




JSS Mahavidyapeetha
JSS Academy of Technical Education, Noida
Department of Mechanical Engineering.



FACULTY PROFILE

Department: Mechanical Engineering

1. Personal Details

| | | |
|---------------------------|---------------------------|-------------------------------------------------------------------------------------|
| NAME | Dr. RAJESH BAJAJ |  |
| DEPARTMENT | MECHANICAL ENGINEERING | |
| DESIGNATION | ASSISTANT PROFESSOR | |
| PHONE | 7599117374 | |
| EMAIL ID | rajeshbajaj@jssaten.ac.in | |
| Date of Joining (JSSATEN) | 07-04-2010 | |

2. Experience

| | | | |
|----------------------------|--------------|-----------------|---------------|
| Total Experience in Years: | Teaching: 17 | Industry: - Nil | Research: - 6 |
|----------------------------|--------------|-----------------|---------------|

3. Qualifications

| COURSES | SPECIALIZATION | Year of Award | INSTITUTION | UNIVERSITY |
|---------|------------------------|---------------|------------------------------------------------|-----------------------------------------------------|
| B.E. | Mechanical Engineering | 2001 | Kamla Nehru Institute of Technology, Sultanpur | Dr. A.P.J Abdul kalam Technical University, Lucknow |
| MTech | Computer Aided Design | 2006 | Harcourt Butler Technical University, Kanpur | HBTU |
| Ph.D. | Mechanical Engineering | 2022 | IIT(ISM) Dhanbad | IIT |

4. Research & Publications

| | | |
|-----------------------------------------------------|-------------------|--------------|
| Papers Published in Web of Science indexed Journals | International: 5 | National: 00 |
| Papers Published in SCOPUS indexed Journals | International: 00 | National: 00 |
| Papers Published in other Journals | International: 00 | National: 00 |
| Papers Presented in Conferences / Symposium | International: 1 | National: 1 |
| Books / Book chapters Published | | |

5. Research Guidance

| | | |
|------------------------------------|-----------------------------|--------------------------------------------------------------------|
| PhD Guide? Give field & University | No | University: Visvesvaraya Technological University, Belagavi, |
| PhDs / Projects Guided | Ph.D. Awarded: Guiding: NIL | Projects at Master's Level: - Nil Projects at Bachelor's Level: |

6. Grants

i. Funds Received (Projects)

| Project Name | Grant Amount | Date of receiving the Grant | Duration | Grant issuing authority/ Body / Organization |
|--------------------------------------------------------------------------------------------------------|--------------|-----------------------------|----------|-----------------------------------------------------|
| Enhancement of machining Performance of Powder Mixed Electric Discharge machining using bio dielectric | 300000 | 24.07.2019 | 1Year | Dr. A.P.J Abdul kalam Technical University, Lucknow |

ii. Patents

| Sl. No. | Title Details | Details of award of patent / Filed |
|---------|---------------|------------------------------------|
| 1 | | |
| 2 | | |
| 3 | | |
| 4 | | |
| 5 | | |

iii. Consultancy

| Title of the work | Amount in Rs. | Date of receiving the Grant | Duration | Grant issuing authority/ Body / Organization |
|-------------------|---------------|-----------------------------|----------|----------------------------------------------|
| - | - | - | - | - |

7. Awards Received

| | |
|---------------------------|--|
| Awards "Best Paper Award" | |
|---------------------------|--|

8. Publications

i. International Journals

| Sl. No. | Title of the paper | Name(s) of Author(s) | Name of the Journal | Volume No. Issue No. Year | WOS / Scopus / Both | Impact Factor | Publisher |
|---------|-----------------------------------------------------------------------------------|----------------------------------------------------------------------|-------------------------------------------------------------------------|---------------------------|---------------------|---------------|-----------|
| 1 | Machining performance enhancement of EN-31 die steel using MWCNT mixed rotary EDM | Rajesh Bajaj, Amit Rai Dixit, Arun Kumar Tiwari, Nitin Kumar Chauhan | Indian Journal of Engineering and Materials Sciences | 27(2) 2020 | WOS | 0.881 | NISCAIR |
| 2 | Machining performance enhancement of powder mixed electric discharge | Rajesh Bajaj, Amit Rai Dixit, Arun Kumar Tiwari | Journal of the Brazilian Society of Mechanical Sciences and Engineering | 42 (10) 2020 | WOS | 2.220 | SPRINGER |

