

Q I P

QUALITY IMPROVEMENT PROGRAMME Admission to Master Degree Programmes for the academic year 2017-2018

(for teachers of AICTE approved Degree level Engineering Institutions, National Institutes of Technology and National Institutes of Technical Teachers' Training and Research)

INFORMATION BROCHURE

Sponsored by



All India Council for Technical Education
(A Statutory Body of Government of India)

Admission coordinated by



Principal Coordinator QIP
Office of Continuing Education & Quality Improvement Programmes
Indian Institute of Technology Bombay
Powai, Mumbai – 400 076

DATES TO REMEMBER:

| | |
|---|-------------------|
| Access to online submission of applications | September 1, 2016 |
| Closing of online applications access | October 9, 2016 |
| Last date for receipt of duly forwarded application along with enclosures | October 17, 2016 |

Both online and hardcopy of the application are required for processing, single version of the application will not be considered

Dear Prospective QIP Scholar

Your interest in the Quality Improvement Programme (QIP) sponsored by the AICTE is appreciated. As you may be aware, the main objective of the programme is to upgrade the expertise and capabilities of faculty members of the AICTE approved degree-level engineering institutions, National Institutes of Technology NITs and National Institute of Technical Teachers' Training and Research (NITTTRs) of the country. The programme launched by the Government of India in the year 1970, is now being implemented and monitored by the National QIP Coordination Committee (NQCC), and is funded through AICTE.

There are three main activities under the QIP scheme for the faculty of degree-level engineering institutions:

- Providing opportunities to teachers of the degree-level engineering institutions to improve their qualifications by offering admissions to M. Tech and Ph. D. degree programmes.
- Organizing Short Term Courses at the QIP Centres for serving teachers in various emerging areas of technology & research.
- Curriculum Development Cell activities which help to improve the class room teaching and learning.

Nine major QIP centres at IITs and IISc undertake the various activities listed above. Admission to M. Tech. and Ph.D. programmes are also offered in selected areas in institutions recognized as Minor QIP centres. A large number of teachers from engineering institutions from all over the country have pursued M. Tech and Ph. D. degree programmes under this scheme. These are aimed at improving the standard and quality of technical education through improvement in the qualifications of the faculty members of the various engineering institutions.

In the past, a Curriculum Development Cell was also set-up at major QIP Centres for improving the effectiveness of technical education in the country. Its activities included curriculum development and revision or preparation of monographs, textbooks, teachers' manuals, teaching aids and other resource materials, examination reforms, organizing inter-institutional programs, seminars, workshops and panel discussions, development of educational technology, creation of methodologies for formal and informal trainings, technical education of the handicaps, etc. A number of short term courses have also been organized by major QIP Centres for the benefit of the faculty members of Engineering Institutions across the country.

The QIP web sites (<http://www.qip.iitb.ac.in/applications2017>, www.qip.cce.iisc.ernet.in, www.iitd.ac.in, www.iitg.ernet.in, www.iitk.ac.in/qip/admission, www.iitkgp.ernet.in, www.qip.iitm.ac.in, www.iitr.ac.in, www.aicte.ernet.in, www.iitbhu.ac.in/qip) will give you necessary information about the programme as well as about the requirements and the procedure to apply for admission in M. Tech. / Ph.D. degree programmes. The details of the disciplines and specializations available at various centres are listed on the website and also available in the admission brochure to enable you to make appropriate choices. You can navigate through the links on the left hand side of the main web page for admission and can download the admission brochure.

Access to the on-line submission of application opens on **September 1, 2016 (Thursday)**. The last date for the on-line submission of the application is **October 9, 2016 (Sunday)**. Please note that the last date for the receipt of the hard copy of application at the office of the **Principal Coordinator QIP, Continuing Education & Quality Improvement Programmes, Main Building, 2nd Floor, Indian Institute of Technology Bombay, Powai, Mumbai - 400076 (M.S), is October 17, 2016 (Monday)**.

The procedure of admission under QIP involves the following steps:

- Scrutiny of all applications in the office of the Principal Coordinator QIP.
- Short-listing by the QIP centres for interviews and dispatch of call letters to those selected for interviews.
- Recommendations by the QIP centres to NQCC.
- Final selection by the National QIP Coordination Committee (NQCC) and
- Offer of Admission by the Institution where the final selection has been recommended by NQCC.

The schedule of interviews at various QIP Centres is given in the brochure, so that you can plan your travel for attending the interviews at places of your choice. For further information about the QIP, the application form or any associated item, you may contact to the Principal coordinator QIP or any of the Coordinators of the QIP Centres listed in the website or brochure.

For further information about a particular institution or a particular department therein, you may directly write to the Head of concerned department or the QIP Coordinator of the institution.

The website {<http://www.qip.iitb.ac.in>} will be updated periodically at each of the timelines. Please visit this website periodically to check for updates in the application and selection process.

Wish you all the best,

Prof. Ravindra D. Gudi
Principal Coordinator QIP,
Office of CE and QIP,
IIT Bombay

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I. GENERAL INFORMATION

1. The major QIP Centres at IITs and IISc offer admission to Master degree programmes in several disciplines. In addition, institutions recognized as the minor QIP Centres also offer admission to Master degree programmes under QIP in some specific departments.
2. The duration of the Master Degree Programme is 24 months.
3. Candidate should visit the website [http:// www.qip.iitb.ac.in/applications2017](http://www.qip.iitb.ac.in/applications2017) for submitting on-line application and to check for updated information related to: receipt of completed application, list of candidates called for interview, selected list of candidates and all other information pertaining to QIP admission.
4. Candidate should read the **Brochure** thoroughly before i) filling **in the on-line application**, and ii) sending the final print-out of application (duly forwarded by the Head of Institution).
5. Candidates must first submit their application form on-line through <http://www.qip.iitb.ac.in/applications2017>. Applications without on-line submission will not be considered. Candidate should make sure that proper Institute / Discipline codes are entered and all relevant details are duly filled in the respective fields. Access to the link for on-line submission of application opens on **September 1, 2016 (Thursday)**. Last date for on-line submission of application is **October 9, 2016 (Sunday)**.
6. After filling the application on-line, candidates should send the **relevant number** of prints of the **on-line** completed form, duly forwarded by the Principal/Head of the Institution, as instructed along with all enclosures and a Demand Draft / Online Payment for Rs.1000/- (Rs.500/- for SC/ST/PD/Female Candidate) drawn in favour of '**Registrar, IIT Bombay**', payable at **Mumbai**, to the **Principal Coordinator- QIP, Continuing Education & Quality Improvement Programmes, Main Building, 2nd Floor, Indian Institute of Technology Bombay, Powai, Mumbai - 400076**
7. The candidate and the Principal/Head of the Institution forwarding the application should ensure that the application is to be sent to the **Principal Coordinator QIP, , Continuing Education & Quality Improvement Programmes, Main Building, 2nd Floor, Indian Institute of Technology Bombay, Powai, Mumbai – 400076**, so as to reach **on or before October 17, 2016 (Monday)**. **Applications received after this date will not be considered**. On receipt of the application, acknowledgement will be sent by email.
8. Information given by the candidate in the application for all the options chosen, must be uniform and correct. In case of any difference observed in the data relating to experience, marks, designation, addresses, age etc., his/her candidature is liable to be cancelled at any stage even after the selection/ admission.
9. **Application submitted without the full support and recommendation of the candidate by the appropriate authorities (Head/Principal of the Institution) with seal, and/or without the required enclosures will automatically be rejected. Please note that no corrections/ additions/deletions to the recommendation format is permitted. Changes to the format of the forwarding / recommendation note will not be accepted.**
10. The application number allotted during **on-line registration** should be quoted in all correspondences, and **such correspondences should be routed through the Principal/Head of the candidate's parent institution**. If the application number changes due to some unavoidable circumstances this change will be intimated through email to the candidate. The changed application number may then be quoted in all cases
11. Short-listed candidates will receive Interview Call/Admission letter from the respective QIP Coordinator of the Institute, where they have applied to seek admission. The Principal Coordinator QIP will not send any Call letter to the candidates directly.
12. **Interview schedule** is final and cannot be altered /changed under any circumstances. Candidates are required to appear for interview at the Institute(s), where he/she would like to seek admission. Candidates may plan their travel accordingly.
13. Concessions, relaxation, and reservations for candidates belonging to SC/ST/OBC/Physically/Disabled/Female Candidates are as per rules. The reservation rules of GOI will be applied to overall admissions by the NQCC. The selection of a candidate is considered only after the recommendation of the major/minor QIP center.

II. INSTITUTIONS OFFERING MASTER DEGREE PROGRAMMES UNDER QIP AND THEIR CODES

| Sl. No. | Name of the Institute/University | Code |
|---|---|-----------|
| Institutions that are Major QIP Centres: The following institutions having QIP Centres which offer admission to Master degree (2- years) | | |
| 1. | Indian Institute of Science, Bangalore – 560 012 | BG |
| 2. | Indian Institute of Technology Bombay, Mumbai – 400 076 | BM |
| 3. | Indian Institute of Technology Delhi, New Delhi – 110 016 | DL |
| 4. | Indian Institute of Technology Guwahati, Guwahati – 781 039 | GW |
| 5. | Indian Institute of Technology Kanpur, Kanpur – 208 016 | KN |
| 6. | Indian Institute of Technology Kharagpur, Kharagpur – 721 302 | KH |
| 7. | Indian Institute of Technology Madras, Chennai – 600 036 | MD |
| 8. | Indian Institute of Technology Roorkee, Roorkee – 247 667 | RR |
| 9. | Indian Institute of Technology (BHU), Varanasi—221005 | VN |
| Other Institutions that are Minor QIP Centres: The following recognized institutions also offer admission to Master Degree (2 years) Programmes under QIP in some specific departments as given below: | | |
| 10. | Anna University, College of Engineering Campus, Chennai – 600 025 | AU |
| | (i) Civil Engineering, (ii) Electrical Engineering, (iii) Information and Communication Engineering, (iv) Mechanical Engineering | |
| | Anna University, AC Technology Campus, Chennai – 600 025 | |
| | (i) Chemical Engineering, (ii) Leather Technology | |
| | Anna University, Madras Institute of Technology, Chennai – 600 044 | |
| | (i) Aerospace Engineering, (ii) Automobile Engineering, (iii) Electronics Engineering, (iv) Instrumentation Engineering (v) Production Technology | |
| 11. | Indian Institute of Engineering Science and Technology, Shibpur – 711 103 (i) Civil Engineering, (ii) Electrical Engineering (iii) Mechanical Engineering, (iv) Mining Engineering., (V) Aerospace Engineering and Applied Mechanics, (VI) Information Technology, (VII) Metallurgy & Materials Engineering. | BE |
| 12. | B.M.S. College of Engineering, Bangalore – 560 019 (i) Machine Design | BS |
| 13. | Indian School of Mines, Dhanbad – 826 004 (i) Mining Engineering | IS |
| 14. | Jadavpur University, Kolkata – 700 032 (i) Electrical Engineering, (ii) Electronics & Telecommunication Engineering, (iii) Mechanical Engineering (iv) Production Engineering | JU |
| 15. | Malnad College of Engineering, Hassan – 573 201 (i) Civil Engineering | ML |
| 16. | Manipal Institute of Technology, Manipal – 576 104 (i) Civil Engineering, (ii) Mechanical and Manufacturing Engineering | MI |
| 17. | Motilal Nehru National Institute of Technology, Allahabad–211 004 (i) Applied Mechanics (ii) Civil Engineering, (iii) Computer Science and Engineering, (iv) Electrical Engineering, (v) Electronics Engineering, (vi) Mechanical Engineering | MN |
| 18. | National Institute of Industrial Engineering, Mumbai –400 087 (i) Industrial Engineering | NI |
| 19. | National Institute of Technology, Calicut - 673 601 (i) Civil Engineering, (ii) Electrical Engineering, (iii) Electronics & Communication Engineering, (iv) Mechanical Engineering | CL |

| Sl. No. | Name of the Institute/University | Code |
|----------------|---|-------------|
| 20. | National Institute of Technology Karnataka, Surathkal – 575 025 (i) Applied Mechanics & Hydraulics (ii) Chemical Engineering, (iii) Civil Engineering, (iv) Computer Engineering, (v) Electrical & Electronics Engineering, (vi) Electronics & Communication Engineering (vii) Mathematical & Computational Science, (viii) Mechanical Engineering, (xi) Metallurgical & Materials Engineering. | SK |
| 21. | National Institute of Technology, Rourkela – 769 008 (i) Ceramic Engineering, (ii) Chemical Engineering, (iii) Civil Engineering, (iv) Computer Science and Engineering, (v) Electrical Engineering, (vi) Electronics and Communication Engineering, (vii) Mechanical Engineering. | RK |
| 22. | National Institute of Technology, Tiruchirappalli – 620 025 (i) Civil Engineering (ii) Computer Science & Engineering (iii) Electrical and Electronics Engineering, (iv) Mechanical Engineering, (v) Metallurgical Engineering (vi) Production Engineering | TR |
| 23. | National Institute of Technology, Warangal – 506 004 (i) Civil Engineering. (ii) Electrical Engineering. (iii) Electronics & Communication Engineering, (iv) Mechanical Engineering. | WR |
| 24. | PSG College of Technology, Coimbatore – 641 004 (i) Computer Science & Engineering, (ii) Electrical & Electronics Engineering, (iii) Mechanical Engineering, (iv) Production Engineering, (v) Textile Technology | PS |
| 25. | Shri G. S. Institute of Technology and Science, Indore – 452 003 (i) Electrical Engineering | GS |
| 26. | Shri Jayachamarajendra College of Engineering, Mysore – 570 006 (i) Civil Engineering, (ii) Electronic and Communication, (iii) Instrumentation Technology, (iv) Mechanical Engineering | SJ |
| 27. | University Visveswaraya College of Engineering, Bangaluru – 560 056 (i) Civil Engineering | UV |
| 28. | Visvesvaraya National Institute of Technology, Nagpur – 440 011 (i) Civil Engineering (ii) Electrical Engineering | VR |

III. CODES FOR DEPARTMENTS OFFERING MASTER DEGREE PROGRAMMES AT VARIOUS INSTITUTIONS

| Department/Centre | Code | Institution(s) Offering Master Degree Programme |
|--|-------------|---|
| Aerospace Engineering | AE | BG, BM*, KH, KN, MD, AU |
| Aerospace Engineering and Applied Mechanics | AE | BE |
| Aeronautical Engineering | AE | AU |
| Agriculture and Food Engineering | AG | KH* |
| Alternate Hydro Energy Centre | AH | RR |
| Applied Mechanics | AM | DL, MD, MN |
| Applied Mechanics Hydraulics | AM | SK* |
| Architecture and Planning | AR | RR |
| Architecture and Regional Planning | AP | KH |
| Atmospheric & Oceanic Sciences (Centre) | AS | BG |
| Automobile Engineering | AU | AU |
| Biomedical Engineering | BM | BM, VN |
| Biochemical Engineering | BC | VN |
| Bio Sciences & Bio Engineering | BM | BM |
| Biotechnology | BT | KH, RR |
| Energy Studies (Centre) | EN | DL |
| Polymer Science & Engineering (Centre) | PS | DL |
| Center of Excellence in Disaster Mitigation & Management | DM | RR |
| Centre of Studies in Resources Engineering | SR | BM |
| Advanced Technology Development Centre | AT | KH |
| Centre of Educational Technology | ET | KH |
| Centre for Oceans, Rivers, Atmosphere and Land Sciences | EV | KH |
| Chemical Engineering | CH | AU, BG, BM, DL, GW, KH, KN, MD, RK, RR, SK*, VN |
| Ceramic Engineering | CM | RK |
| Civil Engineering | CE | AU, BE, BG*, BM*, CL*, DL*, GW*, KH*, KN*, MD*, MI, ML, MN, RK*, RR*, SJ, SK*, TR*, UV, VR, WR*, VN |
| Computational Science (Super Computer Education & Research Centre) | CP | BG |
| Computer Engineering | CS | CL*, SK |
| Computer Science & Engineering | CS | BG, BM, DL, GW, KH, KN, MD, MN, PS, RK, TR, RR |
| Cryogenic | CR | KH |
| Chemistry | CY | RR |
| Earthquake Engineering | EQ | RR* |
| Electrical & Electronics Engineering | EE | PS*, SK, TR |
| Electrical Communication Engineering | EC | BG |
| Electrical Engineering | EE | AU, BE, BG, BM*, CL*, DL, GS, JU*, KH*, KN, MD*, MN, RK, RR*, VR, WR, VN |
| Electronics & Electrical Engineering | EE | GW |
| Electronics and Communication | IL | SJ |

| Department/Centre | Code | Institution(s) Offering Master Degree Programme |
|--|-------------|--|
| Electronics & Communication Engineering | EC | GW*, RK, SK*, WR*, CL, RR |
| Electronics & Telecommunication Engineering | EC | JU* |
| Electronics Design and Technology (Centre) | ED | BG |
| Electronics & Electrical Communication Engineering | EC | KH* |
| Electronics Engineering | EC | AU, MN, VN |
| Energy Science and Engineering | EN | BM, KH |
| Environmental Engineering and Management | EM | KN |
| Environmental Science & Engineering | EV | BM |
| Fuel and Mineral Engineering | FM | IS |
| Earth Sciences | GS | BM |
| Earth Sciences | PG | BM |
| GIS Cell | GI | MN |
| High Voltage Engineering | HV | BG |
| Humanities and Social Sciences | HS | KH |
| Hydrology | HY | RR |
| Industrial and Management Engineering | IM | KN |
| Industrial Engineering & Operations Research | IO | BM |
| Industrial Engineering | IE | NI |
| Industrial Engineering and Management | IM | KH |
| Industrial Tribology Machine Dynamics and Maintenance Engg., | TR | DL |
| Information and Communication Engineering | IC | AU |
| Instrumentation | IN | BG |
| Instrumentation Technology | IN | SJ |
| Instrumentation Engineering | IE | AU |
| Laser Technology | LS | KN |
| Leather Technology | LT | AU |
| Machine Design | MD | BS |
| Material Science | MS | KH, KN |
| Materials and Metallurgical Engineering | MT | KN |
| Mathematical and Computational Sciences | MC | SK* |
| Mathematics | MA | KH, MD, VN |
| Mechanical and Industrial Engineering | ME | RR |

| Department/Centre | Code | Institution(s) Offering Master Degree Programme |
|---|-------------|--|
| Mechanical Manufacturing | MM | MI |
| Materials and Science and Technology | ME | CL, VN |
| Metallurgical and Materials Engineering | MT | KH, SK*,BE |
| Metallurgical and Materials Engineering | MM | MD |
| Metallurgical Engineering & Materials Science | MM | BM* |
| Metallurgical Engineering | MT | TR*, VN |
| Metallurgical Engineering and Material Engineering | MT | KH, RR |
| Materials Engineering | MT | BG |
| Microelectronic System | ML | BG |
| Mining Engineering | MI | BE, IS, KH, VN |
| Nuclear Engineering and Technology | NE | KN |
| Nanotechnology | NT | RR |
| Ocean Engineering | OE | MD |
| Ocean Engineering and Naval Architecture | OE | KH |
| Paper Technology | PP | RR |
| Physics | PH | DL, MD, RR, KH |
| Production Engineering | PE | JU*, PS*, TR* |
| Production Technology | PT | AU |
| Infrastructure Design and Management Design & Management | ID | KH |
| Reliability Engineering | RE | BM, KH |
| Rubber Technology | RT | KH |
| Signal Processing | SP | BG |
| Systems and Control Engineering | SC | BM |
| Systems Science and Automation | SA | BG |
| Textile Technology | TX | DL, PS |
| Centre of Excellence in Transportation Systems | TS | RR |
| Water Resources Development | WR | RR, KH |

* Specializations have to be indicated while opting for the particular department. Code for the specializations is given along with the details corresponding to the particular institution (**Depts. & Field of Specialization**).

