# डा बी आर अम्बेडकर राष्ट्रीय प्रौद्योगिकी संस्थान, जालन्धर
## Dr B R AMBEDKAR NATIONAL INSTITUTE OF TECHNOLOGY, JALANDHAR
### जी टी रोड बाई पास, जालन्धर – १४४००८ (पंजाब)
### G T ROAD BYE PASS, JALANDHAR – 144 008 (PUNJAB)

## संकाय भर्ती अधिसूचना
## FACULTY RECRUITMENT NOTIFICATION

**Date of opening of link for online application:18-10-2024**
**Last date of submitting online application: 18-11-2024**
**Last date of submission of hard copy of application:28-11-2024**

Applications are invited on the prescribed format for the recruitment of faculty at the level of Assistant Professors, Associate Professors and Professors in various Departments as under:

| Sr. No | Name of the Post | Total No. of posts | Reservation in vacancies | Advertisement No. For: | |
|---|---|---|---|---|---|
| | | | | Dept. | Advt. No. |
| 1. | Assistant Professor Grade-II (Pay Level 10) | 69 | UR- 33, EWS-04, OBC- 17,SC-10, ST-05 | BT | 84/2024 |
| | | | | CE | 85/2024 |
| | | | | CH | 86/2024 |
| | | | | CS | 87/2024 |
| | | | | IT | 88/2024 |
| | | | | EC | 89/2024 |
| | | | | IC | 90/2024 |
| | | | | EE | 91/2024 |
| | | | | IP | 92/2024 |
| | | | | ME | 93/2024 |
| | | | | TT | 94/2024 |
| | | | | PH | 95/2024 |
| | | | | CY | 96/2024 |
| | | | | MC | 97/2024 |
| | | | | HM | 98/2024 |
| 2. | Assistant Professor Grade-I (Pay Level 12) | 26 | UR-12, EWS-02, OBC-05, SC-04, ST-03 | BT | 99/2024 |
| | | | | CE | 100/2024 |
| | | | | CH | 101/2024 |
| | | | | CS | 102/2024 |
| | | | | IT | 103/2024 |
| | | | | EC | 104/2024 |
| | | | | IC | 105/2024 |
| | | | | EE | 106/2024 |
| | | | | IP | 107/2024 |

| | | | | ME | 108/2024 |
|---|---|---|---|---|---|
| | | | | TT | 109/2024 |
| | | | | PH | 110/2024 |
| | | | | CY | 111/2024 |
| | | | | MC | 112/2024 |
| | | | | HM | 113/2024 |
| 3. | Associate Professor (Pay Level 13A2) # | 31 | UR-13#, EWS - 05, OBC-09, SC-01, ST-03# | BT | 114/2024 |
| | | | | CE | 115/2024 |
| | | | | CH | 116/2024 |
| | | | | CS | 117/2024 |
| | | | | IT | 118/2024 |
| | | | | EC | 119/2024 |
| | | | | IC | 120/2024 |
| | | | | EE | 121/2024 |
| | | | | IP | 122/2024 |
| | | | | ME | 123/2024 |
| | | | | TT | 124/2024 |
| | | | | PH | 125/2024 |
| | | | | CY | 126/2024 |
| | | | | MC | 127/2024 |
| | | | | HM | 128/2024 |
| 4. | Professor (Pay Level 14A) | 06 | UR-03*, EWS-01*, OBC-01, SC-01* | BT | 129/2024 |
| | | | | CE | 130/2024 |
| | | | | CH | 131/2024 |
| | | | | CS | 132/2024 |
| | | | | IT | 133/2024 |
| | | | | EC | 134/2024 |
| | | | | IC | 135/2024 |
| | | | | EE | 136/2024 |
| | | | | IP | 137/2024 |
| | | | | ME | 138/2024 |
| | | | | TT | 139/2024 |
| | | | | PH | 140/2024 |
| | | | | CY | 141/2024 |
| | | | | MC | 142/2024 |
| | | | | HM | 143/2024 |

*BT-Biotechnology, CH-Chemical Engineering, CE- Civil Engineering, CS- Computer Science & Engineering, IT- Information Technology, EC- Electronics & Communication Engineering, IC- Instrumentation & Control Engineering, EE- Electrical Engineering, IP-Industrial & Production Engineering, ME- Mechanical Engineering, TT- Textile Technology, PH- Physics, CY- Chemistry, MC- Mathematics & Computing, HM-Humanities & Management.*

*\*Already advertised (Advt Nos 46/2024-60/2024). As the application form has changed, the candidates already applied against these advertisements need to apply again.*

*# The above vacancies include earlier advertised vacancies (Advt Nos 31/2024-45/2024). As the application form has changed, candidates already applied against these advertisements need to apply again.*

Reservation to PwBD (OH) will be as per Government of India rule. Out of above vacancies, SC-02, ST-04 and OBC- 04 are backlog vacancies.