| | | | | | | | |
|---|------------------------------------------------------------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------|------------------------------------------|------------|-----|-------|----------|
| | machining using Green dielectric fluid | | | | | | |
| 3 | Development of bio-composite material by utilizing chrome containing leather waste with Al ₂ O ₃ ceramic particles | S P Dwivedi, Anurag Dixit, Rajesh Bajaj | Materials Research Express | 6(10) 2019 | WOS | 1.91 | IOP |
| 4 | 20th Century Uninterrupted Growth in Friction Stir Processing of Lightweight Composites and Alloys | Ashish Kumar Srivastava, Amit Rai Dixit, Manish Maurya, Ambuj Saxena, Nagendra Kumar Maurya, Shashi Prakash Dwivedi, Rajesh Bajaj | Materials Chemistry and Physics | 266 2021 | WOS | 4.094 | ELSEVIER |
| 5 | Experimental investigation on machining performance using deionized water as dielectric in die-sinking EDM | K Paswan, R Ranjan, S Hembram, Rajesh Bajaj, A Rai Dixit, A Mandol, . | Indian Journal of Science and Technology | 9(22) 2016 | WOS | 0.618 | |
| 6 | | | | | | | |
| 7 | | | | | | | |
| 8 | | | | | | | |

ii. National Journals

| Sl. No. | Title of the paper | Name(s) of Author(s) | Name of the Journal | Volume No. Issue | WOS / Scopus / Both | Impact Factor | Publisher |
|---------|--------------------|----------------------|---------------------|------------------|---------------------|---------------|-----------|
|---------|--------------------|----------------------|---------------------|------------------|---------------------|---------------|-----------|

| | | | | | | | |
|---|---|---|---|---------------------|---|---|---|
| | | | | No. Year | | | |
| - | - | - | - | - | - | - | - |

iii. Conferences

| Sl. No. | Title of the paper | Name(s) of Author(s) | Name of the Conference | Volume No. Issue No. Year | WOS / Scopus | Impact Factor | Publisher |
|---------|-----------------------------------------------------------------------------------------------|---------------------------------------------------------------|-----------------------------------------------------------------------------------------------------------------|---------------------------|--------------|---------------|-----------|
| 1 | Current trends in electric discharge machining using micro and nano powder materials-A Review | Rajesh Bajaj, Amit Rai Dixit, Arun Kumar Tiwari | Materials Today: Proceedings | 2(4-5) 2015 | WOS | 1.24 | ELSEVIER |
| 2 | Turning Process Using Coated Carbide Tool | RK Singh, AK Sharma, A Jatav, S Kumar, Rajesh Bajaj, AR Dixit | 2 nd National conference on mining equipment: New Technologies, challenges and applications (MENTCA) | 2015 | | | Academia |

iv. Workshops /Conferences Attended

| Sl. No. | Name of the workshop / Conference | Organizer | Date |
|---------|--------------------------------------------------------|----------------------------------------------------|--------------------------------|
| 1 | Short term course on Micromachining | IIT Kanpur | 20-25 July, 2009 |
| 2 | Workshop on High impact Teaching skills | Dale Carnegie & Associates, Inc. Trainer and Wipro | 16-20 th Feb, 2009 |
| 3 | FDP on 'Human values & professional Ethics' | GBTU and IIT Kanpur | 3-10 th June 2013 |
| 4 | FDP on 'Precision Manufacturing for Better Tomorrow | DTU | 14-18 th July 2014 |
| 5 | STC on Effective Curriculum Implementation through ICT | NITTTR Chandigarh | 7-11 th March 2016 |
| 6 | FDP on Manufacturing world and its Future | JSS Academy of Technical Education Noida | 23-28 th April 2018 |

| | | | |
|--|--|--------------------------|--|
| | | sponsored by AKTU Lko | |
|--|--|--------------------------|--|

v. Workshops / Conference (Organized)

| Sl. No. | Name of the workshop / Conference | Organized by | Date | Role |
|---------|-----------------------------------|--------------|------|------|
| - | - | - | - | - |

vi. Conference Attended (those sponsored by AICTE / ISTE /IETE /TEQIP or any other sponsoring body)

| Sl. No. | Name of the workshop / Conference | Organizer | Date |
|---------|--------------------------------------------------------------------------------------------------|----------------------------------------------------------------|---------------------------------------------------|
| 1 | FDP on Instructional Design Delivery System Embedded with Useful/State of the Art software Tools | JSS Academy of Technical Education Noida (TEQIP-III Sponsored) | 27 th August-01 st Sep 2018 |
| 2 | FDP on Mechanical Design Techniques for Academic and Industrial Environment | JSS Academy of Technical Education Noida (AICTE Sponsored) | 8-20 th July 2019 |

9. Details of NPTEL / COURSERA courses completed

| Sl. No. | Name of the subject | Organized by | Date of completion / Award | Grade / Marks |
|---------|---------------------|--------------|----------------------------|---------------|
| - | - | - | - | - |

10. Membership of Professional Bodies:

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| 1. |
| 2. |

11. Any other information you will like to share about your professional experience

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Faculty Name: **Dr. Rajesh Bajaj**

Designation: Assistant Professor

JSS Academy of Technical Education, Noida.