

CURRICULUM VITAE

RAHUL DAVIS

Assistant Professor

Department of Mechanical Engineering

Shepherd School of Engineering & Technology

Sam Higginbottom Institute of Agriculture,
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University, Allahabad, India



DATE OF BIRTH: DEC 10, 1986

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EDUCATIONAL DETAILS

2011	SAM HIGGINBOTTOM INSTITUTE OF AGRICULTURE, TECHNOLOGY & SCIENCES –DEEMED –TO- BE- UNIVERSITY, Allahabad, India M. Tech. Production & Industrial Engineering
2008	ALLAHABAD AGRICULTURAL INSTITUTE- DEEMED UNIVERSITY, Allahabad, India B. Tech. Mechanical Engineering
2003	PARKER INTER COLLEGE, Moradabad, India U.P. Board Senior School Certificate Examination
2001	PARKER INTER COLLEGE, Moradabad, India U.P. Board Secondary School Examination

ACADEMIC EXPERIENCE

Duration	INSTITUTE / UNIVERSITY	DESIGNATION
July 2009 – June 2010	Allahabad Agriculture Institute –Deemed University, Allahabad, India	Teaching Assistant
July 2010 – June 2011	Sam Higginbottom Institute of Agriculture, Technology & Science –Deemed-to-be- University, Allahabad, India	Junior Lecturer
July 2011 – Till date	Sam Higginbottom Institute of Agriculture, Technology & Science –Deemed-to-be- University, Allahabad, India	Assistant Professor

ADDITIONAL ACADEMIC RESPONSIBILITIES

- 1. Staff Advisor, B. Tech Mechanical Engineering (Final year) and B. Tech Production and Industrial Engineering (Final year), Department of Mechanical Engineering, SHIATS, Allahabad, India (July 2012 - till date)**
- 2. Member, Board of Studies, Department of Mechanical Engineering, SHIATS, Allahabad, India (July 2012 - till date)**
- 3. Member, Student's Advisory Committee (SAC), Department of Mechanical Engineering, SHIATS, Allahabad, India (July 2011 - till date)**
- 4. Member, Examination Committee, Shepherd School of Engineering & Technology, SHIATS, Allahabad, India (October 2012 - till date)**

ADMINISTRATIVE RESPONSIBILITIES

- 1. Hostel Warden, Men's Hostel, Sam Higginbottom Institute of Agriculture, Technology & Sciences –Deemed University (SHIATS-DU), Allahabad, India (January 2010 – till date)**
- 2. Staff Advisor, Student's Christian Movement –India (SCMI) SHIATS Unit, Allahabad, India (January 2010 – till date)**
- 3. Membership Secretary, Gideons International Ministries - Naini Camp, Allahabad, India (July 2010 – till date)**
- 4. Member, Anti Ragging Cell, SHIATS, Allahabad, India (Jan 2010 – till date)**
- 5. Chaplain, Department of Mechanical Engineering, SHIATS, Allahabad, India (July 2012 - till date)**

6. **Office-in-Charge, Engineering Graphics Lab, Department of Mechanical Engineering, SHIATS, Allahabad, India (July 2012 – till date)**

TRAININGS /SHORT TERM COURSES

1. **Rahul Davis (2013)**, attended a AICTE sponsored *Short Term Course* on “**Finish Machining: A-State-of-the-Art**” at *Indian Institute of Technology Roorkee (IIT-R)*, *Sept. 2nd – Sept. 6th 2013* at Roorkee, India
2. **Rahul Davis (2012)**, attended a *Short Term Course* on “**Mechatronics**” at *National Institute of Technical Teachers Training & Research (NITTTR)*, *Jan 16th – Jan. 20th 2012*, at Chandigarh, Punjab, India

RECOGNITION/AWARDS

1. **Silver Medal** in 2011, in “*M.Tech (Production & Industrial Engineering)*”
2. **Best Paper Award** for *June 2013*, by **Trans Steller** Journal Publication for the Research Paper titled “*The Application of Taguchi’s Optimization Method in Wet Turning Operation of EN 19 Steel*”, *International Journal of Mechanical & Production Engineering Research & Development (IJMPERD)*, - Volume 3, Issue 2, **Impact Factor : 5.2189**

