INFORMATION BROCHURE

सूचना विवरणिका

Admission to

M.Tech. (VLSI)

For

Industry Professionals

2024-25

भारतीय प्रौद्योगिकी संस्थान रुड़की

रुड़की -247667 (उत्तराखंड)

INDIAN INSTITUTE OF TECHNOLOGY

ROORKEE

ROORKEE – 247667 (UTTARAKHAND)

CONTENTS

1 POSTGRADUATE PROGRAMMES

1.1 Introduction to Postgraduate Academic Programmes leading to M.Tech./ M.Arch./ M.U.R.P.

The postgraduate programmes in Engineering and Architecture include 49 full-time specialized programmes leading to M.Tech. / M.Arch. / M.U.R.P. degrees. In addition, the departments of Hydrology and Water Resources Development and Management, also offer PG Diploma programmes.

The Department of Electronics and Communication Engineering offers M.Tech. in VLSI for Industry Professionals. The curriculum structure of this programme is given on the website:

http://ece.iitr.ac.in/mtech-vlsi-industry-professionals/wp-content/uploads/2022/04/Course-Curriculum.pdf

The duration of this programme is six semesters for the Industry Professionals.

2 IMPORTANT DATES

Last date for submission of application
April 15, 2024 (Monday) till 05:00 p.m.

Academic Registration
July 11, 2024 (Thursday)

Commencement of Classes
July 16, 2024 (Tuesday)

3 ELIGIBILITY REQUIREMENTS FOR ADMISSION TO M.Tech. (VLSI) FOR INDUSTRY PROFESSIONALS PROGRAMME

Candidates who possess the minimum educational qualification i.e B.Tech. (ECE/EE/EI) or equivalent, M.Sc. (Physics/Electronics) are eligible to seek admission to this programme. All the applicants applying for the programme must have secured at least 60 % marks or CGPA of 6.00 on a 10 point scale at the qualifying degree level. The marks awarded for the qualifying degree will be considered for eligibility.

In case of CGPA awarded on different point scale, Table-1 as approved by the Senate of the Institute will be considered for deciding eligibility.

Table-1

Conversion between Grade Point Average and Marks for the Purpose of Eligibility Check

10 point scale		9 point scale		8 point scale		7 point scale		6 point scale		5 point scale		4 point scale	
CGPA	% Marks	CGPA	% Marks	CGPA	% Marks	CGPA	% Marks	CGPA	% Marks	CGPA	% Marks	CGPA	% Marks
4	40	3.6	40	3.2	40	2.8	40	2.4	40	2	40	1.6	40
4.5	45	4.05	45	3.6	45	3.15	45	2.7	45	2.25	45	1.8	45
5	50	4.5	50	4	50	3.5	50	3	50	2.5	50	2	50
5.5	55	4.95	55	4.4	55	3.85	55	3.3	55	2.75	55	2.2	55
6	60	5.4	60	4.8	60	4.2	60	3.6	60	3	60	2.4	60
6.5	65	5.85	65	5.2	65	4.55	65	3.9	65	3.25	65	2.6	65
7	70	6.3	70	5.6	70	4.9	70	4.2	70	3.5	70	2.8	70
7.5	75	6.75	75	6	75	5.25	75	4.5	75	3.75	75	3	75
8	80	7.2	80	6.4	80	5.6	80	4.8	80	4	80	3.2	80
8.5	85	7.65	85	6.8	85	5.95	85	5.1	85	4.25	85	3.4	85
9	90	8.1	90	7.2	90	6.3	90	5.4	90	4.5	90	3.6	90
9.5	95	8.55	95	7.6	95	6.65	95	5.7	95	4.75	95	3.8	95
10	100	9	100	8	100	7	100	6	100	5	100	4	100

3.1 Candidates from Industry

a) Candidates must satisfy the minimum educational qualification i.e B.Tech (Electronics and Comm. Engg/Electrical Engg/Electronics and Inst. Engg/Electrical and Inst Engg.) or equivalent, M.Sc (Physics/Electronics).

b) Candidates must have secured at least 60 % marks or CGPA of 6.00 on a 10-point scale at the qualifying degree level (Please refer to Table-1).

c) Admission is open to all age groups.

d) Candidates must have **at least two years of relevant experience in industry and/or research labs on the last date of the submission of application**. Work experience before the qualifying degree will not be counted. He/She must be currently a working professional.

e) Candidates **with or without GATE** are eligible to apply for this programme.

f) Candidate should submit the experience certificate and letter of employment from current employer (Annexure 1) as attached in the application form. The experience certificate should have the proof for the duration as certified by the employer.

