



GUJARAT TECHNOLOGICAL UNIVERSITY

(Established by Government of Gujarat under Gujarat Act No.:20 of 2007)

ગુજરાત ટેકનોલોજીકલ યુનિવર્સિટી

(ગુજરાત સરકારના ગુજરાત અધિનિયમ ક્રમાંક : ૨૦/૨૦૦૭ દ્વારા સ્થાપિત)

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GTU/Academic/ Minor/Hons. Policy /2025/ 63

Date: 03/01/2025

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GUJARAT TECHNOLOGICAL UNIVERSITY

Comprehensive Policy

for

**‘Institute offered Minor/Hons.
Programs’ and ‘University offered
Industry-led Minor/Hons. Programs’ for
Undergraduate Engineering Students of
GTU**

w.e.f. Academic Year 2024-25



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1. Preamble:

The National Education Policy (NEP) 2020 places a strong emphasis on skill development as an integral part of a student's education, aiming to prepare them for the dynamic challenges of the 21st century. The policy stresses the importance of equipping students with practical skills, in addition to academic knowledge, to help them succeed in a rapidly evolving global economy shaped by digital transformation and technological advancements. Gujarat Technological University (GTU) has been at the forefront of adapting to these emerging trends, particularly in response to the demands of Industry 4.0. Recognizing the importance of a skilled workforce in the age of automation, artificial intelligence, and data-driven technologies, GTU has proactively redefined its educational strategies. By fostering collaborations with industries and research institutions, GTU strengthens academic and research excellence by creating a robust platform for industry-academia networking. This collaborative approach ensures that both students and faculty stay aligned with the latest developments in technology and industrial practices.

GTU intends to align its curriculum as per industry requirements to promote interdisciplinary research and to encourage industry partnerships with the following objectives -

2. Objectives:

2.1 Enhance Industry-Academia Collaboration: To foster meaningful partnerships with industry leaders to align academic programs with current market trends ensuring that students acquire practical skills and real-world insights relevant to their career paths.

2.2 Bridge the Skill Gap: To equip students with industry-relevant technical and soft skills through internships, skill-based training and industry-led courses helping them meet the evolving demands of employers.

2.3 Promote Hands-on Learning: To provide students with experiential learning opportunities and allow them to apply theoretical knowledge to real-world projects thus improving their problem-solving abilities and decision-making skills.

2.4 Increase Employability: To enhance the employability of graduates by offering industry-validated certifications, Minor / Hons. Programs that reflect their competence in specific domains giving them a competitive edge in the job market.

2.5 Flexible Learning Pathways: To offer short-term credit and elective courses in hybrid mode to ensure flexible, accessible learning opportunities and allowing students to upskill at their own pace while balancing academic and professional commitments.

3. Guidelines regarding the Nomenclature of Minor/ Hons. Degree:

3.1 All branches of Engineering and Technology may offer Minor/Hons. in the Emerging/ Multidisciplinary/ Region Specific Areas as specified in **Annexure-11.4** of the Approval Process Handbook (APH 2024-27 and onwards) along with other nomenclature approved by the University.

3.2 Undergraduate Degree Subjects in Emerging / Multidisciplinary/ Region Specific Areas shall be allowed as specialization from the same department. The minimum additional Credits for such areas shall be in the range of 18-20 (including credit transferred from the SWAYAM platform) and the same shall be mentioned in the degree certificate, as specialization in that particular area. For example, doing extra credits for Cyber Security in Computer Science and



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Engineering shall earn **B.E./B.Tech. (Hons.) Computer Science and Engineering with specialization in Cyber Security.**

3.3 Minor specialization may be allowed in any Undergraduate Degree Courses where a student of another Department shall take the minimum additional Credits in the range of 18-20 and get a degree with a minor from another Department. For example, doing extra credits for Cyber Security by Mechanical Engineering student shall earn **BE Mechanical Engineering with a minor degree in Cyber Security.**

4. Timeline for Minor / Hons. Program:

Every year Institutes / Industry Partners should apply for any new Minor / Hons. Program in the prescribed format of the University with all supporting documents along with fees at the time of filling details in GTU Affiliation portal.