For the purpose of reservation of posts, as per The Gazette of India, No. 29, The CEI (Reservation in Teachers' Cadre) Act 2019, dated 9th July 2019, The Gazette of India, No 2289, dated 12th July 2019, and further direction of Ministry of Education vide Notification No F.No. 33-3/2018-TS.III dated 5th Nov 2019, the Institution has been treated as one unit.

The candidates who have applied against the previous rolling advertisements (Advertisement No. 1/2024-60/2024) the departments where interviews could not be held need to apply again.

**Essential Qualifications:**

1) **Engineering Department**: UG and PG degrees in engineering with PhD in relevant branch/discipline of engineering

<div align="center">or</div>

Integrated UG and PG in engineering, and PhD in relevant branch/discipline of engineering

<div align="center">or</div>

UG in engineering, and integrated PG and PhD in relevant branch/discipline of engineering.

For the Candidates having PhD. degree in engineering directly after graduation (B E/B Tech etc.), the candidates should have either B. E / B. Tech or Ph D from CFTI. Those candidates will also be considered provided they fulfil other norms.

2) **Physics / Chemistry**: PhD with BSc (3 years/4 years) and MSc (in appropriate branch) or Integrated MSc with PhD in appropriate branch.

3) **Mathematics & Computing:** B. Tech. / M. Tech. in Computer Science / Information Technology / Data Science / Mathematics and Computing

<div align="center">or</div>

Integrated M. Sc. / M. Tech. in Computer Science / Data Science / Statistics

<div align="center">or</div>

B. Sc. and M. Sc. in Computer Science / Data Science / Statistics

<div align="center">and</div>

Ph. D. in relevant fields mentioned above.

4) **Management**: PhD in Management with any Bachelor's degree (3/4 years) and MBA or equivalent Master's degree in Management or equivalent PGDM (2 years) as per Association of Indian Universities, or PhD in Management with integrated Master's degree in Management.

5) **Humanities:** PhD in Humanities with any bachelor's degree (3/4 years) and master's degree in appropriate branch of Humanities or PhD in Humanities with integrated master's degree in appropriate branch of Humanities.

All new entrants should have PhD in the relevant or equivalent discipline and should have first class in preceding degrees. New entrant means a candidate who is not an existing faculty member of Dr B R Ambedkar NIT Jalandhar.

For all the above, one of the degrees at UG / PG / PhD level must have been obtained from CFTIs / Central and State Government Universities or Institutions or University / Institution listed amongst top 100 NIRF ranking of MoE, anytime for any two years.

In case the degree is not covered above and the degree is obtained from any foreign Institution, the Institute should have once remained within QS / Times Higher Education (THE) ranking of 500.

Detailed educational qualification, experience, and other criteria for selection to faculty positions shall be as per Schedule "E" of the First Statutes of the NIT (Amendment Statutes, 2017) (Ref. Gazette of India dated July, 24, 2017 and June 7, 2023). The Link for the same is available at http://www.nitj.ac.in. Areas of specialization in various departments are available in this Advertisement as **Annexure-1.**

- In case first class is not mentioned in the preceding degrees by the University/ Institution, then the candidates should have passed and secured at least 6.5 CGPA (on a 10-point scale) or 60% marks in aggregate irrespective of the category of the candidate.

- Conversion from CGPA to percentage or vice versa given by individual Institute/University will not be considered / allowed for determination of eligibility.

- In case, the candidate has passed and secured CGPA under any other point scale (other than 10-point scale), then the certificate issued by the authorized signatory (not the Mentor/Supervisor/Head of the Department) of the Institute/University to the effect of having secured first class in such degree must be attached. Alternately, the CGPA may be equivalently converted on 10-point scale for determination of eligibility.

- The above mentioned CGPA/Percentage/Degree should be awarded by a recognized University/Institute (having the authority to confer/award of such degree).

- Candidates having PhD degree directly after B Tech will also be considered for the post, if they fulfill other criteria.