V. ELIGIBILITY CRITERIA

1. **Only candidates** (such as lecturers, readers, assistant professors, associate professors and professors) with a **minimum of two-years** teaching experience as full-time regular/permanent teachers of AICTE approved Degree level Engineering Institutions, National Institutes of Technology (NITs) and National Institutes of Technical Teachers' Training and Research (NITTTRs) as on **September 30, 2016 (friday)** are eligible to apply. Admissions to Master degree programme under QIP are open only to candidates with a basic degree in Engineering or Technology or Architecture or such other qualification.
2. **Please note that according to the AICTE notification F.No:37-3/Legal/2010 dated 22 January, 2010 and subsequent publication in Gazette of India dated 5 March, 2010, the appointment of a permanent (regular) faculty as Assistant Professor at degree level, requires a minimum qualification of master's degree in the relevant branch. Thus, applications of those candidates ,who have been appointed to permanent teaching position after 2010 without a Master's degree, will be decline**
3. The candidate should satisfy the minimum eligibility criteria prescribed by the individual Department (and/or the Institution) to which admission is sought.
4. Computer Programmers, Systems Programmers, Workshop Staffs, Guest Lecturers, Visiting Lecturers, Teaching Assistants, Ad-hoc/Contract or Part-time Teachers, Technical Assistants, Research Engineers, Scientific Officers and other such categories of staff **are not eligible**.
5. Teachers of the Major QIP centers **are not eligible**.
6. Teachers of the Minor QIP centres **are eligible to apply to Major QIP Centres**.
7. Teachers of the minor QIP centres are permitted to apply for a field of specialization available in another minor QIP centre, which is not available in their parent department on the specific recommendations of the Department's and Institute's Head stating that a faculty in the particular specialization is required for their Institution.

V. SCHOLARSHIP AND CONTINGENCY GRANT

The candidates admitted for the Master degree programme under QIP will receive a sum of Rs.4,000/-per month as living expenditure allowance and a contingency grant of Rs.5,000/-per annum for two years.

VI. CONDITIONS FOR ADMISSION

1. Admission is possible only to the **Institutions** and the **Departments** listed in the Information brochure.
2. The **final admission of the candidate will be subject to the clearance and approval by the Admission Wing (Section)** of the **concerned institution** as per its rules and regulations in force at the time of admission.
3. The candidate, if selected, should be relieved to join the programme in time for the session to which he/she is admitted.
4. The candidate joining the Master degree programme under QIP on deputation would be entitled to receive his/her salary and allowances, which must be paid by the parent institution sponsoring him/her.
5. **Conditional recommendation by the Principal/Head of the Institution will not be accepted.**
6. The Principal/Head of the Institution of a candidate who is selected for admission should ensure that **the sponsorship certificate** is produced by the candidate at the time he/she joins the course.
7. If a QIP scholar discontinues Master degree programme, the scholar has to refund the scholarship and contingency received to the AICTE through the QIP Centre, and the parent institution may seek refund of the salary and allowances paid to him for the period he/she attended the programme.

VII. INSTRUCTIONS FOR COMPLETING THE ONLINE APPLICATION

General Instructions

1. The website link for application is : <http://www.qip.iitb.ac.in/applications2017>
2. The candidate should first register by clicking “New Registration”. An email confirming the registration will be sent by assigning an application number and a password. The application number and the password are required for subsequent operations. Hence the candidate should remember them or keep them at a safe place.
3. Candidate can start filling up the on-line application by logging in through “View/Edit Application”.
4. On-line application can be completed in one or more sessions by revisiting the website using the assigned application number and password.
5. The candidate should enter all required information correctly in all fields of the **on-line** application.
6. After filling the fields, the candidate can save the information in between by using the SAVE button. The candidate can edit data in any field till the final submission and printout is taken. The last date for on-line submission of application is **October 17, 2016 (Monday)**.

Personal Information

7. After completing the Name, Designation, Department and Address fields (using the pull-down menu) enter Date of Birth; Gender as ‘Male’ or ‘Female’; the category by ‘General’, ‘SC’, ‘ST’, or ‘OBC’; put ‘Yes’ if you belong to Physically Disabled Category and ‘No’ if you do not; Married as ‘Yes’ if you are married and ‘No’ if you are single.

Educational Qualifications and Academic Data

8. During the process of entering the application details, additional sub-links are provided in appropriate places. For example, while entering the overall performance of the candidate under ‘Educational Qualifications’, there will be a link through which the candidate can furnish the semester wise / year wise particulars.
9. For filling Academic data and Additional qualification, if the absolute marks are awarded, then fill, e.g. 650/800 where the total marks obtained is 650 out of a total of 800. If the Grade Point Average (GPA) is awarded, fill, e.g. 6.7/10 where 6.7 is GPA obtained on a scale of 10. If the candidate has failed in any subject during any semester examination and cleared that subject in a later semester, the marks obtained in that subject should be added back to the semester in which it was supposed to have been cleared and then the total marks is to be calculated. **Candidate should take the marks of all the semesters for Calculating the overall percentage or CGPA (irrespective of the methodology adopted by the university/college in awarding final class/division)**.
10. During the entry of details like detailed semester wise / year wise information, detailed teaching experience etc., the candidate has to enter the details for which documents of proof are to be attached.

Institute and Department Preferences

11. A candidate can apply to a maximum of three institutions and a maximum of two departments in each of the chosen Institutes (i.e., maximum of total six options only).
12. Select the Institution by using the pull-down-menu as per the order of your preference. Then enter the programme code desired as per preferred choices with valid code.
13. Appropriate list of ‘valid codes’ can be viewed using links provided. The code contains 6 characters; the first 2 alphabets identify the Institute, the next 2 alphabets identify the department within the Institute and the last 2 digits identify the field of specialization. For example, a code ‘ R R M E 0 1 ’ represents a particular field of Specialization in the Department of Mechanical and Industrial Engineering, IIT Roorkee.

Preview of Application

14. Once the complete details about the candidate are entered and saved, the online application can be printed. To preview the completed application, the candidate can print a draft copy of the application. The candidate should check the completeness and correctness of the information; if needed, corrections can also be made before the final submission.

Final Confirmations and Printouts

15. After finalizing the contents of the application, the candidate should invoke the FINAL version of the application. Click here for printing the FINAL version of the application. **Once the FINAL version option is chosen, the candidate will not be allowed to modify the contents of the application. The FINAL version should be printed only on A4 sheet with the print orientation as ‘portrait’, and margins as 20 mm (left, right, top and bottom). The print report contains multiple copies of the application. The first copy corresponds to the ‘copy for the Principal Coordinator, QIP, Continuing Education & Quality Improvement Programmes, Main Building, 2nd Floor, Indian Institute of Technology Bombay, Powai, Mumbai - 400076 (M.S) and one copy each for the preference code related to the number of institutions and departments, a candidate proposes to apply to.**

16. The following Table indicates the number of printouts to be taken and the number of sets of enclosures required as related to the number of institutions and departments a candidate proposes to apply.

| No. of Institutions chosen | Total No. of Departments (streams or specialisations) chosen | No. of applications to be printed and No. of sets of enclosures required |
|----------------------------|--|--|
| 1 | 1 | 2 |
| 1 | 2 | 3 |
| 2 | 2 | 3 |
| 2 | 3 | 4 |
| 2 | 4 | 5 |
| 3 | 3 | 4 |
| 3 | 4 | 5 |
| 3 | 5 | 6 |
| 3 | 6 | 7 |

17. In each copy, the candidate should **affix his/her recent stamp-size photograph** in the space provided.
18. The candidate should thoroughly verify the contents of the printed documents and sign at the appropriate places.
19. In the “**Forwarding Note**” of the **Application Form**, the **space provided for the Name of the Candidate and Teaching Experience must be duly filled in and signed by the Principal / Head of the Institution along with the Office Seal.**
20. Applications submitted without signatures of the candidate and the appropriate authorities with seal, and/or without the required enclosures will **automatically be deemed invalid.**

VIII. APPLICATION FEE

A demand draft/Online Payment for Rs.1,000/-for General/OBC Category and Rs.500/-for SC/ST/PD/Female candidates, drawn in favor of ‘**Registrar, IIT Bombay**’ payable at ‘**Mumbai**’ should be attached with the form marked as, **Copy for Principal Coordinator QIP**, on top of the form. Candidate should write their application number, name, address and courses applied on back side of the Demand Draft. Candidate should note that the fee paid other than DD i.e., by **IPO, cheques, etc. are not acceptable. Application fees once paid cannot be refunded.**

IX. CHECKLIST FOR EACH COPY OF THE APPLICATION FORM

- **In Forwarding Note, the candidate should check his/her Name, years and months of experience, signature (Head of Institution), date, and office seal.**
- *Photographs:* Affix recent stamp size photographs at space provided on all printed copies of Application Forms including the **Copy for Principal Coordinator.**
- *Signatures of the Applicant:* The candidate should sign in all the printouts at relevant places.
- Candidate should ensure that all information are properly filled in and required number of print-outs taken and all copies are to be send in a single envelope to the Principal Coordinator CE&QIP office, IIT Bombay.

Enclosures

1. **Application Fee:** Demand Draft/Online Payment of Rs.1,000/- for General/OBC Category and Rs.500/- for SC/ST/PD/Female candidates should be enclosed with the **copy of the Principal Coordinator QIP form only.**
2. Candidates belonging to **SC, ST or OBC** category, must attach an attested copy of the **caste certificate** issued by a **competent authority** as per the Government of India rules.
3. **Physically Disabled** candidates must attach a copy of the certificate issued by a competent **authority** as per Government of India rules.
4. Enclose attested copies of all the relevant certificates
 - *Certificates of the Qualifying Examination and other Degrees*
 - *Proof of age*
 - *Mark Lists of all years/semesters of qualifying examination (mark sheets clearly showing total marks obtained out of maximum marks according to semester or year)*
 - *Teaching Experience arranged in chronological order with currently held position as first (Experience certificate from current institute must be enclosed)*
 - *Industrial/Research Experience Certificates.*
 - *Certificates of Short Term Courses attended.*
 - *All Research Publications.*
 - *Any other Academic Qualifications/Awards etc*

X. INSTRUCTIONS FOR DESPATCHING

1. For the convenience of the candidate, a check list is also provided under point No. IX. One can use this list and ensure the completeness of application. Once completed, the entire bunch (all copies) is to be dispatched to **The Principal Coordinator QIP, Continuing Education & Quality Improvement Programmes, Main Building, 2nd Floor, Indian Institute of Technology Bombay, Powai, Mumbai - 400076** along with the DD / Online Payment .
2. **Before mailing the completed forms, please ensure that each copy of application form and its enclosures are properly fastened with a tag separately at the left-hand top corner.**
3. In case, your applications are submitted by your sponsor, it is your responsibility to ensure that the application is forwarded to the Office of **“The Principal Coordinator QIP, Continuing Education & Quality Improvement Programmes, Main Building, 2nd Floor, Indian Institute of Technology Bombay, Powai, Mumbai - 400076 (M.S)”** well within the time so as to reach **on or before October 17, 2016 (Monday)**. **Applications received after this date will not be considered.**
4. In case, the candidate has forgotten the password, the candidate should send an email (using the email ID mentioned in the on-line application) to qip@iitb.ac.in furnishing the following details: Application Number, Name of the Candidate, Date of Birth, Address for Correspondence, Gender and Category. After verification, the candidate will be informed the password through email only.
5. The requisite number of the print-outs of the application submitted on-line, along with the required number of enclosures, as mentioned, should be sent to **The Principal Coordinator QIP, Continuing Education & Quality Improvement Programmes, Main Building, 2nd Floor, Indian Institute of Technology Bombay, Powai, Mumbai - 400076 (M.S)**, preferably by **Speed Post or Courier Service**, to reach the Office **on or before before October 17, 2016 (Monday)**. **Applications received after this date will not be considered**: All the completed forms along with enclosures should be sent only to the Principal Coordinator QIP, Office of Continuing Education & Quality Improvement Programmes, Main Building, 2nd Floor, Indian Institute of Technology Bombay, Powai, Mumbai - 400076 (M.S). For any clarification contact Phone: 022 -25767048, 25726199; Fax: 022-25723480; Email: qip@iitb.ac.in

XI. LAST DATE

The last date for on-line submission of application is **9th October 2016(Sunday)**. Print-outs of the on- line filled-in application, including the Copy for Principal Coordinator, with its enclosures, complete in all respect should reach **“The Principal Coordinator QIP, Continuing Education & Quality Improvement Programmes, Main Building, 2nd Floor, Indian Institute of Technology Bombay, Powai, Mumbai – 400076, on or before October 17, 2016 (Monday)**. **Applications received after this date will not be considered.**

XII. PROCEDURE FOR ADMISSIONS UNDER QIP

1. **Short-listing** of the candidates will be done first by the office of the Principal Coordinator, then finally at the Department/Institute concerned. Interview letters will be sent to the short-listed candidates by the Department/institute concerned.
2. **Interviews** will be conducted in the Departments at the individual Institutions. **Schedule of interviews** is provided in the next Section. Please note that **No TA/DA will be paid to candidates** for attending the interviews.
3. **Selections** will be made by the National QIP Coordination Committee based on the recommendations of various institutions.
4. **Final Results** will be available at the website www.qip.iitb.ac.in
5. **Admission** letters will be issued to the selected candidates by the respective QIP Centres or Academic section of the institutions offering the admission.

XIII. SCHEDULE OF INTERVIEWS FOR ADMISSION TO MASTER DEGREE PROGRAMMES UNDER QIP

The following dates of interview at various QIP Centres, finalized by National QIP Coordination Committee, are final and cannot be altered under any circumstances.

| S.No | Institute | Interview Date | Day |
|------|---|----------------|-----------|
| 1 | Indian Institute of Technology Kharagpur | 09-01-17 | Monday |
| 2 | Indian Institute of Engineering Science and Technology, Shibpur | 10-01-17 | Tuesday |
| 3 | Jadavpur University, Kolkata | 11-01-17 | Wednesday |
| 4 | Indian Institute of Technology Guwahati | 13-01-17 | Friday |
| 5 | Indian Institute of Technology Delhi | 19-01-17 | Thursday |
| 6 | SJ College of Engineering, Mysore | 23-01-17 | Monday |
| 7 | Malnad College of Engineering, Hassan | 24-01-17 | Tuesday |
| 8 | National Institute of Technology, Warangal | 31-01-17 | Tuesday |
| 9 | UVCE, Bangalore | 01-02-17 | Wednesday |
| 10 | Indian Institute of Science Bangalore | 02-02-17 | Thursday |
| 11 | BMS College of Engineering, Bangalore | 03-02-17 | Friday |
| 12 | National Institute of Technology Karnataka, Surathkal | 06-02-17 | Monday |
| 13 | Manipal Institute of Technology, Manipal | 08-02-17 | Wednesday |
| 14 | Indian Institute of Technology Madras | 09-02-17 | Thursday |
| 15 | Anna University, Chennai | 13-02-17 | Monday |
| 16 | National Institute of Technology, Tiruchirappalli | 15-02-17 | Wednesday |
| 17 | PSG College of Technology, Coimbatore | 20-02-17 | Monday |
| 18 | National Institute of Technology, Calicut | 22-02-17 | Wednesday |
| 19 | Indian Institute of Technology Bombay | 02-03-17 | Thursday |
| 20 | National Institute of Industrial Engineering, Mumbai | 03-03-17 | Friday |
| 21 | Visvesvaraya National Institute of Technology, Nagpur | 04-03-17 | Saturday |
| 22 | SGS Institute of Technology & Science, Indore | 14-03-17 | Tuesday |
| 23 | National Institute of Technology, Rourkela | 17-03-17 | Friday |
| 24 | Indian School of Mines, Dhanbad | 22-03-17 | Wednesday |
| 25 | Motilal Nehru National Institute of Technology, Allahabad | 24-03-17 | Friday |
| 26 | Indian Institute of Technology (BHU), Varanasi | 27-03-17 | Monday |
| 27 | Indian Institute of Technology Kanpur | 03-04-17 | Monday |
| 28 | Indian Institute of Technology Roorkee | 04-04-17 | Tuesday |

XIV. DEPARTMENTS AND FIELDS OF SPECIALISATION AT VARIOUS INSTITUTIONS

The departments offering admission to Master degree (2 years) programs at various institutions and the fields of specialization in the departments are listed in the Tables given below.

Specializations mentioned indicate only areas of interest, and are not exhaustive. There may not be admissions open to all the areas indicated, and candidates, if found suitable, may be admitted to related areas also.

The details given are subject to variation and change from time-to-time and only those operating in the respective institutions at the time of actual admissions are applicable. Candidates desirous of more information such as for accommodation, fee structure etc. may write/contact to the QIP Coordinator of the individual institution or visit their website.

1. Indian Institute of Science Bangalore - BG

In all cases, the minimum eligibility is second class or equivalent grade point in the qualifying examination or Bachelor's degree in Science with Physics and Mathematics in the curriculum followed by the professional diploma as relevant to individual departments.

