



## Department of Mechanical Engineering

### Faculty Profile

#### Dr. Gotkhindikar Nitin Narayan

PhD (Mechanical Engineering)

M-Tech Metallurgical Engineering and Material Science, IIT Roorkee

Assistant Professor

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🔗 <https://scholar.google.com/citations?user=Hfau-8cAAAAJ>

🔗 <https://www.linkedin.com/in/nitin-gotkhindikar-b5825671/>



#### Research Areas / Areas of Interest

Additive Manufacturing, Mechatronics, Industrial Metallurgy

#### Personal Details

**Date of Birth :** 21 / 03 / 1984

**Domicile:** Maharashtra

**Gender :** Male

**Blood Group:** B+ve

**Contact Details:** 2458, B Ward, Sai Niwas, Mangalwar Peth, Kolhapur – 416012

## Academic Background

| S. NO. | Qualification | Specialization                                   | University              | Class/Grade | Year of Passing |
|--------|---------------|--|-------------------------|-------------|-----------------|
| 1      | Ph.D.         | Mechanical Engineering                           | LPU,Punjab              | Distinction | Nov 2024        |
| 2      | M-Tech        | . Metallurgical Engineering and Material Science | IIT Roorkee,Uttarakhand | Distinction | July 2014       |
| 3      | B.E.          | Production Engineering                           | KIT COE,Kolhapur        | Distinction | May 2005        |

## Work Experience

| S. No.       | Type of Experience | Years     | Months   |
|--------------|--------------------|-----------|----------|
| 1            | Teaching           | 9         | 1        |
| 2            | Research           | 00        | 00       |
| 3            | Industry           | 8         | 1        |
| 4.           | Others             | --        | --       |
| <b>Total</b> |                    | <b>17</b> | <b>2</b> |

## Subjects / Courses Taught

| S. No. | Subject                         | UG/PG | Class (FE/SE/TE/BE/ME) | No of times Subject Taught |
|--------|---------------------------------|-------|------------------------|----------------------------|
| 1      | Engineering Graphics-I          | UG    | FE (Mechanical)        | 01                         |
| 2      | Basic Mechanical Engg.          | UG    | FE (Mechanical SW)     | 01                         |
| 3      | Metallurgy and Materail science | UG    | SE (Mechanical)        | 03                         |
| 4      | Material Technology             | UG    | SE (Mechanical)        | 01                         |

|    |                                   |    |                 |    |
|----|-----------------------------------|----|-----------------|----|
| 5  | Machine Design- I                 | UG | TE (Mechanical  | 01 |
| 6  | Metrology & QC                    | UG | TE(Mechanical   | 01 |
| 7. | Mechatronics                      | UG | TE (Mechanical) | 01 |
| 8. | Computer Integrated Manufacturing | UG | BE (Mechanical) | 01 |
| 9. | Industrial Management             | UG | BE (Mechanical) | 01 |

### Research Publications

|                    | National | International | State | SCI/<br>Scopus<br>Indexed | UGC<br>Approved |
|--------------------|----------|---------------|-------|---------------------------|-----------------|
| <b>Journals</b>    | 0        | 12            | 00    | 04                        | 06              |
| <b>Conferences</b> | 02       | 04            |       | 02                        | 04              |

### Publication Details (Journals)

| S. No | Document Details  | Authors                  | Year | Source Details   | ISBN/ISSN | Publisher |
|-------|---|--------------------------|------|--|-----------|-----------|
| 1     | Parametric optimization of fused deposition modelling process using integrated GRA-PCA approach and experimental validation | N N Gotkhindikar, et. al | 2025 | OPSEARCH   | 303887    | Springer  |
| 2     | Optimized deep neural network strategy for best parametric selection in fused deposition modelling                          | N N Gotkhindikar, et. al | 2023 | International Journal on Interactive Design and Manufacturing (IJIDeM) | 19552505  | Springer  |

|    |  |                                   |      |  |                       |         |
|----|--|-----------------------------------|------|--|-----------------------|---------|
| 3  | A Novel FDM Based Additive Manufacturing of PLA Components Using Optimized Deep Learning Strategy  | N N<br>Gotkhindikar               | 2022 | International Journal for Research in Applied Science and Engineering Technology | ISSN: 2321-9653       | IJRASET |
| 4. | Performance Characterization & Multi objective Optimization of Laser Beam Cutting Process on Steel | N N<br>Gotkhindikar               | 2019 | International Journal for Research in Applied Science and Engineering Technology | ISSN: 2321-9653       | IRJET   |
| 5. | Design & Fabrication of  | N N<br>Gotkhindikar               | 2018 | International Journal for  | ISSN [ONLINE] : 2395- | IJSART  |
|    | Combined Accelerator and Brake Pedal   |                                   |      | Science and Advance Research in Technology                                       | 1052                  |         |
| 6. | Optimization Of Laser Beam Cutting Parameters for Mild Steel                                       | N N<br>Gotkhindikar,D<br>B Nigade | 2017 | International Journal Of Science and Research                                    | ISSN : 2319-7064      | IJSR    |
| 7  | Development of Copper Chromium Electrical Contact Materials by Powder Forging                      | N N<br>Gotkhindikar,D<br>B Nigade | 2017 | International Journal Of Science and Research                                    | ISSN : 2319-7064      | IJSR    |

