

RESUME

Name : Dr. Anil Kumar Rajak
Date of birth : 16 –Jan -1976
Father’s Name : Sri Deonandan Ram
Date of joining : 24-May-2000
PAN no : AEAPR9274D

Presently Working as **Associate Professor and HOD** (Grade Pay Rs.9,000), Department of Metallurgical Engineering, B.I.T. Sindri, Dhanbad (*Department of Higher Technical Education and Skill Development Govt. of Jharkhand*).

Educational Qualification

Sl no:	Name of Board /University	Degree/Diploma	Class	Year of passing
1	B.S.E.B Patna	Matriculation	First	1991
2	B.I.E.C Patna	Intermediate	Second	1993
3	Burdawan University	B.E Metallurgy	First	1997
4	V.B.U Hazaribag	MSc Engg	First	2008
5	V.B.U Hazaribag	Ph.D		2019

Name of Seminar / FDP Organized:

Sl. no	Training type	Training Name	Name of the Institute	Periods	Total No. of days in Training
1.	TEQIP III	Nano scale Surface characterization by STM And PQMS Analysis	BIT Sindri	8 th jan-2th jan 2020	One week
2.	TEQIP III	Advances In Surface Engineering, Process And Practice	BIT Sindri	28 th Dec-1 st Jan 2021	One week
3.					

HACKATHON:

1. Worked as a Co-Coordinator in “ Online National HACKATHON-2021 solution for cement industries- Step towards building green Nation” March 20-21 2021, Organized jointly by ACC ,Department of Metallurgical engg. and Chemical engg. ,BIT Sindri Dhanbad, Jharkhand.

Name of the short term courses attended

Sl. no	Training type	Training Name	Name of the Institute	Periods	Total No. of days in Training
1.	ISTE	Productivity safety and management related program me.	BIT Sindri	31.04.2001-12.04.2001	13 days (two weeks)
2.	ISTE	Geomining applications in mining and allied areas.	BIT Sindri	29.10.2001-10.11.2001	13 days (two weeks)
3.	AICTE-ISTE	Application of CAD/CAM and robotics in industries	RIT Jamshedpur	03.06.2002-15.06.2002	13 days (two weeks)
4.	TEQIP	Creativity, problem solving and decision making	XLRI Jamshedpur	11.12.2006-15.12.2006	05 days (One week)
5.	TEQIP	National workshop on technological excellence through value engineering.	BIT Sindri	07.04.2007	One day
6.	TEQIP	National workshop on industry institute interaction	BIT Sindri	13.07.2007	Two days
7.	TEQIP	Finance for non finance executive	XLRI Jamshedpur	13.11.2007-17.11.2007	05 days (One week)
8.	TEQIP	Metallurgy for Engineers	NML Jamshedpur	10.12.2007-14.12.2007	05 days (One week)
9.	NITTTR	Exposure on Matlab	NITTTR Kolkata	28.7.2008-01.8.2008	05 days (One week)
10.	QIP	Non Destructive Testing and its applications in industry	IIT Roorkee	2.6.2008-6.6.2008	05 days (One week)
11.	TEQIP	Pedagogy	B.I.T Sindri	14.10.2008-19.10.2008	05 days (One week)
12.	TEQIP	Project management		24.11.2008-28.11.2008	05 days (One week)
13.	NITTTR	Mechatronics and Automation	NITTTR Kolkata	5.10.2009-9.10.2009	05 days (One week)
14.	UGC-NRCM	Summer school on "Mechanical properties characterization"	IISc Bangalore	14 th June - 2 nd July 2010	19 days (Three weeks)
15.	NITTTR	Exposure on Matlab	NITTTR Kolkata	4 th June-15 th June 2012	12 days (two weeks)
16.	ISTE	Performance Enhancement skill	BIT Sindri	23.07.2012-03.08.2012	12 days (two weeks)