More details are available at:

http://ece.iitr.ac.in/mtech-vlsi-industry-professionals/

About iHUB DivyaSampark

iHUB DivyaSampark aims to enable innovative ecosystems in new-age technologies like AI, ML, Drones, Robots, and data analytics (often called CPS technologies) and become the source for the next generation of digital technologies, products, and services by promoting, enhancing core competencies, capacity building, manpower training to provide solutions for national strategic sectors and becoming a key contributor to Digital India. iHUB DivyaSampark, a section 8 company (Non-Government Organization), is a Technology Innovation Hub, at IIT Roorkee and was set up under the National Mission on Interdisciplinary Cyber-Physical Systems (NM-ICPS), initiated by the Department of Science & Technology (DST) to build innovative solutions, to train manpower and encourage entrepreneurship for the world's current challenges like affordable Health care, Industry 4.0 and sustainable Smart cities and Defense. iHUB serves as catalysts for innovation, fostering an environment where entrepreneurs, researchers, and inventors can collaborate, experiment, and develop groundbreaking solutions.

TIH will provide a top-up fellowship to start-up personal who will enroll in this program based on merit. To know more, please drop an email to vlsi-mtech@ece.iitr.ac.in.

Joining iHUB DivyaSampark not only opens doors to top-notch mentorship but also grants access to valuable resources and a dynamic platform, empowering the next generation of tech trailblazers. Explore the possibilities and chart your course for success with iHUB DivyaSampark. For more details, please visit: https://tih.iitr.ac.in/

3.2 Candidates from MSME/Startup

Refer 3.1 for eligibility

Additional Eligibility:

a) The startup must be three years old on the last date of receiving applications

b) The candidate must be a working professional in the startup while applying for the program

c) Proof of company registration: A copy of the company registration certificate or relevant documentation confirming the startup industry's legal existence.

4 ADMISSION PROCEDURE

4.1 Introduction

Admission to the M.Tech. (VLSI) for Industry Professional programme for the academic session 2024-25 of the Institute is open to all Indian candidates.

All the candidates seeking admission to the programme will have to fill the application form attached correctly in all respect. The responsibility for filling it up correctly lies with the applicant.

4.2 General Information

(a) Data once filled-in in the Application Form shall not be changed/corrected/modified for any reason after submission of application.

(b) All the academic rules and regulations of the Institute shall be applicable to the candidates after registration/admission.

(c) The Institute reserves the right not to run the programme, if the number of students in the programme is less than the minimum number specified by the Institute at the time of admission.

(d) The Institute reserves the right to change its statutes and regulations relating to academic programmes and the modalities of admission without prior notice.
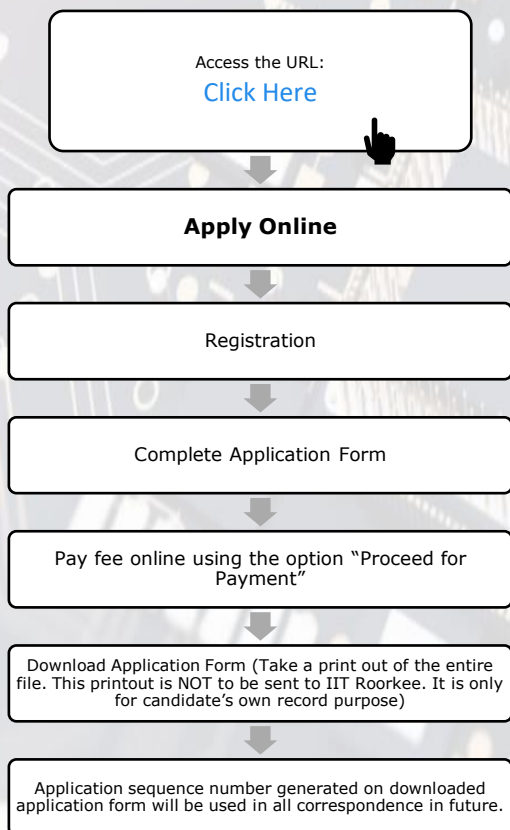
(e) In matters of interpretation of the provisions or any matter not covered herein this Information Brochure, the decision of the Chairman, Senate IIT Roorkee shall be final and binding on both the parties.

4.3 Online Application Submission Process

4.3.1 How to Apply

Before applying, candidates are advised to read the "Information Brochure of M.Tech. VLSI for Industry Professionals Admission 2024-25" carefully.

