



# Ankit

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## Objective

Passionate educator with a strong mechanical engineering background seeking to inspire and empower students. Dedicated to creating a positive learning environment that fosters critical thinking, creativity, and personal growth. Committed to tailoring instruction, integrating innovative technologies, and promoting collaboration for student success. Let's inspire a love for learning and equip students with the skills they need to thrive.

## Work experience

### Assistant Professor

GOVERNMENT ENGINEERING COLLEGE (GEC) JHALAWAR, RAJASTHAN

Mechanical Engineering

04 January 2018 - 20 September 2021

### Assistant Professor

GLA UNIVERSITY, MATHURA (U.P.)

Mechanical Engineering

July 2018 - October 2018

## Education

### M.Tech (Industrial and Production Engineering)

NIT KURUKSHETRA

CGPA = 9.03/10

2017

### B.Tech (Mechanical Engineering)

NIT KURUKSHETRA

CGPA = 8.45/10

2014

### Higher Secondary Education

SH PAUL BHARATI HIGH SCHOOL, ROHTAK, HARYANA

Aggregate = 69%

2010

### Secondary Education

APEX PUBLIC SCHOOL, KAHRAWAR, ROHTAK, HARYANA

Aggregate = 78%

2008

## Research project grants

- As the Principal Investigator (PI), I spearheaded a research project titled "Development of Bio-FRP Based Composites for a Low-Cost Mobile Shelter Houses." This project was generously sponsored by NPIU-MHRD, and I successfully secured a grant amounting to ₹1985000. The project aimed to explore and develop innovative composite materials for constructing affordable and durable mobile shelter houses.

## Programs Organized

- Faculty Coordinator for Three-day VIRTUAL COVID CARE PROGRAM on "Post-COVID Rehabilitation with Meditation, Breath & Yoga," organized by GEC Jhalawar from 22nd to 24th June 2021.
- Faculty Coordinator for organizing "Yoga Awareness Quiz" on International Yoga Day, 21st June 2021, for Mechanical Engineering Students at GEC Jhalawar.
- Contributed as Organizing Committee Member for a one-Week STTP on "Design Innovation and Research" from July 16th to 20th, 2019, at GEC Jhalawar.
- Co-Coordinator for AICTE Training and Learning Academy (ATAL) Sponsored One Week Faculty Development Program (FDP) on "3D-PRINTING TECHNOLOGY," organized by GEC Jhalawar from 12th to 16th July 2021.
- Organizing Committee Member in the 5-day workshop on "Advanced CNC Technology" organized Under TEQIP-III, from 04th to 08th August 2020.

- Event Coordinator for organizing a two-week Induction Programme for first-year students from 1st to 15th August 2020.
- Faculty Coordinator for an online Quiz on “Robotics and its Applications” held on 21st June 2020, organized by the Department of Mechanical Engineering, GEC Jhalawar.
- Faculty Coordinator for the National Level Quiz on “Online Aptitude Test” held on 19th June 2020, organized by the Department of Mechanical Engineering, GEC Jhalawar.
- Programme Coordinator for One Week Workshop (Twinning Activity under TEQIP-III in collaboration with National Institute of Technology Karnataka, Surathkal) on “Recent Trends In Design Using Analytical And Computational Approaches” from 10th to 14th February 2020 at GEC Jhalawar.
- Program Coordinator for Internal Hackathon, SIH 2020, held on 29th January 2020 at GEC Jhalawar.
- Event Coordinator for organizing a two-week Induction Programme for first-year students from 1st to 15th August 2019 at GEC Jhalawar.
- Faculty Coordinator for organizing the Social Event titled “Swachha Bharat 2k-19” on 15th April 2019 at GEC Jhalawar.
- Faculty Coordinator for organizing the Technical Fest titled “MECHX 1.0” on 22nd April 2019 at GEC Jhalawar.
- Faculty Coordinator for organizing the Non-Technical Event titled “FIRKI” on 18th March 2019 at GEC Jhalawar.
- Coordinator in TEQIP-III Sponsored Short Training Program on “Fundamentals of Mechanical Engineering and its applications” from Sept. 4th to Sept. 8th, 2018, in GEC Jhalawar.
- Event Coordinator for organizing a two-week Induction Programme for first-year students from 1st to 15th August 2018 in GEC Jhalawar.
- Coordinator in TEQIP-III Sponsored two-week Training Program on “Academic and Skill Development” from July 02 July to 13 July 2018, GEC Jhalawar.

