CURRICULUM VITAE



UMANATH

Mobile No. (91) 9650579142 ,Email: nathumanath@gmail.com

Career Objective:

To build a career in a challenging and growth-oriented environment where I can effectively apply my technical skills, knowledge, and experience to contribute to the organization's success while continuously enhancing my professional capabilities.

Academic/Technical Educational Qualifications:

- B.Tech (Engineering Technology) – Pursuing from Birla Institute of Technology & Science (BITS), Pilani – Pilani Campus, Rajasthan (BITS ID: 202218ET646).
- Diploma (Regular) in Mechanical Engineering from Government Polytechnic, Gonda, Uttar Pradesh, affiliated to U.P.B.T.E., Lucknow, with 68.36% marks in 2005.
- Completed 10th from Sri Shankar Adarsh Inter College, Jaunpur, Uttar Pradesh, affiliated to U.P. Board, Allahabad, with 48% marks in 2000.
- Completed a three-month Diploma in Computer Applications (D.C.A.) course from Galaxy Micro System, Greater Noida, Uttar Pradesh, with 80% marks in 2010.

Workshops, Seminars, Webinars & Skill Development Programs:

- Two-week **vocational training** at UP State Yarn Company Ltd, Jaunpur, Uttar Pradesh.
- Four-week **vocational training** at Railway Diesel Shed, Gonda, Uttar Pradesh.
- One-day seminar on **Advanced Industrial Engineering** at I.T.S. Engineering College, Greater Noida.
- Coordinator of **Technical Fest/Event SETU NIRMAAN**, organized by Sharda University, Greater Noida.
- Two-day Staff Development Program on **Amity Academic Structure and System** held on 6-7 August 2015 at Amity University, Noida, Uttar Pradesh.
- One-day Staff Development Program on **Personal and Professional Excellence**, held on 30 April 2017 at Amity University, Noida, Uttar Pradesh.
- Five-day Staff Development Program on **Learning, Training, and Development Programme** for Lab Technicians, held from 2-6 July 2018 at Amity University, Noida, Uttar Pradesh.
- Awarded a Certificate of Appreciation for significant contribution as a member of the Organizing Committee in the 1st International Conference on "Future Learning Aspects of Mechanical Engineering (FLAME-2018)" held from 3rd to 5th October 2018 at Amity University, Uttar Pradesh, organized by the Department of Mechanical Engineering.
- Five-day International Workshop on **Recent Advances in Thermal Engineering (IWRATE 2020)**, held from 29 June to 3 July 2020 at BITS Pilani Campus, Rajasthan.

- Participated in the 5th Workshop on **Analytical Instruments** for Chemical and Environmental Engineering, organized by IIChE Pilani Regional Center and Department of Chemical Engineering, BITS Pilani, held from 28 March 2023 to 29 March 2023.
- Participated in an in-person experimental study on "**Indoor Environment and Occupant Comfort**" at BITS Pilani, Pilani campus, conducted from 8 November 2022 to 27 April 2023. The study was a collaborative project between BITS Pilani, IIT Kanpur, and the University of Galway, Ireland.
- Completed 4-week Training Program in **3D Printing (STC)** from Indo-German Tool Room, Ahmedabad (Government of India Society), held from 29 May 2023 to 28 June 2023.
- Completed 8-week Training cum Internship Program in **AutoCAD Draftsman (STC)** Certification Course from MSME Technology Centre, Bhiwadi (Government of India Society), held from 29 June 2023 to 26 July 2023. During the training, I gained expertise in creating and editing objects, working with layers, colors, line types, dimensioning, tolerancing, blocks, attributes, X-ref layouts, plotting, printing, and 3D modeling in AutoCAD software.
- Completed 8-week **Cyber Security Skilling Program 2023** from IIT Kanpur & DST (Government of India), held from 1 June 2023 to 30 July 2023.
- Completed **MATLAB** Training Course **on 25 July 2023**.
- Completed a one-day webinar on **Selection of Cutting Tools**, organized by Indo-German Tool Room, Ahmedabad, a prestigious institution under the Government of India, held in October 2023.
- Completed a 4-week Training Program in **CNC Programming-Lathe (STC)** from Indo-German Tool Room, Ahmedabad (Government of India Society), held from 26 October 2023 to 23 November 2023.
- Completed a one-day **Hydraulics and Pneumatics** webinar organized by Indo-German Tool Room, Ahmedabad, a prestigious institution under the Government of India, held on 23 December 2023.
- Completed a one-day webinar on **Plastic Injection Moulding**, organized by Indo-German Tool Room, Ahmedabad, a prestigious institution under the Government of India, held on 16 March 2024.
- Completed a one-day webinar on Geometric **Dimensioning and Tolerancing**, organized by Indo-German Tool Room, Ahmedabad, a prestigious institution under the Government of India, held on 28 March 2024.
- Completed a 4-week Training Program in **CATIA (STC)** from Indo-German Tool Room, Ahmedabad (Government of India Society), held from 20 May 2024 to 18 June 2024.
- Completed a one-day webinar on **Mastercam**, organized by Indo-German Tool Room, Ahmedabad, a prestigious institution under the Government of India, held on 15 June 2024.
- Completed a one-day **ANSYS** webinar organized by Indo-German Tool Room, Ahmedabad, a prestigious institution under the Government of India, held on 10 August 2024
- Participated in the 3rd International Workshop on **Green Energy and Sustainable Development (GESD 2024)**, organized by the Department of Mechanical Engineering, BITS Pilani, Pilani campus, Rajasthan, held from 26 September 2024 to 28 September 2024.
- Completed a 4-week Training Program in **CNC Programming-Milling (STC)** from Indo-German Tool Room, Ahmedabad (Government of India Society), held from 21 October 2024 to 21 November 2024
- Participated in the 'Innovation Series' webinar titled 'Connecting Dots: Research to Commercialization' organized by BITS-Technology Enabling Centre on 21st December 2024, gaining insights into transforming research outcomes into market-ready solutions
- Completed a 4-week Training Program in **STC- ANSYS** from Indo-German Tool Room, Ahmedabad (Government of India Society), held from 03 February 2025 to 01 March 2025.
- Actively participated in the “Innovation Series” webinar on Academic and Industrial Aspects of Cell Therapy, organized by the BITS-Technology Enabling Centre on 11 July 2025, enhancing knowledge in advanced biomedical innovations.
- Completed a 4-week Training Program in **STC- SOLIDWORKS** from Indo-German Tool Room, Ahmedabad (Government of India Society), held from 25 March 2025 to 25 April 2025.