In all cases, the minimum eligibility is second class or equivalent grade point in the qualifying examination or Bachelor's degree in Science with Physics and Mathematics in the curriculum followed by the professional diplomas relevant to individual departments.

| Code | Department | Fields of Specialization | Minimum Qualification |
|--------|---|--|--|
| BGAE01 | Aerospace Engineering | Structures, Aerodynamics, Propulsion, Control and Guidance of Aircraft, Rockets and Spacecraft. | BE/B.Tech. or equivalent degree in Aeronautical, Chemical, Civil, Mechanical Engineering, Instrumentation & Control, Electrical, Electronics, OR Communication or B.Sc. or equivalent degree followed by AMIE/ AMAeSI/ AMIIChe/ IETE, GRAD. |
| BGCH01 | Chemical Engineering | Alternative Energy; Biochemical Engineering; Biophysics; Catalysis; Complex Fluids; Alleviation of Environmental Pollution; Nanotechnology; Optimization and Control; Modeling, Design and Intensification of chemical processes; Molecular Simulations; Theoretical Biology; Thermodynamics; Transport Phenomena | BE/B.Tech or equivalent degree in Chemical Engineering or BSc or equivalent degree with Mathematics as one of the subjects followed by AMIE in Chemical Engineering or AMIIChe |
| BGCE01 | Civil Engineering | Civil Engineering with major in Geotechnical Engineering, Structural Engineering and Water Resources & Environmental Engineering | BE/B.Tech or equivalent degree in Civil Engineering |
| BGCE02 | | Transportation and Infrastructure Engineering | B.E./B.Tech in any discipline |
| BGCS01 | Computer Science and Automation | <p>Theoretical Computer Science-Algorithms, complexity theory, graph theory, algorithmic algebra, automata theory, combinatorial geometry, computational geometry, computational topology, coding theory, cryptology, logic, formal verification, computational biology.</p> <p>Computer Systems and Software-Computer architecture, multi-core systems and programming, parallelization, embedded systems, energy aware computing, operating systems, storage systems, database systems, distributed computing, cloud computing, systems security, mobile and wireless systems, cyber-physical systems, performance modeling, graphics, visualization, compilers, program analysis, software engineering.</p> <p>Intelligent Systems-Pattern recognition, machine learning, convex optimization, graphical models, soft computing, data mining, information retrieval, bioinformatics, social network analysis, network science, reinforcement learning, stochastic control and optimization, stochastic simulation, electronic commerce, game theory, auctions and mechanism design, cognitive systems.</p> | BE/B.Tech or equivalent degree in Computer Science and /or Engineering (CS) or Information Technology (CS) or Information Science and Engineering (CS). |
| BGSA01 | Systems Science and Automation (Jointly conducted by departments of Electrical Engg. & Computer Science and Automation) | Dynamics of Linear Systems, Stochastic Models, Linear and Non-linear Optimization, Cryptography, Data Mining, Machine Learning, Game Theory, Computer Communication Systems. Digital Image processing, Speech Information Processing, Computer Vision, Medical Imaging and Processing. | BE/B. Tech. or equivalent degree Computer Science/Engineering, Electrical, Electronics, Communication ,Instrumentation, Mechanical or Chemical Engineering; OR B.Sc. or equivalent degree followed by AMIE in Electrical, Electronics and Communication, Mechanical or Chemical Engineering, GRAD. IETE, AMIChE, Candidates should have done a formal course in Programming in Language. |

| Code | Department | Fields of Specialization | Minimum Qualification |
|--------|--|--|--|
| BGEC01 | Electrical Communication Engineering | Communication and Networking, Microelectronics Microwaves, Photonics, Signal Processing | BE/B.Tech. or equivalent degree in Electronics & Communication (EC), Telecommunication (EC), Electronics (EC) or Electrical Engineering with specialization in Electronics & Communication (EC), OR B.Sc. or equivalent degree followed by GRAD. IETE (EC), AMIE in Electronics & Communication (EC) or Wireless Communication (EC). |
| BGEE01 | Electrical Engineering | Dynamics of Linear Systems, Linear and Non-linear Optimization, Digital Controller for Power Applications, Power System Dynamics and Control, Computer Control of Power Systems, Advanced Computer Aided Power Systems Analysis; Power Electronics, Electric Drives, Electromagnetism\ High Power and EHV Power Transmission, HV power Apparatus, Over Voltage and Lighting Protection, Partial Discharges, Environmental Applications of Electrical Discharges | BE/B.Tech. or equivalent degree in Electrical, or Electrical & Electronics or B.Sc. or Equivalent degree followed by AMIE in Electrical. |
| BGME01 | Mechanical Engineering | Solid Mechanics, Fluid Mechanics, Thermal Science, Design and System Analysis, Material Science, Technical Acoustics, IC Engines, MEMS, Bio-Mechanics, Computational Mechanics. | BE/B.Tech or equivalent degree in Mechanical Engineering or B.Sc. equivalent degree with Mathematics followed by AMIE in Mechanical Engineering, or AMI MechE(I) |
| BGMT01 | Materials Engineering | Mechanical Behavior of Metals, Ceramics, Polymers Glasses and Thin Films. Biomaterials Engineering. Polymer Nanocomposites. Organic Electronics. Sensors. Mineral Processing. Biohydrometallurgy. Extractive Metallurgy. Process Modeling. Physical Metallurgy. Phase Stability and Transformation. Diffusion. Solidification. Li-ion batteries. Electrocatalysts. | BE/B. Tech or equivalent degree in Metallurgy/Mechanical Engineering/ Chemical Engineering/Ceramic Engineering/Technology or B.Sc. or equivalent degree with Mathematics, Physics & Chemistry followed by AMIE in Metallurgical Engineering or AMIIM. |
| BGML01 | Microelectronic System (Jointly conducted by, Electrical Communication Engg. & Dept. of Ellectronic Systems Engineering) | Nanoelectronics, semiconductor devices, flexible electronics, CMOS technology, MEMS, optoelectronics, analog & RF VLSI, digital VLSI, Semi-custom VLSI, Design-FPGA, VLSI CAD. | BE/B.Tech or equivalent degree in Electrical (EE), Electronics and Communication (EC), Computer Science (CS), Instrumentation with Electronics(IN). Or B.Sc or equivalent degree followed by AMIETE (EC) or AMIE in Electrical (EE) or Electronics and Communication (EC). |
| BGSP01 | Signal Processing (Jointly conducted by Elect. Engg & Electrical Communication Engg.) | Detection and Estimation Theory, Random Processes, Linear and Non-linear Optimization, Pattern Recognition and Neural Networks, Computer Vision, Digital Communication, Adaptive Signal Processing, Time Frequency Analysis, Signal Compression. Digital Image Processing, Speech Information Processing, DSP System Design, Real time Systems, Multimedia Systems, Wireless Networks, Digital Array Signal Processing, Computer Aided Tomographic Imaging. | BE/B.Tech. or equivalent degree in Electrical, Electronics and Communication OR B.Sc. or equivalent degree followed by GRAD. IETE or AMIE in Electrical or Electronics and Communication. |

| Code | Department | Fields of Specialization | Minimum Qualification |
|--------|---|--|---|
| BGED01 | Electronic Systems Engineering | Communication and Computer Networks, Cyber Physical Systems, Embedded Systems, Nanoelectronics, Power Semiconductors, Power Conversion, VLSI Design, Electronic Packaging, Instrumentation. | BE/B.Tech. or equivalent degree in Electrical (EE), Electronics and Communication (EC), Computer Science (CS), Instrumentation with Electronics (IN) or B.Sc. or equivalent followed by AMIE a relevant area of specialization OR M.Sc. in Physics with Electronics as the special subject. (M.Sc. degree or equivalent degree holders should possess 2-years' experience in Electronic Hardware) |
| BGIN01 | Instrumentation and Applied Physics | Fibre-Bragg Grating Sensors, Sensors and related instrumentation, Plasma processing, Thin film deposition, Super-resolution Microscopy, Fluorescence Microscopy, Microfluidics, Atomic Force Microscopy, Printed and flexible electronics, Electronic Circuits, Bioinstrumentation, Carbon nanotubes & graphene based, Nano-Micro Systems, Photo detectors and gas sensors, Switching devices for information storage, Mass spectrometry, Photovoltaics, Electrical and thermal contact resistance Microelectromechanical Systems(MEMS), Metrology, Precision motion measurement and control, Instrumentation for traffic monitoring and wild life conservation, Control systems for nonlinear systems, Nanoscale Imaging. | M.Sc. or equivalent degree with specialization in Instrumentation / Physics / equivalent or B.E. / B.Tech. or equivalent in Instrumentation, Engineering Physics or Electronic Engineering. |
| BGCP01 | Computational Science (Computational & Data Sciences) | Multi-disciplinary program addressing, High Performance Computing, Computational issues in large scale problem solving, Simulation in Science and Engineering, Numerical Techniques and Algorithms, Computational Biology. (http://cde.iisc.ac.in/academics/degree-programs/) | BE/B.Tech. or equivalent degree in any discipline M.Sc. or equivalent degree in any discipline M.C.A. In all cases strong mathematical and programming background is required. |
| BGAS01 | Centre for Atmospheric & Oceanic Sciences | Atmospheric Sciences , Oceanic Sciences | BE/B.Tech. or equivalent degree in Aerospace Civil, Chemical, Electronics & Communication, Electrical, Mechanical Engineering, Engineering Sciences or M.Sc or equivalent degree in Physical Sciences. |

2. Indian Institute of Technology Bombay - BM

In all cases, the minimum eligibility is a First Class or equivalent (Min.60%) Master's Degree in Engineering/Technology (55% for SC/ST) OR a First Class or equivalent (Min. 60%) Master's Degree in Science (55% for SC/ST) or a First Class or equivalent (Min.60%) in Bachelor's Degree in Engineering/Technology (55% for SC/ST).

| Code | Department | Fields of Specialization | | Minimum Qualification |
|--------|-----------------------|---|--------------------|---|
| BMAE01 | Aerospace Engineering | Aerodynamics | AE, ME, CE | Bachelor's degree in Aerospace, Aeronautical, Mechanical, Civil, Electrical/ Electronics/Instrumentation or its equivalent. |
| BMAE02 | | Dynamics and Control | AE, EE, EC, IN, ME | |
| BMAE03 | | Aerospace Propulsion | AE, ME | |
| BMAE04 | | Aerospace Structures | AE, ME, CE | |
| BMCH01 | Chemical Engineering | <p>Research Areas:</p> <p>1. Process Systems Engineering: Process Simulations, Optimizations, Process Integration and Scheduling, Energy Conservation and Optimal Resource Management, Artificial Intelligence and Mathematical Modeling, Multi-scale Modeling. Systems Identification and Process Safety Analysis, Nonlinear control, fault diagnosis.</p> <p>2. Biotechnology & Bio-Systems Engineering: Metabolic & Genetic Engineering, Bio-separations, Bioinformatics, Systems Biology, Drug Discovery, Enzymology, Bioprocess Development, Bio-fules.</p> <p>3. Materials Engineering: Polymer materials, Polymer Reaction Engineering, Polymer Processing, Polymer Physics. Polyurethane, Rubber, Polymer Rheology, Ceramics, Polymers, Biomaterials, Drug Delivery Food Engineering Microscopy, Nano- composites, Statistical Thermodynamics and Supercritical Fluids.</p> <p>4. Catalysis & Reaction Engineering: Catalysis, Multiphase Reaction, Bio-reaction Engineering and Reactor Modeling, Process intensification & reactive distillation Micro-reactors.</p> <p>5. Transport, Colloids & Interface Science: Granular flows, Powder Mixing, Membrane Separations, Rheology of Complex Fluids, Colloids, Sol-gels, Emulsions & Foams, Paints and Coatings, Micro-structural Engineering, Acrosols, Electro-hydrodynamics. Fluid Mechanics & Stability, Computational Fluid Dynamics, Heat & Mass transfer, Porous media, and Surfactants Micro- fluidics.</p> <p>6. Energy and Environment: Climate change, Coal Gasification, Energy Integration, Green Engineering, Renewable Resources, Waste Management, Pollution Control, Air Pollution Prediction & Control, sustainability studies.</p> <p>7. Thermodynamics and Molecular Simulations: Properly prediction through molecular simulation, fuel cell, catalytic systems, biological systems, polymers.</p> | | Bachelor's degree in Chemical Engineering OR equivalent |

| Code | Department | Fields of Specialization | Minimum Qualification |
|--------|--|--|--|
| BMCE01 | Civil Engineering (Code no. of specialization to be indicated in the datasheet) | Transportation Systems Engineering | B.E/B.Tech. in Civil Engineering or equivalent. First class or equivalent (60%) in qualifying degree (55% for SC/ST) is essential for general eligibility. |
| BMCE02 | | Geotechnical Engineering | |
| BMCE03 | | Water Resources Engineering | |
| BMCE04 | | Structural Engineering | |
| BMCE05 | | Ocean Engineering | |
| BMCE07 | | Construction Technology and management | |
| BMCS01 | | Computer science and engineering | |
| BMBM01 | Biosciences and Bioengineering | Biomedical transducers and sensors including biosensors and bio MEMS. devices, Biomaterials and tissue engineering, Bionanotechnology, Biophysics, Cellular mechanics and Computational biology, Controlled drug delivery systems, computational neurophysiology, Neurofabrication and neurofluidics, Telemedicine, and knowledge based systems. | <p>(i) B.Tech/B.E in Biomedical, Chemical Computer Science,\ Electrical, Electronics, Telecommunications, Instrumentation, Mechanical Engineering, and Material Sciences and Engineering Physics.</p> <p>(ii) M.Sc. or equivalent in Biochemistry, Biophysics, Biotechnology, Ceramics, Chemistry, Electronics, Ergonomics, Materials Science, Mathematics, Molecular Biology, Physics and Physiology.</p> <p>(iii)M.B.B.S</p> <p>(iv)Pharm</p> <p>(v) B.Vsc, B.D.S, B.P.Th, B.O.Th and B. Pharm, degree (duration 4 years and more) Eligibility/ rank certificates are required for all such entrance examinations. All India level pre-MDS/ MVSc selection examination for BVSc, BDS & B.Pharm candidates.</p> <p>Written Test and Interview</p> <p>Prospective candidates called for the interview will be required to appear in a written test in the morning of the first day of the interview. The written examination, of 1-2 hours duration, will be conducted in Mathematics (for candidates with a Medical / Pharmacy / Life Sciences background) and Biology/ Physicology (for candidates with a Engineering / Physical/ Chemical sciences background) and in Mathematics & Biology/Physicology(for candidates with Biotechnology and Biomedical Engineering background). The syllabi for the tests will be in accordance with the 12th standard syllabi of CBSE.</p> |

| Code | Department | Fields of Specialization | Minimum Qualification |
|--------|------------------------|--|--|
| BMEE01 | Electrical Engineering | Communication Engineering: (i). B.E./B.Tech./AMIE or equivalent in Computer Science and Engineering/Information Technology (CS), Electronics/ Telecommunication Engineering (EC), Electrical Engineering (EE), Engineering Physics (EP) (ii). M.Sc. or equivalent in Electronics / Electronic Sciences (EC), Physics (PH) | For general category students and /or for students where no concession in academic performance is called for, the First Class/60% in the qualifying degree examination as the eligibility requires meeting ANY ONE of the following criteria: 1.A minimum of 60 percent marks in the final academic year of the programme 2.A minimum of 60 percent marks in aggregate or as specified by the university (any of the them) 3.A first class as specified by the university 4.A minimum CPI of 6.0 on the scale of 10; with corresponding proportional requirements when the scales are other than on 10, (for example, 4.8 on a scale of 8) For students from the SC/ST category, the corresponding criteria are: 1. A minimum of 55 percent marks in the final academic year of the programme. 2. A minimum of 55 percent marks in aggregate or as specified by the university (any one of them) 3. A first class as specified by the university 4. A minimum CPI of 5.5 on the scale of 10; with corresponding proportional requirements when the scales are other than on 10, (for example, 4.4 on a scale of 8) |
| BMEE02 | | Control & Computing: (i). B.E./B.Tech./AMIE or equivalent in Aeronautical / Aerospace Engineering (AE) Computer Science and Engineering / Information Technology (CS), Electronics/ Telecommunication Engineering (EC), Electrical Engineering (EE), Engineering Physics (EP), Instrumentation Engineering (IN), Energy Engineering (EN) ii). M.Sc. or equivalent in Electronics/Electronic Sciences (EC), Mathematics (MA), Physics (PH) | |
| BMEE03 | | Power Electronics & Power Systems: (i). B.E./B.Tech./AMIE or equivalent in Computer Science & Engineering Information Technology (CS), Electronics/ Telecommunication Engineering (EC), Electrical Engineering (EE), instrumentation Engineering (IN), Energy Engineering (EN) | |
| BMEE04 | | Microelectronics: (i). B.E./B.Tech./AMIE or equivalent in Computer Science & Engineering / Information Technology (CS), Electronics/ Telecommunication Engineering (EC), Electrical Engineering (EE), Engineering Physics (EP), Instrumentation Engineering (IN), Metallurgical Engineering / Materials Science & Engineering (MT), Energy Engineering (EN) (ii). M.Sc. or equivalent in Electronics / Electronic Sciences (EC), Physics (PH) | |

| | | | |
|-------------|---|---|--|
| BMEE05 | | <p>Electronic Systems:</p> <p>(i). B.E./B.Tech./AMIE or equivalent in Biomedical Engineering (BM), Electrical Engineering (EE), Electronics/ Telecommunication Engineering (EC), Engineering Physics (EP), Instrumentation Engineering (IN), Energy Engineering (EN), Computer Science and Engineering/ Information Technology (CS)</p> <p>(ii). M.Sc. or equivalent in Electronics / Electronic Sciences (EC)</p> | |
| Code | Department | Fields of specialization | Minimum Qualification |
| BMME01 | Mechanical Engineering | Thermal and Fluids Engineering | First class in B.E./B.Tech or Equivalent Degree (with 60% Minimum; 55% for SC/ST) in Mechanical Engineering/ Aerospace Engineering/ Chemical Engineering/ Automobile Engineering. |
| BMME02 | | Design Engineering | First class in B.E./B.Tech. or Equivalent Degree (with 60% Minimum; 55% for SC/ST) in Mechanical Engineering/ Aerospace Engineering/ Aerospace Engineering/ Chemical Engineering/ Automobile Engineering/ Applied Mechanics. |
| BMME03 | | Manufacturing Engineering | First class in B.E./B.Tech. or Equivalent Degree (with 60% Minimum; 55% for SC/ST) in Mechanical/ Production/M/c Tool/Industrial Engineering/ Aerospace/ Metallurgical Engineering |
| BMMM01 | Metallurgical Engineering and Materials Science | Materials Science | MM1 : (i) B.E./B.Tech./AMIE or equivalent in Ceramic Engineering (CG), Chemical Engineering (CH), Electrical Engineering (EE), Electronics / Telecommunication Engineering (EC), Electrochemical Engineering (EH), Engineering Physics (EP), Mechanical Engineering (ME), Metallurgical Engineering / Materials Science & Engineering (MT), Polymer Engineering (PO) (ii). M.Sc. or equivalent in Chemistry (CY), Materials Sciences (MS), Physics (PH) |
| BMMM02 | | Process Engineering | (i). B.E./B.Tech./AMIE or equivalent in Chemical Engineering (CH), Electrochemical Engineering (EH), Mechanical Engineering (ME), Metallurgical Engineering / Materials Science & Engineering (MT) (ii). M.Sc. or equivalent in Chemistry (CY), General or specialization in Physical or Inorganic Chemistry Materials Science (MS) |
| BMMM03 | | Steel Technology | B.E./B.Tech./AMIE or equivalent in Chemical Engineering (CH) Mechanical Engineering (ME), Metallurgical Engineering / Materials Science & Engineering (MT) |

| | | | |
|--------|--|---------------------------------|--|
| BMMM04 | | Corrosion Science & Engineering | (i). B.E./B.Tech./AMIE/AMIIM or equivalent in Aeronautical / Aerospace Engineering (AE), Chemical Engineering (CH) Civil Engineering (CE), Electrical Engineering (EE) Electrochemical Engineering (EH), Mechanical Engineering (ME) Metallurgical Engineering / Materials Science & Engineering (MT) (ii). M.Sc. or equivalent in Chemistry (CY), Ceramic (CG) Materials Science (MS), Petrochemical Sciences (PM) |
|--------|--|---------------------------------|--|