PEER-REVIEW ACTIVITIES

1. **Journal Reviewer** for *International Journal of Advanced Manufacturing Technology (IJAMT-Springer)*
2. **Journal Reviewer** for *Industrial Lubrication & Tribology (ILT-Emerald)*
3. **Journal Reviewer** for *World Journal of Engineering Science (WJES)*
4. **Journal Reviewer** for *Global Journals Inc. (GJRE)*
5. **Journal Reviewer** for *Trans Stellar (TJPRC)*
6. **Journal Reviewer** for *World Scientific & Engineering Academy & Society (WSEAS)*

EDITORIAL ACTIVITIES

1. **Member, Editorial Board**, *International Journal of Mechanical Engineering and Technology (IJMET)*
2. **Member, Editorial Board**, *International Journal of Industrial Engineering Research and Development (IJIIRD)*
3. **Member, Editorial Board**, *International Journal of Design and Manufacturing Technology (IJDMT)*
4. **Member, Editorial Board**, *International Journal of Research in Mechanical Engineering (IJRME), IASTER*

MEMBERSHIPS	
1.	Member, American Society of Mechanical Engineer (ASME), USA
2.	Member, Scientific Board of Industrial & Mechanical Engineers, International Institute of Engineers (IIENG), United Kingdom
3.	Member, IACSIT Mechanical Engineering Society, International Association of Computer Science & Information Technology (IACSIT), China
4.	Member, International Association for Engineering and Management Education (IAEME), India
5.	Member, IAENG Society of Mechanical Engineers, International Association of Engineers (IAENG), Hong Kong

M.Tech Supervision			
S. No.	Candidate	Title	Year
1.	Jitendra Singh Madhukar	Analysis of Surface Roughness and Tool Life in Turning Operation of En-24 Steel using Taguchi Method	2012
2.	Abdurahman H A Zubir	Prediction of Surface Roughness and Tool Life in Turning Operation of High Carbon High Chromium Steel using Taguchi Design of Experiment	2012
3.	Mohamed Alazhari	Analysis of Surface Roughness in Turning Process by the Optimization of Cutting Parameters using Taguchi Method	2012
4.	Vivek John	Application of Pressurized Coolant Jet Approach in Parameter Design Analysis of Surface Roughness	2013
5.	Joseph Emmanuel	An Experimental Study of the Effect of Control Parameters on the Surface Roughness in Turning Operation of EN 353 Steel	2013
6.	Gaurav Kumar	Application of Artificial Neural Network and Fuzzy Logic in Multi Response Optimization of CNC End Milling Operation	Ongoing
7.	Mohd. Shadab	Application of Fuzzy based Design of Experiment Technique in Optimization of Izod Impact Testing	Ongoing
8.	Rohit Pandey	An Adaptive based Fuzzy Approach for Prediction of Impact Value in Charpy Impact Testing	Ongoing
9.	Ankur Anand	Analysis of Heat Treatment and Toughness behaviour of Tool Steels using Response Surface Method	Ongoing

10.	Sanjeev kumar Pal	Optimization of Process Parameters of Induction Hardening using Grey based Taguchi method	Ongoing
11.	Sujit Raj	Application of PCA and Grey Relational Method in Tensile Test of Aluminium at High Temperature	Ongoing
12.	Amit Vishal	A Parametric Design Study of Charpy Impact Testing using Hybrid Taguchi Method and PCA	Ongoing
13.	Krishna Singh	DEA based Taguchi method for Optimization of CNC face Milling Operation	Ongoing