The candidates must follow the following steps while applying online:

```
┌─────────────────────────────────┐
│         Access the URL:         │
│           Click Here            │
│                      👆          │
└─────────────────────────────────┘
                ↓
┌─────────────────────────────────┐
│         Apply Online            │
└─────────────────────────────────┘
                ↓
┌─────────────────────────────────┐
│         Registration            │
└─────────────────────────────────┘
                ↓
┌─────────────────────────────────┐
│     Complete Application Form   │
└─────────────────────────────────┘
                ↓
┌─────────────────────────────────┐
│ Pay fee online using the option │
│     "Proceed for Payment"       │
└─────────────────────────────────┘
                ↓
┌─────────────────────────────────┐
│ Download Application Form (Take │
│ a print out of the entire file. │
│ This printout is NOT to be sent │
│ to IIT Roorkee. It is only for  │
│ candidate's own record purpose) │
└─────────────────────────────────┘
                ↓
┌─────────────────────────────────┐
│ Application sequence number     │
│ generated on downloaded         │
│ application form will be used   │
│ in all correspondence in future.│
└─────────────────────────────────┘
```

Note: The admission process will be governed by the rules and regulations of IIT Roorkee.

4.3.2 Documents to be Uploaded

- Applicant Photo
- Applicant Signature
- UG/PG all Semesters/Year Marksheets
- UG/PG Degree/Provisional Certificate
- 10 + 2 level certificate/marksheet, if applicable
  (10 + 2 Marksheet)
- Class 10 marksheet/certificate for Date of Birth
- Details of Papers/Patents disclosures, if any

- Letter of employment from current employer (Annexure 1), Work Experience Certificate.
- Proof of company registration: A copy of the company registration certificate or relevant documentation confirming the startup industry's legal existence.
- In case of non-availability of any of the certificate, upload an undertaking as given in Annexure-2.

4.3.3 Application Fee (Non - Refundable)

- **For all candidates: Rs. 1000/-**
- Application fee can be paid through online mode only.
- Additional charges will be applicable as per the rule of the concerned bank.
- ***The Fee will not be accepted through any other mode.***

5   SELECTION AND ADMISSION

5.1 Basis of Selection for Admission

5.1.1. Entrance Test

📅 **May 05, 2024**

📍 **Bangalore, Noida and Hyderabad**

⏱ **Duration of Exam: 1.5 hrs**

😊 **There is no negative marking**

📚 **Syllabus:**

http://ece.iitr.ac.in/mtech-vlsi-industry-professionals/wp-content/uploads/2023/02/Entrance-Exam-Syllabus.pdf

5.1.2. Online Interview

The candidates will be called for the online Interview for final selection on the basis of their results of the entrance test exam by the program implementation committee.

5.2 Offer of Admission for the candidates

Offer letter to the candidates shall be issued by IIT Roorkee.

5.3 Fee Structure

Total Programme fee is INR 6.5 Lakhs. Fees can be paid semester wise. Fees once paid will not be refunded.

5.4 Academic Registration

A system of registration is followed for all the students joining the Institute. The selected candidates will have to register themselves online on the date and time to be intimated to them. Regular classes will start as per the time schedule declared by the Institute.

5.5 Documents at the Time of Registration

- The letter from the Institute offering admission.

- UG/PG all Semesters/Year Marksheets

- UG/PG Degree/Provisional Certificate

- 10 + 2 level certificate/marksheet, if applicable (10 + 2 Marksheet)

- Class 10 marksheet/certificate for Date of Birth

- Details of Papers/Patents disclosures, if any

- Letter of employment from current employer (Annexure 1), Work Experience Certificate.

- Proof of company registration: A copy of the company registration certificate or relevant documentation confirming the startup industry's legal existence.

5.6 Cancellation of Admission/Programme

The Institute reserves the right to cancel, at any stage, the admission of a candidate admitted to a programme and is later found that he/she is not entitled, being unqualified or ineligible in accordance with the Regulations in vogue, or suspension/termination of programme. In case of cancellation/withdrawn of admission after registration from programme, refund of fee will not be permissible.

6 MATTERS OF DISPUTE

Disputes, if any, arising out of or relating to any matter whatsoever shall be subject to the exclusive jurisdiction of the Roorkee Courts.

7 RAGGING

Ragging is banned in the Institute and anyone indulging in ragging is likely to be punished appropriately and the punishment may include expulsion from the institution, suspension from the institution or classes for a limited period, or fine with a public apology. The punishment may also take the shape of: (i) withholding of scholarships or other benefits, (ii) debarring from representation in events, (iii) withholding of results, (iv)suspension, rustication or expulsion from hostel or mess, (v) monetary fine etc.