**Experience:**

Experience (including prior to implementation of NIRF) shall be considered if acquired in any of the following Institutions:

I.   Fully funded Central Educational Institutions.

II.  IIMs and other Management Institutions ranked by NIRF up to 50 for any two years.

III. State Educational Institutions funded by respective State Government.

IV.  Other Educational Institutions ranked by NIRF up to 100 in overall, in Universities or

     Engineering Institutions category for any two years. In case the Institution in which the candidate is working/has worked does not fulfill the NIRF criteria, the NIRF ranking of the University to which the Institution is/was affiliated shall be considered.

V.   Experience in overseas Institutes/Universities where the QS / THE ranking is upto 500 anytime preceding the date of advertisement will be considered.

VI.  Experience as a Post-Doctoral fellow (PDF) will be considered for the appointment to the post of Assistant Professor up to Pay Level 12.

**Age Limit:**

Fresh appointment beyond the age of 60 years is discouraged except in the case of faculty with exceptionally brilliant research/academic career and with ongoing or approved externally funded research project(s).

**LAST DATE OF SUBMISSION OF ONLINE APPLICATIONS IS 18-11-2024.**

Online applications may be uploaded till 12.00 midnight on 18-11- 2024, the link for the same will be activated on the Institute website www.nitj.ac.in by 18-10-2024, 2024. The candidates need to apply online and also submit a hard copy of the application. The hard copy of the online submitted application along with all prescribed supporting self-attested documents must reach the office of the **REGISTRAR, Dr B R AMBEDKAR NATIONAL INSTITUTE OF TECHNOLOGY, PO-REC CAMPUS, JALANDHAR, PUNJAB. PIN-144008 BY 28-11-2024, (Till 5.00 PM).** The overseas candidates are exempted from submission of hard copy. However, they are required to send all the supporting documents in a single pdf file by email at **recruitmentfaculty2024@gmail.com** and **dfw@nitj.ac.in** on or before the last date of submission of hard copies failing which the candidature will not be considered.

This advertisement is a rolling advertisement. The prospective applicants can submit applications after the last date of this advertisement for next round of recruitment. **Please note that submission of both online application & hard copy of the same is required.** It may also be noted that no application fee will be charged for the candidates applying against rolling advertisement. The Institute portal shall remain open. The hard copy must contain all the self- attested supporting documents. The date and time for conducting the interviews will be decided by the Institute and will be made available on the Institute website.

All pages of the hardcopy of the application with supporting documents must be numbered and an index should be provided in the application (hardcopy) with the mention of the appropriate document with the page number. Candidature will only be considered on receipt of both online as well as a hard copy of the application by the due dates, failing which it will be rejected. The envelope containing the application should be super-scribed as:

**APPLICATION FOR THE POST OF (name of the post applied for) ..........,**

**ADVT NO.....................**

**DEPARTMENT OF (Name of the Department where the candidate has applied) ............**

Note 1: As per the Central Educational Institutions (Reservation in Teachers' Cadre) Act, 2019, which shall be deemed to have come into force on the 7th day of March 2019, reservation of posts is applicable in appointments by direct

recruitment of persons belonging to the scheduled castes, the scheduled tribes, the socially and educationally backward classes and the economically weaker sections to teachers' cadre in certain Central Educational Institutions established, maintained or aided by the Central Government and for matters connected therewith or incidental thereto. Further, reservation to PWD (OH) will be as per Government of India rules. As per MHRD notifications No. F.No.33-3/2018-TS.III, dated 5th Nov. 2019, for the purpose of reservation of posts, Institution has been taken as one unit. The number of vacancies in all or any of the categories (including reserved vacancies) may be increased/decreased without any notification.

Note 2: The Institute reserves the right to modify/defer or cancel the advertisement at any stage of processing without assigning any reason.

Note 3: The date of birth mentioned in the online application shall be treated as final. The candidates must attach the relevant document as proof of age with the application.

Note 4: Existing faculty members of NIT Jalandhar are required to apply using only Institute email ID for registering on the portal.

Note 5: Instructions from MHRD/MoE issued till the date of interviews shall be applicable. For the departments of NIT Jalandhar not having any vacancy at any higher Pay Level, movement of faculty to higher Pay Level shall be carried out as per prescribed selection process but it will be restricted to only serving faculty members of NIT Jalandhar in the respective Departments [As prescribed in note 1, Point no. 5 of Schedule "E" of NIT Statutes (Amended 2017) (Ref. Gazette of India No. 651, dated July 24, 2017)].