B.Tech Supervision			
S. No.	Candidate (s)	Title	Year
1.	PrinceSingh ShaluzPriyanka Vikash Singh Rana Vikrant Kumar	A Comparative Parametric Design Study of Surface Roughness in Dry & Wet Cutting Conditions in Turning Operation of En24 Steel	2012
2.	Md. Imroz Alam Akash Sunny Ambar Sagun Shailendra Shukla	Analysis of Surface Roughness in Turning Operation of En-353 Steel Using Taguchi Method	2013
3.	Vivek Kumar Lomga Raja Paul Horo Kulan Abel Kandulna Asian Kandulna	The Prediction of Surface Roughness in Finish Turning of EN-19 Steel	2013
4.	Vishesh Ranglani Reshma Rani Chatrapal Singh Sateesh Kumar	Design and Fabrication of Hydraulic Jack	Ongoing
5.	Joy Ujjwal Xalxo Jayant Ekka Sandeep Kandeer Amit Lakra	Application of Fuzzy Logic and Artificial Neural Network in Grinding Operation	Ongoing
6.	Noel Vinsent Singh Daniel Martin Roshni Deepika Ashish Masih	Design and Fabrication of Inertial Propulsion Drive	Ongoing
7.	Saurabh Pratap Singh Shashi Kant Tripathi	Multi Response Optimization of Milling Operation using Response Surface Method and ANN	Ongoing

8.	Khangamlung Kamei Ananyo Chakraborty Anna William Nomaan Ahmad	Application of Grey Relational Analysis and DEA in Multi Response Optimization of Impact Testing	Ongoing
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Ongoing Projects				
S. No.	Title of the Project	Funding Agency	Year of Start	Status
1.	Experimental Investigation of Wear of Ceramic Cutting Tools with Minimum Quantity Lubrication in Finish Turning of Superalloy Inconel 718 for Sustainable Development	SHIATS	2013	Ongoing

EXTRA CURRICULAR ACTIVITIES	
Extra Curricular	Involved in Christian Ministry <ul style="list-style-type: none"> As a Bible Teacher in Churches, Christian Conferences, Youth Retreats As a Worship Leader in Churches and in various Christian Conferences, Conventions

OTHER INFORMATIONS	
Gender:	Male
Nationality:	Indian
Languages Known	English, Hindi
Contact Address	Department of Mechanical Engineering Shepherd School of Engineering & Technology Sam Higginbottom Institute of Agriculture, Technology & Sciences –Deemed University, Allahabad (U.P.) -211007 India

INTERNATIONAL & NATIONAL SEMINARS/WORKSHOPS	
1.	Rahul Davis (2013) , attended an International Seminar in Association with <i>University of Oxford & Yale University</i> on “What is Emotional Intelligence?” Hotel Regency, October 5 th , Allahabad, India
2.	Rahul Davis (2013) , attended a National Seminar on Recent Trends in Finish

<i>Machining</i> , at SSET, October 22 nd , SHIATS, Allahabad, India
3. Rahul Davis (2013) , attended “ <i>National Workshop for Chaplains and Campus Ministries</i> ”, at Jeevan Jyoti Retreat House, organized by All India Association of Christian Higher Education (AIACHE), June 20 th to 22 nd , Hyderabad, India
4. Rahul Davis (2012) , attended National Workshop on “<i>Advances in Solar Energy Technology</i>” , <i>Sam Higginbottom Institute of Agriculture, Technology & Sciences</i> , September 18 th , Allahabad, India
5. Rahul Davis (2012) , attended “ <i>National Workshop on Interface between Science and Religion</i> ”, <i>Sam Higginbottom Institute of Agriculture, Technology & Sciences</i> , April 10 th -11 th , Allahabad, India

ACTIVITIES IN INTERNATIONAL / NATIONAL CONFERENCES
1. Rahul Davis (2014) , <i>Technical Committee Member</i> in 2014 International Conference on Advances in Materials, Mechanical and Industrial Engineering (MAE-2014) , during Sept. 29 th – 30 th 2014, Phuket, Thailand
2. Rahul Davis (2014) , <i>Technical Committee Member</i> in 2014 International Conference on Computer Science and Manufacturing Technologies (CSMT-2014) , during Aug 2 rd – 3 rd 2014, in Bali, Indonesia
3. Rahul Davis (2014) , <i>Technical Committee Member</i> in 2014 Euro-Asia Conference on Computational Intelligence and Signal Processing (CISP-2014) , during <u>July 5th – 6th</u> 2014, in London, U.K.
4.
5. Rahul Davis (2014) , <i>Chaired a Session</i> in 2014 International Conference on Mechatronics Manufacturing and Automation (ICMMA 2014) , at Quality Hotel, Feb. 19 th – 20 th 2014, Singapore
6. Rahul Davis (2014) , <i>played role as a Reviewer</i> in the Technical Committee of 2014 International Conference on Mechatronics Manufacturing and Automation (ICMMA 2014) , at Quality Hotel, Feb. 19 th – 20 th 2014, Singapore

