse biodes
2. BJT, Input & op characteristics
- 3.

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 Participant	 Resource Person	 Lab Incharge	 Coordinator-LEARN
----------------------------------------------------------------------------------------------------	--------------------------------------------------------------------------------------------------------	-----------------------------------------------------------------------------------------------------	------------------------------------------------------------------------------------------------------------

  
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[18.01.2021-30.01.2021]

Name of the participant: B. Yadav


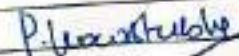

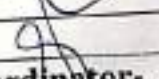
DAY & DATE: 22/01/2021

slots	Scheduled Programme	Practically happened	Remarks
10AM-11AM	Study of Solar	Study of P.M.P. Zener - Diode	
11.30-12.30PM	Experiment	Diode Experiment	
1.30 - 2.30 PM	Synchronous Converter	Characteristics of A	Characteristics
3.00-4.00 PM	Synchronous Converter	BJT Characteristic	Characteristics

Inference of today's sessions: (take away)

1. Diode Experiment - Forward diode & Reverse diode.
2. Afternoon BJT characteristic learned
- 3.

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[18.01.2021-30.01.2021]

Name of the participant: A. KRISHNA MA CHARJ

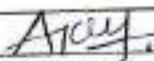

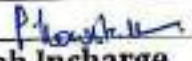
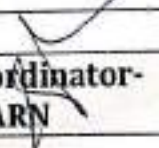
DAY & DATE: FRIDAY 22-01-2021

slots	Scheduled	Practically happened	Remarks
10AM--11AM	Study of solar PVTR	Diode and Z error.	
11.30-12.30PM	Study of solar PVTR	Diode experiments done.	
1.30 - 2.30 PM	Synchronous Couplers	Transistor BJT characteristics Amplifier	
3.00-4.00 PM	Asynchronous Couplers	BJT Characteristics	done

**Inference of today's sessions: (take away)**

1. diode experiment forward and Reverse bias done.
2. After noon BJT characteristics Learned.
- 3.

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[18.01.2021-30.01.2021]

Name of the participant: P. Venkumadhavachary

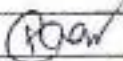
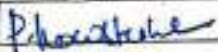
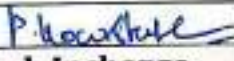
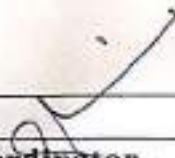
DAY & DATE: Friday 22/01/2021


slots	Scheduled	Practically happened	Remarks
10AM--11AM	Solar PVTA	Transistor characteristics theory	
11.30-12.30PM	Solar PVTA	Transistor Amplifier theory	
1.30 - 2.30 PM	Synchrotron	CE Characteristics practical	
3.00-4.00 PM	Synchrotron	CE Amplifier practical	

Inference of today's sessions: (take away)

1. Property of resistance of transistor varies with respect to base current applied.
- 2.
- 3.

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[18.01.2021-30.01.2021]

Name of the participant: K. Mulesha

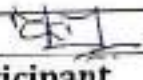



DAY & DATE: Friday 22/01/2021

slots	Scheduled	Practically happened	Remarks
10AM--11AM	Solar pvt	Transistor characteristics	Theory
11.30-12.30PM	Solar pvt	Transistor Amplifier	Theory
1.30 - 2.30 PM	Synchronous counter	CE characteristic	practical
3.00-4.00 PM	A Synchronous counter	CE Amplifier	practical

Inference of today's sessions: (take away)

1. Property of resistance of Transistor varies with respect to base current applied
- 2.
- 3.

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[18.01.2021-30.01.2021]

Name of the participant: B. Maheshwar

DAY & DATE: FRIDAY 22-01-21

slots	Scheduled	Practically happened	Remarks
10AM--11AM	Study of PVT	Diode	
11.30-12.30PM	study of PVT	Diode exp	
1.30 - 2.30 PM	Synchronous	Transistor	
3.00-4.00 PM	Asynchronous	(BJT)	

Inference of today's sessions: (take away)

1. Characteristics of diode.
2. Characteristics of Transistor.
3. Forward Characteristic and Reverse characteristic.

Signatures

B. Maheshwar	P. Koushik	P. Koushik	
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[18.01.2021-30.01.2021]

Name of the participant: K. S. H. M


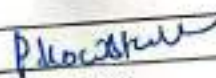
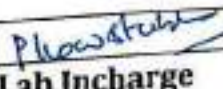

DAY & DATE: FRIDAY, 22/01/2021

slots	Scheduled	Practically happened	Remarks
10AM--11AM	solar PVR (study)	Diode characteristics	
11.30-12.30PM	solar PVR (study)	zener diode charact	
1.30 - 2.30 PM	synchronous counter	transistor characteristics	
3.00-4.00 PM	Asynchronous counter	amplifier characteristics	

Inference of today's sessions: (take away)

1. In the morning we did diode (P-N junction) characteristics practically
2. In afternoon studied about Transistor characteristics and amplification
3. I did experiment practically i.e., transistor characteristics.

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[18.01.2021-30.01.2021]

Name of the participant:

DAY & DATE:

slots	Scheduled	Practically happened	Remarks
10AM--11AM			
11.30-12.30PM			
1.30 - 2.30 PM			
3.00-4.00 PM			

Inference of today's sessions: (take away)


1.

2.

3.

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[18.01.2021-30.01.2021]

Name of the participant:

DAY & DATE:

slots	Scheduled	Practically happened	Remarks
10AM-11AM			
11.30-12.30PM			
1.30 - 2.30 PM			
3.00-4.00 PM			

Inference of today's sessions: (take away)


1.

2.

3.