## **Academics related Responsibilities**

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- Co-Coordinator for Academic-related work in the Mechanical Engineering Department at GEC Jhalawar.
- Worked as Co-Coordinator in AICTE-related work at GEC Jhalawar.
- Served as Equity Action Plan (EAP) nodal member for TEQIP-III at GEC Jhalawar.
- Faculty In-charge of Workshop practice lab and Additive Manufacturing Lab at GEC Jhalawar.
- Worked as Co-Advisor for the ROBO Club at GEC Jhalawar.
- Faculty Coordinator and Mentor for students in the Mechanical Engineering Department at GEC Jhalawar.
- Conducted GATE Classes, Remedial, Tutorial classes, Personality Development classes, and Mock interview sessions in the Mechanical Engineering Department at GEC Jhalawar.

## **Responsibilities other than academics**

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- Coordinator for PMKVY (Pradhan Mantri Kaushal Vikas Yojana) for lathe operator course at GEC Jhalawar.
- Committee member for Waste Management under Swachhta Action Plan (SAP) Activities at GEC Jhalawar.
- Procurement committee member for various departmental labs at GEC Jhalawar.
- Procurement committee member for AC Procurement at the Institute level in GEC Jhalawar.
- Committee member for Work related to Water cooler Repairs at the institute level in GEC Jhalawar.
- Committee member for Work related to Taxi empanelment at the institute level in GEC Jhalawar.

## Achievements & Awards

- Awarded for the best paper presentation entitled “Sustainable Natural Bio-Composites and Its Applications” at the International Conference on Evolution in Manufacturing (ICEM – 2020), December 10-12, 2020, organized by the Department of Mechanical Engineering, Malaviya National Institute of Technology Jaipur in association with NIT Uttarakhand & NIT Warangal.
- Contributed as a Speaker in the TEQIP-III Sponsored Short Training Program on “Fundamentals of Mechanical Engineering and its applications” from Sept. 4th to Sept. 8th, 2018, at GEC Jhalawar.
- Contributed as a Speaker in the TEQIP-III Sponsored 2 Weeks training program on “Academic and Skill Development” from July 2nd to July 13, 2018, at GEC Jhalawar.
- Qualified the Graduate Aptitude Test in Engineering (GATE) exam.