| Code | Department | Fields of Specialization | Minimum Qualification |
|--------|--|---|--|
| BMEN01 | Department of Energy Science and Engineering M.Tech in Energy Systems Engineering | <p>Energy Efficiency/ Improvements in conventional Energy Systems: Heat pumps, Energy integration, Process integration for resource optimization, Pinch Analysis-Development of Techniques for optimization of Utility systems, Demand Side Management/ Load Management in the Power Sector, Variable Speed Drives, Power Generation and Systems Planning, Energy Management and Auditing, Efficient Motor Drive Systems, Electronics Ballasts, Static VAR Compensators, Illumination Control, Power Electronics in Energy Efficient Systems, Electric Vehicles, Boilers and Fluidized Bed Combustion, Exhaust Heat Recovery, Cogeneration, Building Energy Management, Efficient Air Conditioning Systems, Hydrogen Generation and Storage, Fuel Cells.</p> <p>Renewables: Pyrolysis for liquid fuels and chemical, Testing of Solar Collector and systems, Passive Solar Architecture, Development of Carbon PV cell, Decentralized Power Systems-Grid Integration Issues, Hybrid Systems for Rural Electrification, Wind Energy systems, Low Cost Solar Drier, Fuel Cells, Thin film solar cells, Carbon nanotubes for hydrogen storage, Solar photovoltaic concentrator.</p> <p>Clean coal Technologies: (UCG, Chemical Looping, Combustion) CO₂ sequestration.</p> | Candidates with First class or 60% (55% for SC/ST) in bachelor's degree in Mechanical, Electrical, Chemical, Energy Systems. Thermal Power, Automobile, Aerospace, Aeronautical, Metallurgical or Civil Engineering or equivalent with valid GATE score in any discipline are eligible for admission |

| BMEV01 | Environmental Science and Engineering | Environmental Monitoring, Industrial Air & Water Pollution Control, Solid and Hazardous Waste Management, Air & Water Quality Modeling, Environmental Systems Optimization, Environmental Microbiology & Biotechnology, Bioremediation, Indoor Air Quality, Aerosol Science and Technology, Environmental Impact Assessment and Global Issues. | Bachelor of Engineering degree in Aeronautical / Aerospace, Agricultural, Chemical, Civil, Energy, Biotechnology, Environmental, Mechanical, Metallurgical Engineering/ Materials Science & Engineering, and Mining Engineering or a Master of Science degree in Atmospheric Science, Biochemistry, Biotechnology, Chemistry, Earth Sciences, Environmental Toxicology, Environmental Sciences, Meteorology, Microbiology and Physics for M.Sc graduates, Mathematics is mandatory at Higher Secondary/ Intermediate (10+2) level. |
|--------|---------------------------------------|--|--|
| Code | Department | Fields of Specialization | Minimum Qualification |

| | | | |
|-------------|--|---|---|
| BMO01 | Industrial Engineering and Operations Research | <p>The specific problems of research interests include: production planning, scheduling and control systems; distribution and service systems; industrial scheduling, facilities planning, project management, quality management, materials management and productivity management; operations planning and control related to CMS, MRP, ERP, flexible assembly, FMS, JIT; Supply chain analysis, reverse logistics, closed-loop supply chains and RFID applications, product variety management.</p> <p>Operations Research applications in management of technology and resource allocation; convex optimization; mixed-integer programming; Markov decision processes; optimal control in deterministic and stochastic systems; (differential) game theory; applications of game theory; modeling and simulation of supply chains, manufacturing and service systems; theory and applications of distributed and hybrid simulations, discrete event and system dynamics simulations; applied stochastic models; scheduling and control of railways and other transport operations; time tabling of services, crew and vehicle scheduling for transport operations; optimization and design problems arising from e-commerce, including auctions and mechanism design for electronic exchanges; risk analysis and contract design; revenue management; quantitative models for financial engineering. Theory and applications of neural nets and fuzzy systems in manufacturing and management; development and applications of modern information systems for managing manufacturing, supply chain and service organizations.</p> <p>The IEOR programme is unique in its contemporary flavor, with new courses in Financial Engineering, Supply Chain Management, Game Theory, Markov decision process, System Dynamics, Neural Networks and Fuzzy Logic, Services Management, Manufacturing systems to name a few.</p> <p>The programme is equally in background building, with updated courses in optimization, stochastic models, simulation, & knowledge based systems.</p> | Candidates having a first class Bachelor's degree in any branch of Engineering with valid GATE Score in any discipline are eligible to apply. |
| Code | Department | Fields of Specialization | Minimum Qualification |

| BMID01 | Industrial Design Centre | <p>MDes:</p> <ul style="list-style-type: none"> Information Visualization Perception and Cognition | <p>INDUSTRIAL DESIGN (ID)</p> <ol style="list-style-type: none"> Bachelor's degree in Design/Engineering/Architecture/Interior Design: 10+2+4 years (minimum four year Bachelor's course). Professional Diploma in Design: 10+2+4 years (minimum four year diploma programme). <p>COMMUNICATION DESIGN (CD)</p> <ol style="list-style-type: none"> Bachelor's degree in Design/Engineering/Architecture/Interior Design: 10+2+4 years (minimum four year Bachelor's course). Professional Diploma in Design: 10+2+4 years (minimum four year diploma programme). BFA (4 Year professional program with entry afer 10+2) GD Art (4 year program afer 1 year foundation. Minimum entry requirement 10th pass). Note: All candidates with GD Art diploma will additionally require one year professional experience in design areas. <p>ANIMATION DESIGN (AN)</p> <ol style="list-style-type: none"> Bachelor's degree in Design/Engineering/Architecture/Interior Design: 10+2+4 years(minimum four year Bachelor's course). Professional Diploma in Design: 10+2+4 years (minimum four year diploma programme). BFA (4 Year professional program with entry afer 10+2) GD Art (4 year program afer 1 year foundation. Minimum entry requirement 10th pass). Note: All candidates with GD Art diploma will additionally require one year professional experience in design areas. <p>INTERACTION DESIGN (IN)</p> <ol style="list-style-type: none"> Bachelor's degree in Design/Engineering/Architecture/Interior Design: 10+2+4 years (minimum four year Bachelor's course). Professional Diploma in Design: 10+2+4 years (minimum four year diploma programme). BFA (4 year professional program with entry afer 10+2) GD Art (4 year program afer 1 year foundation. Minimum entry requirement 10th pass). Note: All candidates with GD Art diploma will additionally require one year professional experience in design areas. Master's degree in Arts, Science and Computer Application. <p>MOBILITY AND VEHICLE DESIGN (MD)</p> <ol style="list-style-type: none"> Bachelor's degree in Design/Engineering/Architecture/Interior Design: 10+2+4 years (minimum four year Bachelor's course). Professional Diploma in Design: 10+2+4 years (minimum four year diploma programme). BFA Sculpture (4 year professional program with entry after 10+2) |
|--------|--------------------------|---|---|
| Code | Department | Fields of Specialization | Minimum Qualification |

| | | | |
|--------|--|---|--|
| BMSC01 | Systems & Control Engineering | <ul style="list-style-type: none"> • Large scale systems, system reduction, nuclear reactor control, sliding mode control (continuous & discrete), power systems stability & control, modeling, control & implementation of smart structures, space launch vehicles – stability & control, gas turbines – stability & control, flexible manipulators, stability & control of multirate output feedback based control (POF/FOS). • Robust stability and control especially using quantitative feedback theory (QFT) techniques, nonlinear system analysis and control and reliable computing using interval analysis techniques. • Optimal control, constrained and optimization based control, in particular, stochastic model-predictive/receding-horizon control. • Nonlinear and adaptive control, geometric mechanics, Lagrangian and Hamiltonian mechanics • Cooperative control of multi-agent systems, resource allocation, team theory and its application, game theory, decentralized control, cooperative and network control. • Reconfigurable hardware, embedded control systems, robotic path planning algorithms, hardware/software codesign. • Switched and hybrid systems, control under communication and computation constraints; stochastic control; applications of stochastic process in engineering systems. | <p>Candidates having a Bachelor's Degree in Aeronautical/Aerospace /Chemical/Electrical/ Electronics /Instrumentation/ Mechanical/ Metallurgical Engineering.</p> <p>Candidates should have undergone a basic course in classical control at their undergraduate level & also involved in teaching courses related to Systems & Control in their college.</p> |
| BMES01 | Earth Sciences | <p>Geoexploration: (GS)</p> <p>The Programme is structured such that the students can learn various aspects of mineral, petroleum and groundwater exploration. It offers a wide range in courses in exploration - Well Logging, Exploration Geophysics, Basin Analysis, Marine Mineral Resources, Groundwater Hydrology, Environmental Geology and Hydrogechemistry.</p> | <p>Candidates with first class or 60% marks (55% marks for SC/ST) in Master degree or equivalent in Geology/ Applied Geology/ Geophysics Geochemistry with in valid GATE score in Geology & Geophysics are eligible for admission.</p> |
| BMES02 | | <p>Petroleum Geoscience: (PG)</p> <p>This Specialization was introduced from July 2007; it prepares graduates for a career in petroleum exploration and development. The course provides advanced skills in seismic interpretation, basin analysis and applied micropaleontology, petrophysics, Well logging and data interpretation using workstations and software as used in the industry.</p> | <p>Candidates having first class or 60% marks (55% marks for SC/ST) in Master degree or equivalent in Geology / Applied Geology / Geophysics / Applied Geophysics with valid GATE score in Geology & Geophysics are eligible for admission.</p> |
| BMSR01 | Centre of Studies in Resources Engineering | <p>Remote Sensing and GIS applications, Surface and ground water resources, terrain evaluation, Land use planning, Mineral and hydrocarbon exploration, Glacier, Snow and avalanche studies, Hazards of landslide, Drought and desertification, Marine and coastal environmental studies, Atmospheric remote sensing, Development of tools and techniques of spatial data processing, Digital image processing, Stereo Image analysis and digital cartography, Microwave remote sensing, Global Positioning Systems, Geographic information Systems and Science, Spatial Data Mining, ICT's in Agriculture and Rural Development</p> | <p>Candidates with first class or 60% marks (55% marks for SC/ST) in Bachelor Degree in Engineering , Master degree in Science with the valid GATE score in any of the following papers are eligible for admission to this programme.</p> <ul style="list-style-type: none"> • Agricultural Engineering. • Civil Engineering. • Computer Science & Engineering. • Electronic & Communication Engineering. • Electrical Engineering • Geology & Geophysics • Information Technology • Mathematics • Mining Engineering • Physics • Environment Engineering • Architecture |

3. Indian Institute of Technology Delhi -DL

In all cases, the minimum eligibility is a graduate degree in Engineering/ Technology in the specified field with a

minimum of 60% marks (6.75 CGPA) in aggregate (of all the year / semesters of the qualifying examination) or equivalent grade point average (as determined by IIT Delhi). For SC/ST/PD category candidates the minimum performance in the qualifying degree is relaxed from 60% to 55% (6.75 to 6.25 CGPA).

| Code | Department /Centre | Fields of Specialization | Minimum Qualification |
|--------|---|---|--|
| DLAM01 | Applied Mechanics | Engineering analysis and Design Engineering with specializations in Engineering Mechanics or Product Design or Materials | Aeronautical, Civil, Mechanical, Design, Metallurgical or Production Engineering |
| DLEN01 | Centre for Energy Studies | Energy Studies | B.Tech/ Bachelor of Engineering in Biochemical Engineering and Biotechnology, Chemical Engineering, Civil Engineering, Computer Science and Engineering, Electronics & Communication Engineering, Electrical Engineering, Environmental Engineering, Engineering Physics, Energy Engineering, Instrumentation Engineering, Mechanical Engineering, M.Sc. in Chemistry, Physics and Electronics |
| DLPS01 | Centre for Polymer Science & Engineering | Polymer Science & Technology | B.Tech in Polymer Science & Engineering or Plastics & Rubber Technology or Chemical Engineering, Chemical Technology, Plastics Engineering, Fibre Science & Technology, Material Science or M.Sc. in Chemistry or Physics or Material Science, or Polymer Science |
| DLCH01 | Chemical Engineering | All topics in Chemical Engineering | Chemical Engineering |
| DLCE01 | Civil Engineering (Code no. of the specialization to be indicated in the data sheet) | Construction Engineering and Management | Civil Engineering or Architectural Engineering |
| DLCE02 | | Environmental Engineering & Management | Civil Engineering, Chemical Engineering, Biochemical and Biotechnology, Environmental Engineering |
| DLCE03 | | Rock Engineering & Underground Structures | Civil or Mining Engineering |
| DLCE04 | | Geotechnical & Geo-environment Engineering | Civil Engineering |
| DLCE05 | | Structural Engineering | Civil Engineering |
| DLCE06 | | Transportation Engineering | Civil Engineering, Architecture, Mechanical Engineering |
| DLCE07 | | Water Resources Engineering | Civil or Agricultural Engineering |
| DLCS01 | | Computer Science and Engineering | Computer Science & Engineering |
| DLEE01 | Electrical Engineering | Communication Engineering, Computer Technology, Control and Automation, Electrical Machines and Drives, Integrated Electronics and Circuits, Power Electronics Power Systems. | BE or B.Tech. in Electrical Engineering/ Electronics Engineering/ Electronics & Communication Engineering/ Computer Science & Engineering, or Equivalent for IEC add Electrical and Electronics, Electronics & Instrumentation, M.Sc. Physics / Electronics |
| | | Opto-electronics and Optical Communications (Jointly run by the Department of Electrical Engineering & Physics) | BE or B.Tech in Electrical Engineering/ Electronics Engineering/Electronics & Communication Engineering or M.Sc. (Physics) |

| Code | Department /Centre | Fields of Specialization | Minimum Qualification |
|--------|---|--|---|
| DLME01 | Mechanical Engineering | Mechanical Design | Aeronautical/ Mechanical/ Manufacturing Engineering / Auto-mobile/ Production/ Science & |
| | | Industrial Engineering | Any Engineering Discipline |
| | | Production Engineering | Aeronautical/ Auto-mobile/ Industrial/ Mechanical/ Metallurgy/ Production/ Manufacturing Science & Engineering |
| | | Thermal Engineering | Aeronautical/ Automobile/ Chemical Food Engineering Technology/ Mechanical Engineering/ Power Plant Engineering/ Engineering Physics |
| DLPH01 | Physics | 1. Solid State Material. 2. Applied Optics. 3. Optoelectronics and Optical Communications. (Jointly run with Dept. of Physics and Electrical Engineering) | M.Sc. Physics or B.Tech/ BE in Electrical Engineering/ Electronics & Communication, Engineering Physics, Computer Science |
| DLTX01 | Textile Technology | Textile Engineering | Bachelor's degree in Textile Engineering/ Technology. and allied fields |
| | | Fiber Science and Technology | Bachelor's degree in Textile Engineering/ Technology or Textile Chemical Technology, Fiber Technology, Chemical Engineering, M.Sc. Physics/ Chemistry/ Polymer Technology |
| DLTR01 | Industrial Tribology Machine Dynamics & Maintenance Engineering | Industrial Tribology and Maintenance Engineering | Mechanical Engineering/ Agricultural Engineering/ Automobile Engineering/ Marine Engineering/ Mining/ Production/ Manufacturing Science and Industrial Engineering |

4. Indian Institute of Technology Guwahati -GW

Relaxation of SC/ST/PD candidates: Eligibility criteria will be relaxed by 5% in percent marks or 0.5 point in CPI in all cases.

| Code | Department | Fields of specialization | Minimum Qualification |
|--------|---------------------------------------|--|--|
| GWCH01 | Chemical Engineering | Petroleum Refinery Engineering | Bachelor Degree in Engineering / Technology in an appropriate area (having Mass Transfer, Heat Transfer, Fluid Mechanics, Thermodynamics, Reaction Engineering & Process Control as subjects in UG.) with minimum CPI of 6.5/10 or 60% or First Class. |
| GWCH02 | | Material Science & Technology | |
| GWCE01 | Civil Engineering | Structural Engineering | Bachelor's degree in Engineering/ Technology in an appropriate area with a minimum CPI of 6.5/10 or 60% marks or First Class. |
| GWCE02 | | Water Resources Engineering and Management | |
| GWCE03 | | Geo-technical Engineering | |
| GWCE04 | | Environmental Engineering | |
| GWCE05 | | Transportation Systems Engineering | |
| GWCE06 | | Infrastructure Engineering & Management | |
| GWCS01 | Computer Science & Engineering | Computer Science & Engineering | Bachelor's degree in Engineering/ Technology or equivalent in an appropriate area or M.Sc. (Computer Science/Information Technology) or MCA from a Recognized Institution with a minimum CPI of 6.5/10 or 60% marks or First Class. |
| GWEE01 | Electronics & Electrical Engineering. | Signal Processing | Bachelor's degree in Electrical/ Electronics Engineering or Equivalent or M.Sc. (Electronics) with a minimum CPI of 6.5 / 10 or 60% marks or First Class. |
| GWEE02 | | VLSI | |
| GWEE03 | | Communication Engineering | |
| GWEE04 | | Power and Control | |
| GWEE05 | | RF and Photomics | |
| GWME01 | Mechanical Engineering | Fluids and Thermal Engineering | Bachelor's degree in Engineering/ Technology in an appropriate area with a minimum CPI of 6.5/10 or 60% marks or First Class. |
| GWME02 | | Machine Design | |
| GWME03 | | Computer Assisted Manufacturing | |
| GWME04 | | Computational Mechanics | |

5. Indian Institute of Technology Kanpur - KN

For eligibility to the M.Tech programme, one is required to have passed the qualifying examination, i.e., B. Tech./B.E. or M. Sc. in the appropriate area.