1. The candidates are advised to read each and every instruction given in this Information Brochure very carefully before applying.

2. All entries should be carefully made while filling the application form. IIT Roorkee will not be responsible for wrong entries. Candidates shall be solely responsible for the eligibility, correctness and authenticity of the information / documents provided in the application.

3. Online application submitted by the candidates shall be considered final and binding. Requests for making correction/modification/change in the online application shall not be entertained.

4. The Institute reserves the right to verify the antecedents or documents submitted by the candidate at any time during their period of study. In case it is found that the documents submitted by the candidate are not genuine, then his/her admission shall be terminated, and disciplinary / criminal proceedings will be initiated

5. No request shall be entertained for accepting the application after the last date. IIT Roorkee will not be responsible for technical error while making the online application / payment of fee.

   Therefore, candidates are advised to submit their application well in advance and not to wait for the last moment.

6. Applications will be scrutinized, relevant documents checked / verified for their authenticity. Candidates are requested to check the information sent by the institute and do the needful, if required. The institute shall not hold the responsibility for the failure of the candidates in timely checking the e-mails/doing the needful. All the candidates are requested to mention their operational e-mail ids and contact numbers in the application form.

7. **Application Fee for all the applicants is Rs. 1000 (non-refundable)**. The candidates can deposit the requisite application fee by using net banking or debit/credit card facilities. **The Fee will not be accepted through any other mode.**

8. **Data once given shall not be changed at any stage for any reason after submission of application form.**

9. After submitting the Application, all admission related enquiries may be made to the Department of Electronics and Communication Engineering, IIT Roorkee only.

a) Subject of the E-mail should be: '**M.Tech. (VLSI) for Industry Professional**'.

b) Text matter of the E-mail should consist: (a) Application No. (b) Registered Email-ID (c) Name of the applicant (d) Details of query.

10. All the mandatory documents mentioned in 5.5 including final results/provisional degree should be submitted at the time of online Admission Registration or on the last date mentioned for the same in the academic calendar of the Autumn Semester 2024-25. Information to this effect will be available in the IIT Roorkee website. Failure to produce these documents will lead to cancellation of admission without any further notice.

For further information, please contact:

For Application Portal related queries

For Eligibility criteria / Admission Process/ Program related specific queries

Academic Affairs Office (Admission)	Department of Electronics and Communication Engg.	Only if reply is not received through email within one working day at: (01332) 286415.
Indian Institute of Technology Roorkee	Indian Institute of Technology Roorkee,	
Roorkee-247 667, Uttarakhand, INDIA	ROORKEE-247 667 (Uttarakhand)	Time for contact on Phone 10:00 a.m. -1:00 p.m. / 2:00 p.m. – 5:00 p.m.
E-mail: pgadm@iitr.ac.in	Website : www.iitr.ac.in and http://ece.iitr.ac.in/mtech-vlsi-industry-professionals/	
Website: https://www.iitr.ac.in	For queries, please go through the FAQ. For queries out of FAQ, candidates are advised to contact through email at	
	vlsi-mtech@ece.iitr.ac.in	

"IIT Roorkee is committed to nurture and promote diversity and inclusion".

(Company Letterhead of Current Employer)

Admission to M. Tech. (VLSI) for Industry Professionals

To: Date:

Dean, Academic Affairs
IIT Roorkee

This is to certify that _____(Name in Full) is working in our company as _____(Designation) from __/__/____(DDMMYYYY) till the present date. This letter is issued as part of his/her application to the M.Tech. (VLSI) program for Industry Professionals, Indian Institute of Technology Roorkee.

Authorised Signatory

Undertaking by the applicants for submission of the required certificates towards admission to M. Tech. (VLSI) for Industry Professionals Programme 2024-25

I…………………………………………...............S/o/D/o…………..……………………………………………

R/o (address) .... want to apply to pursue my study in M.Tech. (VLSI) for Industry Professionals programme at IIT Roorkee.

In view of the above, I hereby submit my undertaking that I will submit the required certificate(s) (Name of the certificate(s)):

1.   ……………………………………………………………………………………………………
2.   ……………………………………………………………………………………………………
3.   ……………………………………………………………………………………………………

at the time of registration given by IIT Roorkee. In case, I fail to submit the required certificate(s) within the due date or found ineligible or information/certificate found incorrect/false at any stage then the Institute reserves the right to cancel my admission offer and registration.

Signature of the Applicant:

…………………………………..................

Name of Applicant: ………………………………………………..

Email: ………………………………………………………………