## MOOC Modules

### Introduction to Abrasive Machining And Finishing Processes

NPTEL

01 January 2020 - 01 March 2020

### Introduction to Project Management

COURSERA

08 June 2020

### Create Training Videos with Powtoon

COURSERA

10 June 2020

### Introduction to CAD, CAM, and Practical CNC Machining

COURSERA

26 June 2020

### Essentials of Entrepreneurship: Thinking & Action

COURSERA

27 June 2020

### Use Canva to Design Digital Course Collateral

COURSERA

12 July 2020

### Intro to Digital Manufacturing with Autodesk Fusion 360

COURSERA

21 July 2020

## Workshop attended

### Professional Training on 'Pedagogy and Modern Technology Tools'

IEEE RAJASTHAN SUBSECTION, GOVERNMENT WOMEN ENGINEERING COLLEGE, AJMER

15 Days  
06 September 2021 - 21 September 2021

### FDP on 'Foregrounding the Spectrum of Character Building in Modern Human Life'

BALAJI INSTITUTE OF TECHNOLOGY & SCIENCE

09 Days  
25 May 2021 - 03 June 2021

### Faculty Development Programme on Advances in Manufacturing (AIM-2021)

BIT SINDRI, DHANBAD

One Week  
15 May 2021 - 19 May 2021

### Short term course on 'Materials Characterization Techniques'

DEPARTMENT OF MEMS, IIT INDORE

05 Days  
22 March 2021 - 27 March 2021

### AICTE sponsored online Short Term Training Program (STTP) on GUIDANCE AND COUNSELLING

ST. JOSEPH'S COLLEGE OF ENGINEERING AND TECHNOLOGY, PALAI

05 Days  
08 February 2021 - 13 February 2021

### One Week AICTE sponsored Short Term Training Program on 'Design of Experiments in Engineering'

B. V. RAJU INSTITUTE OF TECHNOLOGY

One Week  
04 January 2021 - 09 January 2021

### STC on Advanced Manufacturing Technology

IIT GUWAHATI

One Week  
21 December 2020 - 25 December 2020

### MHRD sponsored TEQIP assisted course on 'Open Source Tools for Online Teaching'

IIT ROORKEE

05 Days  
12 December 2020 - 16 December 2020

### Short Term Course on Micromanufacturing Processes

IIT GUWAHATI

One Week  
30 November 2020 - 04 December 2020

<b>TEQIP-III sponsored online short term course on Computational Methods and Analysis for Engineers</b>	<i>One Week</i>
DR. B. R. AMBEDKAR NATIONAL INSTITUTE OF TECHNOLOGY, JALANDHAR	18 November 2020 - 22 November 2020
<b>Short Term Training Programme through ICT Mode on Hybrid Pedagogy</b>	<i>05 Days</i>
NATIONAL INSTITUTE OF TECHNICAL TEACHERS' TRAINING & RESEARCH (NITTTR), KOLKATA	02 November 2020 - 06 November 2020
<b>TEQIP-III sponsored STTP Program on 'Modern Materials and Manufacturing'</b>	<i>One Week</i>
SARDAR VALLABHBHAI NATIONAL INSTITUTE OF TECHNOLOGY, SURAT	12 October 2020 - 18 October 2020
<b>National Workshop on Outcome Based Education and NBA Accreditation</b>	<i>1 day</i>
CREATES, IISER BHOPAL, UNDER PMMMNMTT SCHEME, MHRD	10 October 2020
<b>STTP on Managerial Skills For Academicians And Administrators</b>	<i>Two Week</i>
NATIONAL INSTITUTE OF TECHNICAL TEACHERS TRAINING & RESEARCH (NITTTR), BHOPAL	05 October 2020 - 16 October 2020
<b>Online Training Programme on Digital tools for Writing, Authoring &amp; Reviewing Manuscripts</b>	<i>Two Week</i>
ELECTRONICS & ICT ACADEMIES, MNIT JAIPUR, NIT PATNA & IIT GUWAHATI	21 September 2020 - 02 October 2020
<b>Online Faculty Development Programme on 'ICT Tools for Teaching, Learning Process and Institute'</b>	<i>Two Week</i>
ELECTRONICS AND ICT ACADEMIES, MINISTRY OF ELECTRONICS AND INFORMATION TECHNOLOGY (MEITY), GOI	10 August 2020 - 21 August 2020
<b>Online Short Term Course on 'Reliability, Maintainability and Quality Issues in Process Industries'</b>	<i>One Week</i>
DR. B. R. AMBEDKAR NATIONAL INSTITUTE OF TECHNOLOGY, JALANDHAR	04 August 2020 - 08 August 2020
<b>AICTE AQIS Sponsored Short Term Training Program on 'Advances in Additive Manufacturing'</b>	<i>05 days</i>
SIEMENS CENTRE OF EXCELLENCE FOR DIGITAL MANUFACTURING AND ROBOTICS UNDER NAFETIC AT YESHWANTRAO CHAVAN COLLEGE OF ENGINEERING, NAGPUR	20 July 2020 - 25 July 2020
<b>Online Short Term Course on 'Essential Tools in Optimization'</b>	<i>05 days</i>
DR. B. R. AMBEDKAR NATIONAL INSTITUTE OF TECHNOLOGY, JALANDHAR, PUNJAB	25 June 2020 - 29 June 2020
<b>A Hands-On Workshop, Online activity of The BodhiTree and SAFE Tools for Effective Online Teaching</b>	<i>One Week</i>
TEACHING LEARNING CENTRE (ICT) AT IIT BOMBAY FUNDED BY THE PANDIT MADAN MOHAN MALAVIYA NATIONAL MISSION ON TEACHERS AND TEACHING (PMMMNMTT), MHRD, GOVT. OF INDIA	18 June 2020 - 24 June 2020
<b>AICTE-ISTE approved STTP on 'E-Learning Tools, Methodologies and Content Management'</b>	<i>One Week</i>
COLLEGE OF ENGINEERING AND TECHNOLOGY, AKOLA	08 June 2020 - 13 June 2020
<b>Indian Knowledge System for effective implementation of Student Induction Programme</b>	<i>05 days</i>
ALL INDIA COUNCIL FOR TECHNICAL EDUCATION (AICTE)	09 May 2020 - 13 May 2020
<b>Short Term Training Program on 'Experimental Measurements, Errors and Uncertainty Analysis'</b>	<i>One Week</i>
GEC JHALAWAR WITH NITK SURATHKAL	10 February 2020 - 14 February 2020
<b>Orientation Workshop for PI on collaborative research scheme</b>	<i>01 day</i>
NPIU IN ASSOCIATION WITH WORLD BANK UNDER TEQIP-III AT AICTE AUDITORIUM, NEW DELHI	16 July 2019
<b>STTP on 'Design Innovation and Research'</b>	<i>One Week</i>
GEC JHALAWAR	16 July 2019 - 20 July 2019
<b>Summer training program on Advanced Pedagogies: Active Learning and Digital Tools</b>	<i>05 days</i>
IIT BOMBAY	03 June 2019 - 07 June 2019
<b>Workshop on 'NBA Accreditation for UG Engineering Programs' at MNIT Jaipur</b>	<i>01 day</i>
SPIU, RAJASTHAN	30 May 2019
<b>STTP on 'Make In India'</b>	<i>05 days</i>
IIT BOMBAY	29 March 2019 - 02 April 2019
<b>Workshop on 'Effective Academic and Research Practices'</b>	<i>2 days</i>
GEC JHALAWAR AND NITK SURATHKAL	12 February 2019 - 13 February 2019