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[18.01.2021-30.01.2021]

Name of the participant:

DAY & DATE:

slots	Scheduled	Practically happened	Remarks
10AM--11AM			
11.30-12.30PM			
1.30 - 2.30 PM			
3.00-4.00 PM			

Inference of today's sessions: (take away)

- 1.
- 2.
- 3.

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[18.01.2021-30.01.2021]

Name of the participant:

DAY & DATE:

slots	Scheduled	Practically happened	Remarks
10AM--11AM			
11.30-12.30PM			
1.30 - 2.30 PM			
3.00-4.00 PM			

Inference of today's sessions: (take away)

1.

2.

3.

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**LEARN [18.01.2021-30-01.2021]**  
**Master Schedule**

Date	10AM-11 AM	11.30 AM - 12.30PM	1.30 PM -2.30 PM	3PM- 4PM
18-01-2021 (DE Lab)	SCR Characteristics (PE Lab/Dr.T.M.K)	Gate triggering ckt (PE Lab/Dr.T.M.K)	AC Voltage controller (PE Lab/Dr.T.M.K)	Cyclo converter (PE Lab/Dr.T.M.K)
19-01-2021 (DE Lab)	Demorgan's theorem (DE Lab/Shri C.H.)	Adders & Subtractors (DE Lab/Shri C.H.)	k-map, Mux & de mux (DE Lab/Shri C.H.)	Encoder & decoder (DE Lab/Shri C.H.)
20-01-2021 (DE Lab)	Commutation ckt (PE Lab/Dr.T.M.K)	Chopper ckt (PE Lab/Dr.T.M.K)	Half controlled converter (PE Lab/Dr.T.M.K)	Fully controlled converter (PE Lab/Dr.T.M.K)
21-01-2021 (DE Lab)	Latch & flip - flops (DE Lab/Shri C.H.)	SR, JK Flip - Flops (DE Lab/Shri C.H.)	D & T Flip - Flops (DE Lab/Shri C.H.)	Shift Registers (DE Lab/Shri C.H.)
22-01-2021 (DE Lab)	Study of Solar PVTR (PG Lab/ Shri C.S / Dr.G.S.B)	Study of Solar PVTR (PG Lab/ Shri C.S / Dr.G.S.B)	Synchronous counters (DE Lab/Shri C.H.)	Asynchronous counters (DE Lab/Shri C.H.)
23-01-2021 (DE Lab)	Linear system simulator (LCS Lab/Shri D.H)	Time response of second order system (LCS Lab/Shri D.H)	Magnetic amplifier (LCS Lab/Shri D.H)	P, PI, PID controller (LCS Lab/Shri D.H)
25-01-2021 (DE Lab)	Transistor Characteristics (AEC Lab / Dr. P.K)	CE Amplifier (AEC Lab / Dr. P.K)	FET Characteristics (AEC Lab / Dr. P.K)	OP Amp parameters (AEC Lab / Dr. P.K)
27-01-2021 (DE Lab)	Inverting & Non Inverting Amplifier (AEC Lab / Dr. P.K)	Integrator (AEC Lab / Dr. P.K)	Differentiator (AEC Lab / Dr. P.K)	Triangle Generator (AEC Lab / Dr. P.K)
28-01-2021 (DE Lab)	AC servo motor (LCS Lab/Shri D.H)	DC position controller (LCS Lab/Shri D.H)	Square Generator (AEC Lab / Dr. P.K)	Schmitt Trigger (AEC Lab / Dr. P.K)
29-01-2021 (DE Lab)	Half bridge inverter (PE Lab/Dr.T.M.K)	Full bridge inverter (PE Lab/Dr.T.M.K)	Study of Solar Emulator (PG Lab/ Shri C.S / Dr.G.S.B)	Study of Solar Emulator (PG Lab/ Shri C.S / Dr.G.S.B)

*Les practHeat.*

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[18.01.2021-30.01.2021]

Name of the participant:

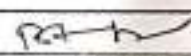

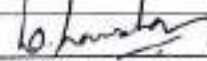
DAY & DATE: 23/01/2021 - Friday

slots	Scheduled	Practically happened	Remarks
10AM--11AM	Linear System	Linear system simulator	
11.30-12.30PM	simulators		
1.30 - 2.30 PM	Time response of magnetic amplifier	Time Response of magnetic amplifier	3.05
3.00-4.00 PM	P, PI, PID control	P, PI, PID Controller	

**Inference of today's sessions: (take away)**

1. Difference between open loop & closed loop system.
2. -ve feed back is used in closed loop controller system.
- 3.

**Signatures**

			
<b>Participant</b>	<b>Resource Person</b>	<b>Lab Incharge</b>	<b>Coordinator-LEARN</b>

  
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[18.01.2021-30.01.2021]

Name of the participant: V. Siva Ramakrishna

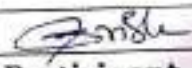
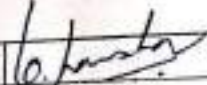
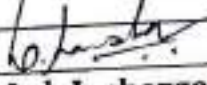
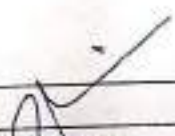
DAY & DATE: Saturday 23-01-2021

slots	Scheduled	Practically happened	Remarks
10AM--11AM	Linear system sim.	Time response, AC servomotor	
11.30-12.30PM	Time response	P, PI, PID & DC servomotor	
1.30 - 2.30 PM	Magnetic Amplifier	Magnetic amplifier	
3.00-4.00 PM	P, PI, PID	P, PI, PID Controller	

Inference of today's sessions: (take away)

1. Difference between open loop & closed loop systems.
2. -ve feedback is used in closed loop control systems.
- 3.

Signatures

			
Participant	Resource Person	Lab Incharge	Coordinator-LEARN

  
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[18.01.2021-30.01.2021]