PAPER PRESENTATIONS AT INTERNATIONAL / NATIONAL CONFERENCES
1. Rahul Davis (2014) , <i>presented</i> research paper on the topic “ Application of Taguchi Design of Experiment method in Optimization of Izod Impact Testing ” in 2014 International Conference on Mechatronics Manufacturing and Automation (ICMMA 2014) , at Quality Hotel, Feb. 19 th – 20 th 2014, Singapore <ul style="list-style-type: none"> • Paper was published in ICMMA 2014 Proceedings with <i>Paper ID: A023</i>

2. **Rahul Davis (2013)**, *presented* research paper on the topic “**Optimization of Process Parameters of Turning Operation for EN 353 Steel**” in *International Conference on Recent Trends in Mechanical Engineering (ICRTME 2013)*, ITM University, November 16th 2013, Gurgaon, Haryana, India
 - Paper was published in **ICRTME 2013 Proceedings** with *ISBN No. 978-93-83723-02-7*
3. **Rahul Davis (2013)**, *presented* research paper on the topic “**A Parameter Design Study in Izod Impact Testing using Taguchi Method**” in *Asia Pacific International Congress on Engineering & Natural Sciences (APICENS -2013)*, The Landmark Bangkok Hotel, April 16th-18th 2013, Bangkok, Thailand
 - Paper was published in **APICENS 2013 Proceedings** with *Paper ID: 59*, pp: 214-223
4. **Rahul Davis (2012)**, *presented* research paper on the topic “**A Parametric Design Study of Surface Roughness in Wet Turning Operation of EN 24 Steel**”, in *International Conference on Advancements in Engineering & Technology (ICAET-2012)*, Bhai Gurdas Institute of Engineering & Technology (BGIET), October 12th-13th 2012, Sangrur, Punjab, India
 - Paper was published in **ICAET 2012 Proceedings**, pp: 114-116
5. **Rahul Davis (2012)**, *presented* research paper on the topic “**Application of Taguchi Method in Parametric Design Study of Izod Impact Testing**” in *National Conference on Chemistry- Role and Challenges*, Ewing Christian College, February 25th-26th 2012, Allahabad, India

RESEARCH PUBLICATIONS

1. **Rahul Davis (2012)**, **A Parametric Design Study of Surface Roughness in Dry Turning Operation of EN 24 Steel**, *International Journal of Mechanical Engineering & Technology (IJMET)*, Volume 3, Issue 2, pp : 410 – 415, **Impact Factor : 3.807**
2. **Rahul Davis (2012)**, **Optimization of Surface Roughness in Wet Turning Operation of EN 24 Steel**, *International Journal of Mechanical and Production Engineering Research and Development (IJMPERD)*, Vol.2, Issue 3, pp : 28-35, **Impact Factor : 3.251**
3. **Rahul Davis and Mohamed Alazhari (2012)**, **Optimization of Cutting Parameters in Dry Turning Operation of Mild Steel**, *International Journal of Advanced Research in Engineering & Technology (IJARET)*, Volume 3, Issue 2, pp : 104 – 110, **Impact Factor : 2.7078**
4. **Rahul Davis and Jitendra Singh Madhukar (2012)**, **A Parametric Analysis And Optimization of Tool Life in Dry Turning of EN 24 Steel Using Taguchi Method**, *International Journal of Production Technology and Management (IJPTM)*, Volume 3, Issue 1, pp : 9 -15, **Impact Factor : 1.591**