- Actively participated in the "Innovation Series: Beyond the Thesis – 3 Webinar Series" on Visual Storytelling, Entrepreneurship & Grant Writing, organized by the BITS-Technology Enabling Centre ON 22 August 2025.
- Completed a 4-week Training Program in **STC- AUTOCAD** from Indo-German Tool Room, Ahmedabad (Government of India Society), held from 17 July 2025 to 19 August 2025.
- Participated in the Two-Day Workshop on "Interfacial Fluid Dynamics and Heat Transfer" held on 17–18 January 2026 at BITS Pilani, organized by the Multiscale Multiphysics Thermofluids Lab (MMT LAB) under the Department of Mechanical Engineering.
- Participated in the 2-Days International Workshop on "Next Generation Solar Desalination and Energy Storage Systems" held on 22–23 January 2026 at BITS Pilani, organized by the Department of Mechanical Engineering in collaboration with SPARC.
- Participated in the One-Day Workshop on "Next-Generation Refrigeration Solutions: Safe Handling and Servicing of R290 Systems" held on 28 April 2026 at BITS Pilani, organized by The Smart Building Lab, Department of Mechanical Engineering, under the support of the INDEE3 Indo-Norwegian Project.
- Completed a 4-week Training Program in **STC- UNIGRAPHICS** from Indo-German Tool Room, Ahmedabad (Government of India Society), held from 20 November 2025 to 18 December 2025.

Working Experience:

- Presently working at ***BIRLA INSTITUTE OF TECHNOLOGY & SCIENCE***, Pilani (BITS Pilani), Rajasthan campus, as a Sr. Technician since 01-10-2019 to till date.
- Worked at ***AMITY UNIVERSITY***, Noida, as a Lab Instructor from 11-03-2015 to 26-09-2019.
- Worked at ***SHARDA UNIVERSITY***, Greater Noida, as a Technical Assistant from 05-01-2012 to 11-07-2014.
- Worked at ***GNIT GIRLS INSTITUTE OF TECHNOLOGY***, Greater Noida, as a Workshop Assistant from 21-08-2008 to 08-03-2011.

Job Responsibility:

Practical Classes Responsibilities

- Demonstrates the effective operation and handling of laboratory equipment related to Heat Transfer, Applied Thermodynamics, Refrigeration and Air Conditioning, Hydraulic Machines, Fluid Mechanics, IC Engines, and Transport Phenomena in manufacturing to students.
- Clearly explains experiment procedures and the correct method for taking readings, contributing to better student understanding and performance.
- Efficiently arranges equipment and instruments for experiments as per faculty in-charge instructions, ensuring timely readiness for practical classes.
- Preparation of lab manuals as per the instructions of the faculty in charge.
- Issues instruments to students following proper procedures and obtains acknowledgments, maintaining accountability and discipline.
- Performs routine maintenance and inspection of all laboratory apparatus to ensure optimal performance and minimize equipment downtime.
- Receives instruments after use, inspects for damage or malfunction, and promptly reports issues to the concerned faculty member.
- Ensures all instruments are properly cleaned and electrical connections are safely disconnected after each lab session.
- Ensures strict adherence to safety protocols and standard operating procedures during lab operations to prevent accidents or equipment damage.
- Maintains cleanliness, orderliness, and readiness of lab equipment before and after practical sessions.
- Reports faults or malfunctioning equipment promptly to the lab in-charge for timely corrective action.