Note 6: The Research experience in any of the R & D laboratories under CSIR, DRDO, DAE, DBT, DST, DSIR, ISRO, MOCIT, MOEF, MNRE, MOP, MOWR, NPL etc. will be considered.

Industrial experience in any PSU, Autonomous Organization and Private Industries having annual turnover more than Rs. 500 Crore will be considered.

**General Instructions:**

1. All qualifications, experiences and other criteria will be considered as on or before the closing date of online application forms.

2. Areas of specializations are available in **Annexure-I** while the Credit Point System is available in the Gazette of India No. 651, dated July 24, 2017 and is given in **Annexure II**. The candidates for the specific department should have an 'area of specialization' in the given areas only, as mentioned in the **Annexure I**. The claim of area of specialization should be supported and

validated by his/her M Tech and / or PhD thesis, publications and research output in SCI journals.

3. The internal serving faculty is required to apply for movement in higher academic grade pay/pay level irrespective of any vacancy in the respective department. Further, there shall be no constraint related to specialization for the existing faculty of NIT, Jalandhar.

4. The application form is online and will not be supplied on postal request.

5. All degrees mentioned in the application should be awarded by an Institute/University recognized by the Government/other Statutory Bodies having the authority to confer/award of such degrees.

6. As an Institute of National Importance, NIT Jalandhar strives to have a workforce which reflects an all-India character and hence candidates from all over the country are encouraged to apply.

7. The candidates who have obtained PhD from NIT Jalandhar shall not be eligible for applying for faculty positions in response to this advertisement for a period of 3 years from the date of acquiring the PhD in order to avoid inbreeding.

8. Persons serving in Govt. / Semi Govt. / PSUs / Universities / Educational Institutions should send their applications either **THROUGH PROPER CHANNEL** or should furnish a **NO OBJECTION CERTIFICATE** from the Competent Authority of the organization serving, at the time of interview. They can, however, send an advance copy of the application, if the application through proper channel is expected to reach late. The in-service faculty members of NIT, Jalandhar shall send their application through their Head of the Department only and as such no NOC from the Institute is required.

9. As the format of the application has changed, all the candidates, including those who applied earlier against the advertisement no. 1/2024 to 60/2024, need to apply afresh as per the specializations mentioned in **Annexure-I.**

10. It may be noted that a candidate's application only in soft copy will not be entertained and will be rejected summarily if the hard copy of the application form along with other requisite self-attested photocopies of the relevant documents are not received at the Institute by the due date.

    The overseas candidates are though exempted from submission of hard copy but, they are required to send all the supporting documents in a single pdf file by email at **recruitmentfaculty2024@gmail.com** and **dfw@nitj.ac.in** on or before the last date of submission of hard copies i.e. by 28-11-2024 for the consideration of their application.

The candidates who have completed at least one year of their post-doctoral experience from any university/Institution falling within QS/THE rank of 500, will necessarily be called for presentation and interview subject to fulfillment of other eligibility conditions.

11. Only hard copy (except in the case of overseas candidates) of applications received on or before the published closing date for receiving the prescribed format of the hard copy will be considered for scrutiny and selection process.

12. Original documents along with one set of self-attested copies will have to be produced at the time of the interview for verification.

13. Mere fulfilment of minimum qualification and experience requirements does not entitle any candidate to be called for the interview. The department may have shortlisting criteria higher than the minimum to restrict the number of candidates to be called for interview. Depending on the availability of qualified candidates, different departments may set different short-listing criteria. Further, the same department may also set different short-listing criteria for different specializations and post. It may also be possible to call all the eligible candidates for presentation and subsequently called for interview in case of successful presentation only. The number of candidates to be called for interview shall be decided by the Institute.

14. The Institute has the right to set higher norms than the minimum and areas of specialization while short listing, taking into account the specific requirements of the individual departments. The short listing norms may not be uniform across all the departments of the Institute and shall be binding on the applicants. The decision of the Institute related to all matters pertaining to the recruitment shall be final and binding on the applicants.

15. The Institute reserves the right to call all the eligible candidates or a few shortlisted candidates for presentation after screening by the Institute by the process mentioned earlier in point 14.

16. The Institute also reserves the right to defer or cancel the selection process without assigning any reason thereof. The decision of the Institute in this regard will be final and binding on all the applicants who respond to this advertisement. No interim communication on the status of the application will be entertained.

17. Apart from merit, the specialization of a candidate within a department will play a vital role in selection. The candidate with a specialization in greater need by the department may be given preference. The candidates with studentship or work experience in CFTIs/reputed Universities/Institutions or industries or with greater relevance to the academic programmes of the department may be given preference.

