

Curriculum Vitae

RANBIR KALITA

Age: 31 years, Male, Unmarried

Contact Details: (+91) 84720 10890

ranbirkalita@gmail.com



- B. Tech. in Mechanical Engineering
- M.E. in Mechanical Engineering
Specialization in Production & Industrial Engineering
- Currently pursuing PhD
Working on Water Distillation using Solar Energy.

Career Objective: To be associated with a Progressive and Innovative Organization/Institute that gives scope to apply my knowledge and skills, and to be a part of a team that dynamically works towards the growth and diversification of the Organization/Institute.

Academic Profile

| NAME OF EXAM | BOARD / UNIVERSITY | SCHOOL / COLLEGE | YEAR OF PASSING | SECURED PERCENTAGE |
|---|--|---|-----------------|--|
| HSLC (10 th Standard) | Board of Secondary Education, Assam (SEBA) | Bidyapara Boys' Higher Secondary School, Dhubri (Assam) | 2005 | 79.83 (First Division with Star) |
| HSSLC (12 th Standard) | Assam Higher Secondary Education Council (AHSEC) | B R P L Vidyalaya H S School, Bongaigaon (Assam) | 2007 | 61.00 (First Division) |
| B. Tech. (Mechanical Engineering) | Rajasthan Technical University, Kota (RTU, Kota) | Sobhasaria Engineering College, Sikar (Rajasthan) | 2012 | 71.01 (First Class with Honours) |
| M.E. (Mechanical Engineering) | Dibrugarh University, Dibrugarh (Assam) | Jorhat Engineering College, Jorhat (Assam) | 2015 | 78.65 (First Class) |
| PhD (Mechanical Engineering) | Dibrugarh University, Dibrugarh (Assam) | Jorhat Engineering College, Jorhat (Assam) | Pursuing | Registration Date: 12-12-2018 |

B. Tech., M.E. & Ph.D. Projects / Research Work Titles and Internships Done:

B. Tech. Final Year Project: Solar Parabolic Collector.
M.E. 3rd Semester Mini Project: Impact of Work Overtime on Production.
M.E. 4th Semester Major Project: Development of a Scheduling Heuristics for the Fabrication Shop of a Sheet Metal Processing Industry.

Ph.D.: Design and Development of a Solar Distillation Unit Suitable for Climatic Conditions of Assam.

Internship: 1 month Summer Internship, after B. Tech. 6th Semester, in Bongaigaon Refinery, Bongaigaon (Assam).

Publication Details

- [1] Ranbir Kalita, Parimal Bakul Barua, Deva Kanta Rabha (March 2020), "Review of Performance of a Single Basin Passive Solar Still", *1st International Conference on Emerging Global Trends in Engineering and Technology* (EGTET 2020), 6th – 7th March 2020. Lecture Notes in Electrical Engineering, vol. 765, pp. 187-196. Springer, Singapore. https://doi.org/10.1007/978-981-16-1550-4_20.
- [2] Ranbir Kalita, Parimal Bakul Barua, Deva Kanta Rabha, Joyshree Konwar, Kaushik Kalita, Smriti Das, Vivek Gogoi (April 2019), "Study of Solar Still and Ways of Improving its Productivity", *International Journal of Engineering Trends & Technology* (IJETT), Volume 67, Issue 4, pp. 85-87, ISSN: 2231-5381.

- [3] Ranbir Kalita, Parimal Bakul Barua, Ajoy Krishna Dutta (2016), “Development of a Heuristic Algorithm for Finding Optimum Machine Loading Sequence in Fabrication Shop with Job Shop Layout”, *International Conference on Electrical, Electronics, and Optimization Techniques (ICEEOT)-2016*, pp. 1324-1329, 978-1-4673-9939-5/16/\$31.00©2016 IEEE, DOI: 10.1109/ICEEOT.2016.7754898 [added to IEEE Xplore on 24 November 2016].
- [4] Ranbir Kalita, Ajoy Krishna Dutta, P. B. Barua (November 2015), “Development of a Scheduling Heuristic for the Fabrication Shop of a Sheet Metal Processing Industry”, *International Journal of Engineering Trends & Technology (IJETT)*, Volume 29, Number 2, pp. 87-90, ISSN: 2231-5381.

Professional and Teaching Experiences

| Sl. No. | Name and Address of the Employer | Employer Type | Position held | Nature of work | Period | Duration |
|---------|---|---------------|-----------------------------------|--|--------------------------|----------|
| 1 | Furnitech, Guwahati Brand Name: ONOMA | Private | Shift In-charge | Production Supervision and AutoCAD Drafting. | 26-11-2012 to 31-08-2013 | 278 days |
| 2 | Jorhat Engineering College, Jorhat (Assam) | Govt. | Part-time Lecturer | Theory and Lab Classes, B.E. Project Guidance. | 01-08-2015 to 31-12-2017 | 883 days |
| 3 | Jorhat Engineering College, Jorhat (Assam) | Govt. | Assistant Professor (Contractual) | Theory and Lab Classes, B.E. Project Guidance | 19-08-2020 to 31-07-2021 | 346 days |

Total Years of Work Experience: 1507 days = 4.13 years.

- Besides this, during the period of 2015-20, I have guided four B.E. final year project groups as **Supervisor** and three as **Co-supervisor**. Currently, I am guiding one B.Tech. final year project group as Co-supervisor.
- I was also the **Faculty Advisor** for the team of students from Mechanical Engineering Department of Jorhat Engineering College, Jorhat (Assam) who participated in the Human Powered Motor Vehicle Challenge (**HPVC**) organized by The American Society of Mechanical Engineers (**ASME**) for Asia Pacific region, which was held at the Vellore Institute of Technology (VIT), India in the year 2019. The vehicle, named **DEUKA**, designed by the team (team no. 35) own the **Perseverance award** in that competition.

