



DR. DILIP KUMAR SAHU

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Email: dilipsahu.66@gmail.com

PROFESSIONAL OBJECTIVE:

To work with sincerity, honesty, and integrity in the organization, that will utilize my teaching, management, supervision, and administrative skills to benefit mutual growth and success for the serve of mankind.

EDUCATIONAL QUALIFICATION:

Degree/ Course	University/ Board	Specialization/ Subjects	Date/Year of Completion	Percentage / CGPA *
Ph.D.	VSSUT, Burla (Sambalpur University)	Coating, Machining	Awarded on 29.01.2015	-
M.E.	NIT Rourkela (Formerly REC Rourkela)	Production Engineering	2001	66
A.M.I.E.	Institution of Engineers(India)	Mechanical Engineering	1989	56
I.S.C.	Utkal University	Science	1984	52
H.S.C.	B.S.E.,Odisha	-	1982	64.5

DOCTORAL DEGREE:

Ph.D. Thesis Title	University/Institute	Guide/Mentor	Status, Year	Full/Part Time
Development of diamond coated cemented carbide inserts for machining of non-ferrous materials by HFCVD method.	Sambalpur University, Odisha / VSSUT, Burla, Odisha.	Dr. Saroj Kumar Sarangi	Completed (January, 2015)	Part Time

RESEARCH INTEREST:

- CVD diamond coating for carbide cutting tool.
- Conventional Machining (i.e. Turning, Milling, Shaping, Grinding).
- Non-Conventional Machining (i.e. USM, AJM, EDM, LBM).

MASTER DEGREE:

M.E. Thesis Title	University/Institute	Guide/Mentor	Status, Year	Full/Part Time
Studies on tribological behavior of epoxy-fly ash composite.	National Institute of Technology (NIT), Rourkela. (Formerly REC Rourkela).	Dr. Samir Kumar Acharya	Completed, 2001	Full Time

ACADEMIC EXPERIENCE:

- Presently working as Professor, Head of Mechanical Engineering Department and Dean (R & D) at Bhadrak Institute of Engineering & Technology, Barapada, Bhadrak from 3rd April 2021 to till date.
- Worked as Professor and Dean (R&D) at KG REDDY College of Engineering & Technology, Moinabad, R. R. Dist, Telangana , from 6th January 2017 to 31st March 2021.
- Worked as Professor at Dhaneswar Rath Institute of Engineering and Management Studies, (DRIEMS), Cuttack, Odisha, from 1st August 2015 to 6th October 2016.
- Worked as Professor from 1st February, 2015 to 31st July, 2015 at Bhadrak Institute of Engineering and Technology (B.I.E.T.), Bhadrak, Odisha.
- Seven years of teaching experience as Assistant Professor at Bhadrak Institute of Engineering and Technology (B.I.E.T.), Bhadrak, Odisha, from 1st January, 2008 to 31st January, 2015.
- Eight years of teaching experience as Senior Lecturer at Bhadrak Institute of Engineering and Technology (B.I.E.T.), Bhadrak, Odisha, from 1st November, 1999 to 31st December 2007.
- Eight years of teaching experience as Lecturer at Bhadrak Institute of Engineering and Technology (B.I.E.T.), Bhadrak, Odisha, from 4th November, 1991 to 31st October, 1999.

SCHOLARLY CONTRIBUTIONS / PUBLICATIONS:

- S.K. Sarangi, D. K. Sahu and S. Padhi, *Peculiarity of carbon atoms*, National Conference (RAMM-2012) VSSUT, Burla, 25-27 Feb, 2012 pp: 273-279.
- D. K. Sahu, S. K. Sarangi and A. K. Chattopadhyay, *Effect of pressure on morphology and adhesion of HFCVD diamond coating on cemented carbide inserts*,

Academic Science, International Journal of Computer & Mathematical Sciences, ISSN 2347-8527, Volume 3, Issue 3, May 2014 pp: 14-18.

- S. K. Sarangi, D. K. Sahu, S. Padhi and A. K. Chattopadhyay, *Nucleation and growth of diamond by different seeding mechanisms on cemented carbide inserts by HFCVD process*, 5th International & 26th All India Manufacturing Technology, Design and Research Conference (AIMTDR 2014) December 12th-14th, 2014, IIT Guwahati, Assam, India, pp: 696 (1) - 696 (6).
- Dilip Kumar Sahu, Kakarla Udaya Sri and Atulya Prasad Naik, *Investigation of nucleation and growth for diamond coatings on tungsten carbide base cutting tools for machining of aluminium, by HFCVD method*, International Journal of Creative Research Thoughts (IJCRT) Dec 2017, ISSN: 2320-2882 pp: 179-184.
- Dilip Kumar Sahu, Kakarla Udaya Sri and Atulya Prasad Naik, *Investigation of nucleation and growth for diamond coatings on tungsten carbide base cutting tools for machining of aluminium by HFCVD method*, National Conference on Engineering, Science, Technology in Industrial applications and significance of free open source software, December 21-22, 2017, KG Reddy College of Engineering & Technology, Hyderabad .
- Dilip Kumar Sahu, Saroj Kumar Sarangi and Kakarla Udaya Sri, *Effect of pretreatment methods, chamber pressure and substrate temperature on morphology, quality, adhesion and cutting performance of HFCVD diamond coated tools in machining aluminium on cemented carbide inserts*, International Journal of Mechanical Engineering and Technology (IJMET), Volume 9, Issue 3, March 2018, pp: 392–404.
- Dilip Kumar Sahu, Saroj Kumar Sarangi, Kakarla Udaya Sri, *Effect of pretreatment methods, chamber pressure and substrate temperature on morphology, quality, adhesion and cutting performance of HFCVD diamond coated tools in machining aluminium on cemented carbide inserts*, International Conference on Advances in Engineering and Technology (ICAET 2018), 8th and 9th March 2018, Karpagam Academy of Higher Education, Coimbatore.
- “IUCEE-EPICS Design Thinking Course”, August 2017 – January 2018, Purdue University, USA.
- Dilip Kumar Sahu, Saroj Kumar Sarangi, Kakarla Udaya Sri, *Machinability Study of Al-12% Si Alloys against Uncoated, Coated and CVD Diamond Coated Cutting Tools*, International Conference on Mechanical and Civil Engineering (ICOMACE-2018)

