2 Designation Assistant Professor 3 Nature of Job/Appointment Regular 4 Date of Joining 27-09-2021 5 E-mail dharmanterAD013@gmail.com 6 Education Qualifications Name of the Degree Class 7 M. Tech. Industrial Biotech@obita.cin dharmanterAD013@gmail.com First Cl (Distinction) 7 Work Experience Industrial Biotechnology First Cl (Distinction) 7 Work Experience - - Cl Cl 7 Work Experience - <	1	Name of Faculty	Dr. Dharmalingam K	
4 Date of Joining 27-09-2021 5 E-mail dharmalingam_biotech@cbit.ac.in dharmamtech2013@gmail.com 6 Education Qualifications Name of the Degree Class Ph. D. Chemical Engineering Awarded M.Tech. Industrial Biotechnology First (Distinction) Class B.Tech. Industrial Biotechnology First (Distinction) Class 7 Work Experience - - 7 Work Experience - - 8 Area of Specialization Hydrogel technology, Biomaterials, Nanomedicine, Drug solubi Microwave synthesis and Food packaging films - 9 Professional Memberships - - 10 Responsibilities held at Institution Level - - 11 Responsibilities held at Department Level 1. Student Inter Institute participations / Home Institu- sol (MHRD) scholarship for pursuing Ph.D. (2015 – 2020 Indian Institute of Technology Gwashati (UTG) – 0. Guest Lectures 13 Awards Received - - 14 Courses Handled at Under Graduate/ Post Graduate Level. 1. Recipient of Ministry of Human Resource & Developm (MHRD)	2	-		62
5 E-mail dharmalingam_biotech@cbit.ac.in dharmamtech2013@gmail.com 6 Education Qualifications Name of the Degree Class 7 D. Chemical Engineering Awarded 8 M.Tech. Industrial Biotechnology First Cl (Distinction) 7 Work Experience - - 7 Work Experience - - 8 Research 06 years (Including Ph.D.) - 9 Professional Memberships - - 0 Uners - - - 10 Responsibilities held at Institution Level - - 11 Responsibilities held at Department Level - - -	3	Nature of Job/Appointment	Regular	(And)
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15 No. of Papers Published National Journals – Nil International Journals – 15		Post Graduate Level.	 Microbiology Industrial Biotechnology Downstream Processing Bioprocess Engineering Biochemistry Molecular Biology Animal Biotechnology Environmental Biotechnology Microbiology Laboratory Biochemistry Laboratory Bioprocess Engineering Laboratory Downstream Processing Laboratory 	

		National Conference – Nil International Conference – 1	
16	Projects Carried out		
17	Patents		
18	Technology Transfer		
19	Invited Speaker	 Delivered a guest lecture on "How to publish quality research articles in high impact factor journals" in a one- week refresher course for faculty members conducted by Kamaraj College, Thoothukudi, Tamil Nadu on 12.07.2022. Delivered a guest lecture on "Recent Advances in Pharmaceutical Research - Nanoparticles and Hydrogel Technology" in one day National seminar on "Advanced Research and Career Opportunities in Pharmacy field" conducted by Chilkur Balaji College of Pharmacy, Hyderabad on 08.07.2022. Delivered a guest lecture on "Research Methodology - Publishing quality research articles in high impact factor journals" in one day National level virtual workshop conducted by Kamaraj College, Thoothukudi, Tamil Nadu on 30.10.2021. 	
20	No. of Books/Chapter Published with details	 K. Dharmalingam, R. Anandalakshmi, Polysaccharide Based Films for Food Packaging Applications, Advances in Sustainable Polymers: Processing and Applications, Springer Nature, 2019, 183-207. DOI: https://doi.org/10.1007/978-981-32-9804-0_9. K. Dharmalingam, Abhishek Roy, R. Anandalakshmi, Essential oil in Active Food Packaging System, Biopolymer- Based Food Packaging: Innovations and Technology Applications, John Wiley & Sons, Inc., 2022, 422-444.DOI: https://doi.org/10.1002/9781119702313.ch13 Abhishek Roy, K. Dharmalingam, R. Anandalakshmi, Silver and ZnO Nanoparticles in Food Packaging, Biopolymer- Based Food Packaging: Innovations and Technology Applications, John Wiley & Sons, Inc., 2022, 368-393. DOI: https://doi.org/10.1002/9781119702313.ch11 	
21	Details of Short-Term Training Programs/Faculty Development Programs/Seminars/Workshops.Other Trainings (Attended and/or Organized).	 K. Dharmalingam and R. Anandalakshmi, Influence of citric acid on NaCMC-HPMC-ZnO hydrogel films for wound healing applications, International Conference on Advanced Materials Research (AMRC 2019), September 26, 27, 2019, National University of Singapore (NUS), Singapore. K. Dharmalingam and R. Anandalakshmi, Rapid microwave- assisted synthesis and characterization of zinc-sulfate- calcium-phosphate/cellulose bionanocomposites, International Conference on Nanoscience and Technology (ICONSAT 2016), Feb 29 – March 2, 2016, IISER, Pune K. Dharmalingam and R. Anandalakshmi, Solid dispersion of quercetin in HPMC matrix by microwave irradiation, Sophisticated Instruments in Modern Research, ICSIMR- 2017, 30th June & 1st July, 2017, Indian Institute of Technology Guwahati, Assam K. Dharmalingam and P. Mullai, Growth optimisation of marine microalgae Nannochloropsis sp. using response surface methodology in the International Conference on Recent trends in Agriculture and Biotechnology, Department of Biotechnology, Adhiyamaan College of Engineering, 26- 27th February, 2015, Hosur, Tamil Nadu K. S. Yoha, R. S. Saranya, P. Sathiyarosini, K. Dharmalingam, A study on antibacterial activity of methanolic leaf extract of Andrographis paniculata in the International Conference on Novel Trends in Biotechnology and Pharmaceutical Applications, Department of Biotechnology, Adhiyamaan College of Engineering, 18-19th March, 2014, Hosur, Tamil Nadu 	