- Provides constant supervision when handling hazardous, heavy, or powered equipment to ensure safety and prevent accidents.
- Assisted in scheduling and conducting laboratory examinations, ensuring the safe custody of question papers and answer sheets, arranging examination logistics as per prescribed procedures, and supporting the faculty in charge with the preparation and declaration of results
- Maintain an up-to-date stock register for consumable and non-consumable items.
- Maintains and displays charts and educational materials in the lab as per faculty instructions, enhancing the learning environment.
- Provides immediate first aid in case of any student injury during lab sessions, showing preparedness and concern for student safety.
- Calibrated measuring devices and machines under the instruction of the faculty in charge, and coordinated with external agencies for calibration when required.

Assistance to Equipment-Related Research Work Responsibilities:

- Assisting research scholars with the installation, maintenance, demonstration, and fabrication of their experimental research setups
- Assisting faculty members in testing components, materials, and other items received from external agencies, and facilitating their certification.
- Helping project students, with the approval of the project guide and laboratory in-charge/HOD, in fabricating or assembling experimental setups or developing gadgets using laboratory facilities.

Bills Processing, Finance, Stores, and Purchasing Responsibilities:

- Assisted in forecasting and submitting budget details for both consumable and non-consumable items for the laboratory.
- Verified bills, recorded ledger entries in the stock ledger, and forwarded bills to the accounts department for further processing.
- Ensured proper documentation and obtained necessary approvals for payments.
- Recorded financial transactions accurately in the accounting system.
- Assisted in obtaining administrative approvals for the purchase of items, equipment, and spares from the appropriate authorities.
- Raised demand forms to the administrative department to request quotations from various suppliers and manufacturers.
- Prepared comparative statements of received quotations, verifying accuracy and completeness, and presented them to the purchase committee for evaluation and decision-making.
- Supported faculty in testing the functionality of newly received equipment, assisted in installation, and documented sample observations for future reference.
- Coordinated with vendors' technical staff for maintenance and defect resolution of systems under warranty or maintenance contracts.
- Reported unserviceable items to the faculty in charge or HOD and assisted in initiating disposal procedures.

Additional Job Responsibility:

- Prepared various data related to equipment and software purchases, events, conferences (national and international), guest faculty lectures, and paper presentations for the department, NAAC, UGC, and the Institutional Knowledge and Analysis (IKA) Cell.
- Assisted departments during student registration, tests and examinations, seminars, workshops, and interviews for both undergraduate and higher degree students, as well as in organizing departmental meetings, conferences, workshops, and other events.
- Performed Admission Cell duties, including document verification for undergraduate and higher degree program students.
- Handled routine maintenance and maintained an up-to-date stock register for consumable and non-consumable items related to laboratory equipment in the Tinkerers Lab and CREED Lab, while ensuring adherence to safety protocols.
- Executed duties for the Young Entrepreneurs' Boot Camp (YEB) at BITS Pilani, on boarding, networking, engagement, and post-event analysis.

Software skills:

- **Microsoft Office Suite** (Word, Excel, PowerPoint, Teams).
- **Google Workspace** (Docs, Sheets, Slides, Gmail)
- **Email Management** (Outlook, Gmail, etc.)
- **AutoCAD** (for design and drafting)
- **SolidWorks** (for designing, simulating, and analyzing products)
- **CATIA** (for product design and development)
- **ANSYS** (for simulation and analysis)
- **MATLAB** (for mathematical and technical computing)
- **Lab VIEW** (for system design and automation)
- **SmartWeld** (welding management software)
- **FlexSim** (3D simulation software for optimizing systems in manufacturing, logistics, healthcare)
- **Multisim** (Circuit simulation software for designing and testing electronic circuits)
- **Autodesk Fusion** (used for 3D modeling, simulation, CAM, collaboration, 3D printing, and PLM)
- **Flownex** (simulation to model and analyze fluid and thermal systems)
- **Jmp (**software for statistical analysis, data visualization, and experimental design)

Personal Details:

Corresponding Address: Umanath, Quarter No.285/1 Rana Pratap Marg BITS Pilani Campus Vidya Vihar Pilani Rajasthan-333031.
Permanent Address: Umanath, Village-Mangarawa, Post-Baghandra, Tahseel- Sadar Thana-Gaurabadshahpur District-Jaunpur UP-222133.
Date of Birth: 09-06-1984.
Father's Name: Late Shri Beerbal.
Mother Name: Smt. Gulabi Devi.
Languages Known: Hindi, English.
Hobbies: Reading Book. Lisning music, Playing Cricket.
Notice Period: One Month.
Current Salary:
Expected Salary:

Declaration:

I hereby declare that the information provided above is true and correct to the best of my knowledge and belief. I take full responsibility for the accuracy of the particulars mentioned.

Place: BITS Pilani (Rajasthan) (**UMANATH**)