18. Experienced and/or meritorious candidates may be granted higher starting pay on the recommendation of the Selection Committee.

19. Selected candidates for regular positions will be placed under probation and be regularized subject to the satisfactory completion of the probation and other requirements as per Institute rules.

20. Canvassing in any manner would entail disqualification of the candidature.

21. All the applicants will be notified about their shortlisting/non-shortlisting status.

22. The short listed candidates shall be required to appear for presentation in the respective department. Depending on the performance in the presentation the candidate may be recommended to appear before the selection committee. No TA/DA will be paid for attending presentation/interview.

23. Number and nature of post shown above may change and vary at the time of selection/recruitment. Further, the Institute reserves the right not to fill any post(s) as well.

24. The Institute shall retain completed online applications data for non-shortlisted candidates only for three months after completion of recruitment process.

25. Candidates who wish to apply for more than one department should apply separately for each post in the prescribed manner and separate application must be submitted for each post. Even if a candidate wishes to apply for more than one post or pay level within a department, he/she needs to apply separately for each post/pay level.

26. Pay fixation/protection may be given as per Government of India rule.

27. The applicant will be responsible for the authenticity of submitted information, other documents and photograph. Furnishing of any false information and/or suppression/concealment of facts shall lead to rejection/cancellation of selection/appointment at any stage.

28. If the claimed credit points by the applicant are found to be grossly inappropriate and /or without relevant supporting documents, NIT Jalandhar reserves the right to summarily reject the candidature of the applicant.

29. Candidates in India, if invited, have to appear personally in the interview, while those studying/serving abroad may be interviewed by audio cum video link. If an overseas candidate wishes to be interviewed by audio cum video link, a request from the candidate should be sent to the Institute at **recruitmentfaculty2024@gmail.com** and **dfw@nitj.ac.in** giving all details

for communication. The Institute does not guarantee consistent connectivity and hence the candidate will appear through this media at his/her own responsibility. The Institute will not take any responsibility for connectivity.

30. Applications which are not in the prescribed form/without relevant supporting enclosures will be rejected. No correspondence shall be entertained in this regard.

31. The decision of the Institute in all matters will be final. No correspondence/ interim inquiries will be entertained from the candidates in connection with the process of selection/interview including reasons for not being called for presentation/interview. Any dispute with regard to the selection/ recruitment process will be subject to Courts/Tribunals having jurisdiction over Jalandhar.

32. For SC/ST (Schedule Caste/Schedule Tribes) Candidates: Reservation of vacancies for SC/ST category will be as per Government of India directives. Candidates belonging to SC/ST category shall have to submit the self-attested copy of caste certificate **(Annexure-III)** issued by the competent authority at the time of document verification.

33. For OBC-NCL (Other Backward Class – Non Creamy Layer) Candidates: Other Backward Classes (OBC-NCL) candidates in particular shall ensure that they possess the OBC-NCL certificate in the prescribed format (issued on or after 1st April 2024) as given in **Annexure-IV.**

    The candidates applying against vacancies reserved for OBC-NCL should note that they have to produce a valid caste certificate at the time of document verification in support of their belonging to OBC-NCL community as per rule of Govt. of India as issued by the competent authority in the prescribed format for this purpose so as to prove that they do not belong to "Creamy Layer" of the OBC. Further, the caste to which the candidate belongs should be the one included in the Central list of OBC-NCL issued by the Government of India. A declaration shall also be submitted by the candidate before his/her appointment that he/she does not belong to the Creamy Layer of OBC. The income limit is decided on the basis of income earned during three previous financial years preceding the year of appointment.

34. For EWS (Economically Weaker Section) Candidates: Candidates who are not covered under the scheme of reservation for SC/ST/OBCNCL and whose family gross annual income is below Rs. 8.00 Lakh (Rupees Eight Lakhs only) are to be identified as EWS for benefit of reservation for EWS. The income shall also include income from all sources i.e. salary, agriculture, business, profession etc. for the financial year prior to the year of application. The income of the financial year 2023-2024 will only be considered (issued on or after 1st April 2024). Also, candidates whose family owns or possesses any of

the following assets shall be excluded from being identified as EWS, irrespective of family income:

a. 5 acres of agricultural land and above;
b. Residential flat of 1000 sq. ft. and above;
c. Residential plot of 100 sq. yards and above in notified municipalities;
d. Residential plot of 200 sq. yards and above in areas other than the notified municipalities.