Name of the participant: K. Mulotha


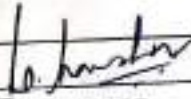
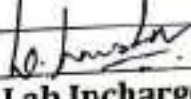
DAY & DATE: 23/01/2021 Saturday.

slots	Scheduled	Practically happened	Remarks
10AM-11AM	Linear system	Linear systems simulator	
11.30-12.30PM	Time response of <sup>simulator</sup> second order system	Time response of	
1.30 - 2.30 PM	Magnetic amplifier	Magnetic amplifier	
3.00-4.00 PM	P-Pi-pid controlled	P-pi-pid controlled	

Inference of today's sessions: (take away)

1. See Time response of second order systems Experiment and D.C servo motor Experiment and AC
2. Servo motor Exp and Magnetic Amplifier.
3. And P-Pi-PID controllers and compensation
3. Network Theory part done etc.

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[18.01.2021-30.01.2021]

Name of the participant: A. KRISHNAMA CHARY

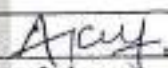
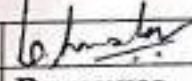
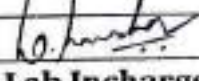
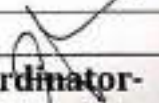
DAY & DATE: SATURDAY 23-01-2021


slots	Scheduled	Practically happened	Remarks
10AM--11AM	Linear system simulator	Linear system simulator	
11.30-12.30PM	Time response of S.O.S	Time response of S.O.S	
1.30 - 2.30 PM	Magnetic Amplifier	Magnetic Amplifier	
3.00-4.00 PM	P, PI, PID Controller	P, PI, PID Controller	

Inference of today's sessions: (take away)

1. Time Response of second order system experiment and D.C Servomotor Experiment and A.C.
2. Servomotor exp. and magnetic Amplifier and P, PI, PID Controller and Compensating network theory part done etc.
- 3.

Signatures

			
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Gandipet, Hyderabad-75

Department of EEE:: CBIT(A)

DAILY REPORT  
of  
the TWO week Programme -LEARN

[18.01.2021-30.01.2021]

Name of the participant: KISHORE.M;

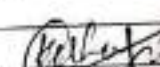
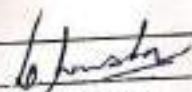
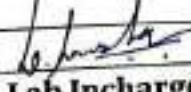
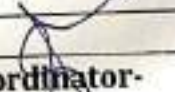
DAY & DATE: SATURDAY 9 23/01/2021

slots	Scheduled	Practically happened	Remarks
10AM--11AM	Linear system simulator	Linear system simulator	
11.30-12.30PM	Time response of S.O.S	Time response of S.O.S	
1.30 - 2.30 PM	magnetic amplifier	magnetic amplifier	
3.00-4.00 PM	P, PI, PID controller	P, PI, PID controller	

Inference of today's sessions: (take away)

1. studied about time response of second order system with the equations.
2. studied about delay time, rise time, peak time, overshoot also AC & DC servomotors
3. Learn about magnetic amplifier and linear system simulator.

Signatures

			
Participant	Resource Person	Lab Incharge	Coordinator-LEARN

  
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[18.01.2021-30.01.2021]

Name of the participant: B. Maheshwar

DAY & DATE: SATURDAY. 23-01-2021

slots	Scheduled	Practically happened	Remarks
10AM--11AM	Linear System <sup>Sim</sup>	Theory	
11.30-12.30PM	Time Response <sup>2nd</sup>	"	
1.30 - 2.30 PM	Magnetic Amplifier	"	
3.00-4.00 PM	P-PID Control	"	

Inference of today's sessions: (take away)

1. How to lead. and. lag. network identified
2. Transient Response and. Maximum peak
3.  $I_L$  and  $I_C$  depend on. Control winding

Signatures

B. Maheshwar	B. Maheshwar	B. Maheshwar	
Participant	Resource Person	Lab Incharge	Coordinator-LEARN

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DAILY REPORT  
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[18.01.2021-30.01.2021]

Name of the participant: P Venkateshwarthy




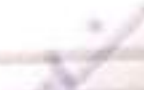
DAY & DATE: 23/01/2021

Slot	Scheduled	Practically Suggested	Remarks
10:00 - 11:00	Linear System	Open Loop	
11:30 - 12:30 PM	Linear System	Open Loop	
1:30 - 2:30 PM	Linear System	Asymptotic Stability	
3:00 - 4:00 PM	Linear System	Log & Level Compensator	

Influence of today's activities (take away)

1. Studied open loop closed loop system and its sensor motor & etc
2. Asymptotic stability & log & level compensator
3. Computer Aided System Simulation

Signatures

 Participant	 Supervisor Person	 Lab Incharge	 Course Officer LEARN
----------------------------------------------------------------------------------------------------	-------------------------------------------------------------------------------------------------------------	-----------------------------------------------------------------------------------------------------	------------------------------------------------------------------------------------------------------------------

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[18.01.2021-30.01.2021]

Name of the participant: S. Sathish

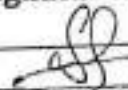
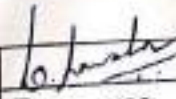
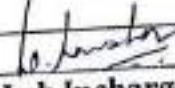

DAY & DATE: 23-01-2021


slots	Scheduled	Practically happened	Remarks
10AM--11AM	Linear System	open loop sys	
11.30-12.30PM	linear system	DC servo motor	
1.30 - 2.30 PM	linear system	magnetic amplifier	
3.00-4.00 PM	"	lag & lead compensator	

Inference of today's sessions: (take away)

1. I studied open loop & closed loop system
2. and DC servo motor & AE
3. magnetic amplifier & lag & lead compensator  
linear system simulators

Signatures

			
Participant	Resource Person	Lab Incharge	Coordinator-LEARN

  
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[18.01.2021-30.01.2021]

Name of the participant: B. Yadaviah.

