



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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**Guidelines for Implementation of
Massive Open Online Courses (MOOCs)
&
Integration of Skilling-based Courses**

w.e.f. Academic Year 2024-25



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1. Implementation of MOOCs and Integration of Skilling-based Courses for Undergraduate Engineering (UG) Programs w.e.f. A.Y. 2024-25

- 1.1 SWAYAM-NPTEL MOOCs will be offered against the regular courses under Professional/Open Electives categories in the 5th, 6th, and 7th semesters.
- 1.2 In the 5th semester, the MOOCs will be offered (optional) against Professional/Open Electives courses of the regular curriculum. Students who clear MOOC(s) during the 1st to 4th semester (i.e. before the commencement of the 5th semester) will be given exemption from the corresponding regular professional/open elective courses of the 5th semester. Students who are not taking/not completing MOOCs will have to study regular Professional/Open elective courses offered in the 5th semester.
- 1.3 In the 6th semester, the MOOCs will be offered (optional) against the Professional/Open Electives courses of the regular curriculum. Students who clear MOOC(s) during the 1st to 5th semester (i.e. before the commencement of the 6th semester) will be given exemption from the corresponding regular professional/open electives courses of the 6th semester. Students who are not taking/not completing MOOCs will have to study regular professional/Open elective courses offered in the 6th semester.
- 1.4 In the 7th semester, the MOOCs will be offered (optional) against the Professional/Open Electives courses of the regular curriculum. Students who clear MOOC(s) during the 1st to 6th semester (i.e. before the commencement of the 7th semester) will be given exemption from the corresponding regular professional/open electives courses of the 7th semester. Students who are not taking/not completing MOOCs will have to study regular professional/Open elective courses offered in the 6th semester.
- 1.5 After completion of the 6th semester and before the start of the 7th semester, students are required to participate in 60 hours of skilling-based training or courses provided by Skill India, The Ministry of Skill Development and Entrepreneurship, or another reputable skilling platform as enlisted by the University. This initiative aims to enhance skill sets and employability.
- 1.6 In the 8th semester, a full-time internship in the relevant industry/company/central-state-funded project needs to be carried out by the students under the supervision of the institute mentor.



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2. Implementation of MOOCs and Integration of Skilling-based Courses for Diploma Engineering Programs w.e.f. A.Y. 2024-25

- 2.1 SWAYAM-NPTEL MOOCs will be offered against the regular courses under Professional/Open Electives categories in the 4th and 5th semesters.
- 2.2 The option given to students to earn total credits through the MOOCs will be limited to a maximum of 20% of the total credit requirement in a regular Diploma Engineering program.
- 2.3 In the 4th semester, the MOOCs will be offered (optional) against Professional/Open Electives course of the regular curriculum. Students who clear MOOC(s) during the 1st to 3rd semester (i.e. before the commencement of the 4th semester) will be given exemption from the corresponding regular Professional/Open Elective courses of the 4th semester. Students who are not taking/not completing MOOCs will have to study regular Professional/Open Elective courses offered in the 4th semester.
- 2.4 After completion of the 4th semester and before the start of the 5th semester, students are required to participate in 60 hours of skilling-based training or courses provided by Skill India, The Ministry of Skill Development and Entrepreneurship, or another reputable skilling platform as enlisted by the University. This initiative aims to enhance skill sets and employability.
- 2.5 In the 5th semester, the MOOCs will be offered (optional) against Professional/Open Electives course of the regular curriculum. Students who clear MOOC(s) during the 1st to 4th semester (i.e. before the commencement of the 5th semester) will be given exemption from the corresponding regular Professional/Open Elective courses of the 5th semester. Students who are not taking/not completing MOOCs will have to study regular Professional/Open Elective courses offered in the 5th semester.
- 2.6 In the 6th Semester, a full-time internship in the relevant industry/company/central-state-funded project needs to be carried out under the supervision of the Institute mentor.

3. Implementation of MOOCs for Post-Graduate Engineering (PG) Programs w.e.f. A.Y. 2024-25

- 3.1 SWAYAM-NPTEL MOOCs will be offered against the regular courses under MOPEC in the 3rd semester.
- 3.2 In the 3rd semester, the MOOCs will be offered (optional) against the MOPEC course of the regular curriculum. Students who clear MOOC during the 1st to 2nd semester (i.e. before the commencement of the 3rd semester) will be given exemption from the corresponding regular professional/open elective course of the 3rd semester. Students who are not taking/not completing MOOC will have to study regular Professional/Open Elective courses offered in the 3rd semester.



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4. Implementation of MOOCs and Integration of Skilling-based Courses for MBA / MCA Programs w.e.f. A.Y. 2024-25

- 4.1 SWAYAM-NPTEL MOOCs will be offered against the Minor (Interdisciplinary) course of the regular curriculum in the 3rd semester.
- 4.2 In the 3rd semester, the MOOCs will be offered (optional) against the Minor (Interdisciplinary) course of the regular curriculum. Students who clear MOOC during the 1st to 2nd semester (i.e. before the commencement of the 3rd semester) will be given exemption from the corresponding Minor (Interdisciplinary) course of the 3rd semester. Students who are not taking/not completing MOOC will have to study regular Minor (Interdisciplinary) courses offered in the 3rd semester.
- 4.3 MBA / MCA Program shall be inclusive of courses on MOOCs, Indian Knowledge Systems (IKS), Interdisciplinary Course, Value Added Courses, Skills Enhancement Courses (SEC), and Ability Enhancement Courses (AEC) from A.Y. 2024-25.
- 4.4 In MBA, Major Specialization and Minor Specialization shall be offered instead of Specialization and Electives respectively. Students will be given a degree with Major and Minor specializations (written on Marksheet).