| Code | Department | Fields of specialization | Minimum Qualification |
|--------|--|---|---|
| KNAE01 | Aerospace Engineering | Aerodynamics, Flight Mechanics and Control, Propulsion, Structures, Structural Dynamics & Aeroelasticity. | Degree in Aeronautical/ Aerospace, Mechanical, Civil, Chemical, or Naval Architecture Engg., Electronics |
| KNCH01 | Chemical Engineering | Transport Phenomena, Chemical Reaction Engineering, Applied Kinetics and Catalysis, Thermodynamics, Membrane Separation Processes, Process Systems Development, Computer Aided Design, Optimization and Control, Petroleum Engineering, Polymer Science and Engineering, Environmental Pollution Control, Unconventional Energy Resources, Dynamics of Nonlinear Systems, Zeolite Catalysis, Colloids and Interface Engineering, CFD, Rheology, Non-Newtonian Fluid Mechanics, Nanotechnology, Numerical Methods Engineers, Mathematical Methods in Chemical Engineering, Modeling and Simulation in Chemical Engineering, Computational Biology and Bioinformatics, Modeling and Simulation of Separation Processes, Molecular Modeling, Tissue Engineering. | First class Degree in Chemical Engg. or equivalent |
| KNCE02 | Civil Engineering (Code No. of the specialization to be indicated in the Data Sheet) | Geo-Informatics (Code14) | B.Tech/B.E. degree in Civil/ Mining/Electrical/ Computer Science/Electronics Engineering/ Information Technology/Geoinformatics, or M.Sc. degree in Earth Science streams/ Geography/Physics/Mathematics/Environmental Science. Candidate with M.Sc. degree must have mathematics as one of the subject at B.Sc. level. |
| KNCE03 | | Geotechnical Engineering (Code 08) | B.Tech/B.E. degree in Civil Engineering. |
| KNCE04 | | Structural Engineering (Code 17) | B.Tech/B.E. degree in Civil Engineering. Some Candidates with Bachelor's degree in Architecture, Building Construction and allied subject may also be considered. |
| KNCE05 | | Transportation Engineering (Code20) | B.Tech/B.E. degree in Civil/Mechanical/Aerospace Engineering. |
| KNCE06 | | Hydraulics and Water Resources Engineering (Code 11) | B.Tech/B.E. degree in Civil/ Agriculture Engineering. The candidate must have taken at least one mathematics course at the undergraduate level. |
| KNCE07 | | Infrastructure Engineering and Management | Bachelors degree in Civil Engineering. Some candidates with Bachelor's degree in Building Construction and allied subjects may also be considered. |
| KNCE08 | | Environmental Engineering (EE) | Bachelors degree preferably in Civil Engineering / Chemical Engineering / Mechanical Engineering / Agricultural Engineering / Biotechnology or Master of Science in all areas. All candidates must have mathematics as a subject at least up to 10+2 level. |

| Code | Department | Fields of specialization | Minimum Qualification |
|--------|---|--|--|
| KNCS01 | Computer Science and Engineering | <p>Algorithms: Graph-Theoretic, Algebra and Number Theoretic, Data Streaming, Game theoretic, Randomized.</p> <p>Systems: Computer Architecture, Cloud Computing, Cyber-Security, Embedded Systems, Internet Technologies, Mobile Computing, Programming Languages Implementation.</p> <p>Theory: Complexity, Information Theoretic Complexity, Algebraic Computation, Computational arithmetic and Geometry, Quantum Computing, Computational Game Theory, Logic for CS.</p> <p>Artificial Intelligence: Computer Vision, Machine Learning, Natural Language Processing, Knowledge and Data Discovery.</p> | Bachelor's Degree in Computer Science and Engineering or in a closely related field. |
| KNME01 | Mechanical Engineering | Solid Mechanics & Design, Fluid and Thermal Sciences, Manufacturing Science | <p>First class Bachelor's Degree in Mechanical Engg.</p> <p>Note: Candidates with first class Degree in Production Engg. are eligible for admission only to Mechatronics or Manufacturing Science.</p> |
| KNMT01 | Materials Science and Engineering | Heat and Mass Transfer in Metallurgical System, Process Design and Development in Extractive Metallurgy, Optimization, Electro-deposition, Physical Metallurgy, Alloy Development Thermodynamics and Kinetics of Phase Transformations, Heat Treatment, Solidification, Mechanical Processing, Processing and Advanced Structural Steel, Processing-Steel Making, Structure-Property Relations, Nanostructural Materials, Microstructural Characterization and Stereology Textures, Environmental Degradation of Materials, Corrosion, Powder Metallurgy, Structural Ceramics and Composite, Tribology, Welding, Magnetic Materials, Electromagnetic Materials, Thin Film Technology, Opto-Electronic Materials and Devices, Ferroelectric Ceramics, Electronic Materials, Organic semiconductor, Display Materials and Technologies, Bio-materials. Multiferroic Materials & Thin films, Clean energy, Photovoltaic and energy materials & devices. | <p>B.E./B.Tech. degree in Metallurgical or Materials Engg., Materials Science, Ceramic Engg., Chemical Engg., Mechanical Engg. or other engineering disciplines must have</p> <ul style="list-style-type: none"> • Minimum 60% marks or a CPI of 6.0/10 in B.E./B.Tech. <p>M.Sc. degree in Physics, Chemistry, Life Sciences, Materials Science, Nanoscience/ Nanotechnology or appropriate areas (with Mathematics at B.Sc level) must have</p> <ul style="list-style-type: none"> • Minimum 60% marks or a CPI of 6.0/10 in B.Sc. & • Minimum 60% marks or a CPI of 6.0/10 in M.Sc. |
| KNMS01 | Materials Science (Interdisciplinary programme) | Electronic and Optoelectronic Materials /Devices, Advanced ceramics and composites. Nanoscale materials, Nanotubes. Materials for non- conventional Energy Solar cells, fuel cells, hydrogen storage, Materials for sensors, flexible electronics. Thin films. Magnetic materials. Organic Semiconductors. Piezoelectric and ferroelectric materials Optical spectroscopy Polymeric materials hydrogen Energy storage materials Materials synthesis | B.Tech./B.E./B.Sc. (Engg.) degree in Ceramic, Chemical, Electrical, Electronics and Communication, Materials, Mechanical, or Metallurgical Engineering/Technology; or any equivalent branch of engineering/ technology or Master's degree in Physics, Applied Physics, Chemistry, Materials Science with Mathematics and Physics or Chemistry at Bachelor's level. |
| KNNE01 | Nuclear Engineering and Technology | Computerized Tomography, Reactor Dynamics, Transport Theory, Thermal Fluids Analysis, Instrumentation. | Degree in any branch of Engineering. |

| Code | Department | Fields of specialization | Minimum Qualification |
|--------|---|---|---|
| KNEE01 | Electrical Engineering | Power Engineering | Bachelor's Degree in Electrical or Electronics Engg. or equivalent. |
| KNEE02 | (Codes mentioned against specializations) | including Power Systems, Power Electronics & High Voltage Engineering, Control & Automation | |
| KNEE03 | | Information Systems | |
| KNEE04 | | including Communications, Telecom Networking and Signal Processing), RF & Microwaves | |
| KNEE05 | | Photonics | |
| KNEE06 | | Microelectronics and VLSI | |
| KNIMO1 | | Industrial and Management Engineering | Services Management, Management of Technology, Innovation and Entrepreneurship, Marketing Management, Manufacturing, Operations and Supply Chain, Quantitative Methods & Decision Making, Organizational Behavior, Human Resource Management, Business Economics, Infrastructure and Public Systems, Corporate Governance, Finance, Risk Management and Insurance, Financial Markets and Models, Enterprise Information and Knowledge Systems, Leadership, Ethics, Strategic Management, Business Policy, Energy Economics, Policy and Regulation etc, Intellectual Property Management, Sustainability, Project Management, Business Process Management, E- Governance, Information Systems, Change Management, Business Analysis. Operations Research; Operations Management and Big- Data. |
| KNLS01 | Photonics Science & Engineering | Laser Spectroscopy, Optical communication, Laser Material Processing, Quantum Optics, Biophotonics, Optofluidics, Optical Imaging and Tomography, LIDAR, Interferometry, Photonic Integration (Semiconductor Devices & Lasers), Bio-medical Applications of Lasers, Femtosecond Pulse Shaping, Nonlinear Spectroscopy, Coherent Control, Multiphoton Imaging, Quantum Computing, Imaging in Complex Media & Biological Tissues, Interferometric Tomography, Laser & Rainbow Schlieren, Imaging Growth of Protein Crystals, Quantum Cryptography, Electromagnetics and RF, Laser Plasma Interaction, Laser Fabrication, Opto-Electronics, Millimetric & Microwave Circuits, Fiber Optics, Nonlinear Optics, Photonic Band Gap Structures, Optical Techniques, Experimental Methods in Thermal Sciences, Propulsion, Combustion, Computational Fluid Dynamics (CFD), Laser Imaging and Cross-Section, Flash and Scanning Laser Applications, Particle Image Velocimetry, Laser Schlieren, Experimental Stress Analysis, Smart Materials, Development and Analysis of Reconstruction Algorithms for Nonlinear Tomography, Shape-Based Tomography, Numerical Solutions to Partial Differential Equations in Electromagnetic Subsurface Imaging, Light Microscopy, Optical Metrology, Digital Holography, Quantitative Phase Imaging | Degree in any branch of Engg. and Science with exposure in Photonics. |

6. Indian Institute of Technology Kharagpur -KH

In all cases the minimum eligibility is degree in engineering with a minimum of 60% marks or equivalent.

| Code | Department | Fields of specialization | Minimum Qualification |
|--------|--|---|--|
| KHAE01 | Aerospace Engineering | Aerospace Engineering | Degree in Aerospace, Mechanical/Civil Engineering/ Electrical Engineering with Specialization in Control System. |
| KHAG01 | Agricultural and Food Engineering | Farm Machinery & Power | Degree in Agricultural Engineering (All Specializations), and Degree in Mechanical Engineering |
| KHAG02 | | Land and Water Resources Engineering | Degree in Agricultural Engineering (All Specializations) |
| KHAG03 | | Food Process Engineering | Degree in Agricultural Engineering (All specializations) Degree in Chemical/Mechanical Engineering. Degree in Food Technology (4 year B.Tech), and Degree in Food Process Engineering (4 year B.Tech) |
| KHAG05 | | Aquacultural Engineering | For M.Tech. in Aqua cultural Engineering, the minimum qualification is B.Tech. in Agricultural Engineering (All Specializations), Civil Engineering, Chemical Engineering, Mechanical Engineering and Naval Architecture. For Ph.D, the minimum qualification is M.Tech. in the above disciplines with working experience in Aquacultural Engineering, and Masters in Fisheries Science with NET Qualification. |
| KHAG06 | | Agricultural Systems & Management. | Degree in Agricultural Engineering (All specialization) |
| KHBT01 | | Biotechnology | Biotechnology and Biochemical Engineering |
| KHET01 | Centre for Educational Technology | Multimedia Information Processing | B.Tech in ECE, COMP, EE, INST, PH, MA |
| KHCE01 | Civil Engineering | Hydraulic and Water Resources Engineering. | Degree in Civil Engineering |
| KHCE02 | | Transportation Engineering | Degree in Civil Engineering |
| KHCE03 | | Environmental Engineering & Management | Degree in Civil Engineering/Chemical Engineering |
| KHCE04 | | Geotechnical Engineering | Degree in Civil Engineering |
| KHCE05 | | Structural Engineering | Degree in Civil Engineering |
| KHCH01 | Chemical Engineering | Chemical Engineering | Bachelor degree in Chemical Engineering / Chemical Technology. |
| KHCR01 | Cryogenic Engineering Centre | Cryogenic Engineering | Degree in Chemical/ Mechanical/ Aerospace/ Electrical / Agriculture /Metallurgical and Materials Engineering, M.Sc. in Physics/Materials Science. |
| KHCS01 | Computer Science and Engineering | Computer Science & Engineering. | Degree in Computer Science & Engineering or Information Technology |
| KHEC02 | Electronics and Electrical Communication Engineering | Micro Electronics & VLSI Design. | Degree in Electronics and Electrical Communication Engineering |
| KHEC03 | | R F & Microwave Engineering | |
| KHEC04 | | Telecommunication System Engineering | |
| KHEC05 | | Visual Information and Embedded Systems Engineering | |

| Code | Department | Fields of specialization | Minimum Qualification |
|--------|--|---|---|
| KHEE01 | Electrical Engineering | Machine Drives and Power Electronics. | Degree in Electrical (KHEE01-KHEE04), Electronics and Elect. Communication (KHEE02, KHEE04), Instrumentation (KHEE02, KHEE04) Engineering |
| KHEE02 | | Control System Engineering | |
| KHEE03 | | Power & Energy System | |
| KHEE04 | | Instrumentation and Signal Processing | |
| KHIM01 | Industrial and Systems Engineering | Industrial Engineering. & Management. | Degree in Aerospace Engineering, Agricultural Engineering, Chemical Engineering,, Civil Engineering,, Computer Science & Engineering,, Electrical Engineering,, Electronics & Elect. Communication Engineering, Information Technology, Instrumentation Engineering, Industrial Engineering, Mechanical Engineering, Manufacturing Engineering, Metallurgical Engineering, Mining Engineering, Naval Architecture & Production Engineering. |
| KHMA01 | Mathematics | Computer Science and Data Processing. | M.Sc. degree in Mathematics, Physics or Statistics. B.Tech in Electrical Engineering & Electrical Communication & Engineering |
| KHME01 | Mechanical Engineering | Manufacturing Science and Engineering | Degree in Mechanical (all specializations) Aerospace (KHME02, KHME03), Energy (KHME02), Metallurgical (KHME01), Production (KHME01) Engineering |
| KHME02 | | Thermal Science and Engineering | |
| KHME03 | | Mechanical Systems Design | |
| KHMN01 | Mining Engineering | Mining Engineering | B.E/B.Tech. Degree in Mining Engineering, Civil Engineering, Mechanical Engineering, Petroleum Engineering, Mineral Processing, Mining Machinery. MSc Tech (Applied Geology and Geophysics) MSc Geology and Geo-informatics |
| KHMS01 | Materials Science | Materials Science and Engineering. | <ul style="list-style-type: none"> B.Tech/B.E Degree in Chemical Engineering/Technology, Ceramic and Glass Technology, Materials Technology, Plastic and /or Rubber Technology, Polymer Science and Technology with 60% marks minimum. M.Sc. in Physics, Chemistry, Material Science, Polymer Chemistry, Electronic Science with 60% marks minimum. |
| KHMT01 | Metallurgical and Materials Engineering | Metallurgical and Materials Engineering | Degree in Metallurgical, Chemical, or Mechanical Engineering or Production Engineering or Manufacturing Science and Engineering or in Glass and Ceramic or Materials Science/Technology |
| KHOE01 | Ocean Engineering & Naval Architecture | Ocean Engineering & Naval Architecture | Degree in Aerospace, Civil, Marine Engineering, Mechanical, Production, Ocean Engineering, Naval Architecture, Ship-building technology or equivalent. |
| KHPH01 | Physics | Solid State Technology | M.Sc. (Physics/Applied Physics/Solid State Physics), Bachelor in Engineering Physics/Polymer Engineering, M.Sc. (Polymer Physics/Polymer Science), M.Sc. (Electronic Science/Materials Science/Chemistry with Mathematics at the B.Sc. level), M.Sc. (Applied Optics), Bachelor in Electronics Engineering, /Electronics and Electrical. |
| KHRT01 | Rubber Technology | Rubber Technology | Degree in Chemical, Materials, Plastics and/or Rubber, Polymer or Textile Technology, Mechanical or Production Engineering or Master in Chemistry, Applied Chemistry. |
| KHID01 | Ranbir and Chitra Gupta School of Infrastructure Design and Management | Infrastructure Design and Management | B.Tech. in Civil, Electrical, Mechanical or B.Arch./B.Plan. |

| Code | Department | Fields of specialization | Minimum Qualification |
|-----------------------|---|--|---|
| KHEN01 | School of Energy Science & Engineering | Energy Science and Engineering | Degree in Electrical Engineering, Mechanical Engineering or Chemical Engineering. |
| KHEV01 | Centre for Oceans, Rivers, Atmosphere and Land Sciences | Earth System Science & Technology | B.E./B.Tech. or equivalent in Aerospace Engineering, Agricultural Engineering, Embedded Controls and Software, Civil Engineering, Naval Architecture/ Marine Engineering, Mechanical Engineering. M. Sc. with Mathematics both at +2 and B. Sc. Level in Earth Sciences/Geological Sciences, Environmental Engineering, Geology/Geophysics/Applied Geology/Applied Geophysics, Mathematics/Applied Mathematics, Physics/Applied Physics/Solid State Phy. |
| KHAT01 | Advanced Technology Development Centre | Embedded Systems and Software | B.E./B.Tech. or equivalent / M.Sc. with Mathematics at +2 level/ M. Sc. with Mathematics both at +2 and B. Sc. Level/ in Computer Science and Engineering, Electronics and Communication Engineering, Electrical Engineering, Instrumentation |
| KHWR01 | School of Water Resources | Water Engineering & Management | B.E./B.Tech. or equivalent in Agricultural Engineering/Civil Engineering/Environmental & Chemical Engineering/Mining Engineering. |
| KHMB01 | Medical Science and Technology | Medical Imaging and Informatics | B.Tech in Electronics and Electrical Communication Engineering, Electrical Engineering, Instrumentation Engineering |
| KHRE01 | Reliability Engineering Centre | Reliability Engineering | Degree in Electrical Engineering, Electronics & Communication Engineering, Civil Engineering, Chemical Engineering, Computer Science, Industrial Engineering and Management, Mechanical Engineering, Aerospace Engineering, Production Engineering, Instrumentation Engineering, Manufacturing Engineering, Information Technology, Mining Engineering and allied branches. |
| M.C.P. Degree Program | | | |
| KHAR01 | Architecture & Regional Planning | Master of City Planning | Degree in Architecture (B.Arch.) or Civil Engineering, (B.Tech./BE) or Bachelor of Planning (B.Planning). Students with MA/M.Sc. degree in Geography or Economics or Sociology are also eligible for admission, after clearing net.. |

7. Indian Institute of Technology Madras - MD

The minimum eligibility is a graduate degree with first class or minimum of 60% aggregate marks (or equivalent grade point average) in the corresponding or specified branch.

| Code | Department | Fields of specialization | Minimum Qualification (The candidate should possess the following degree in B.E./B.Tech or equivalent) |
|--------|--------------------------------|--|---|
| MDAE01 | Aerospace Engineering | Aerodynamics, Propulsion, Structures | Aerospace Engineering, Automobile Engineering, Chemical Engineering, Civil Engineering, Computer Science & Engineering, Electronics & Communication Engineering, Electrical & Electronics Engineering, Energy Engineering, Instrumentation, Mechanical Engineering, Manufacturing Engineering, Metallurgical Engineering, Naval Architecture, Production Engineering. |
| MDAM01 | Applied Mechanics | Specialization in / Fluid Mechanics Solid Mechanics | Aerospace Engineering, Chemical Engineering, Civil Engineering, Energy Engineering, Mechanical Engineering, Metallurgical Engineering, Naval Architecture. |
| MDAM02 | | Biomedical Engineering | Biomedical Engineering, Electrical and Electronics Engineering, ECE, Civil, Mechanical, E&I Engineering, Computer Science Engineering / Computer Science |
| MDCH01 | Chemical Engineering | Transport and Reaction Engineering, Systems and Control, Biochemical Engineering, Environmental Engineering, Materials and processes | B.E./B.Tech or equivalent degree in Chemical Engineering, Biochemical Engineering, or Environmental Engineering |
| MDCE01 | Civil Engineering | Building Technology & Construction Management | Architecture (B.Arch.), Civil Engineering |
| MDCE02 | | Environmental Engineering | Agricultural Engineering, Biotechnology, Chemical Engineering, Civil Engineering, Environmental & Civil Engineering, M.Sc. in Life science. |
| MDCE03 | | Geotechnical Engineering | Civil Engineering |
| MDCE04 | | Hydraulic & Water Resources Engineering | Agricultural Engineering, Civil Engineering, Environmental / Environmental and Civil Engineering |
| MDCE05 | | Structural Engineering | Civil Engineering |
| MDCE06 | | Transportation Engineering. | Architecture (B.Arch.), Civil Engineering |
| MDCS01 | Computer Science & Engineering | Computer Science & Engineering | B.E./ B.Tech (CSE, CS, or IT) or MCA with a prev. B.Sc. degree or M.Sc (CS) |
| MDEE01 | Electrical Engineering | Communications, Networks, Signal processing, Speech & Image Processing Information Theory | Electronics & Communication Engineering |
| MDEE02 | | Power Systems & Power Electronics | Electronics & Communication Engineering, Electrical & Electronics Engineering, Instrumentation. Engineering, Instrumentation |
| MDEE03 | | Micro Electronics & VLSI Design | Electronics & Communication Engineering |
| MDEE04 | | Control and Instrumentation | Electrical and Electronics Engineering, Electronics and Communication Engineering, Control and Instrumentation Engineering. |
| MDEE05 | | Microelectronics | B.E/ B.Tech. /M.Sc., in Electrical & Communication Engineering/ Instrumentation Engineering / Electrical & Electronics Engineering / Physics who qualify with GATE subject EE/EC/IN/PH. |

| Code | Department | Fields of specialization | Minimum Qualification |
|--------|---------------------------------------|---|--|
| MDME01 | Mechanical Engineering | Thermal Engineering Stream: (Combustion & Propulsion, Heat Transfer & Thermal Power, I.C. Engines & Gas Turbines, Hydroturbomachines, Refrigeration & Air Conditioning, Thermal Turbomachines) | (The candidate should possess the following degree in B.E./B.Tech. or equivalent) Aeronautical/Aerospace Engineering, Automobile Engineering, Chemical Engineering, Energy Engineering, Mechanical Engineering, Marine Engineering, Petroleum Engineering |
| MDME02 | | Design Stream: (Mechanical Design, Composites Technology) | (The candidate should possess the following degree in B.E./B.Tech. or equivalent) Aeronautical/Aerospace Engineering, Automobile Engineering, Mechanical Engineering |
| MDME03 | | Manufacturing Engineering Stream: (Manufacturing and Precision Engineering) | (The candidate should possess the following degree in B.E./B.Tech. or equivalent) Aerospace Engineering, Automobile Engineering, Computer Science & Engineering, Electronics & Communication Engineering, Electrical & Electronics Engineering, Industrial Engineering, Instrumentation, Mechanical Engineering, Manufacturing Engineering, Machine Tool Engineering, Naval Architecture, Production & Industrial Engineering, Production Engineering |
| MDMM01 | Metallurgical & Materials Engineering | Metallurgical & Materials Engineering | BE/B.Tech or equivalent in Biotechnology, Chemical Engineering, Manufacturing Engineering, Materials Technology, Mechanical Engineering, Metallurgical Engineering, Nanotechnology, Production Engineering or other appropriate branch of Engineering/Technology. Science postgraduates (M.Sc. or equivalent) in Physics, Chemistry, Materials Science, Nanoscience, Nanotechnology or other appropriate branch of Science with exceptional merit and research or industrial experience may be considered. |
| MDOE01 | Ocean Engineering | Ocean Engineering | Aerospace Engineering, Civil Engineering, Marine Engineering, Mechanical Engineering, Naval Architecture Or any other appropriate engineering discipline OR M Sc in Physics, Mathematics, Statistics and Oceanography |
| MDOE02 | | Petroleum Engineering | Chemical Engineering, Civil Engineering, Marine Engineering, Mechanical Engineering, Naval Architecture, Petroleum Engineering Or any other appropriate engineering discipline OR M.Sc in Physics, Mathematics, Statistics Oceanography, Geology and Geophysics |
| MDMA01 | Mathematics | Industrial Mathematics and Scientific Computing | M.Sc. in Mathematics or Physics or BE/ B.Tech. or equivalent in Aerospace Engineering, Chemical Engineering, Civil Engineering, Computer Science & Engineering, Electronics & Communication Engineering, Electrical & Electronics Engineering, Mechanical Engineering, Metallurgical Engineering, Naval Architecture. |
| MDPH01 | Physics | Solid State Technology | M.Sc. Physics/ Applied Physics, M.Sc. Material Science, Electronics and Communications Engineering, Electrical and Electronics Engineering, Metallurgical and Materials Engineering. |

8. Indian Institute of Technology Roorkee – RR

Minimum qualification for candidates of general category seeking admission to the PG programme must have at least 60% marks or 6.00 CGPA on a 10 point scale at qualifying degree level. For SC/ST/PD category candidates this percentage is 55% or 5.50 CGPA on a 10 point scale. The percentage of marks will be considered as aggregate awarded in qualifying degree examination.

