Dr. Dilip Kumar Sahu

Faculty Id	:	1724-170116-125032
Date of Birth	:	26th April 1966
Designation	:	Professor
Years of Experience	:	Teaching : 25years
Email Id	:	dilipsahu.66@gmail.com, dilipkumarsahu@kgr.ac.in
Phone Number	:	+91-9437438966
UG Degree	:	Mechanical Engineering, 1989, Institution of Engineers(India)
PG Degree	:	Production Engineering, 2001, NIT Rourkela (Formerly REC Rourkela)
Ph. D	:	Coating and Machining, 2015, VSSUT, Burla (Sambalpur University)
Ph. D Thesis Topic	:	Development of Diamond Coated Cemented Carbide Inserts for Machining of Non-Ferrous Materials by HFCVD Method.
Employment Status	:	Full Time - Ratified by JNTUH.

Areas of Specialization	:	• CVD diamond coating for carbide cutting tool • Conventional Machining (i.e. Turning, Milling, Shaping, Grinding) • Non-Conventional Machining (USM, AJM, EDM, LBM, EBM).
UG Subjects Taught	:	Machining Science and Technology, Unconventional Machining Process, Kinematics of Machinery, Basic Manufacturing Process, Machine Tools, Production Planning and Control, Design of Machine Members-II.
PG Subjects Taught	:	Theory of Plasticity, Advanced Machining Process, Production Technology.

Papers Published:

International Journals

- ☞ **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.
- ☞ **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 (UGC approved journal).
- ☞ **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 Article ID: IJMET_09_03_039, ISSN Print: 0976-6340 and ISSN Online: 0976-6359 (Scopus Indexed).

Conference / Workshops Attended:

- 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.
- 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, National Conference on Engineering, Science, Technology in Industrial applications and significance of free open source software, December 21-22, 2017, KG Reedy College of Engineering & Technology, Hyderabad .
- **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.

Membership / Participations:

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

Books Published: Nil

Research Projects Undertaken: Nil