Certificate Courses Done

| Sl. No. | Name of Course | Course Duration | Certifying Authority | Sponsored by |
|---------|------------------------------------|---|---------------------------------------|----------------------------------|
| 1 | Advance AutoCAD | 29 days (02-07-2012 to 31-07-2012) | Tool Room & Training Centre Guwahati | Self |
| 2 | Advance AutoCAD | 21 days (08-02-2016 to 29-02-2016) | Tool Room & Training Centre Guwahati | AICTE-NEQIP |
| 3 | CAD with Pro-E | 71 days (27-01-2017 to 08-04-2017) | Tool Room & Training Centre Guwahati | Ministry of MSME, Govt. of India |
| 4 | MATLAB Onramp | 14-09-2019 (self-paced online training course) | MathWorks | Free |
| 5 | Swift India Plus | 75 days (27-04-2005 to 19-07-2005) | NIIT Dhubri Centre | Self |
| 6 | Senior Diploma Part-I in Fine Arts | 4 years (1997 to 2001) | Nikhil Bharat Sangeet Samiti, Kolkata | Self |

Workshops Attended

| Sl. No. | Name of Workshop | Duration | Venue | Sponsored by |
|---------|---|--------------------------------------|--|---|
| 1 | Entrepreneurship Awareness Camp | 3 days (19-12-2011 to 21-12-2011) | Sobhasaria Engineering College, Sikar (Rajasthan) | NSTEDB, Deptt. Of Science & Technology, Govt. of India, New Delhi |
| 2 | Faculty Development for Effective Teaching (Pedagogy Training) | 2 days (30-10-2015 to 31-10-2015) | Jorhat Engineering College, Jorhat (Assam) | AICTE-NEQIP |
| 3 | Design Workshop | 1 day (27-10-2016) | Assam Agricultural University, Jorhat (Assam) | Free |
| 4 | Outcome Based Accreditation (New NBA 2015 Format-Tier-III) | 2 days (18-01-2017 to 19-01-2017) | Jorhat Engineering College, Jorhat (Assam) | AICTE-NEQIP |
| 5 | RC Aircraft Design and Fabrication | 2 days (25-02-2017 to 26-02-2017) | Jorhat Engineering College, Jorhat (Assam) | Self |
| 6 | One day Workshop on Electrical Safety Acts, Regulation and its Implementation in Industries | 1 day (23-03-2018) | Electrical Engineering Deptt. Jorhat Engineering College, Jorhat (Assam) | TEQIP-III |
| 7 | Signal Processing, Image Processing, Computer Vision and Applications | 2 days (26-03-2018 to 27-03-2018) | Electrical Engineering Deptt. Jorhat Engineering College, Jorhat (Assam) | TEQIP-III |
| 8 | Foundations of Robotics, Automation and Finite Element Analysis | 4 days (25-04-2018 to 28-04-2018) | Mechanical Engineering Deptt. Jorhat Engineering College, Jorhat (Assam) | TEQIP-III |
| 9 | Characterization of Materials for Renewable And Sustainable Energy | 6 days (04-03-2019 to 09-03-2019) | IIT Indore | TEQIP-III |
| 10 | Lifecycle Reliability of Engineering Systems | 2 days (22-04-2019 to 23-04-2019) | Assam Kaziranga University, Jorhat (Assam) | TEQIP-III |
| 11 | Recent Trends in Renewable Energy Utilization Technologies | 5 days (08-05-2019 to 12-05-2019) | IIT Guwahati | TEQIP-III |
| 12 | Three-day Student's Training Programme on Solid Works (Education Edition 2019-20) | 3 days (12-02-2020 to 14-02-2020) | Mechanical Engineering Deptt. Jorhat Engineering College, Jorhat (Assam) | TEQIP-III |

Software Known:

- Operating System: Windows 7 / 8 / 8.1 / 10
- Microsoft Office – 2007 and onwards (MS Word, MS Excel and MS PowerPoint.)
- CAD Software: AutoCAD version 2005, 2006, 2008, 2010, 2016 ; and Creo version 2.0
- JMP7, RISA 2D

Extra Curricular Activities:

- Secured 2nd position in the Quiz Competition (Group-A), organized by Independence Day Celebration Committee, Dhubri on the occasion of Independence Day on 15-08-2002.
- Rendered service as Volunteer in the 43rd Biennial Conference of Asom Madhyamik Sikshak Aru Karmachari Santha, held at Dhrubri from 22-05-2002 to 25-05-2002.
- Participated in Independence Day Parade on 15-08-2003 at Raja P. C. Baruah Maidan, Dhubri as Student in Uniform.

Personal Details:

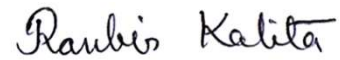
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|-----------------------|--------------------|---------------------------|--|
| Name: | Ranbir Kalita | Marital Status: | Unmarried |
| Date of Birth: | 18-05-1989 | Religion: | Hindu |
| Father's Name: | Mr. Tiken Kalita | Permanent Address: | Chapaguri Road, Near Bongaigaon Junior |
| Mother's Name: | Late Konika Kalita | | College, Bongaigaon – 783380 (Assam) |

DECLARATION

I do hereby declare that the above stated information is true to the best of my knowledge and belief.

Place: Jorhat (Assam)

Date: 16-07-2021



RANBIR KALITA