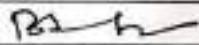


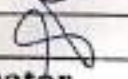
DAY & DATE: Monday - 25/01/2021


slots	Scheduled	Practically happened	Remarks
10AM-11AM	<del>transistor characteristics of Amp principles</del>		
11.30-12.30PM	<del>C.E Amplifier voltage follower</del>		
1.30 - 2.30 PM	<del>FET characteristic Inverting &amp; Non-Inverting Amp</del>		
3.00-4.00 PM	<del>O.P - Amp parameter Inverter</del>		

Inference of today's sessions: (take away)

1. O.P - Amp is a cascading connection of Differential Amplifiers
2. Integrator is a wave shaping circuits
- 3.

Signatures

			
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[18.01.2021-30.01.2021]

Name of the participant: A. KRISHNAMA CHARY

DAY & DATE: MONDAY 25-01-2021

slots	Scheduled	Practically happened	Remarks
10AM--11AM	Transistor Characteristic	OP Amp. Class	Parallel
11.30-12.30PM	CE Amplifier	OP Amp. Class	Parallel
1.30 - 2.30 PM	FET	OP Amp. Class	Parallel
3.00-4.00 PM	OP Amp.	OP Amp. Class	Parallel

**Inference of today's sessions: (take away)**

1. OP Amp Internal circuit. How. it's and OP Amp experiment done inverting and.
2. Non Inverting experiment done
- 3.

Signatures

<u>A. Chary</u>	<u>P. Venkatesh</u>	<u>P. Venkatesh</u>	<u>[Signature]</u>
Participant	Resource Person	Lab Incharge	Coordinator-LEARN

  
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[18.01.2021-30.01.2021]

Name of the participant: KISHORE.M


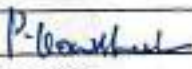
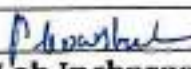
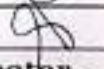
DAY & DATE: 25/01/2021 9 MONDAY.


slots	Scheduled	Practically happened	Remarks
10AM--11AM	Transistor characteristics	Transistor charact-	
11.30-12.30PM	CE Amplifier	CE Amplifier	
1.30 - 2.30 PM	FET characteristics	FET characteristics	
3.00-4.00 PM	OPAMP parameters	OPAMP parameters.	

Inference of today's sessions: (take away)

1. studied about transistor characteristics.
2. studied about CE configuration and its application characteristics.
3. OPAMP is an integration of multiple transistor in a single chip.

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[18.01.2021-30.01.2021]

Name of the participant: K. Mallekha


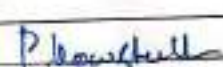
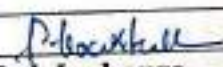

DAY & DATE: 25/01/2021 (Monday)


slots	Scheduled	Practically happened	Remarks
10AM--11AM	Transistor characteristics	Transistor characteristics	
11.30-12.30PM	CE AmpV fder	CE Amplifier	
1.30 - 2.30 PM	FET characteristics	FET characteristics	
3.00-4.00 PM	op amp parameters	op amp parameters	

Inference of today's sessions: (take away)

1. studied about CE configuration and its applications characteristics.
2. op-amp is an integration of Multiple Transistor in a single chip.
- 3.

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[18.01.2021-30.01.2021]

Name of the participant: B. Maheshwar.

DAY & DATE: Monday 8 25-01-2021

slots	Scheduled	Practically happened	Remarks
10AM--11AM	Transistors	Transistors.	
11.30-12.30PM	CE Amplifiers	CE Amplifiers	
1.30 - 2.30 PM	FET	OP Amps	
3.00-4.00 PM	Op. Amp	Comparators.	

**Inference of today's sessions: (take away)**

1. CE Amplifiers reduces Bandwidth in multiple transistor
2. Op. Amp. characteristic. Block Diagram and pin diagram.
3. inverting and noninverting of IC and input and out. put of IC 741

**Signatures**

B. Maheshwar	P. K. ...	P. ...	
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[18.01.2021-30.01.2021]

Name of the participant: V. Siva Rama Krishna



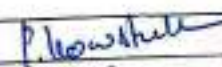
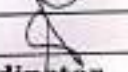
DAY & DATE: Monday & 25-01-2021


slots	Scheduled	Practically happened	Remarks
10AM--11AM			
11.30-12.30PM	Transistor charac	OP-Amp Principle	
1.30 - 2.30 PM	CE Amplifiers	voltage followers	
3.00-4.00 PM	FET Characteris	Inverting & Noninverting Amp	
	OP-AMP parameter	Integrators	

Inference of today's sessions: (take away)

1. O.P-Amp is a cascading connection of Differential Amplifiers.
2. Integrator, is a waveshaping circuit.
- 3.

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[18.01.2021-30.01.2021]

Name of the participant: *S. Srinivas*

DAY & DATE: *25-01-2021*

slots	Scheduled	Practically happened	Remarks
10AM--11AM	<i>AEC - CE</i>	<i>Theory</i>	
11.30-12.30PM	<i>Amplifier</i>	<i>Theory</i>	
1.30 - 2.30 PM	<i>AEC OpAmp</i>	<i>1</i>	
3.00-4.00 PM	<i>parameters</i>	<i>1</i>	

**Inference of today's sessions: (take away)**

1. *I studied CE Amplifier working*
2. *and op-Amp parameters*
3. *Integrator & Experiment done.*