		 K. Dharmalingam and P. Mullai, Extraction of oil from marine microalgae for biodiesel production in the 3rd National conference on Challenges in Biochemical Engineering and Biotechnology for Sustainable Environment, Department of Chemical Engineering Annamalai University, 2nd April, 2014, Chidambaram, Tamil Nadu Attended AICTE sponsored 14 days Faculty Development Program on " Applications of Nanotechnology in Diagnostic and Therapeutic Procedures (ANDTP) 2013", held on 15th – 29th November 2013, organized by the Department of Biotechnology, Vel Tech High Tech Dr. Rangarajan Dr. Sakunthala Engineering College, Avadi, Chennai. Attended TEQUIP II sponsored seven days Faculty Development Program on "Principles of Bioreactor Engineering" organized by Bharathidasan Institute of Technology, Tiruchirappalli from 16.12.2013 to 22.12.2013. K. Dharmalingam and P. Mullai, Microalgae to Enhance Lipid Content for Biodiesel Production in the "International Conference on Science and Technology for Clean and Green Environment" at Zoology Wing, Annamalai University, 27-28th July, 2012, Chidambaram, Tamil Nadu K. Dharmalingam and P. Mullai, Transesterification of Microalgae Oil into Biodiesel in the "National Conference on Environment, Biodiversity and bioethics- current trends and future perspectives" at Department of Zoology, Annamalai University, 23-24th March, 2012, Chidambaram, Tamil Nadu. K. Dharmalingam, 2nd International Conference on Challenges in Biotechnology and Food Technology" at Department of Biotechnology, Kamaraj College of Engineering and Technology, 26-27th February, 2009, Virudhunagar, Tamil Nadu.
22	Details of Journal Publications/ Conferences (National and International)	Details provided below
	 2021. Electric Field Modulated - 3.67). Mrinal Bhowmik, K. Dharmal Fabrication, characterization dehumidification applications K. Dharmalingam and R. Ana with zinc oxide complex and wounds. Polymer, 202:12262 K. Dharmalingam, R. Anand dispersion of curcumin in HF Science and Technology, 42: K. Dharmalingam, Devivasha Preparation and characterize 	lalakshmi and Shashank Shekhar, 2020. Microwave-induced solid PMC matrix using water as hydration carrier. Journal of Dispersion

8.	K. Dharmalingam and R. Anandalakshmi, 2019. Fabrication, characterization and drug loading
	efficiency of citric acid crosslinked NaCMC-HPMC hydrogel films for wound healing drug delivery
	applications. International Journal of Biological Macromolecules, 134:815-829 (IF – 8.025).
9.	K. Dharmalingam, Ganesan Padmavathi, Ajaikumar B. Kunnumakkara and R. Anandalakshmi,
	2019. Microwave-assisted synthesis of cellulose/zinc-sulfate-calcium-phosphate (ZSCAP)
	nanocomposites for biomedical applications. Materials Science & Engineering C, 100:535-543 (IF
	- 7.32).
10.	Pankaj Jha, K. Dharmalingam, Takahisa Nishizu, Nakako Katsuno and R. Anandalakshmi, 2019.
	Effect of amylose-amylopectin ratios on physical, mechanical and thermal properties of starch based
	bionanocomposite films incorporated with CMC and nanoclay. Starch-Stärke 72(1-2):1900121 (IF -
44	2.68).
11.	M.K. Yogeswari, K. Dharmalingam, K. and P. Mullai, 2019. Implementation of artificial neural
	network model for continuous hydrogen production using confectionery wastewater. Journal of
10	Environmental Management, 252:109684 (IF – 8.91). K. Dharmalingam, D. Pamu and R. Anandalakshmi, 2018. Comparison of solid state synthesis of
12.	zinc calcium phosphorous oxide (ZCAP) ceramics under conventional and microwave heating
	methods. Materials Letters, 212:207-210 (IF $-$ 3.57).
13.	
10.	characterization of chitosan, polyvinylpyrrolidone, and cellulose nanowhiskers nanocomposite films
	for wound healing drug delivery application. Journal of Biomedical Materials Research Part A,
	105(9):2391-2404 (IF – 4.85).
14.	K. Dharmalingam, M. K. Yogeswari, K. S. Yoha, R. S. Saranya, P. Sathiyarosini and M. Suganya,
	2015. In vitro characterization of antibacterial activity of Cataranthus roseus. International Journal of
	Life Science and Pharma Research, 5(2):72-77.
15.	M. K. Yogeswari, K. Dharmalingam, P. Ronald Ross and P. Mullai, 2015. Role of iron concentration
	on hydrogen production using confectionery wastewater. Journal of Environmental Engineering,
	142(9):C4015017 (IF – 2.21).
Internatio	onal Conferences
1. N	Mrinal Bhowmik, Sayan Halder, K. Dharmalingam, R. Anandalakshmi, P. Muthukumar, Evaluation of
	Thermo-Kinetic and Absorption Characteristics of Pure Desiccants and Desiccant Mixtures, 10 th
	nternational Conference on Materials Processing and Characterizations (ICMPC-2020), February 21-
	23, 2020. Materials Today: Proceedings: <u>https://doi.org/10.1016/j.matpr.2020.02.430</u> .
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