## Publication Details (Conferences)

| S. No | Document Details  | Authors                                 | Year | Conference Details   | ISBN           | Organised by  |
|-------|---|---|------|--|----------------|---------------|
| 1     | A comprehensive study on material and performance characteristics of Fused deposition modelling: current scenario and future research direction | N N Gotkhindikar, Dr.Mahipal            | 2022 | 3rd International Conference on Functional Materials, Manufacturing and Performances (ICFMMP-2022) |                | LPU,Punjab    |
| 2     | Deep Neural Network Model for Better Print Line Connection in Fused Deposition Modelling  | N N Gotkhindikar, Dr.Mahipal            | 2022 | 3rd International Conference on Functional Materials, Manufacturing and Performances (ICFMMP-2022) |                | LPU,Punjab    |
| 3.    | Development of Copper Chromium Electrical Contact Materials by Powder Forging   | N N Gotkhindikar,S B Vanjari,D B Nigade | 2018 | International Journal of Advanced research in science and engineering                              | ISSN 2319-8346 | NMCOE, Sangli |

|    |  |   |      |   |                |               |
|----|--|---|------|---|----------------|---------------|
| 4. | Optimization Of Laser Beam Cutting Parameters for Mild Steel | D B Nigade,<br>N N<br>Gotkhindikar,S<br>B Vanjari | 2018 | International Journal of Advanced research in science and engineering | ISSN 2319-8346 | NMCOE, Sangli |
|----|--|---|------|---|----------------|---------------|

#### PhD / ME / BE Student Guided for Project

| Level                 | Ph.D. | M.E. (PG) | B.E. (UG) |
|-----------------------|-------|-----------|-----------|
| No. of Student guided | -     | -         | 31        |

#### Professional Memberships

| Professional Body | Level ( National/ International) | Type (Fellow/Life/Annual) | Membership No.        |
|-------------------|----------------------------------|---------------------------|-----------------------|
| ISTE              | National                         | Life                      | LM123063              |
| IMPARC            | National                         | Fellow                    | IME-0720-ENG-MH-P5656 |
| SESI              | National                         | Life                      | LM/2564/2021          |

#### Patents / IPR Filed / Granted

| S. No | Investigator Details | Title | Year | Status (Filed/Granted) | Details |
|-------|----------------------|-------|------|------------------------|---------|
| -     | -                    |       |      |                        |         |

#### Books Published

| S. No | Title | Name of the Publisher | ISBN/ISSN Number |
|-------|-------|-----------------------|------------------|
| -     |       |                       |                  |

#### Research Grants Received

| S. No | Program | Duration | Funding Agency | Grant Amount |
|-------|---------|----------|----------------|--------------|
|       |         |          |                |              |

#### Details of Workshop / STTP / FDP / Seminar / Conferences Organized

| S. No | Title  | Type    | Duration   | Level (State/National/ International) | Sponsoring Agency |
|-------|--|---------|------------|---------------------------------------|-------------------|
| 01    | Career opportunities after BE Mech and Gate 2022 | Webinar | 02/12/2021 | State                                 |                   |
| 02    | First Regional Conclave of                       | Confere | 09-10      | National                              | IEEE              |

#### Details of Workshop / STTP / FDP / Conferences Attended

|     |  |         |  |          |   |
|-----|--|---------|--|----------|---|
|     | Western Region for the year 2021-22 , Paper presentation |         | 2021                                       |          |   |
| 01  | National level Quiz on Metallurgy                        | Quiz    | 16 <sup>th</sup> May-18 <sup>th</sup> 2019 | National | - |
| 02. | Seminar on RTO Preparation 2020                          | Seminar | 2 Hrs, 17 <sup>th</sup> Jan 2020           | State    | - |
| 03. | Seminar on Gate 2021 exam preparation                    | Seminar | 2 Hrs, 18 <sup>th</sup> July 2020          | State    | - |