**Signatures**

<i>S.S.</i>	<i>P. Hanthul</i>	<i>P. Hanthul</i>	<i>[Signature]</i>
Participant	Resource Person	Lab Incharge	Coordinator-LEARN

*[Signature]*  
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 [18.01.2021-30.01.2021]

Name of the participant: P. Venkateshwarthy

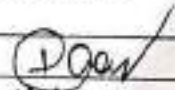
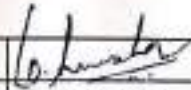
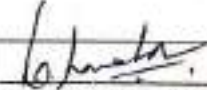

DAY & DATE: 25/01/2021

slots	Scheduled	Practically happened	Remarks
10AM--11AM	AEC-CE	Theory	
11.30-12.30PM	Amplifier	Theory	
1.30 - 2.30 PM	AEC Opamp	"	
3.00-4.00 PM	parameters	"	

Inference of today's sessions: (take away)

1. I studied CE-Amplifier working
2. and op-Amp parameters.
3. Integrator & Experiment done

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[18.01.2021-30.01.2021]

Name of the participant: V. Sivaramakrishna

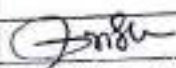
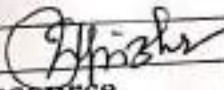

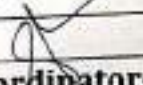
DAY & DATE: Wednesday 27-01-2021


slots	Scheduled	Practically happened	Remarks
10AM--11AM	Inverting & Non Inverting	Class-A commutation	
11.30-12.30PM	Integrator	class-a commutation	
1.30 - 2.30 PM	Differentiator	PE Lab Practice	
3.00-4.00 PM	wave generators	PE Lab Practice	

**Inference of today's sessions: (take away)**

1. class-A commutation is current commutation & series resonance.
2. class-B commutation is self commutation.
- 3.

**Signatures**

 Participant	 Resource Person	 Lab Incharge	 Coordinator-LEARN
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[18.01.2021-30.01.2021]

Name of the participant: B. yadaiah

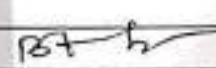
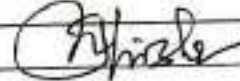
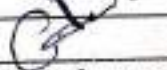

DAY & DATE: Wednesday - 27/01/2021

slots	Scheduled	Practically happened	Remarks
10AM-11AM	Inverting	Class A-Chopper	
11.30-12.30PM	non Inverting	Class B Chopper.	
1.30 - 2.30 PM	Differentiating	Proactive P. ELab	
3.00-4.00 PM	Example Generator	P Voltage Fluctuation	

Inference of today's sessions: (take away)

1. P. ELab Experiment V<sub>BE</sub> Characteristic
2. Circuit Parameters
3. proactive of Experiment RGBT

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[18.01.2021-30.01.2021]

Name of the participant: KISHORE M

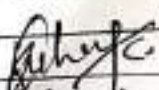
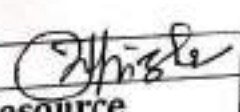


DAY & DATE: WEDNESDAY, 9 27/01/2021


slots	Scheduled	Practically happened	Remarks
10AM--11AM	Inverting & Non-inverting	CLASS-A topper	
11.30-12.30PM	Integrator	CLASS-B topper	
1.30 - 2.30 PM	Oscillator	Practiced PE	
3.00-4.00 PM	Triangle generator	Practiced P.E	

**Inference of today's sessions: (take away)**

1. studied about class-A commutation circuits.
2. self-commuted (or) Resonant inductive commutation circuit and explanation was studied
3. practiced P.E lab experiment is RTT

**Signatures**

			
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[18.01.2021-30.01.2021]

Name of the participant: K. Mallekha


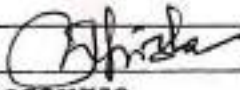

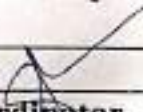
DAY & DATE: 27/01/2021 (Wednesday)


slots	Scheduled	Practically happened	Remarks
10AM--11AM	Inverting & non Inverting	class A commutation	
11.30-12.30PM	Integrator	class B commutation	
1.30 - 2.30 PM	Differentiator	PE Lab practicals	
3.00-4.00 PM	Triangle selector	PE Lab practicals	

Inference of today's sessions: (take away)

1. class A commutation and class B commutation
2. class work and practice done after noon.
- 3.

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[18.01.2021-30.01.2021]

Name of the participant: A. KRISHNAMA CHARY

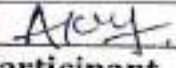
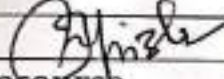


DAY & DATE: WEDNESDAY, 27-01-2021


slots	Scheduled	Practically happened	Remarks
10AM--11AM	Inverting non Inverting integrator	Class A Computation	
11.30-12.30PM	integrator	class B Computation	
1.30 - 2.30 PM	Differentiator	PE Lab Practical	
3.00-4.00 PM	torque Generator	PE Lab practical	

Inference of today's sessions: (take away)

1. Class A computation. and class B computation classwork and practical done after noon.
- 2.
- 3.

Signatures

			
Participant	Resource Person	Lab Incharge	Coordinator-LEARN

  
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[18.01.2021-30.01.2021]

Name of the participant: S. Srinivas

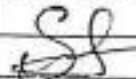
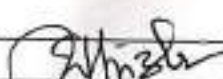


DAY & DATE: 27-01-2021 (WED)


slots	Scheduled	Practically happened	Remarks
10AM--11AM	class-A chopper	Theory	
11.30-12.30PM	class-chopper	Theory	
1.30 - 2.30 PM	OP - Amp	practiced	
3.00-4.00 PM	voltage follower	practiced	