- (a) Candidates must have a minimum of two years of full-time work experience till the last date submission of application form. For a candidate employed in an educational Institution, it should be recognized by AICTE.

OR

Candidates having AMIE/AMIS/AMIIChE/AMIIM/Grad IETE, who possess B.Sc. or Diploma in engineering and have at least 3 years teaching experience at the submission of last date of application acquired in relevant field, are also eligible to apply for admission to M.Tech courses.

- (b) Candidates should submit the sponsorship certificate along with the application, duly signed by the Head of the Institution/Organization.

| Code | Department | Fields of specialization | Minimum Qualification |
|--------|-------------------------------|--|---|
| RRAH01 | Alternate Hydro Energy Centre | Alternate Hydro Energy Systems | A recognized Bachelor's Degree in Civil /Electrical/ Mechanical / Industrial / Chemical/ Electronics / Computer/ Agricultural / Environmental Engineering or its equivalent. |
| RRAH02 | | Environmental management of Rivers and Lakes | Bachelor's Degree in Civil / Electrical/ Mechanical/ Industrial / Chemical / Agricultural / Environmental Engineering / Biotechnology/ Architecture / Town Planning / or equivalent. OR Master Degree in Science in any subject with Mathematics at graduation level. |
| RRAR01 | Architecture and Planning | M. Arch. | B. Arch or its equivalent. |
| RRAR02 | | M.U.R.P. | B. Arch or its equivalent. or Bachelor Degree in Civil Engineering OR in Planning (B. Planning) |
| RRCH01 | Chemical Engineering | Computer Aided Process Plant Design. | Bachelor's Degree in Chemical/Biochemical/Pulp & Paper Engineering/ Chemical Technology/ Petrochemical/Polymer Technology/Petroleum Refining, or its equivalent. |
| RRCH02 | | Industrial Pollution Abatement | Bachelor's Degree in Chemical/Pulp & Paper Engineering / Civil /Biochemical / Petroleum / Environmental Engineering / Chemical Technology, Polymer Tech or its equivalent. |
| RRCE01 | Civil Engineering | Environmental Engineering | Bachelor's degree in Civil Engineering/ Chemical Engg./ Environmental Engineering or equivalent. |
| RRCE02 | | Geomatics Engineering | Bachelor's degree in Civil Engg./Electronics Engg./ Electrical Engg. / Computer Science / Information Technology/Marine Engg./Mining Engg. /Environmental Engg./Agricultural Engg./Communication Engg./ Architecture or equivalent. |
| RRCE03 | | Geotechnical Engineering | Bachelor's degree in Civil Engineering/ Mining Engg. or equivalent. |
| RRCE04 | | Hydraulic Engineering | Bachelor's degree in Civil Engineering or its Equivalent. |
| RRCE05 | | Structural Engineering | Bachelor's degree in Civil Engineering or its equivalent. |
| RRCE06 | | Transportation Engineering | Bachelor's degree in Civil Engineering or its equivalent |

| Code | Department | Fields of specialization | Minimum Qualification |
|--------|---|---|---|
| RRCY01 | Chemistry | Advanced Methods of Chemical Analysis | B. Tech. (Chemical Engineering) / M.Sc. (Chemistry) / M.Sc. (Environment Science), with Mathematics at least at 10+2 level. |
| RREQ01 | Earthquake Engineering | Soil Dynamics. | Bachelor's degree in Civil Engineering / Structural Engineering or its equivalent. |
| RREQ02 | | Structural Dynamics | Bachelor's degree in Civil Engineering / Structural Engineering or its equivalent |
| RREQ03 | | Seismic Vulnerability and Risk Assessment | Bachelor's degree in Civil Engineering / Structural Engineering or its equivalent |
| RREE01 | Electrical Engineering | Instrumentation & Signal Processing | Bachelor's Degree in Electrical Engineering / Electronics & Communication / Instrumentation Engineering or its equivalent. |
| RREE02 | | Systems & Control | Bachelor Degree in Electrical Engineering or Electronics & Communication / Instrumentation Engineering, or its equivalent. |
| RREE03 | | Power System Engineering | Bachelor Degree in Electrical Engineering or its equivalent. |
| RREE04 | | Electric Drives & Power Electronics | Bachelor's Degree in Electrical Engineering or its equivalent. |
| RREC01 | Electronics and Communication Engineering | Communication Systems | Bachelor's Degree in Electronics & Communication Engineering or its equivalent |
| RREC02 | | RF & Microwave Engineering | Bachelor's degree in Electronics and Communication Engineering or its equivalent |
| RREC03 | | Microelectronics & VLSI | Bachelor's degree in Electronics & Communication Engineering or its equivalent. |
| RRCS01 | Computer Science & Engineering | Computer Science & Engineering | BE/B.Tech. degree in Computer Science & Engineering/ Information Technology. |
| RRHY01 | Hydrology | Hydrology | <p>Bachelor's degree in Civil / Mechanical / Agricultural Engineering / Hydrology or its equivalent.</p> <p>M.Sc. / M.Tech (Master's) degree in Chemistry / Geology/ Geophysics / Applied Geology / Applied-Geophysics/Physics / Meteorology/ Geography/ Atmospheric Physics / Environmental Science with Mathematics in B.Sc. (Bachelor's) course as one of the subjects.</p> <p style="text-align: center;">OR</p> <p>M.Sc. (Master's) degree in Statistics with Physics or Mathematics at B.Sc. (Bachelor's) level OR M.Sc. (Master's) degree in Mathematics with Physics in B.Sc. (Bachelor's) level or its equivalent.</p> |

| Code | Department | Fields of specialization | Minimum Qualification |
|--------|---|--|---|
| RRME01 | Mechanical and Industrial Engineering | Machine Design Engineering | Bachelor's degree in Mechanical / Industrial / Production Engineering or its equivalent. |
| RRME02 | | Production & Industrial System Engineering | Bachelor's degree in Mechanical / Industrial / Production Engineering or its equivalent. |
| RRME03 | | Thermal Engineering | Bachelor's degree in Mechanical/ Industrial / Production Engineering or its equivalent |
| RRME04 | | Welding Engineering | Bachelor's degree in Mechanical/ Industrial/ Production Engineering or its equivalent. |
| RRME05 | | CAD,CAM & Robotics | Bachelor's degree in Mechanical / Industrial / Production Engineering or its equivalent. |
| RRMT01 | Metallurgical Engineering & Materials Engineering | Industrial Metallurgy | B.Tech in Metallurgical/ Materials Engineering /Mechanical/ Production Engineering. |
| RRMT02 | | Materials Engineering | B.Tech in Metallurgy/ Materials Engineering, Mechanical Engineering/ Production Engineering/ Ceramic Engineering or M.Sc. in Physics/ Chemistry with Mathematics course at B.Sc. Programme. |
| RRNT01 | Nanotechnology | Nanotechnology | B. Tech. (Met. & Mat. Engineering / Mechanical Engineering / E&C / Electronics / Chemical Engineering / Pulp & Paper / Biotechnology), or its equivalent; M.Sc. (Physics / Chemistry/ Biotechnology), or its equivalent with Mathematics at 10 + 2 or higher level. |
| RRPH01 | Physics | Solid State Electronic Materials | B.Tech. Engineering Physics / M.Sc. (Physics) / Bachelor's degree in Electrical / Electronics / Metallurgical Engineering, or its equivalent. |
| RRPP01 | Paper Technology Saharanpur Campus | Pulp & Paper | Bachelor's degree in Pulp & Paper Engg. / Chemical Engg./Mechanical Engg. / Polymer Engg./ Cellulose Technology/ Biotechnology or equivalent. Note: The two years post B.Sc. diploma awarded by the IPT/DPT plus a minimum of two years relevant experience in Industry/ Research Organization will be considered equivalent to a B.Tech/ B.E. degree. |
| RRPP02 | | Packaging Technology | M.Sc. in Chemistry (PCM at B.Sc. level)/ Polymer Science (PCM at B.Sc. level)/ or B.Tech. in Pulp and Paper Technology/ Biotechnology/ Chemical Engg./Chemical Technology/ Polymer Engg. / Process Engg. / Mechanical Engg./ Production Engg./ Packaging Technology/ Printing Technology / Textile Technology/ PG Diploma in Packaging / Biochemical Engg. Industry sponsored candidate with aforesaid academic qualifications along with two years experience in Paper / Polymer / Packaging Technology. Additional Requirement: GATE qualified except for industry sponsored candidate. |
| RRWR01 | Water Resources Development & Management | Irrigation Water Management | Bachelor's degree in Civil Engineering or equivalent /Agricultural Engineering or M.Sc. Agriculture in Agronomy, Soil Science, Agrometeorology, with Mathematics as one of the papers at the level of B.Sc. / B.Sc. Agriculture. |
| RRWR02 | | Water Resources Development | Bachelor's degree in Civil / Electrical / Mechanical / Electronics & Telecommunication Engineering, or its equivalent. |

| Code | Department | Field of Specialization | Minimum Qualification |
|-------------|--|------------------------------------|---|
| RRDM01 | Disaster Mitigation and Management | Disaster Mitigation and Management | B.Tech. Civil, Structural, Mechanical, Industrial, Chemical and Engineering/Computer Science or equivalent, B.Arch & B.Planning, or M.Tech. in Geological Technology and Geophysical Technology or equivalent, or M.B.A. or M.C.A. or M.Sc. in Physics/Geophysics/ Geology/ Mathematics, Environmental Sciences (with Maths in B.Sc.) computer Science or equivalent. |
| RRTS01 | Centre for Transportation Systems (CTRANS) | Transport Infrastructure Systems | B.Tech. Civil/ Mechanical & Industrial/ Electrical/ Chemical Engineering/ Electronics / Computer Science Engg./Information Tech./ B.Arch/ B.Planning or equivalent |
| RRBT01 | Biotechnology | Bioprocess Engineering | Bachelor's degree in Biochemical Engg., Bioprocess Engg., Chemical Engg., Chemical Technology, Food Technology, Agricultural Engg., Biomedical Engg., Bioengineering, Biotechnology or equivalent |

9. Indian Institute of Technology (Banaras Hindu University) Varanasi - VN

| Code | Department | Fields of specialization | Minimum Qualification |
|--------|-------------------------------|--|---|
| VNMT01 | Metallurgical Engineering | Extractive Metallurgy, Alloy Technology, Metals and Materials Processing | Degree in Metallurgical Engineering |
| VNMI01 | Mining Engineering | Mine Planning, Mine Environment, Rock Mechanics | Degree in Mining Engineering |
| VNCH01 | Chemical Engineering | Energy, Environment, Transfer Processes | Degree in Chemical Engineering |
| VNCI01 | Civil Engineering | Structural Engineering, Environmental Engineering, Geotechnical Engineering, Hydraulics & Water Resource Engineering, Transportation Engineering), Geoinformatics Engineering, Engineering Geology | Degree in Civil Engineering |
| VNEE01 | Electrical Engineering | Electrical Machines and Drives, Power Systems, Control Systems and Power Electronics | Degree in Electrical Engineering |
| VNEE02 | Electrical Engineering | Systems Engineering (Inter disciplinary) | Degree in Electrical, Electronics, Computer Engineering |
| VNME01 | Mechanical Engineering | Machine Design, Thermal & Fluids, Production Engineering | Degree in Mechanical Engineering. |
| VNME02 | Mechanical Engineering | Industrial Management | Degree in any branch of Engineering |
| VNEC01 | Electronics Engineering | Microwave Engineering, Digital Techniques & Instrumentation, Microelectronics, and Communication Systems Engineering. | Degree in Electronics or Electrical Engineering |
| VNBM01 | Biomedical Engineering | Biomedical Engineering | Degree in Biomedical/ Ceramic/Chemical/ Computer/Electrical/Electronics(Telecommunication/Instrumentation/Control)/Mechanica/Metallurgical Engineering/OR M. Sc. Degree in Physics |
| VNMS01 | Material Science & Technology | Material Science & Technology related current areas | Degree in Chemical Sciences, Material Science and Physical Sciences, Ceramic/Chemical Engineering/ Electrical/Civil/ Electronics/Polymer/Plastic Technology/Materials Technology/ Nanotechnology/Metallurgical Engineering/Dentistry/Orthopedics/ENT/Rasshastra |
| VNBC01 | Bio Chemical Engineering | Bio Chemical Engineering | B. Pharm./ B.Tech. or an equivalent degree in Biochemical/Biotechnology/ Chemical/ Food Engg./ OR M.Sc. degree in Biochemistry/ Bio-Technology/ Microbiology or in Chemistry with specialization in Biochemistry or Physical Chemistry. |

10. Anna University, Chennai - AU

| Code | Department | Fields of specialization | Minimum Qualification |
|--|---|---|---|
| AC Tech Campus, Chennai-25 | | | |
| AUCH01 | Chemical Engineering | Petroleum Refining and Petrochemicals, Ceramic Technology, Chemical Engineering, Polymer Science and Engineering. | Degree in Engineering/Tech. in the appropriate branch |
| AULT01 | Leather Technology | Leather technology, Footwear Science & Engineering. | Degree in Engineering/Tech. in the appropriate branch |
| College of Engineering , Guindy, Chennai-25 | | | |
| AUCE01 | Civil Engineering | Environmental Engineering, Structural Engineering, Hydrology and Water Resources Engineering, Construction Engineering and Management, Irrigation Water Management, Urban Engineering, Remote Sensing, Soil Mechanics and Foundation Engineering. | Degree in the appropriate branch in Engineering with preferably 55% or more marks in the aggregate or its equivalent in the Grade system. |
| AUEE01 | Electrical Engineering | Power Systems Engineering, Control and Instrumentation, Power Electronics and Drives, High Voltage Engineering, Electronics Engineering, Instrumentation Engineering. | Degree in the appropriate branch in Engineering with preferably 55% or more marks in the aggregate or its equivalent in the Grade system |
| AUIC01 | Information and Communication Engineering | Optical Communication, Medical Electronics, Applied Electronics, Communication Systems, Laser and Electro Optical Engineering, Computer Science & Engineering, Software Engineering. | Degree in the appropriate branch in Engineering with preferably 55% or more marks in the aggregate or its equivalent in the Grade system |
| AUME01 | Mechanical Engineering | Internal Combustion Engineering, Refrigeration and Air-conditioning, Energy Engineering, Engineering Design | Degree in the appropriate branch in Engineering with preferably 55% or more marks in the aggregate or its equivalent in the Grade system |
| Madras Institute of Technology Campus, Chennai-44 | | | |
| AUAE01 | Aerospace Engineering | Aeronautical Engineering | Degree in Aeronautical, Mechanical, Mechatronics |
| AUAU01 | Automobile Engineering | Automobile Engineering | Degree in Automobile, Mechanical, Production, Manufacturing, Mechatronics |
| AUEC01 | Electronics Engineering | Avionics, Communication and Networking | Degree in ECE/EEE/E&I/CSE/IT/Electronics/Instrumentation |
| AUIN01 | Instrumentation Engineering | Instrumentation Engineering | Degree in Instrumentation and control, Electronics and Instrumentation (E&I), Control and Instrumentation, Instrumentation Engineering |
| AUPT01 | Production Technology | Production and Manufacturing Engineering | Degree in Mechanical, Production, Manufacturing, Metallurgy, Industrial Automobile, Mechatronics. |

11. Indian Institute of Engineering Science and Technology, Shibpur – BE

(Formerly Bengal Engineering and Science University, Shibpur)

| Code | Department | Fields of specialization | Minimum Qualification |
|--------|---|--|---|
| BECE01 | Civil Engineering | Structural Engineering and Concrete Technology Soil Mechanics and Foundation Engineering, Water Resources Engineering, Environmental Engineering, Highway and Traffic Engineering. | Degree in the relevant field in Engineering or equivalent |
| BEEE01 | Electrical Engineering | Power Systems, Electrical Machines, Control Systems, Power Electronics & Drives. | Degree in the relevant field in Engineering Or equivalent |
| BEME01 | Mechanical Engineering | Machine Design, Heat Power Engineering, Production Engineering | Degree in the relevant field in Engineering Or equivalent |
| BEM01 | Mining Engineering | Mining Engineering | Degree in the relevant field in Engineering Or equivalent |
| BEAE01 | Aerospace Engineering and Applied Mechanics | Mechanics of Solids, Mechanics of Fluids | Degree in the relevant field in Engineering Or equivalent |
| BEIT01 | Information Technology | Information and Communication Engineering | Degree in the relevant field in Engineering Or equivalent |
| BEMT01 | Metallurgy and Materials Engineering | Physical Metallurgy. | Degree in the relevant field in Engineering Or equivalent |