17.		National seminar on energy and environment for sustainability	BIT Sindri	16.03.2013-17.03.2013	Two days
18.		All India seminar on Recent Advancement in manufacturing and its management (RAMM)	BIT sindri	7.02.2014-8.02.14	Two days
19.		Workshop on intellectual property rights	ISM Dhanbad		One Day
20	QIP	Advanced Aerospace materials: Processing Characterization and applications	IIT Roorkee	01.06.2015-05.06.2015	05 days
21	National seminar	Environmental Issues: protection conservation and management (EIPCM)	BIT Sindri	Feb- 26-27 2016	02 days
22	EICT	ICT skills of teachers	BIT Sindri	June 19-24 2017	06 days
23	PMMMNTT	Mineral processing: Principles, Processes & Practice	IIT(ISM)	June26 th – july1 st 2017	05 days
24	STSSNT	National seminar on Science and Technology of Special steel & Nano materials.	BIT Sindri	Feb17 th – feb 18 th	02 days
25		Mechanical Testing of Advance materials for mining and Mineral industries	IIT(ISM) Dhanbad	12 th may-14 th may 2017	03 days
26	TEQIP-III (MHRD govt. of India)	2 Summer traning program on active learning	IIT Gandhinagar	18 th -22 nd june 2018	One week
27	TEQIP-III	3.outcome based educationand accreditation	BIT Sindri	March 16 th -18 th 2018	03 days
28	TEQIP-III	4.Manufacturing automation, robotics& factory of future	BIT Sindri		One week
29	TEQIP III	Nano scale Surface characterization by STM And PQMS Analysis	BIT Sindri	8 th jan-2th jan 2020	One week
30	TEQIP III	Mindful leadership	IIM Bodhgaya	1 st -5 th Feburary	One week

Name Of Webinar Attended

Sl. no	Training type	Training Name	Name of the Institute	Periods	Total No. of days in Training
1	FDP	Quality concept(QC,Kaizen,5S,SPC, Sigma)	BIT Sindri	5 th June-9 th June 2020	5 days
2	FDP	Faculty development program for engineers on virtual lab	BIT Sindri	29 th June 2020	One days
3.	FDP	Free open source tools for education and research	BIT Sindri	7 th July 2020	One day
4.	AICTE	Webinar on Internet things (IOT)-Industrial prospective	BVICAM New Delhi	11 July 2020	One Day
5.	PMMM	FDP on LaTeX	Jamshedpur women's college & IIT Bombay	13 th -19 th July 2020	07 days
6.	TEQIP III	Supply chain management challenges and strategies	Dr. BR Ambedkar IT, Jalandhar	13 th - 17 th July	05 days
7.	IIPC (AICTE)	Webinar on Blockchain-Technological prospective	BVICAM New Delhi	18 th July 2020	One days
8.	IIPC (AICTE)	Webinar on Simplifying IPR and patent Filing	BVICAM New Delhi	24 th July 2020	One days
9.	TEQIP III	Transforming pedagogy in India	NIT Jamshedpur	1 st - 3 rd Aug 2020	03 days
10.	TEQIP-III	Research And Practices in civil Engineering (RPCE-2020)	IGIT Sarang	3 rd -7 th Aug 2020	05 Days
11.	TEQIP III	Mindful leadership	IIM Bodhgaya	1 st -5 th February	One week
12	TEQIP	Advances in Manufacturing (AIM-2021)	BIT Sindri	15 th -9 th June 2021	One week
13.	TEQIP	Water Resources System Planning Management and Development for the Water Scarc Areas	BIT Sindri	June 26 th -30 th 2021	
14.	TEQIP	Emerging Manufacturing Technology and strategies(ETMS 2021)	BIT Sindri	5 th July - 9 th July	One week

Management courses attended

1. Creativity, Problem solving & Decision Making From 11.12.2006—15.12.2006 at **XLRI Jamshedpur.**
2. Finance for non Finance Executives From 13.11.2006—17.11.2006 at **XLRI Jamshedpur.**
3. Project management from 24th nov-28th nov 2008 at **XLRI Jamshedpur.**

Members of professional body

1. The Institution of Engineers (India) Provisional Membership no. 046433.
2. The Indian Society for Technical Education Membership no. LM 83663.