<p>5. Rahul Davis and Mohamed Alazhari (2012), Analysis and Optimization of Surface Roughness in Dry Turning Operation of Mild Steel, <i>International Journal of Industrial Engineering Research and Development (IJIERD)</i>, Volume 3, Issue 2, pp : 1 – 9, Impact Factor : 2.3810</p>
<p>6. Rahul Davis, Jitendra Singh Madhukar, Vikash Singh Rana, Prince Singh (2012), Optimization of Cutting Parameters in Dry Turning Operation of EN 24 Steel, <i>International Journal of Emerging Technology and Advanced Engineering</i>, Volume 2, Issue 10, pp : 559-563</p>
<p>7. Rahul Davis, Mohamed Alazhari, Abdurahman HA Zubir (2013), The Application of Taguchi Method in Optimization of Tool Life in Turning Operation of High Carbon High Chromium Steel, <i>International Journal of Mechanical Engineering (IJME)</i>, Volume 41, Issue 1, pp : 1142-1145, Impact Factor : 3.221</p>
<p>8. Rahul Davis, Mohamed Alazhari, Abdurahman HA Zubir (2013), Optimization of Surface Roughness in Wet Turning Operation of High Carbon High Chromium Steel, <i>International Review of Mechanical Engineering (IREME)</i>, Volume 7, N 3, pp : 495-498, Impact Factor : 6.46</p>
<p>9. Joseph Emmanuel and Rahul Davis (2013), An Experimental Study of the Effect of Control Parameters on the Surface Roughness in Turning Operation of EN 353 Steel, <i>IOSR Journal of Mechanical and Civil Engineering (JMCE)</i>, Volume 8, Issue 4, pp : 33-38</p>
<p>10. Rahul Davis, Joseph Emmanuel, Md. Imroz Alam, Akash Sunny (2013), Taguchi Method and ANOVA : An Approach for Process Parameters Optimization of Wet Turning Operation While Turning EN 353 Steel, <i>International Journal of Advanced Research in Engineering & Technology (IJARET)</i>, Volume 4, Issue 4, pp : 1- 7, Impact Factor : 5.8376</p>
<p>11. Vivek John, Rahul Davis, Kulan Abel Kandulna and Asian Abhishek Kandulna (2013), The Prediction of Surface Roughness in Finish Turning of EN-19 Steel, <i>International Journal of Mechanical Engineering & Technology (IJMET)</i> -Volume 4, Issue 3, pp : 392-399, Impact Factor : 5.7731</p>
<p>12. Rahul Davis, Vivek John (2013), Application of Pressurized Coolant Jet Approach in Parameter Design Analysis of Surface Roughness, <i>International Journal of Mechanical Engineering</i> -Paper accepted, Impact Factor : 3.221</p>
<p>13. Rahul Davis and Joseph Emmanuel (2013), A Study of the Effect of Control Parameters on Surface Roughness in Turning Operation using Taguchi Method, <i>International Journal of Recent Technology and Engineering (IJRTE)</i>, Paper Accepted - Impact Factor : 1.0</p>
<p>14. Rahul Davis, Vivek John, Vivek Kumar Lomga, Raja Paul Horo (2013), The Application of Taguchi's Optimization Method in Wet Turning Operation of EN 19 Steel, <i>International Journal of Mechanical & Production Engineering Research & Development (IJMPERD)</i>, - Volume 3, Issue 2, Impact Factor : 5.2189</p>

<p>15. Joseph Emmanuel and Rahul Davis (2013), An Experimental Study and Analysis of Surface Roughness in Wet Turning Operation of EN 353 Steel, <i>International Journal of Current Engineering & Technology (IJCET)</i>, Volume 3, Issue 3, pp : 1109-1113, Impact Factor : 2.552</p>
<p>16. Rahul Davis (2014), Application of Taguchi Design of Experiment method in Optimization of Izod Impact Testing, <i>Applied Mechanics and Materials</i>, Volume 541-542, Trans Tech Publications, Switzerland, pp : 663-668</p>
<p>17. Rahul Davis et al (2014), An Experimental Study of the Effect of Thermal Treatments and Charpy Impact Test Parameters on Impact Toughness of EN 31 Steel, <i>IOSR Journal of Mechanical and Civil Engineering (JMCE)</i> – Paper Accepted</p>