12. BMS College of Engineering, Bengaluru - BS

| Code | Department | Fields of specialization | Minimum Qualification |
|--------|------------------------|--------------------------|---|
| BSME01 | Mechanical Engineering | Machine Design | Bachelor Degree holder in Mechanical Engineering/ Industrial & Production Engineering. 1Automobile Engineering/ Manufacturing Engineering./ Industrial Engineering. & Management or equivalent degree with not less than 55% marks in the qualifying degree, However in case of candidate belongs SC/ST & category 1, minimum marks shall not be less than 45%. |

13. Indian School of Mines Dhanbad - IS

The eligibility for M.Tech Programmes is 1st class or equivalent in bachelor degree.

| Code | Department | Fields of specialization | Minimum Qualification |
|--------|----------------------------|--|---|
| ISFM01 | Fuel & Mineral Engineering | 1. Mineral Engineering 2. Fuel Engineering | Degree in Chemical/ Mechanical/ Metallurgical/ Mining/ Mineral Engineering. |
| ISMI01 | Mining Engineering | 1. Mining Engineering 2. Opencast Mining 3. Geomatics 4. Tunneling & Underground Space Technology | Degree in Mining Engineering |

14. Jadavpur University, Kolkata - JU

| Code | Department | Fields of specialization | Minimum Qualification |
|--------|---|---|--|
| JUEE01 | Electrical Engineering | Electrical Machines | Degree or equivalent in Engineering in the appropriate branch with at least 60% marks. |
| JUEE02 | | Control Systems | |
| JUEE03 | | Power Systems | |
| JUEE04 | | High Voltage | |
| JUEE05 | | Electrical Measurements | |
| JUEC01 | Electronics and Telecommunication Engineering | Communication Engineering | Degree or equivalent in Engineering. in the appropriate branch with at least 60% marks. |
| JUEC02 | | Computer Engineering | |
| JUEC03 | | Control Engineering | |
| JUEC04 | | Electronic Devices | |
| JUEC05 | | 3Microwave Engineering | |
| JUME01 | Mechanical Engineering | Applied Mechanics | Degree or equivalent in Engineering in the appropriate branch with at least 60% marks. |
| JUME02 | | Heat Power Engineering | |
| JUME03 | | Fluid and Hydraulic Engineering | |
| JUME04 | | Production Engineering | |
| JUME05 | | Machine Design. | |
| JUPE01 | Production Engineering | Production Technology: CAD/CAM, Robotics, Tribology, Flexible Manufacturing, Computer Integrated Manufacturing, Ergonomics, Designing for Production. | Degree in Production/ Industrial/ Mechanical/ Manufacturing Engineering with at least 60% marks. |
| JUPE02 | | Production Management, Quantitative Management, Terotechnology, Reliability, Behavioral Science, Simulation Theory and Applications. | |

15. Malnad College of Engineering, Hassan - 573 201 ML

The minimum eligibility is a graduate degree with not less than 50% of the marks in the aggregate of all the years of degree examination (cumulative sum of secured marks of all the semester/years divided by the sum of Max. marks). However in case of candidates belonging to SC/ST candidate, marks shall not be less than 45%.

| Code | Department | Fields of specialization | Minimum Qualification |
|--------|-------------------|---|---|
| MLCE01 | Civil Engineering | Computer Aided Analysis & Design of Structures (CADS) | Bachelor's Degree in Civil Engineering. |

16. Manipal Institute of Technology, Manipal – 576 104 MI

| Code | Department | Fields of specialization | Minimum Qualification |
|--------|--|--|---|
| MICE01 | Civil Engineering | Structural Engineering | BE/B.Tech. in Civil Engineering, with minimum 50% marks in aggregate |
| MICE02 | | Construction Engineering & Management | |
| MICE03 | | Environmental Engineering | BE/B.Tech. in Civil Engineering/ Environmental Engineering/ Mechanical Engineering/ Chemical Engineering/ Biotechnology with minimum 50% marks in aggregate. |
| MIMM01 | Mechanical and Manufacturing Engineering | Computer Aided Analysis & Design | BE/B.Tech./AMIE in Mechanical/ Industrial & Production/ Manufacturing Science/ Aeronautical/ Automobile Engineering with 50% marks in aggregate. |
| MIMM02 | | Manufacturing Engineering & Technology | BE/B.Tech/ AMIE in Mechanical/ Industrial & Production/ Manufacturing Science/ Production/ Automobile/ Material Science & Metallurgy Engineering with 50% marks in aggregate. |
| MIMM04 | | Engineering Management | BE/B.Tech/AMIE in any branch of Engineering with minimum 50% marks in aggregate. |
| MIMM05 | | Thermal Science & Energy Systems | B.E/B.Tech/AMIE in Mechanical/ Automobile/ Aeronautical Engineering. with 50% marks in aggregate. |

17. Motilal Nehru National Institute of Technology, Allahabad - MN

| Code | Department | Fields of specialization | Minimum Qualification |
|---------|----------------------------------|---|---|
| MNAM01 | Applied Mechanics | Applied Mechanics. | Eligibility Criteria to M.Tech admission Will be 6.5 CGPA (on a 10-point scale) or 60% for OC/OB/OM whereas 6.0 CGPA (on a 10- point scale) or 55% in case of SC/ST candidates in the qualifying degree. (Duration: 2 Year (4 Semesters)) |
| | | Material Science and Engineering | |
| | | Fluids Engineering | |
| | | Biomedical Engineering | |
| | | Biotechnology | |
| MNCE01 | Civil Engineering | Environmental Engineering | |
| | | Geotechnical Engineering | |
| | | Structural Engineering | |
| MNCS01 | Computer Science and Engineering | Computer Science & Engineering | |
| | | Information Security | |
| | | Software Engineering | |
| MNEE01 | Electrical Engineering | Control & Instrumentation/Power Systems | |
| | | Power Electronics & ASIC Design. | |
| MNEC01 | Electronics Engineering | Digital Systems | |
| | | Microelectronics & VLSI Design | |
| MNME01 | Mechanical Engineering | Design | |
| | | Production Engineering. | |
| | | Computer Aided and Manufacturing. | |
| | | Product Design & Development | |
| MN GI01 | GIS Cell | GIS & Remote Sensing | |

18. National Institute of Industrial Engineering, Mumbai – NI

| Code | Department | Fields of specialization | Minimum Qualification |
|-------|--------------------------------|--------------------------|---|
| NIE01 | Industrial Engineering (PGDIE) | Industrial Engineering | Bachelor's Degree with 60% aggregate marks in Engineering/Technology (relax able by 5% in case of SC/ST candidates) and a minimum of two years experience in the concerned field. |

19. National Institute of Technology Calicut - CL

| Code | Department | Fields of specialization | Minimum Qualification |
|--------|---|--|---|
| CLCE01 | Civil Engineering | Structural Engineering | Bachelor's Degree with 60% marks/CGPA of 6.5/10* in aggregate in Civil Engineering. |
| CLCE02 | | Traffic and Transportation Planning | |
| CLCE03 | | Offshore Structures | |
| CLCE04 | | Environmental Geotechnology | |
| CLCS01 | Computer Science and Engineering | Computer Science & Engineering. | Bachelor's Degree with 60% marks/CGPA of 6.5/10* in aggregate in Computer Science & Engineering/ Information Technology/ First class MCA (60% marks or 6.5/10* CGPA) |
| CLCS02 | | Computer Science & Engineering. (Information Security) | |
| CLEE01 | Electrical Engineering | Instrumentation and Control Systems | Bachelor's Degree with 60% marks/CGPA of 6.5/10* in Electrical Engineering / Electrical and Electronics Engineering / Instrumentation and Control Systems/ Applied Electronics and Instrumentation. |
| CLEE02 | | Power Systems | |
| CLEE03 | | Power Electronics | |
| CLEE04 | | Industrial Power & Automation | |
| CLEE05 | | High Voltage Engineering | |
| CLEC01 | Electronics and Communication Engineering | Electronics Design and Technology | Bachelor's Degree with 60% marks/CGPA of 6.5/10* in Electronics and Communication/ Electronics Engineering/ Electrical & Electronics/ Applied Electronics and Instrumentation. |
| CLEC02 | | Microelectronics and VLSI Design | |
| CLEC03 | | Telecommunication | Bachelor's Degree with 60% marks/CGPA of 6.5/10* in Electronics and Communication/ Electronics Engineering/ Telecommunication Engineering |
| | | Signal Processing | Bachelor's Degree with 60% marks/CGPA of 6.5/10* in Electronics and Communication/ Electronics Engineering |

| Code | Department | Fields of specialization | Minimum Qualification |
|--------|------------------------|---------------------------------------|---|
| CLME01 | Mechanical Engineering | Industrial Engineering and Management | Bachelor's degree with 60% marks/CGPA of 6.5/10* in Mechanical Engineering/Aerospace Engineering/ Agricultural Engineering/ Automobile Engineering/ Material Science & Engineering/ Manufacturing Engineering/ Mechatronics/ Metallurgical Engineering/ Industrial Metallurgy/ Production Engineering/ Production & Industrial Engineering/ Production & Management/Textile Engineering & Fiber Science / Industrial Engineering. |
| CLME02 | | Thermal Sciences | Bachelor's degree with 60% marks/CGPA of 6.5/10* in Mechanical Engineering/Aerospace/ Aeronautical/ Automobile/ Energy/ Manufacturing/ Nuclear/ Production Engineering. |
| CLME03 | | Manufacturing Technology | Bachelor's degree with 60% marks/CGPA of 6.5/10* in Mechanical Engineering/ Automobile/ Manufacturing/ Material Science & Engineering/ Mechatronics/ Metallurgical/ Production Engineering/ Production & Industrial Engineering/ Production & Management. |
| CLME04 | | Energy Engineering & Management | Bachelor's degree with 60% marks/CGPA of 6.5/10* in Mechanical Engineering/ Chemical Engineering/ Aeronautical/ Aerospace/ Automobile/ Energy Engineering/ Nuclear Engineering/ Renewable Energy. |
| CLME05 | | Materials & Science & Technology | Bachelor's degree with 60% marks/CGPA of 6.5/10* in Mechanical Engineering/ Automobile/Material Science & Engineering/ Engineering Physics/ Manufacturing/ Mechatronics/ Metallurgical/ Industrial Metallurgy/ Nano Technology/ Production/ Production & Industrial Engineering/ Production & Management. |

(*) For SC/ST Candidates 55% marks or 6.0/10 CGPA will be sufficient for all specializations

20. National Institute of Technology Karnataka, Surathkal - SK

M.Tech. Programme :

Admission to M.Tech. Programme shall be open to Indian nationals who have passed the prescribed qualifying examination with a Cumulative Grade Point Average (CGPA) of at least 6.5 in the 0-10 scale grading system, OR not less than 60% marks in the aggregate (taking into account the marks scored in all the subjects of all the public/university examinations conducted during the entire prescribed period for the degree programme). However, this prescribed minimum shall be a CGPA of 6.0 OR 55% marks in the aggregate for SC/ST/PwD candidates.

| Code | Department | Fields of specialization | Minimum Qualification |
|--------|---------------------------------|---|---|
| SKAM01 | Applied Mechanics Hydraulics | Marine Structures | i) B.E./B.Tech.in Civil Engineering/B.Sc (Civil Engineering)/ B.E. Ocean Engineering ii) AMIE in Civil Engineering |
| SKAM02 | | Water Resources Engineering & Management | i) BE./BTech in Civil Engineering in (Civil Engineering) ii) AMIE in Civil Engineering/ B.E. Water Management |
| SKAM03 | | Remote Sensing & Geographic Information Systems | i) B.E./B.Tech. B.Sc.(Engineering in Civil, Mining, Environmental. Engineering, Transportation Engineering, Geo Informatics. ii) AMIE in Civil Engineering |
| SKCH01 | Chemical Engineering | Chemical Plant Design | i) B.E./ B.Tech in Chemical Engineering/Polymer Technology/ Ceramic and Cement Technology/Bio-Chemical Engineering/ Biotechnology/Petrochemical Engineering. I) AMIE (Chemical Engineering)/A.M.I.I.Chemical Engineering |
| SKCH02 | | Industrial Pollution Control | i) B.E./ B.Tech in Chemical Engineering/Mechanical / Mining Engineering/ Polymer Technology/ Ceramic and Cement Technology/ Environmental Engineering/ Bio-Chemical Engineering/ Biotechnology/ Petrochemical Engineering. ii) AMIE (Chemical Engineering)/A.M.I.I.Chemical Engineering |
| SKCH03 | | Industrial Biotechnology | i) B.E./B.Tech. in Biotechnology/ Chemical Engineering/ Biochemical Engineering. ii) M.Sc. in Biotechnology |
| SKCE01 | Civil Engineering | Structural Engineering | i) B.E./B.Tech./B.Sc. (Engineering) in Civil Engineering of any Recognized Indian Universities ii) AMIE in Civil Engineering. |
| SKCE02 | | Geotechnical Engineering | i) B.E./B.Tech./B.Sc. (Engineering) in Civil Engineering of any Recognized Indian Universities ii) AMIE in Civil Engineering. |
| SKCE03 | | Environmental Engineering | i) B.E./B.Tech./B.Sc. (Engineering) in Civil Engineering /Chemical/ Mechanical /Metallurgical/ Mining Engineering/ Environmental Engineering/Biochemical Engineering/ Biotechnology ii) AMIE in Civil Engineering/Chemical/Metallurgical/ Mechanical/Mining Engineering iii) M.Sc. in Industrial Chemistry/ Applied Chemistry/ Bio-Chemistry/ Biotechnology |
| SKCE04 | | Transportation Engineering | i) B.E./B.Tech./B.Sc.(Engineering) in Civil/Engineering/ Transportation Engineering of any Recognized Indian Universities ii) AMIE in Civil Eng. |
| SKCE05 | | Construction Technology & Management | i) B.E./B.Tech./B.Sc.(Engineering) in Civil or Mining Engineering of any recognized Indian University. ii) B.E./B.Tech./B.Sc.(Engineering) in Transportation Engineering/ Environmental Engineering/ Structural Engineering/ Construction Technology& Management of any recognized Indian University. iii) AMIE in Civil/ Mining Engineering iii) Bachelors' Degree in Architecture (B.Arch./B.E. or B.Tech. in Architecture of any recognized Indian University). |

| Code | Department | Fields of specialization | Minimum Qualification |
|--------|---|--|---|
| SKCS01 | Computer Engineering | Computer Science & Engineering | i) B.E./B.Tech. in Computer Science/ Engineering, Computer Science & Engineering, Information Science & Engineering /Technology, Information Science, Information Engineering & Information Technology |
| SKCS02 | | Computer Science & Engineering-Information Security* | ii) B.E./B.Tech. in Computer Science/ Engineering, Computer Science & Engineering, Information Science & Engineering /Technology, Information Science, Information Engineering & Information Technology |
| SKEE01 | Electrical & Electronics Engineering | Power and Energy Systems | B.E./ B.Tech./B.Sc (Engineering) in Electrical Engineering or Electrical & Electronics Engineering AMIE in Electrical Engineering |
| SKEC01 | Electronics & Communication Engineering | VLSI Design | i) B.E./B.Tech./B.Sc. (Engineering) in E&C, Electronics & Telecommunications/ Instrumentation Technology/ E&E/ Computer Science & Engineering/ Electronics & Control Engg. ii) AMIETE (Electronics & Telecommunication) |
| SKEC02 | | Communication Engineering | i) B.E./ B.Tech./ B.Sc.(Engineering) in E&C, Electronics & Telecommunications. ii) AMIETE (Electronics & Telecommunication). |
| SKMC01 | Mathematical & Computational Science | Computational Mathematics | B.E./B.Tech./B.Sc.(Engineering) any branch; M.Sc. (Mathematics), M.Sc. (Statistics), M.Sc. (Physics), MCA (Master of Computer Applications), M.Sc.(Computer Science/ Information Science/Information Technology, Electronics) |
| SKME01 | Mechanical Engineering | Thermal Engineering | B.E./B.Tech./AMIE) in Mechanical Engineering/ Automobile Engineering/ Aerospace Engg./Energy System Engg./Marine Technology/Power Plant Engg./Renewable Energy Engg. |
| SKME02 | | Manufacturing Engineering | B.E./B.Tech./AMIE) in Mechanical Engineering/ Industrial Engineering/Industrial & Production Engineering/ Industrial Engineering and Management/ Manufacturing Engineering/ Production Engineering Mechatronics/ Aeronautical Engineering, Auto-Mobile Engineering/Metallurgy/Tool Engg. |
| SKME03 | | Mechatronics Engineering | i) B.E./B.Tech./ AMIE in Mechanical Engineering/ Electronics & Communication Engineering/ Electrical & Electronics/ Mechatronics Industrial Production /Production Engineering/ Industrial Engineering/ /Instrumentation/ Aeronautical Engineering/ Automobile Engineering/ Manufacturing Engg. |
| SKME04 | | Design & Precision Engg. | B.E./B.Tech/AMIE in Mechanical Engg./Automobile Engg./Manufacturing Engg./Aeronautical Engg./ Aerospace Engg. |

| Code | Department | Fields of specialization | Minimum Qualification |
|--------|---------------------------------------|--------------------------|--|
| SKMT01 | Metallurgical & Materials Engineering | Process Metallurgy | 1-B.E./ B.Tech./ B.Sc. (Engineering) in Metallurgical Engineering /Industrial & Production Engineering/ Metallurgy/ Metallurgical & Materials Engineering Engineering/Metallurgical Engineering & Materials Science/Metallurgical & Materials Technology/Mechanical Engineering/ Chemical Engineering/Production Engineering. 2- AMIE in Metallurgical Engineering / Mechanical Engineering (by Examination) 3- Associate Member of the Indian Institute of Metals (by Examination) – A.M.I.I.M. 4-M.Sc. Chemistry (Physical/ Analytical/ Industrial/ Applied M.Sc. (Materials Science)/ Master Degree in Mineral Beneficiation/ Mineral Processing/Ore Dressing. |
| SKMT02 | | Materials Engineering | 1-B.E./ B.Tech./ B.Sc.(Engineering) in Metallurgy/ Mechanical Engineering/Chemical Engineering/ Industrial Production/ Polymer Technology/ Ceramic and Cement Technology/ Manufacturing Engineering / Industrial & Production Engineering/ Metallurgical & Materials Engineering/ Metallurgical Engineering/Metallurgical Engineering & Materials Science/Polymer Science & Technology/ Polymer Science & Rubber Technology/Metallurgy & Materials Technology /Production Engineering. 2-AMIE in Mechanical/Metallurgical Engineering by Examination. 3-AMIIM (by Examination) of Indian Institute of Metals. 4-M.Sc. (Materials Science/Physics (Solid State) |
| SKMT03 | | Nanotechnology | 1. M.Sc. in Physics, Chemistry, Material Science, Bio-Technology. 2. B.Tech/AMIE in Civil, Mechanical, E&E, E&C, Instrumentation, Chemical, Metallurgy, Mining Engg., Metallurgical & Materials Engineering. 3. Associate member of the Indian Institute of Metals (by examination) AMIM. |

21. National Institute of Technology Rourkela – RK

Minimum eligibility is B.E./ B. Tech. / M. Sc. or equivalent degree in the discipline as mentioned below with not less than 60% marks or 6.5 CGPA in the qualifying examination.