Members of Different committee at State level

1. Member of State Board of Technical Education Ranchi (Jharkhand).

Members of Different committee at institute level

1. Presently Serving the department as Head of Department from November 2019
2. Member of sarjana committee at BIT Sindri, Dhanbad, Jharkhand.
3. Member of Housing committee at BIT Sindri, Dhanbad, Jharkhand.
4. Member of scholarship committee at BIT Sindri, Dhanbad, Jharkhand.
5. Member of Departmental research committee VBU Hazaribag. (M.Tech.)
6. Prof. in-charge Dhatwika at BIT Sindri.
7. Prof In-charge Dhatwika 15,16,17
8. Member of review committee of clubs.
9. Comparer of 1st sem. 2014,15,16
10. Comparer of 4th sem. 2017

Seminars & work shops

1. National workshop on Technical Excellence through value Engineering on 7.4.2007 at **B.I.T Sindri.**
2. National workshop on Industry Institute Interaction on 13.07.2007-14.07.2007 at **B.I.T Sindri.**
3. National workshop on Energy and Environment for sustainability on 16.03.2013-17.03.2013 at BIT Sindri.

Papers in journals/conferences/Seminars

International Journals:-

1. **“Development of 0.2%C-Cr MnMo Ultra HighStrength Steel”** in an International Journal of Scientific Engineering and Technology (IJSET) Volume No. 3 Issue No.2, Feb- 2014,pp: 101-108,ISSN No.2277-1581.
2. **“Advanced functional maintenance management for mining excavator”** in an International journal of Mechanical Engineering and Technology (IJMET) volume-5, issue-4, April-2014,pp,199-205, ISSN 0976-6340 (print). ISSN 0976-6359 (online) Journal Impact factor (2014) 7.5377 (calculated by GIST) by Prakash Kumar, Anil Kumar Rajak.
3. **“Sliding wear behavior of Al Based Alloy for Equipment and Machenaries”** in an International Journal of Science and Technology (IJSET) volume-2, issue-4, April-May -2014, pp 40-47,ISSN 2348-4098 (print) Journal Impact Factor:3.25 GIF 0.489 ICU 5.63 points by Rajak A.K, Prakash Kumar.
4. S.KMaity, Anil Kumar Rajak, M. Chandrashekhar, S.D Singh **“Development of ultrahigh strength steel by electro slag refining and thermomechanical treatment”** published on 31 May 2015, in an international online journal **Transaction of Indian Institute of Metals (Springer)** Vol-69,Issue - 3,pp-705-716.
5. A.K. Rajak, S.K.Maity, Nagendra Prasad **“Improvement in Mechanical Properties of Ultra High Strength Steel Through Induction Melting and Electrosag Refining”** published on 8- Feb 2016, in an International journal of engineering and advance technology, ISO 9001:2008, ISSN no 2249-8958, PP- 52-56.
6. A.K Rajak, Manish Kr Mishra, Sanket Charan Pahari” To study the effect of heat treatment on the microstructure and mechanical properties of plain carbon steel published in an International Journal of Trend in Reaserch and Development” ISSN: 2394-9333,volume 4 ,issue 2, March-April 2017.
7. **S.K Choudhary, A.K Rajak, K. Asish** “Failure analysis of rear axle shaft of a heavy vehicle” in **Materials today proceedings** in the month of july-2020.

International conferences:-

1. Atiqzaman, Dhiraj Prasad Sinha, R.Anil Kumar and K.Venkatswarlu **“Dry sliding wear behavior of tungsten of carbide (wc) coating”** in an international conference on advance materials and composites (ICAMC-2007). On Oct-24-26,2007 at CSIR Trivandrum pp 541-545
2. V.G.Akkimardi, S.A.Kori, R. Anil Kumar, Manoj Birua and K.venkatswarlu **“Physical, Mechanical, Tribological properties of Al-Mg and Al-Mg-Sc alloys”** in an International symposium on advance material and processing on 29-30th Oct 2007 , at Bagalkot Karnataka pp 229-230

3. A.K Rajak, M. Chandra Shekhar, S.K Maity “**Processiong of clean ultrahigh strength steel through electro slag refining**” in an International conference on, Advances in refractories and clean steel making (ARCS -13), june 26- 28,2013.
4. A.K.Rajak,S.K.Choudhary “**Improvement of Tribological wear behavior by addition of 0.2% Sc Al-Mg-Sc alloys**” in an International conference on Advances and soft computing applications in design and manufacturing (ASCADM-2018) june 04-06 0218 at NIT Patna.
5. **S. Murmu,S.K Choudhary,A.K.Rajak,G.kumar** Effect of heat treatment On steel welds: A review in an International conference on Advances and soft computing applications in design and manufacturing (ASCADM) from 04.06.2018-06.06.2018 at NIT Patna.