- Dilip Kumar Sahu, Saroj Kumar Sarangi, Kakarla Udaya Sri, *Machinability Study of Al-12% Si Alloys against Uncoated, Coated and CVD Diamond Coated Cutting Tools*, International Journal of Research in Advent Technology, Special Issue, December 2018, E-ISSN: 2321-9637, pp: 123- 127.
- Dilip Kumar Sahu, Saroj Kumar Sarangi, Kakarla Udaya Sri, *Influence of substrate bias on performance of diamond coating on WC cutting inserts for machining of aluminium by HFCVD process*, International Journal of Materials Engineering Innovation, Vol. 11, No. 4, 2020.
- Dilip Kumar Sahu, K. Praveen Kumar and Ragam Indraja Yadav, *A Comparative Experimental Study on Machining Performance of Aluminium Against Advanced Diamond Coated Cutting Tool Inserts*, Advanced Materials and Manufacturing Engineering II, Vol. 1048, pp 298-308, 2022.

COURSES TAUGHT (PG / UG LEVEL):

Details of Theory Course[s] Taught at UG Level:

Sl. No.	Name of the Course	Contact hours engaged per week	No. of years
1	Machining Science and Technology	Five hours	20 years
2	Product Design and Production Tooling	Five hours	16 years
3	Unconventional Machining Processes	Five hours	18 years
4	Kinematics of Machinery	Five hours	16 years
5	Basic Manufacturing Process	Five hours	10 years
6	Machine Tools	Five hours	18 years
7	Production Planning and Control	Five hours	8 years
8	Design of Machine Members-II	Five hours	8 years
9	Metrology and Machine Tools	Five hours	20 years
10	Engineering Tribology	Five hours	01 year

EXTRA CURRICULAR ACTIVITIES / DUTIES HANDLED:

- Working as Dean (R & D) at Bhadrak Institute of Engineering & Technology, Barapada, Bhadrak.
- Established MSME Business Incubation Center at KG REDDY College of Engineering & Technology (10-01-2020) and working as coordinator.
- Established Scientific and Industrial Research Organizations (SIROs) Center with

Department of Scientific and Industrial Research (DSIR) at KG REDDY College of Engineering & Technology (23-12-2019) and working as coordinator.

- Worked as Head of the Department (HOD), Mechanical Engineering, at DRIEMS Engineering College, Cuttack.
- Worked as chief warden at DRIEMS Engineering College, Cuttack.
- Worked as warden at BIET, Bhadrak.
- Worked as workshop superintendent at BIET, Bhadrak.

MEMBERSHIP OF PROFESSIONAL BODIES:

- Indian Society For Technical Education (ISTE) - Life member (Membership No: LM 18391).
- Associate Member of Institution of Engineers (India).

CONFERENCE/SEMINAR/WORKSHOP ORGANIZED:

- National Conference (RAMM-2012) VSSUT, Burla, on 25-26 Feb-2012.
- Dream Skill India (Future Technologies for Automobile in India) September-2015.
- Entrepreneurship as a Carrier option, January-2016.
- Renewable Energy sources for power generation, July-2016.

SOFTWARE SKILL:

- CATIA
- LAB-VIEW

PERSONAL INFORMATION:

Father's Name	:	Gopal Charan Sahu
Date of Birth	:	26 th April 1966
Gender	:	Male
Marital Status	:	Married
Nationality	:	Indian
Religion	:	Hindu
Languages Known	:	Oriya, Hindi & English.

Present Address : Prof. Mechanical Engineering Department,
B. I. E. & T, Barapada, Bhadrak (Odisha)-
756113

Permanent Address : C/O: MuktiKanta Sahu
AT/P.O.-Bonth, Dist:Bhadrak
Odisha-756114

Contact No. : 9437438966, 7978064231

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REFEREES

1. Dr. Saroj Kumar Sarangi, Associate Prof. VSSUT, Burla. Mob. No.: 8260743222.
2. Dr. Pusparaj Das, Prof. VSSUT, Burla. Mob. No.: 9439659630.

DECLARATION:

I hereby declare that all the above information given by me is true to the best of my knowledge and belief.

Date:

Dilip Kumar Sahu