Inference of today's sessions: (take away)

1. I practiced op-amp & voltage
2. follower
3. I practiced load commutation (class-A)

Signatures

			
Participant	Resource Person	Lab Incharge	Coordinator-LEARN

  
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Department of EEE:: CBIT(A)

DAILY REPORT  
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[18.01.2021-30.01.2021]

Name of the participant: P. Venumadhavachary

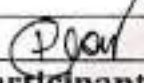
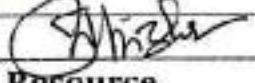
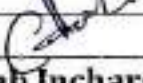
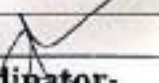
DAY & DATE: 27/01/2021 (WED)

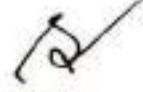
slots	Scheduled	Practically happened	Remarks
10AM--11AM	class-A chopper	theory	
11.30-12.30PM	class-B chopper	theory	
1.30 - 2.30 PM	Op- Amp	practiced	
3.00-4.00 PM	Voltage follower	practiced	

Inference of today's sessions: (take away)

1. I practiced op- Amp & voltage followers
2. I practiced load connection (class-A)
- 3.

Signatures

			
Participant	Resource Person	Lab Incharge	Coordinator-LEARN

  
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DAILY REPORT  
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[18.01.2021-30.01.2021]

Name of the participant: B. Maheshwar

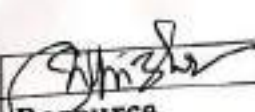
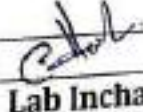
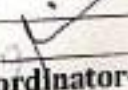
DAY & DATE: Wednesday 27-01-21

slots	Scheduled	Practically happened	Remarks
10AM--11AM	Class A choppers	Theory	
11.30-12.30PM	class B choppers	Theory	
1.30 - 2.30 PM	OPD AMP.	Practiced	
3.00-4.00 PM	voltage follower	Practiced	

Inference of today's sessions: (take away)

1. I learned class A-chopper & class-B chopper
- 2.
3. I practiced voltage follower in the AEC lab.

Signatures

B. Maheshwar Participant	 Resource Person	 Lab Incharge	 Coordinator-LEARN
-----------------------------	--------------------------------------------------------------------------------------------------------	-----------------------------------------------------------------------------------------------------	------------------------------------------------------------------------------------------------------------

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 DAILY REPORT  
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 [18.01.2021-30.01.2021]

Name of the participant: K. Mallesh


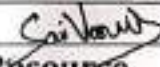
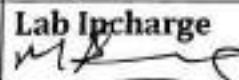
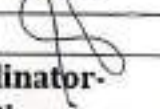
DAY & DATE: Thursday, 28/01/2021

slots	Scheduled	Practically happened	Remarks
10AM-11AM	A.c. Servomotor	P.V. Emulator class	
11.30-12.30PM	D.c position control	P.V. Emulator practice	
1.30 - 2.30 PM	Squawk Generator	P.V. IR class	
3.00-4.00 PM	Schmitt trigger	P.V. IR practice	

**Inference of today's sessions: (take away)**

1. solar emulator system class by hod sir and saivenu and after that done practicals.
2. with solar emulator and solar PV IR
3. afternoon.

**Signatures**

			
Participant	Resource Person	Lab Incharge	Coordinator-LEARN

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DAILY REPORT  
of  
the TWO week Programme -LEARN

[18.01.2021-30.01.2021]

Name of the participant: B. Maheshwari.

DAY & DATE: Thursday 28-01-2021

slots	Scheduled	Practically happened	Remarks
10AM--11AM	A.C servo motor	P.V. Emmuldu	
11.30-12.30PM	DC Position (oh)	P.V. Emmuldu	
1.30 - 2.30 PM	Solar generator	P.V. FR Class	
3.00-4.00 PM	Schematic triser	P.V. TR Practice	

Inference of today's sessions: (take away)

1. I have understood. Constant current and voltage. Method in. solar.
2. Table method using. Different
3. Comparison of values of current and voltage with load variation.

Signatures

B. Maheshwari Participant	Sai Vaid Resource Person	Lab Incharge M. S. R.	Coordinator- LEARN
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[18.01.2021-30.01.2021]

Name of the participant: KISHORE M

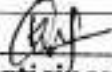
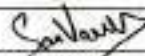
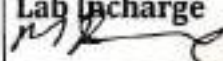

DAY & DATE: THURSDAY 9 28/01/2021

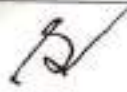
slots	Scheduled	Practically happened	Remarks
10AM--11AM	AC servomotor	PV Emulator	
11.30-12.30PM	DC position control	PV Emulator	
1.30 - 2.30 PM	Square generator	PVTR class	
3.00-4.00 PM	Schmitt trigger	PVTR Practical	

Inference of today's sessions: (take away)

1. Learn about photo voltaic emulator advantages and applications.
2. Did one experiment on PVTR and observed the current voltage variation with some angle.
- 3.