## Training program titled 'Automation and Robotics'

NITTTR, CHANDIGARH

05 days

25 June 2018 - 29 June 2018

## FDP on 'Innovative Techniques in teaching learning paradigm'

GEC JHALAWAR

One Week

09 February 2018 - 12 February 2018

## Faculty Induction Program

IIT GANDHINAGAR

One Week

29 January 2018 - 02 February 2018

## Workshop on 'Research Methodology & Manuscript Writing'

NIT KURUKSHETRA

02 Days

09 April 2016 - 10 April 2016

## Publications

1. Yaknesh, S., Tharwan, M., Saminathan, R., Rajamurugu, N., Prakash, K. B., Ankit, Pasupathi, M. K., Sarojwal, A., & Gebreyohannes, D. T. (2022). Mechanical and microstructural investigation on AZ91B mg alloys with tool tilt variation by friction stir welding. *Advances in Materials Science and Engineering*, 2022, 8311413. <https://doi.org/10.1155/2022/8311413>
2. Saminathan, R., Hadidi, H., Fageehi, Y. A., Manoj Kumar, P., Venkatasudhahar, M., Ankit, Ram, S., & Gebreyohannes, D. T. (2022). Experimental analysis of mechanical and thermal characteristics of luffa/epoxy polymer composite under the influence of nanosilica. *Advances in Materials Science and Engineering*, 2022, 6040629. <https://doi.org/10.1155/2022/6040629>
3. R, R. M., R, V., S, R., P, M. K., Sharma, R., Ankit, Sarojwal, A., & S, R. (2022). Influence of planetary ball mill parameters on powder flowability of AlSi10Mg with niobium carbide using central composite design (CCD). *Advances in Materials Science and Engineering*, 2022, 2869225. <https://doi.org/10.1155/2022/2869225>
4. Math, P., Chandrakar, T. K., Kumar, S., Bhamniya, R. J., Rinawa, M. L., & Ankit. (2023). Experimental and CFD simulation of performance analysis of steam generators of boilers. *Materials Today: Proceedings*, 80, 2964–2968. <https://doi.org/https://doi.org/10.1016/j.matpr.2021.07.084>
5. Rinawa, M. L., Shanmugasundaram, V., Sharma, R., Jain, S. K., Ankit, & Potdar, R. M. (2023). Design, development and performance testing of a novel utility solar cooker with highlighting its significance in current scenario. *Materials Today: Proceedings*, 80, 3351–3357. <https://doi.org/https://doi.org/10.1016/j.matpr.2021.07.252>
6. Rinawa, M. L., Chauhan, P., Sharma, A. K., Singh, H. K., Ankit, Karuna, M. S., & Sudhakar, M. (2022). An investigation on synthesis, aggregation, and mechanical properties of al 6082 nanocomposites reinforced by titanium carbide. *Materials Today: Proceedings*, 59, 1526–1532. <https://doi.org/https://doi.org/10.1016/j.matpr.2022.01.406>
7. Rinawa, M. L., Chauhan, P., Sharma, A. K., Singh, H. K., Ankit, & Karuna, M. S. (2022). Water absorption studies of pineapple leaf fiber/nano rice husk powder reinforced epoxy matrix hybrid composites. *Materials Today: Proceedings*, 59, 1498–1502. <https://doi.org/https://doi.org/10.1016/j.matpr.2022.01.279>
8. Shrivastava, A., Sharma, R., Saxena, M. K., Shanmugasundaram, V., Rinawa, M. L., & Ankit. (2023). Solar energy capacity assessment and performance evaluation of a standalone PV system using PVSYST. *Materials Today: Proceedings*, 80, 3385–3392. <https://doi.org/https://doi.org/10.1016/j.matpr.2021.07.258>
9. Ankit, Sharma, R., Sharma, D. K., Agarwal, R., Rinawa, M. L., Subbiah, R., & Kumar, P. M. (2022). Investigating the effect of nanoclay content on the mechanical characteristics of natural fiber epoxy composite. *Materials Today: Proceedings*, 66, 1319–1323. <https://doi.org/https://doi.org/10.1016/j.matpr.2022.05.139>
10. Ankit, Rinawa, M. L., & Karuna, M. S. (2023). Green manufacturing: Benefits, implementation and challenges. In M. K. Dikshit, A. Soni, & J. P. Davim (Eds.), *Advances in manufacturing engineering* (pp. 403–412). Springer Nature Singapore.
11. Ankit, & Rinawa, M. L. (2021). Sustainable natural bio-composites and its applications. In R. Agrawal, J. K. Jain, V. S. Yadav, V. K. Manupati, & L. Varela (Eds.), *Recent advances in smart manufacturing and materials* (pp. 433–439). Springer Singapore.