5. Eligibility for the Registration of Students

- A student must have a valid enrolment number of GTU.
- During the tenure of study, the student will be eligible to enroll only once for Minor / Hons. Degree (*Students can't opt for both 'Institute offered Minor/ Hons. Programs' and 'University offered Industry-led Minor/Hons. Programs'*).

6. Eligibility to award the Minor / Hons. along with 'Bachelor of Engineering' degree:

- A student who successfully earned the requisite credits at the end of the BE program and eligible to receive the 'Bachelor of Engineering' degree as per university norms and completed all academic requirements for the Minor/ Hons. Program is eligible to receive the 'Bachelor of Engineering' degree with Minor/ Hons. (as applicable).
- However, in various possible situations as mentioned below, norms will be applicable cited against it.

Sr. No.	Possible situation	Norms
1.	A student fulfilled all academic requirement of the Bachelor of Engineering degree but failed to earn required credits (18-20 Credits) to complete the Minor/ Hons. Program.	Option 1: Eligible to get only Bachelor of Engineering degree in regular convocation (without Minor/ Hons.). Option 2: Can opt to receive the undergraduate degree during the mid-year conferment if he/she cleared all pending academic requirements of the minor course. Failing to it, he /she is eligible to receive an undergraduate degree only during mid-year conferment and no further chance will be given.
2.	A student having backlog/s pending in Bachelor of Engineering Program but cleared all the Minor/ Hons. Program requirements.	Eligible to get Bachelor of Engineering degree with Minor/ Hons. Program only after the completion of the Bachelor of Engineering Program requirement within the duration of valid Enrollment number.



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(A) Institute offered Minor/Hons. Programs

7. Guidelines for Institute offered Minor/ Hons. Programs

7.1 Eligibility for the Institution

- a. AICTE approved and affiliated/managed by the Gujarat Technological University with valid NAAC accreditation or at least one NBA accredited program or under 100 NIRF ranking.

OR

- a. AICTE approved and affiliated /managed by the Gujarat Technological University having a current academic year AICTE –Extension of approval with no deficiency.

AND

- b. It is in existence for 07 years (minimum 03 batches pass out).

7.2 Eligibility for the Department

- a. Valid NBA accreditation at the time of application

OR

- a. At least one Professor or one Associate Professor on regular basis with a Ph.D. Degree is available during the previous three academic years including the current academic year.
- b. State-of-art laboratory facilities in the domain of emerging course under consideration
- c. Faculty-Student ratio is better than or equal to 1:25 averaged over the previous three academic years including the current academic year.

7.3 Application Fees

- a. The institute has to pay one-time Application fees of Rs 10,000 with 18% GST per title for offering Minor/Hons. Program.

7.4 Criteria for Admission:

- a. To offer the Minor/Hons. Degree by any department, the batch size should be **within the approved intake without hampering the Core Course** in the beginning of offering Minor/Hons. degree in semester-4.
- b. The institute offered Minor /Hons. Programs will be given to the students purely on optional basis where the students will have to pay the fees (if any) to the respective institute as per their norms. The university will not have any financial obligation or intervening role for the same.



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- c. For execution of the program the minimum batch size requirements are to be fulfilled. In case the minimum batch size is not achieved and program is not executed, the fees (if any) paid by the students shall be refunded by respective institutes as per the norms.

7.5 Program Structure:

- a. The department would enlist a set of 4 or 5 subjects of total 18 – 20 credits.
- b. From these 4 or 5 subjects, MOOCs (having a minimum of 08 weeks duration) available on SWAYAM/NPTEL can be identified and offered by institutes up to 40% of the courses for ‘Institute-offered Minor /Hons. Programs’ approved by the university.