National conferences:-

1. R.Anil Kumar, V.G.Akkimardi, S.A.Kori, K.venkatswarlu “**Dry sliding wear behavior of Sc added Al-Mg alloys**” in National Metallurgical Day 2007 (2E1-3P39 (A11858)) pp 433-434.
2. Srivastava R.K, Prakash kumar and A.K.Rajak “**Future Scenario for Water Conservation in an around B.I.T Sindri**” in World water day 2011.
3. S.K. Choudhary ,R.Anil.Kumar,P.Kumar and S.K.Soren “**Modern trends in nuclear power generation**” in Indian Nuclear power programme challenges and opportunity (INCO) 2012 at B.I.T Sindri.pp-231-234
4. Prakash kumar, Srivastava R.K, and A.K.Rajak “**Nuclear Power Plant With Condition Based and Reliability Centered Maintenance for Plant Life Management**” in INCO 2012 at BIT Sindri,pp-234-242.
5. Anil kumar Rajak,Nagendra Prasad and S.k Maity,Presented paper “**Processing of Ultra High Strength Steel through Induction Melting and Thermomechanical Treatment**” in 27th National convention of production Engineers and National seminar on Advancement in Manufacturing-Vision 2020. 25th-26th May 2012, at BIT Meshra.
6. Rajak A.K and Prakash Kumar., Presented paper “**Effect of Environmental Pollution on Water in Urban Areas** ” in a National Seminar on Energy and environment for sustainability EES-2013 at BIT Sindri.,by.
Published by Excel India Publishers, New Delhi, First Impression: 2013, ISBN: 978-93-82880-18-9), Pg. 87-91.
7. A.K.Rajak and Prakash Kumar “**Product remanufacturing for Sustainable Envirinment**” in a National Seminar on Energy and environment for sustainability EES-2013 at BIT Sindri.,by.
Published by Excel India Publishers, New Delhi, First Impression: 2013, ISBN: 978-93-82880-18-9), Pg. 81-86.
8. Rajak.A.K., R.N.Gupta,S.K. Choudhary and S.kSoren, Presented paper “**Effect of Metallurgical Waste on Environment and Their Remedies** ” in a National Seminar on “Energy and environment for sustainability EES-2013” from 16th- 17th March 2013 at BIT sindri .
Published by Excel India Publishers, New Delhi, First Impression: 2013, ISBN: 978-93-82880-18-9), Pg. 67-73.

9. S.K. Choudhary, S.K.Soren and Rajak.A.K. **“A Comparative Study of Levelized Cost of power Generation among Thermal power,Wind power and nuclear power”** in a National Seminar on Energy and environment for sustainability EES-2013 at BIT Sindri .
Published by Excel India Publishers, New Delhi, First Impression: 2013, ISBN: 978-93-82880-18-9), Pg. 61-63.

10. Prakash Kumar, R.K. Srivastava, A.K. Rajak **“Application of Green Manufacturing for Cleaner Production” in an All India Seminar on “Recent Advancement in Manufacturing and its Management (RAMM-14)”** from 7th -8th February 2014 at B.I.T.Sindri, Dhanbad.

11. A.K.Rajak, Prakash Kumar, Presented paper: **“Metallurgical Wastes and its Effect on Public Health”** in National Seminar on **“Environmental Issues: Protection, Conservation and Management (EIPCM)”** from 26th -27th February 2016 at B.I.T.Sindri, Dhanbad.
Published by Excel India Publishers, New Delhi, First Impression: Feb. 2016, ISBN: 978-93-85777-28-8), Pg. 28-33.

12. Jageswar Prasad, A.K.Rajak, Sandeep Kumar, Presented paper: **“Effect of Metallurgical Gaseous Wastes on Human Health”** in National Seminar on **“Environmental Issues: Protection, Conservation and Management (EIPCM)”** from 26th -27th February 2016 at B.I.T.Sindri, Dhanbad.
Published by Excel India Publishers, New Delhi, First Impression: Feb. 2016, ISBN: 978-93-85777-28-8), Pg. 28-33.

13. **Anil Kumar Rajak, P.K Singh, Presented paper on Study of Green inhibitors for corrosion of mild steel in acidic media and environments, in National Seminar on Techno-nationalistic Interventions for Enhancing innovativeness Dec-11/12/17 at BIT Sindri**