Signatures

			
Participant	Resource Person	Lab Incharge	Coordinator-LEARN

  
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[18.01.2021-30.01.2021]

Name of the participant: S. Srinivas


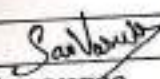
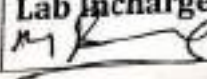
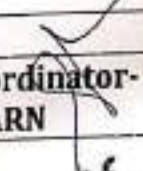
DAY & DATE: 28-01-2021, Thursday

slots	Scheduled	Practically happened	Remarks
10AM--11AM	Ac servomotor	Solar PVTR	
11.30-12.30PM	al position	Solar Emulator	
1.30 -2.30 PM	square generator	Solar Emulator	
3.00-4.00 PM	Schmitt-trigger	Solar emulator	

Inference of today's sessions: (take away)

1. By using solar Emulator we can know the effect of Radiation in a particular location.
- 2.
- 3.

Signatures

			
Participant	Resource Person	Lab Incharge	Coordinator-LEARN

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[18.01.2021-30.01.2021]

Name of the participant: V. Siva Rama Krishna

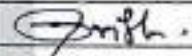
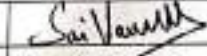
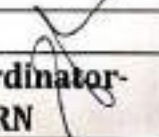
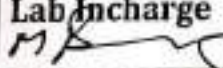
DAY & DATE: 28-01-2021, Thursday


slots	Scheduled	Practically happened	Remarks
10AM--11AM	Ac servo motor	Solar PVTR	
11.30-12.30PM	Dc position control	Solar Emulator	
1.30 - 2.30 PM	square generator	Solar Emulator	
3.00-4.00 PM	Schmitt trigger	Solar Emulator.	

**Inference of today's sessions: (take away)**

1. By using solar emulator we can know the effect of radiation in a particular
2. location, date, time on a selected
3. solar panel.

**Signatures**

			
Participant	Resource Person	Lab Incharge 	Coordinator-LEARN

  
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[18.01.2021-30.01.2021]

of the participant: P. Venemadhavachary

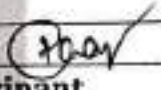
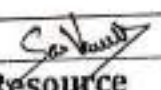
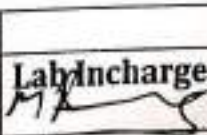
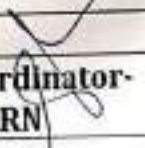
DATE: 28/01/2021 Thurs Day

	Scheduled	Practically happened	Remarks
11AM	AC Servo motor	Solar panel	
12.30PM	Dc position control	Solar emulator	
2.30 PM	Square generator	Solar emulator	
00 PM	Schmitt trigger	Solar emulator	

Outcome of today's sessions: (take away)

By using Solar emulator we can know the effect of radiation in a particular location at a definite time on a selected solar panel

Signatures

			
Participant	Resource Person	Lab Incharge	Coordinator-LEARN

  
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DAILY REPORT  
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[18.01.2021-30.01.2021]

Name of the participant: A.KRISHNAMA CHARY

DAY & DATE: THURSDAY, 28-01-2021

slots	Scheduled	Practically happened	Remarks
10AM-11AM	A.C Servomotor	P.V Emulator Class	
11.30-12.30PM	D.C Position control	P.V Emulator practice	
1.30 - 2.30 PM	Square Generator	P.V.+R. Class	
3.00-4.00 PM	Schmitt trigger	P.V.T.R practice	

Inference of today's sessions: (take away)

1. solar emulator. system class by hod sir and. Sai Varun and after that done practice with solar emulator
2. and solar P.V.T.R Afternoon.
- 3.

Signatures

<i>Akey.</i>	<i>Sai Varun</i>		
Participant	Resource Person	Lab Incharge <i>MS</i>	Coordinator LEARN

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DAILY REPORT  
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[18.01.2021-30.01.2021]

Name of the participant: B. Yadaviah

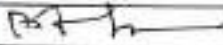
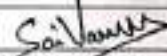

DAY & DATE: :- This day :- 28/01/2021

slots	Scheduled	Practically happened	Remarks
10AM--11AM	Solar P.V Emulator.		
11.30-12.30PM	Solar P.T.R simulator		
1.30 - 2.30 PM	Square generator Emulator.		
3.00-4.00 PM	Schmitt trigger Replicator	Duplicator	

Inference of today's sessions: (take away)

1. By using Solar Emulator we can know the effect of radiation in a particular location, date, time, on a selected solar panel
- 2.
- 3.

Signatures

			
Participant	Resource Person	Lab Incharge	Coordinator-LEARN

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**DAILY REPORT**  
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[18.01.2021-30.01.2021]

Name of the participant: P. Venumadhavachary

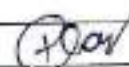
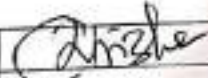


DAY & DATE: 29/01/2021 (Friday)

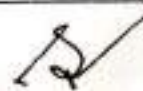
slots	Scheduled	Practically happened	Remarks
10AM--11AM	Half bridge Inver	DE LAB new kits	
11.30-12.30PM	Full bridge Inverter	Demo class	
1.30 - 2.30 PM	Solar Emulator	class c. connection	
3.00-4.00 PM	Study of solar Emulator	class D. Commutation	

Inference of today's sessions: (take away)

1. I studied class c & class D. Commutation
2. De Lab new kits Demo class
- 3.

Signatures

			
Participant	Resource Person	Lab Incharge	Coordinator-LEARN

  
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Gandipet, Hyderabad-78

Department of EEE:: CBIT(A)  
 DAILY REPORT  
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 the TWO week Programme -LEARN  
 [18.01.2021-30.01.2021]

Name of the participant: K. Malleshha

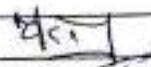
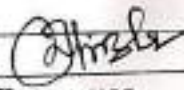

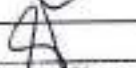
DAY & DATE: 29/01/2021 (Friday)

slots	Scheduled	Practically happened	Remarks
10AM--11AM	Half bridge Inverter	DE-lab new kits	
11.30-12.30PM	Full bridge Inverter	Demo class	
1.30 - 2.30 PM	Solar Emulator	class c-commutation	
3.00-4.00 PM	study of solar Emulator	class D commutation	

Inference of today's sessions: (take away)