- c. The credits earn through MOOCs shall be considered as per the following:

Sr. No.	Duration of MOOCs	Equivalent Credits
1	Minimum 12 weeks	04
2	Minimum 08 weeks	03

- d. Institute/Department head has to ensure that MOOCs credits claimed under this provision have not been used by the student for any other purpose (Like Professional Elective Course (PEC) /Multidisciplinary Open Professional Elective Course (MOPEC) in Core degree program). Violation of this clause, student’s Minor/ Hons. Program registration will be liable to cancel, and he/she will not be eligible for re-registration in any Minor/ Hons. Program.
- e. The syllabus and structure need to be approved by the GTU-Minor/Hons. Committee.
It is recommended to upgrade the syllabus of Minor / Hons. Programs on regular basis as per emerging trends and technology in the industries.
- f. Credits of the course will be as per NCrf (i.e. 1 Credit = 15 Theory Hours, 1 Credit = 15 Tutorial Hours, 1 Credit = 30 Practical Hours).
- g. The Minor / Hons. Program commencement and completion window will be from 4th semester to 7th semester respectively under BE program.

7.6 Evaluation Norms for ‘Institute offered Minor/Hons. Programs’

- a. The student has to fulfil all academic requirements as per University norms.
- b. For ‘Institute offered Minor/Hons. Program’, examination fees will be taken as per regular subjects of BE.



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- c. A grading system will be applicable as per existing GTU norms.
- d. Maximum marks of each component will be as per the defined Teaching Scheme for respective syllabus and passing criteria for each component will be as per existing passing criteria of UG Engineering (Refer GTU Circular- [https://s3-ap-southeast-1.amazonaws.com/gtusitecirculares/uploads/Evaluation%20Pattern_Circular%20\(2024-25\)_406425.pdf](https://s3-ap-southeast-1.amazonaws.com/gtusitecirculares/uploads/Evaluation%20Pattern_Circular%20(2024-25)_406425.pdf)).
- d. It is an additional grade/credits hence cannot be considered to calculate SPI/CPI/ CGPA of Bachelor of Engineering program.
- e. Gracing norms will not be applicable for the subjects offered in Minor / Hons. Programs.
- f. Rechecking and reassessment will be allowed for these subjects.
- g. Backlogs of courses offered under 'Institute offered Minor/Hons. Programs' will not be counted for detention.
- h. Only one mark sheet at the end of 8th Semester of Bachelor of Engineering will be issued by the University for Minor / Hons. Program.
- i. If students earn credits as per the guidelines (i.e. 18 to 20 credits), it will be reflected as 'Qualified' and if credits (i.e. 18 to 20 credits) are not earned, it will be mentioned as 'Not Qualified' in the mark sheet.

7.7 Registration Process for Minor/Hons. Programs for 'Institute offered Minor/ Hons. Programs':

The registration of students can be done from GTU Admin portal using following steps:

- 1) Login into GTU Admin portal using ID & password of concerned institute.
- 2) In student tab, click on Minor / Hons. degree registration.
- 3) Select a year, branch and relevant Minor / Hons. degree to be opt by respective student.
- 4) If all student of any single branch opt particular Minor / Hons. degree then select particular Minor / Hons. degree and click "Add to all subject" & click on "Save All" button at the end of page.
- 5) For individual registration, list of drop down various Minor / Hons. degree are given.
- 6) Select "NA" if student does not opt the Minor / Hons. degree.
- 7) Institute can export excel file of their registration (List of Students).



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(B) University offered Industry-led Minor/Hons. Programs

With a view to enhance the employability skills and impart deep knowledge in emerging and multi-discipline areas, GTU has partnered with various leading industries partners like TCSiON, iACE from Maruti Suzuki, L & T Edutech, and Infosys Springboard etc. to offer the Industry-led Minor/Hons. programs.

8. Guidelines for University offered Industry-led Minor/Hons. Programs

8.1 More than one company/industry can offer the courses with same title. Students can refer the list of Minor/Hons. Programs along with the details of industry partners, course fees and curriculum available on GTU website and may opt for the any suitable company/industry based on their own interest. Before selecting the Minor/Hons. program, students should take the advice of their concerned faculty members/mentors, regarding appropriate titles to be selected.

8.2 The industry led Minor /Hons. programs will be offered to the students purely on optional basis where the students will have to pay the fees to the respective industry partners (if any) as per their norms. The institute or university will not have any financial obligation on the same.

8.3 Generally there shall be no limit on the intake of students for registration for the industry lead Minor/ Hons. Program. All the applicants who are interested and fulfil the eligibility criteria can register for Industry-led Minor/Hons. Program. However, in case of batch size limitation by industry, the admission will be done on the merit basis as per the norms of the respective industry partner.