#### Contribution as Resource Person

| S. No. | Place/ Organization                | Topic  | Level(National/Int/ State/Regional) | Date           |
|--------|------------------------------------|--|-------------------------------------|----------------|
| 1      | Bhojane Coaching Classes, Kolhapur | Career Opportunities after 12 <sup>th</sup> Standard | Regional                            | 14 th Jan 2020 |

| S.N | Title  | Type | Duration                      | Organizer                             | Sponsoring Agency |
|-----|--|------|-------------------------------|---------------------------------------|-------------------|
| 1.  | One week FDP on "Training on Industry 4.0  | FDP  | 20-24th July 2022             | COER,Uttarakh and                     |                   |
| 2.  | One week FDP on" ICT Based Teaching and Learning Process"  | FDP  | 1-5th July 2022               | RCP, Roorkee                          |                   |
| 3.  | 5 days Augmented Reality & Virtual Reality   | FDP  | 21/06/2021<br>25-06-2021      | AISSMS COE,                           |                   |
| 4.  | 5 days "Software Based Case Studies for Development of Multidisciplinary Projects"                             | FDP  | 22/11/21-<br>26/11/21         | Pune                                  |                   |
| 5.  | One week STTP "Innovative & Inventive Problem Solving"   | STTP | 13.07.2021-<br>18-07.2021     | AISSMS COE,                           |                   |
| 6.  | 1 week FDP on spoken tutorial technology   | FDP  | (18/05/2020 to<br>22/05/2020) | SKN COE,PUNE                          |                   |
| 7.  | One Week Online Faculty Development Program on "R programming"   | FDP  | (28/04/20 to<br>04/05/20)     | (Spoken tutorial Project), IIT Bombay |                   |
| 8.  | "Advanced Teaching Tools, Techniques and Methodologies for Outcome Based Education"(1/06/19 to 5/06/19)        | FDP  | (1/06/19 to<br>5/06/19)       | AISSMS COE, Pune                      |                   |
| 9.  | 1 week FDP on"Futuristic Technologies in Mechanical Industries"organized by Mechanical Engineering Department, | FDP  | (5/06/19 to<br>9/06/19)       | DYPIEMR, Akurdi                       |                   |



|    |   |      |   |                   |       |
|----|---|------|---|-------------------|-------|
| 10 | FDP Course-Vision Mission PEO PSO PO CO : Framing, Mapping, Assessment and Attainment (ISTE approved ) AISSMSCOE Pune | FDP  | (10/06/19 to 15/06/19)                            | AISSMSCOE Pune    | ISTE  |
| 11 | 1 week FDP AICTE - NITTT - Module 7 Creative Problem Solving , Innovation and Meaningful R & D                        | FDP  | 2 <sup>nd</sup> March to 30 th April              | Swayam            | AICTE |
| 12 | 1 week FDP On Cyber Security & Data Science   | FDP  | (17 <sup>th</sup> June To 22th Nov , 2019)        | AISSMS COE, Pune  | MHRD  |
| 13 | 1 week STTP on Advances in Tribology  | STTP | (4 <sup>th</sup> Nov To 9th Nov , 2019)           | AISSMS COE, Pune  | AICTE |
| 14 | 1 week FDP on Vision-mission ,CO PO ,PEO,PSO Mapping  | FDP  | (10 <sup>th</sup> June To 15th Nov , 2019)        | AISSMS COE, Pune  |       |
| 15 | 1.5 week FDP ON Enginerring Metrology   | FDP  | Jul to Oct 2019                                   | MHRD, NPTEL       | MHRD  |
| 16 | 2 weeks FDP on Problem based learning   | FDP  | 20 <sup>th</sup> May to 2 <sup>nd</sup> June 2019 | NITTTR , Kolkatta |       |

### Major Professional Responsibilities Handled

| S. No. | Role and Responsibilities                     |
|--------|---|
| 1.     | Web Site Coordinator(2020-21,2021-22,2022-23) |
| 2.     | Gate exam Coordinator 2018-19,2021-22,2022-23 |
| 3.     | Newsletter preparation 2021-22,2022-23        |
| 4      | IMechE coordinator 2021-22,2022-23            |

## Awards Received

| <b>S.<br/>No.</b> | <b>Awards</b>   |
|-------------------|---|
| <b>1</b>          | <b>NPTEL Discipline star in Mechanical engineering. (2 Gold, 6 Silver)</b>          |
| <b>1.</b>         | <b>NPTEL Top 1% Candidate Gold Member in Manufacturing Process Technology, CIM.</b> |
| <b>2.</b>         | <b>NPTEL Top 2% Candidate Silver Member</b>   |
| <b>3</b>          | <b>NPTEL Top 2% Candidate Gold Member in Manufacturing Process Technology II</b>    |
| <b>4.</b>         | <b>Gate 2012. AIR 59</b>  |

**Declaration:** I hereby declare that all the statement made above are correct to the best of my knowledge and belief.

**Prof Dr. N N Gotkhindikar**

(Name with Signature)