| Code | Department | Fields of specialization | Minimum Qualification |
|--------|---|-----------------------------------|--|
| RKCM01 | Ceramic Engineering | Ceramic Engineering | B.E. or B. Tech. (Ceramic/ Metallurgy/ Chemical) or M.Sc. (Physics/ Chemistry/ Material Science) with not less than 60% marks or 6.5 CGPA in the qualifying examination. |
| RKCH01 | Chemical Engineering | Chemical Engineering | B.E. or B. Tech. in Chemical/ Biochemical/ Biotechnology with not less than 60% marks or 6.5 CGPA in the qualifying examination. |
| RKCE01 | Civil Engineering | Structural Engineering; | Bachelor of Engineering in Civil Engineering with 60% marks in aggregate. |
| RKCE02 | | Soil Mechanics & Foundation Engg. | |
| RKCE03 | | Transformation Engineering | |
| RKCS01 | Computer Science & Engineering | Computer Science | BE, B. Tech. in Computer Science & Engineering / [Electronics / Electrical Engineering / IT or MCA or M.Sc. (Computer Science)] |
| RKCS02 | | Information Security | |
| RKEE01 | Electrical Engineering | Power Control & Drives | B.E. or B. Tech. In Electrical Engineering. |
| RKEC01 | Electronics & Communication Engineering | Telematics & Signal Processing | B.E. or B. Tech. in Electronics |
| RKEC02 | | VLSI Design & Embedded System | |
| RKME01 | Mechanical Engineering | Production Engineering | Bachelor Degree in Mechanical Engineering Or equivalent with 60% marks in aggregate. |
| RKME02 | | Machine Design Analysis | |
| RKME03 | | Thermal Engineering | |

22. National Institute of Technology Tiruchirappalli –TR

Minimum 60% marks in the qualifying examination for General Category and 55% for SC/ST candidates.

| Code | Department | Fields of Specialization | Minimum Qualification |
|--------|--------------------------------------|--|---|
| TRCE01 | Civil Engineering | Transportation Engineering & Management. | Bachelor's Degree in Civil/Highway/Transportation/ Engineering/ Transportation Urban Planning/ Civil & Transpiration Engineering/ Civil & Transpiration Technology |
| TRCE02 | | Structural Engineering. | Bachelor's Degree in Civil Engineering, Structural Engineering, Civil Engineering & Planning, Civil Technology. |
| TRCS01 | Computer Science & Engineering | Computer Science | Bachelor's Degree in Computer & Communication Engineering/Computer Engineering/ Computer Engineering & Application/Computer Networking/ Computer Science/ Computer Science and Engineering/ Computer Science & Information Technology/ Computer Science & Systems Engineering/Computer Science & Technology/Computer Technology/Computing in Computing/Computing in Multimedia/Computer in Software/Electrical & Computer Engineering/Information Engineering/ Information Science/Information Science & Engineering/Information Science & Technology/Information Technology/ Information Technology & Engineering./Electronics & Communication Engineering/ Electronics & Computer Engineering/Electronics & Electrical Communication Engineering/ Electronics & Information Systems/ Electronics & Telecom Engineering/ Electronics & Telematics Engineering |
| TREE01 | Electrical & Electronics Engineering | Power Systems | Electrical & Instrumentation Engineering/Electrical & Electronics Engineering/Electrical & Power Engineering/ Electrical and Computer Engineering/ Electrical and Electronics (Power Systems)/ Electrical & Mechanical Engineering/ Electrical Engineering/ Electrical Engineering & Industrial Control/ Electrical Engineering (Power)/Electrical Instrumentation & Control Engineering/ Electrical Power Engineering/ Control & Electrical Engineering / Electronics & Electrical Communication Engineering/ Electronics & Electrical Engineering/ Electronics & Power Engineering/ Power Control & Drives/ Power Electronics Power Engineering/ Power Electronics & Instrumentation Engineering |
| TRME01 | Mechanical Engineering | Thermal Power Engineering | Mechanical Engineering |
| TRME02 | | Industrial Safety Engineering | Mechanical Engineering /Production Engineering /Chemical Engineering / Electrical and Electronics Engineering / Civil Engineering/Electrical Engineering |
| TRMT01 | Metallurgical Engineering | Welding Engineering | Industrial Metallurgy, Materials Science & Engineering/ Material Science & Metallurgical Engineering/ Material Science & Technology/ Material & Metallurgical Engineering/ Metallurgical & Materials Engineering/ Metallurgical & Materials Technology/ Metallurgical Engineering & Materials Science Metallurgy, Metallurgy & Materials Technology/ Mechanical Engineering/ Aerospace Engineering/ Automobile Engineering/ Automotive Technology, Electrical and Mechanical Engineering, Industrial and Production Engineering/ Manufacturing Engineering/ Manufacturing Engineering & Automation / Manufacturing Process/ Manufacturing Science & Engineering, Manufacturing Technology/ Mechanical & Automation Engineering/ Mechanical Engineering(Design & Manufacturing)/ Mechanical Engineering (Repair and Maintenance)/ Mechanical Engineering Automobile/ Nuclear Engineering/ Nuclear Science & Technology/ Production & Industrial Engineering/ Production Engineering/ Production Engineering & Management/ Shipbuilding Engineering |

| Code | Department | Fields of specialization | Minimum Qualification |
|--------|---------------------------|---------------------------------------|---|
| TRMT02 | Metallurgical Engineering | Materials Science and Engineering | <p>Material Science & Engineering/ Industrial Metallurgy/ Material Science & Metallurgical Engineering/ Material Science & Technology/ Material & Metallurgical Engineering/ Metallurgical & Materials Engineering/ Metallurgical & Materials Technology/ Metallurgical Engineering/ Metallurgical Engineering & Material Science Metallurgy/ Metallurgy & Material Technology/ Mechanical Engineering/ Production Engineering/ Chemical Engineering (Plastic & Polymer)/ Ceramic Technology/ Ceramic Engineering & Technology/ Ceramic Engineering/ Ceramic and Glass Technology/ Cement and Ceramic Technology/ Mechatronics, Nano Technology/ Nuclear Engineering/ Nuclear Science & Technology/ Polymer Technology/ Polymer Science & Technology/ Polymer Science & Chemical Technology/ Polymer Engineering & Technology/ Polymer Engineering/ Plastics Technology/ Plastics Engineering/ Plastic & Industrial Engineering/ Rubber Technology/ Solar & Alternate Energy/ Surface Coating Technology/ Industrial and Production Engineering/ Industrial Engineering.</p> <p>M.Se. degree in Physics/ Chemistry/ Material Science/ Applied Science/ Applied Physics/ Applied Chemistry/ Engineering Physics</p> |
| TRPE01 | Production Engineering | Manufacturing Technology | <p>Automobile Engineering/ Industrial & Production Engineering/ Industrial Manufacture Engineering/ Manufacturing Engineering/ Manufacturing Engineering & Automation/ Manufacturing Process/ Manufacturing Process & Automation Engineering/Manufacturing Science & Engineering/Manufacturing Technology/ Mechanical & Automation Engineering/ Mechanical Engineering/ Mechanical Engineering (Design & Mechatronics)/ Production & Industrial Engineering/ Production Engineering/ Production Engineering & Management</p> |
| TRPE02 | | Industrial Engineering and Management | <p>Automobile Engineering/ Automotive Engineering/ Automotive Technology/ Industrial & Management Engineering / Industrial & Production Engineering / Industrial Engineering/ Industrial Management / Industrial Engineering & Management/ Industrial Manufacturing Engineering/ Manufacturing Engineering / Manufacturing Engineering & Automation/ Manufacturing Process/ Manufacturing Process & Automation Engineering Manufacturing Science & Engineering/ Manufacturing Technology/ Mechanical & Automation Engineering/ Mechanical Engineering/ Mechatronics/ Production & Industrial Engineering/ Production Engineering/ Production Engineering & Management</p> |

23. National Institute of Technology Warangal - WR

Minimum Eligibility: First class Bachelor degree in Engineering with a minimum of 60% marks in aggregate. In case of SC/ST candidates, the minimum aggregate marks is 55%.

| Code | Department | Fields of specialization | Minimum Qualification |
|--------|---|--|--|
| WRCE01 | Civil Engineering | Engineering Structures | B.E./B.Tech. in Civil Engineering or equivalent |
| WRCE02 | | Geotechnical Engineering | B.E./B.Tech. in Civil Engineering or equivalent |
| WRCE03 | | Transportation Engineering | B.E./B.Tech. in Civil Engineering/ B.Arch. or equivalent |
| WRCE04 | | Water Resources Engineering | B.E./B.Tech. in Civil Engineering/Agricultural Engineering or equivalent |
| WRCE05 | | Remote Sensing & GIS | B.E./B.Tech. in Civil Engineering/ B.Arch. or equivalent |
| WRCE06 | | Environmental Engineering | B.E./B.Tech. in Civil Engineering or M.Tech. Engg., Bio-Technology, Chemical Engg. Or equivalent |
| WRCE07 | | Construction Technology & Management | B.E./B.Tech. in Civil Engineering/ Construction Technology Management or equivalent. |
| WREC01 | Electronics & Communication Engineering | Electronic Instrumentation. | B.E./B.Tech. in ECE, E&I, EEE. |
| WREC02 | | VLSI System Design. | B.E./B.Tech. in ECE, CSE. |
| WREE01 | Electrical Engineering | Power Systems Engineering Power Electronics & Drives Engineering | B.E./B.Tech. in Electrical/IEEE. |
| WRME01 | Mechanical Engineering | Thermal Engineering. | B.E./B.Tech. in Mechanical |
| | | Manufacturing Systems Engineering | B.E./B.Tech. in Mechanical/Production/ Mechatronics/Industrial Engineering. |

24. PSG College of Technology, Coimbatore - PS

| Code | Department | Fields of specialization | Minimum Qualification |
|--------|--------------------------------------|-----------------------------------|--|
| PSCS01 | Computer Science & Engineering | Computer Science & Engg. | BE/B.Tech – ECE/IT/CSE/ Software Engineering. (OR) MSc (2 Years/5 Years) Software/ IT/CS/(OR) MCA |
| PSEE01 | Electrical & Electronics Engineering | Applied Electronics | BE/B.Tech - EEE/ECE/EI/IC/Instrumentation/ Electronics/Bio- Medical/Bio Medical Instrumentation/Medical Electronics |
| PSEE02 | | Control Systems | BE/B.Tech – EE/ECE/EI/Instrumentation/IC/ Electronics |
| PSEE03 | | Power Electronics & Drives | BE/B.Tech - EEE/ECE/EI/Instrumentation/IC/ Electronics |
| PSME01 | Mechanical Engineering | Engineering Design | BE/B.Tech – Mechanical/Production/Auto/ Manufacturing/Industrial Engg./ Mechatronics/ Marine. |
| PSME02 | | Industrial Engineering. | BE/B.Tech – Industrial/Mechanical/Production/ Manufacturing/Mining/Printing/Aeronautical/Metallurgical/M SE/Mechatronics/Automobile. |
| PSME03 | | Computer Integrated Manufacturing | BE/B.Tech - Mechanical/Production/ Auto/ Manufacturing/ Metallurgy/Industrial Engg./ CIM/Mechtronics/Material Science |

| Code | Department | Fields of specialization | Minimum Qualification |
|--------|------------------------|---------------------------|--|
| PSPE01 | Production Engineering | Production Engineering | BE/B.Tech – Mechanical/Production/Auto/ Manufacturing/Metallurgy./Industrial Engg. /Mechatronics/ Material Science |
| PSPE02 | | Product Design & Commerce | BE/B.Tech - Mechanical/Production/Auto/ Manufacturing/ Industrial Engg./ Mechatronics |
| PSPE03 | | Energy Engineering | BE/B.Tech – Mechanical/Chemical Engg./Energy & Engg./Energy & Environmental/Mechanical Energy. |
| PSTX01 | Textile Technology | Textile Technology | BE/B.Tech – Textile Technology / Textile Chemistry/Apparel Technology/Fashion Technology (Textile Technology) |

25. Shri G.S. Institute of Technology and Science, Indore – GS

| Code | Department | Fields of specialization | Minimum Qualification |
|--------|------------------------|--|--|
| GSEE01 | Electrical Engineering | Power Electronics, Digital Techniques and Instrumentation. | Degree in the appropriate branch of Engineering. |

26. Sri Jayachamrajendra College of Engineering, Mysore - SJ

Minimum eligibility is a Bachelor's Degree with minimum of 50% marks in Aggregate fall the years of the degree Examinations (or equivalent grade Point average) in the relevant field.

| Code | Department | Fields of specialization | Minimum Qualification |
|--------|-------------------------------|---|--|
| SJCE01 | Civil Engineering | Industrial Structures | Bachelor's Degree in Civil Engineering./ Construction Technology & Management |
| SJIL01 | Electronics and Communication | Industrial Electronics | Bachelor's Degree in Electronics & Communication/ Electronics and Instrumentation Engineering / Instrumentation Technology/ Electronics and Telecommunications / Telecommunication / Electrical & Electronics/ Bio-Medical Engineering / Medical Electronics. |
| SJIN01 | Instrumentation Technology | Bio-medical Signal Processing & Instrumentation | Bachelor's Degree in Computer Science and Engineering/ Information Science & Engineering / Telecommunication Engineering / Bio-Medical Engineering/ Medical Electronics/ Instrumentation Engineering / Electronics and Communication Engineering/ Electronics Instrumentation Engineering/ Electrical and Electronics Engineering. |
| SJME01 | Mechanical Engineering | Maintenance Engineering | Bachelor's Degree in Mechanical Engineering/ Industrial & Production Engineering / Automobile Engineering / Industrial & Manufacturing Engineering / Industrial Engineering & Management / Mining Engineering. |

27. University Visveswaraya College of Engineering, Bangaluru - UV

| Code | Department | Fields of specialization | Minimum Qualification |
|-------------|-------------------|--|---|
| UVCE01 | Civil Engineering | Structural Engineering, Geotechnical Engineering, Environmental Engineering, Construction Technology; Highway Engineering, Water Resources Engineering, Pre-stressed Concrete. & Earthquake Engineering. | Degree in Civil Engineering with minimum 60% marks. |

28. Visvesvaraya National Institute of Technology, Nagpur - VR

| Code | Department | Fields of specialization | Minimum Qualification |
|-------------|------------------------|---------------------------------|---|
| VRCE01 | Civil Engineering | Environmental Engineering | B.E./B.Tech. in Civil Engineering./ Environmental Engineering. |
| VREE01 | Electrical Engineering | Power System | B.E. / B.Tech. degree in Electrical Engineering / Power Electronics / Electronics and Power / Electrical and Electronics Engineering. |

QUALITY IMPROVEMENT PROGRAMME

Application for Admission to Master Degree Programme 2017-2018

Copy to the Principal Coordinator

| | | |
|---|-------------------------------|---------------------------|
| Specimen Application and NOT to be used for filling application | | Stamp Size Photo |
| 1. Application Number | : | |
| 2. Name | : | |
| 3. Designation | : | |
| 4. Department | : | |
| 5. College Address | : | |
| 6. Contact Address | : | |
| 7. Phone (Office) | : | 8. Mobile : |
| 9. Phone (Residence) | : | 10. Email : |
| 11. Date of Birth | : | 12. Gender: |
| 13. Category | : | 14. Married: |
| 15. Physically Disabled | : | Yes/No |
| 16. UG Degree | : | |
| Year | : | University : |
| Class/Division | : | Overall Percentage/CGPA : |
| 17. Teaching Experience as on September 30, 2016 (Friday) | : | |
| 18. Industrial/Research Experience as on September 30, 2016 (Friday) | : | |
| 19. Number of QIP/ISTE/AICTE/IMPACT Courses Attended | | |
| a) 4 to 7 days Duration: | b) Two weeks Duration: | c) More than 2 weeks: |
| 20. Number of Research Papers: | | |
| a) In Refereed journals: | b) In Conference Proceedings: | |

21. Institutions and Departments to which Admissions are sought

| | Name of the Institute | Choice of Specialization | |
|--------------|-----------------------|--------------------------|---------------|
| | | First Choice | Second Choice |
| Preference 1 | | | |
| Preference 2 | | | |
| Preference 3 | | | |

22. Academic Data (Examination Passed B.E/B.Tech/B.Arch/B.Sc(Engineering)/Equivalent)

| Semester/Year | University | Year | Specialization | Class | Marks Obtained | Percentage | GPA |
|---------------|------------|------|----------------|-------|----------------|------------|-----|
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23. Any other Qualification

| Degree | University | Year | Specialization | Class | Marks Obtained | Percentage | GPA |
|--------|------------|------|----------------|-------|----------------|------------|-----|
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| | | | | | | | |

24. Teaching Experience at Degree Level Engineering Institute as on September 30, 2016 (Friday)

| S.No | Name and Address of Employer & Institution | From (Date) | To (Date) | Years-Months | Designation |
|------|--|-------------|-----------|--------------|-------------|
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25. Industrial/Research Experience as on September 30, 2016 (Friday)

| S.No | Name of the Organisation | From (Date) | To (Date) | Years-Months | Designation |
|------|--------------------------|-------------|-----------|--------------|-------------|
| | | | | | |
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26. Short Term Courses

| S.No | Name of the Course & Category | Organizer | Days | From | To |
|------|-------------------------------|-----------|------|------|----|
| | | | | | |
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27. Research Papers/Books

| S.No | Title of Paper/Book | Name of Author(s) | Name of Journal/Conference | Year | Vol. | Pages |
|------|---------------------|-------------------|----------------------------|------|------|-------|
| | | | | | | |
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Declaration

- a. I declare that all the information given by me in this application form is correct to the best of my knowledge and belief, and I understand that false or incomplete information would cause invalidation of the application.
- b. I shall abide by the decision of the National QIP Coordination Committee in all matters pertaining to admissions. The decision of the Committee shall be final and binding on me.
- c. I shall abide by the rules and regulations of the Institutions to which I will be offered admission, if selected.
- d. For all legal actions, suits and proceedings, the jurisdiction of a court of law shall be deemed to lie exclusively at the place at which the Institution considering me for admission is situated or the place where the office of the Principal Coordinator QIP is located.
- e. I understand the contents of this form and, particularly, this declaration being made here.

Place:
Date :

Signature of the Applicant

Certificate and Forwarding Note by the Principal/Head of the Institution

- a) Our Institution as well as the academic department, to which the applicant
Mr/Ms-----
belongs, is approved by AICTE (Not applicable, if the candidate belongs to a National Institute of Technology (NITs) and National Institute of Technical Teacher's Training & Research (NITTTR).
- b) The applicant is a full-time regular / permanent faculty member of our Institution and is not on deputation to any other Institution.
- c) The applicant has a total of ___ years and ___ months of teaching experience as on **September 30, 2016 (Friday)** at the under-graduate level, as full-time, regular/permanent faculty of AICTE approved Degree level Engineering Institutions (Certificates enclosed).
- d) The applicant will be relieved full-time for the programme on deputation and will be paid full salary and allowances during the tenure of his/her sponsorship, if selected for admission.

Office Seal:

**Signature of Principal or Head of Institution
(with full contact details)**

Date:

Note:

- Conditional Recommendation will not be accepted.
- This Forwarding Note should be signed only by the Principal or the Head of the Institution.
- Any alteration made in the text of this Forwarding Note leads to automatic rejection of the application. Please attach separate experience certificate.
- Please attach a photocopy & the draft.

For any further details please contact the zonal QIP coordinators at address indicated below:



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