1. I studied class C & class D - commutation
- or
2. DE lab new kits demo class.
- 3.

Signatures

			
Participant	Resource Person	Lab Incharge	Coordinator-LEARN

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Department of EEE:: CBIT(A)

DAILY REPORT  
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the TWO week Programme -LEARN

[18.01.2021-30.01.2021]

Name of the participant: *S. Srinivas*

DAY & DATE: *29-01-2021*

slots	Scheduled	Practically happened	Remarks
10AM--11AM	<i>Unit bridge</i>	<i>Systems updated</i>	
11.30-12.30PM	<i>Solar Chulda</i>	<i>in computer lab - I</i>	
1.30 - 2.30 PM	<i>1</i>	<i>class C - communication</i>	
3.00-4.00 PM	<i>4</i>	<i>class D - communication</i>	

Inference of today's sessions: (take away)

- 1. I learned class C & class D - communication (as) auxiliary*
- 2. @*
- 3. Systems updated in computer lab - I*

Signatures

<i>[Signature]</i>	<i>[Signature]</i>	<i>[Signature]</i>	<i>[Signature]</i>
Participant	Resource Person	Lab Incharge	Coordinator-LEARN

*[Signature]*  
HEAD  
Dept. of EEE, CBIT (A)  
Bendipet, Hyderabad-79

Department of EEE:: CBIT(A)

DAILY REPORT  
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[18.01.2021-30.01.2021]

Name of the participant: B. yadaviah.


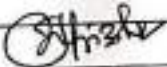

DAY & DATE: Friday - 29/01/2021


slots	Scheduled	Practically happened	Remarks
10AM--11AM	OFF Bridge Converter	OFF Bridge Converter	Ltc-D-Elab
11.30-12.30PM	Full Bridge Converter	Full Bridge Converter	Torema
1.30 - 2.30 PM	Class - c Computation Sub.	Class - c Computation Sub.	
3.00-4.00 PM	Class - D Computation Sub.	Class - D Computation Sub.	

Inference of today's sessions: (take away)

1. OFF Bridge Converter, Full bridge Converter & Ltc D-Elab Demo
2. Class - c Computation Subject & Auxiliary Zener choppers;
3. Class - D - Computation Subject etw.

Signatures

			
Participant	Resource Person	Lab Incharge	Coordinator-LEARN

  
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Dept. of EEE, CBIT (A)  
Saidipet, Hyderabad-79

Department of EEE:: CBIT(A)  
 DAILY REPORT  
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 the TWO week Programme -LEARN  
 [18.01.2021-30.01.2021]

Name of the participant: B. MAHESHVAR

DAY & DATE: FRIDAY 29-01-2021

slots	Scheduled	Practically happened	Remarks
10AM-11AM	Half bridge	DE LAB Demo	
11.30-12.30PM	Full bridge	DE LAB Demo.	
1.30 - 2.30 PM	Solar Emmu	CLASS C Theory	
3.00-4.00 PM	labon.	CLASS D Theory	

Inference of today's sessions: (take away)

1. Commutation of class C is circuit <sup>side</sup> parallel to the <sup>scr</sup> supply in series with supply. and current
- 2.
3. Commutation of class D is circuit parallel to the source and current is known as class D. or Auxiliary Commutation.

Signatures

B. Maheshvar			
Participant	Resource Person	Lab Incharge	Coordinator-LEARN

HEAD  
 Dept. of EEE, CBIT (A)  
 Gandipet, Hyderabad-74

Department of EEE:: CBIT(A)  
**DAILY REPORT**  
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the TWO week Programme -LEARN  
[18.01.2021-30.01.2021]

Name of the participant: **A. KRISHNAMA CHARY**

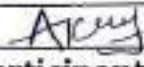
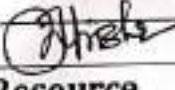

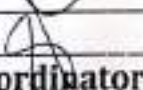
DAY & DATE: **FRIDAY 29-01-2021**

slots	Scheduled	Practically happened	Remarks
10AM--11AM	Half bridge inverter	DE Lab KITS Demo	
11.30-12.30PM	Full bridge inverter	DE Lab KITS Demo	
1.30 - 2.30 PM	Solar PV Controller	Class DFC theory	
3.00-4.00 PM	Solar PV Controller	Class C & D theory.	

**Inference of today's sessions: (take away)**

1. DE Lab KITS Demo in morning session. and After noon class "C" and class "D" Commutation circuitry theory class.
- 2.
- 3.

**Signatures**

			
Participant	Resource Person	Lab Incharge	Coordinator-LEARN

  
**HEAD**  
Dept. of EEE, CBIT (A)  
Gandipet, Hyderabad-500075



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 Kokapet(V), Chaitanya Bharathi (PO), Gandipet, Hyderabad-500075

**Department of Electrical & Electronics Engineering**  
**Laboratory Experiment Analysis for Reinforcement of**  
**Nexus (LEARN)**  
**18<sup>th</sup> -30<sup>th</sup> January 2021**  
**Skill Development Program for Technical Staff**

**Feedback form**

Instructions: Please tick your level of agreement with the statements listed below	Strongly Agree	Agree	Satisfactory	Disagree
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2.The presenters were engaging	✓			
3.The presentation materials were relevant		✓		
4.The content of the course was organised and easy to follow	✓			
5.The Faculty were well prepared and able to answer any questions				
6.The course length was appropriate		✓		
7. The pace of the course was appropriate to the content and attendees		✓		

else would you like to see included in this event? Are there any other topics that you would like to be training courses in?

other comments?

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skill development program is good for technical staff.

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Good Experiences - about the LEARN workshop

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✓

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Other comments?

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*[Handwritten Signature]*

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Any other comments?

Good experience

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