Name of Faculty	Dr. Ashutosh Sahu		
Designation	Assistant Professor		
Nature of Job/Appointment	Regular		
Date of Joining	07-03-2022		
E-mail	ashutosh_mech@cbit.ac.in		
Education Qualifications	Name of the Deg	Iree	Class
Ph.D.	Doctor of Philosophy (Metallurgical and materials engineering), IIT Kharagpur		Awarded
PG	M.Tech (Metallurgical Engineering) IIT-BHU Varanasi		First class
UG	B.Tech (Mechanical En GIET Gunupur under BP		First class
Work Experience			
Teaching	2 years and 4 months		
Research	2 years and 6 months		
Industry	1 year and 10 months		
Others			
Area of Specialization	Powder metallurgy, physical metallurgy, metal forming, foundry		
Professional Memberships			
Responsibilities held at Institution Level			
Responsibilities held at Department Level			
Research Guidance			
Awards Received			
Courses Handled at Under Graduate / Post Graduate Level			
No. of Papers Published	National Journals – 00	International Jour	nals – 12
	National Conference – 00	International Cont	ference – 02
Projects Carried out			
Patents	-		
Technology Transfer	-		
Invited Speaker			
No. of Books/Chapter Published with details			
Details of Short-Term Training Programs / Faculty Development Programs / Seminars / Workshops. Other Trainings (Attended and/or Organized) Details of Journal Publications / Conferences (National and International)	4 attended		

International Journal:

- **1. A. Sahu**, R.S. Maurya, L.K. Singh, T. Laha, Analyzing the effects of milling and sintering parameters on crystalline phase evolution and mechanical properties of Al86Ni8Y6 and Al86Ni6Y4.5Co2La1.5 amorphous ribbons, https://doi.org/10.1007/s40195-021-01341-y.
- A. Sahu, R.S. Maurya, S. Dinda, T. Laha, Phase evolution-dependent nanomechanical properties of Al86Ni8Y6 and Al86Ni6Y4.5Co2La1.5 spark plasma-sintered bulk amorphous composites, Metallurgical and Materials Transactions A 51A (2020) 5110-5119.
- R.S. Maurya, A. Sahu, T. Laha, Nanoindentation study on Al86Ni8Y6 glassy alloy synthesized via mechanical alloying and spark plasma sintering, International Journal of Materials Research 111 (2020) 1-8.
- **4. A. Sahu**, R.S. Maurya, T. Laha, Non-isothermal crystallization behavior of Al86Ni8Y6 and Al86Ni6Y4.5Co2La1.5 melt-spun ribbons, milled ribbon particles and bulk samples consolidated by spark plasma sintering, Thermochimica Acta 684 (2020) 1-11.
- **5. A. Sahu**, R.S. Maurya, T. Laha, Comparative study on sintering behavior of Al86Ni6Y4.5Co2La1.5 mechanically alloyed amorphous powder and melt-spun ribbon, Advanced Powder Technology 30 (2019) 691-699.
- A. Sahu, R.S. Maurya, T. Laha, Effect of sintering temperature on phase evolution of Al86Ni6Y4.5Co2La1.5 bulk amorphous composites synthesized via mechanical alloying and spark plasma sintering, Progress in Natural Science: Materials International 29 (2019) 32-40.
- T. Thomas, C. Zhang, A. Sahu, P. Nautiyal, A. Loganathana, T. Laha, B. Boesl, A. Agarwal, Effect of graphene reinforcement on the mechanical properties of Ti2AIC ceramic fabricated by spark plasma sintering, Materials Science and Engineering A 728 (2018) 45-53.
- A. Loganathan, A. Sahu, C. Rudolf, C. Zhang, S. Rengifo, T. Laha, B. Boesla, A. Agarwal, Multiscale tribological and nanomechanical behavior of cold sprayed Ti2AIC MAX phase coating, Surface and Coatings Technology 334 (2018) 384-393.
- R.S. Maurya, A. Sahu, T. Laha, Effect of sintering temperature on phase transformation during consolidation of mechanically alloyed Al86Ni6Y6Co2 amorphous powders by spark plasma sintering, Journal of Non-Crystalline Solids 453 (2016) 1-7.
- R.S. Maurya, A. Sahu, T. Laha, Microstructural and phase analysis of Al based bulk metallic glass synthesized by mechanical alloying and consecutive spark plasma sintering with varying consolidation pressure, Advanced Materials Letters 7 (2016) 187-191.
- **11.** R.S. Maurya, **A. Sahu**, T. Laha, Quantitative phase analysis in Al86Ni8Y6 bulk glassy alloy synthesized by consolidating mechanically alloyed amorphous powder via spark plasma sintering, Materials and Design 93 (2016) 96-103.
- R.S. Maurya, A. Sahu, T. Laha, Effect of consolidation pressure on phase evolution during sintering of mechanically alloyed Al86Ni8Y6 amorphous powders via spark plasma sintering, Materials Science and Engineering A 649 (2016) 48-56.

International Conferences:

- **1. A. Sahu**, A. Behera, Semi-solid processing and tribological characteristics of Al-Cu Alloy, Materials Today: Proceedings 2 (2015) 1175-1182.
- 2. A. Behera, S. Aich, a. Behera, A. Sahu, processing and characterization of magnetron sputtered Ni/Ti thin film and their annealing behaviour to induce shape memory effect, Materials today: proceedings 2 (2015) 1183-1192.