8.4 The syllabus for each subject offered for Industry-led Minor /Hons. shall be approved by the GTU-Minor/Hons. Committee.

8.5 Industry wise credentials for each industry will be issued by University for entry of marks.

8.6 Teaching scheme will be of overall 100 marks in External (E) component. Credits of the course will be as per NCrF (i.e. 1 Credit = 15 Theory Hours, 1 Credit = 15 Tutorial Hours, 1 Credit = 30 Practical Hours).

8.7 For execution of the program the minimum batch size requirements are to be fulfilled. In case the minimum batch size is not achieved and program is not executed, the fees (if any) paid by the students shall be refunded by respective industry partners as per the norms.

8.8 In case if the student discontinues the Minor/Hons. programs, the refund of the fees shall be applicable as per the discretion and norms of industry partners and University will not be involved in this matter.

8.9 Assessment and evaluation for 'University-offered Industry-led Minor/Hons. Programs' will be done by Industry partners. Students must complete the requirements of assessments defined by the respective industry partner in their courses. It is mandatory to obtain the required



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passing grades in the assessment to be eligible for the Minor/Hons. degree in each course throughout the four semesters.

8.10 The university shall award the Minor /Hons. Degree (along with the degree of Bachelor of Engineering) only in the case where the student completes all subjects of semester 4, 5, 6 and 7 successfully. If the student withdraws from/ discontinue the Minor/Hons. in between (without completing the courses of all four semesters), the student will be provided with the Certificate of Completion/Attempt by the industry partner for the particular subject which he/she has completed as per the norms.

8.11 In case a student is unable to attempt the assessment or fails in the subject, they may or may not be given another chance according to the prevailing industry norms. Students are advised to check these norms before enrolling in industry-led Minor/Hons. Programs.

8.12 For the validity of course content provided by the industry partners students are advised to read the instructions given on respective industry partners.

8.13 University will charge Rs. 50 per subject as an examination form fees for 'University offered Industry-led Minor/Hons. Programs'.

8.14 Evaluation pattern for 'University offered Industry-led Minor/Hons. Programs'

- The student, who fulfilled all academic requirements will be eligible for the university process for the Minor/ Hons. Program.
- A grading system will be applicable as per existing GTU prevailing norms.
- The evaluation pattern for 'University offered Industry-led Minor/Hons. Programs' will be as below for all subjects

(External Evaluation done by the Industry Partner)	
Total Marks (E Component)	Passing Marks
100	40

- It is an additional grade/credits hence cannot be considered to calculate SPI/CPI/CGPA of Bachelor of Engineering program.
- Gracing norms will not be applicable for the subjects offered in Minor / Hons. Program.
- Rechecking and reassessment **will not** be allowed for these subjects.
- Backlogs of courses offered under 'University offered Industry-led Minor/Hons. Programs' will not be counted for detention.
- Only one mark sheet at the end of 8th Semester of Bachelor of Engineering will be issued by the University for Minor / Hons. Program.
- If students earn credits as per the guidelines (i.e. 18 to 20 credits), it will be reflected as 'Qualified and if credits (i.e. 18 to 20 credits) are not earned, it will be mentioned as 'Not Qualified' in the mark sheet.



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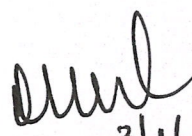
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8.15 Registration Process for 'University offered Industry-led Minor/Hons. Programs':

Students need to follow the instructions received from industry partners/ GTU on a regular basis for various academic, practical, assignment, practical and evaluation perspectives.

Following steps need to be followed by students for registration:

1. GTU will publish the circular with details of 'University offered Industry-led Minor/Hons. Programs' along with the registration link of each industry partner.
2. Students will furnish the necessary details to complete the registration process along with the payment towards the course.
3. Download the receipt of payment.
4. Provide the copy of payment receipt (Or the copy of the confirmation of the registration, where the course is free) to the head of the dept. / Faculty coordinator of your institute.
5. Institute faculty coordinator will register the students against the applicable Minor/Hons. through the institute admin portal.


31/1/25
Registrar