The candidates applying against the vacancies reserved for EWS must produce valid Income and Asset Certificate issued by Competent Authority as per **Annexure-V**. In case of non-compliance to these stipulations, their claim for reserved status under EWS will not be entertained and the candidature/application of such candidates, if fulfilling all the eligibility conditions for General (UR) Category, will be considered under General (UR) vacancies only.

35. For PwBD (OH) (Persons with benchmark disability) Candidates:

The Persons with Benchmark Disability (PwBD) shall be required to submit the medical certificate in the prescribed form issued by the competent medical authorities for the purpose of employment as per Govt. of India norms along with their applications. Persons suffering from not less than 40% of the disability shall only be eligible for the benefit of reservation. A person, who wants to avail the benefit of relaxation will have to submit a Disability Certificate issued by a Competent Authority as per the form V, VI and VII of rule 18(1) under Chapter 7 of Rights of Persons with Disabilities Rules, 2017 dated 15.06.2017. The candidates may refer **Annexure-VI(A), VI(B) and VI(C)** for the revised formats. The existing certificates of disability issued under the Persons with Disabilities Act 1995 (since repealed) shall continue to be valid for the period specified therein. The candidates of PwBD category will be considered to be eligible for appointment only if they (after such Medical Examination as the Government or appointing authority, as the case may be, may prescribe) are found to satisfy the requirements of physical and medical standards of the post.

कुलसचिव/**Registrar**

## Areas of specialization for recruitment of Various posts

| Department | Area of Specialization |
|---|---|
| Bio Technology | Genetic Engineering, Plant Cell Culture, Animal Cell Culture, Immunology |
| Chemical Engineering | Soft Computing (Chemical Engineering, Energy and Environment), Molecular Modelling, Fuel Cell Technology, Solar Thermal and Photovoltaic materials and systems, Energy Storage and Conversion Technologies, Hydrogen energy, Design and scale-up of Battery systems, Modelling and Simulation of Energy Systems, Aerosols. |
| Civil Engineering | Surveying and Remote Sensing, Geomatics, Environmental Engineering, Hydraulics and Water Resources Engineering, Earthquake Engineering |
| Computer Science & Engineering | Artificial Intelligence, Machine Learning, Information Security, Software Engineering, Natural Language Processing, Quantum Computing, Computer Vision, Data Science & Analytics, Cyber-Physical Systems, Cloud Computing, Cyber Forensics, Theoretical Computer Science, Scientific Computing, Computer Networks |
| Electrical Engineering | Electric Vehicle Design, Battery Management System, Power System protection, Signal and Image Processing, Microprocessor & Microcontroller, Embedded system, Sensor Technology, AI and ML applications in EE |
| Electronics & Communication Engineering | RF and Microwave, Quantum Computing, IoT, Communication Systems, Signal and Image Processing, Microelectronics and VLSI Design, AI and Machine Learning, Embedded Systems. |
| Information Technology | Quantum computing, Computer Vision, Theoretical Computer Science, Information Security, Big Data Analytics, Bioinformatics, Augmented Reality/ Virtual Reality, Cyber–security, High performance computing |
| Industrial & Production Engineering | Data Science/Data Analytics/ Machine Learning/ Artificial Intelligence/ Industrial Engineering |
| Instrumentation & Control Engineering. | Analytical Instrumentation, Cyber-physical System, Renewable Energy, AI for IC, Machine Intelligence & Learning, Robotics, Computer Vision, Optical Instrumentation, Industrial Automation, Industry 4.0, and sensors & measurements |
| Mechanical Engineering | Automation, Control, Mechatronics, Robotics, AI & ML in Mechanical Engineering |
| Textile Technology | Fiber Science, Textile Chemical Processing |

| Department | Areas of Specialization |
|---|---|
| Humanities & Management | **Management**<br>Human Resource Management, Marketing Management, Finance, Strategy and General Management<br>**English**<br>Linguistics, English |
| Chemistry | Inorganic Chemistry, Physical Chemistry, Analytical Chemistry, Organic Chemistry |
| Physics | Theoretical/Experimental Nuclear Physics/Plasma Physics |
| Mathematics & Computing | Quantum Computing, Parallel and Distributed Computing, Data structure and Algorithms, Theory of Computation, Design and Analysis of Algorithms, Machine learning and Artificial Intelligence, Data Science and Big Data Analytics, Cryptography and Information Security, Information Theory and Coding, Software Engineering, Computer Vision & Image Processing, Multivariate and Inferential Statistics. |