5. Implementation of MOOCs and Integration of Skilling-based Courses for BBA / BCA Programs w.e.f. A.Y. 2024-25

- 5.1 SWAYAM-NPTEL MOOCs will be offered against the regular courses under Elective categories in the 4th and 5th semesters.
- 5.2 In the 4th semester, the MOOCs will be offered (optional) against the elective course of the regular curriculum. Students who clear MOOC(s) during the 1st to 3rd semester (i.e. before the commencement of the 4th semester) will be given exemption from the corresponding regular elective course of the 4th semester. Students who are not taking/not completing MOOCs will have to study a regular elective course offered in the 4th semester.
- 5.3 In the 5th semester, the MOOCs will be offered (optional) against the elective course of the regular curriculum. Students who clear MOOC(s) during the 1st to 4th semester (i.e. before the commencement of the 5th semester) will be given exemption from the corresponding regular elective course of the 5th semester. Students who are not taking/not completing MOOCs will have to study a regular elective course offered in the 5th semester.
- 5.4 BBA / BCA Program shall be inclusive of courses on MOOCs, Indian Knowledge Systems (IKS), Interdisciplinary Course, Value Added Courses, Skills Enhancement Courses (SEC), and Ability Enhancement Courses (AEC) from A.Y. 2024-25.



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6. Role of the Affiliated Institute:

- 6.1 To implement the MOOCs, each Institute must establish the NPTEL SWAYAM Local chapter / Centre by nominating one senior faculty member as SPOC (Single Point of Contact) as per SWAYAM guidelines.
- 6.2 Each college/institute will publicize MOOCs through this Local Chapter. Students should be provided proper mentorship for such courses at institute level. These local chapters/ centres at institutes' level will work in coordination with GTU.
- 6.3 The SPOC will be responsible for allocating the mentor on the SWAYAM portal to the students who opted for MOOCs, and the mentor will be responsible for monitoring the student's progress ensuring all the mandatory requirements to complete the MOOCs within the time limit.
- 6.4 The mentor will be responsible for locking the grade on the GTU exam portal in coordination with SPOC.
- 6.5 The teaching load for the faculty / mentor associated with the MOOC courses will be considered 2 hours per week for the term per MOOC.

7. Guidelines for Board of Study to Identify Courses and Credits:

- 7.1 As per SWAYAM guidelines, the courses for credit transfer can be decided based on learner engagement, and the **courses for minimum credits recommended or minimum credits + 1**, as suggested, can be taken appropriately to prepare the list.

	4 Weeks Courses (Hrs.)	4 Weeks Courses (Credits)	8 Weeks Courses (Hrs.)	8 Weeks Courses (Credits)	12 Weeks Courses (Hrs.)	12 Weeks Courses (Credits)
Minimum Credits Recommended	16	01	32	02	48	03

- 7.2 BOS is required to suggest appropriate MOOCs from the list of SWAYAM-NPTEL, published during each semester, against each Professional/Open Elective Courses / Elective Courses offered by the University during semesters as mentioned in the guidelines. BoS will be required to submit the list of MOOCs against each elective at the beginning of every semester as soon as the list is published by SWAYAM-NPTEL. MOOC will be considered as one of the elective subjects.



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- 7.3 Students can opt for MOOCs (from the list offered by GTU) and out of these courses, one course may be based on NEP 2020, one course may be based on National Skill Mission and other courses may be as per their domain/branch specific choice of a student.
- 7.4 A subject named “Employability skills” (covering contents of finishing School) will be offered in Degree Engineering and Diploma Engineering in the new curriculum (w.e.f. 2024-25) with minimum 2 credits.
- 7.5 Faculties should be encouraged to develop MOOCs (SWAYAM-NPTEL).
- 7.6 For MOOCs offered to working professionals, appropriate credit should be decided considering active teaching hours.
- 7.7 Weightage of subjects for Degree and Diploma programs should be given percentage wise for theory, practical, tutorials and value-added skill-based courses.
- 7.8 MOOCs offered to students may have a list of practical subjects which should be in line with theory topics covered in MOOCs. It is suggested to assign separate subject codes for theory and practical subjects, if required.
- 7.9 Audit courses may be considered as supplementary courses and can be offered online. Domain specific skill-based courses can be offered in place of above subjects (previously known as audit courses).
- 7.10 A course related to Semiconductor Packaging is to be incorporated in the curriculum of Electronics, Electrical, Mechanical, Material Engineering (and other associated branches.) This course may be optional for other branches of Engineering.

8. Frequently Asked Questions:

S. No.	Questions	Answers
1.	Is it compulsory for all students to opt for MOOCs?	NO, MOOCs are not mandatory. It is optional but highly recommended. Students can opt for any MOOC (enlisted by the University) of his / her choice.
2.	How will the students select subjects for MOOCs?	GTU will declare the list of MOOCs.
3.	Will GTU conduct remedial exams for MOOCs?	NO, Remedial exams will not be conducted by GTU.
4.	How will the entry of MOOCs subjects be done by students at the time of entry of elective subjects?	Cumulative subjects of all MOOCs offered by GTU will be displayed to select elective subjects.
5.	How will the subjects be selected if the list of MOOCs changes in the upcoming semester?	MOOCs list will be reviewed by the Board of studies periodically and displayed on GTU website before commencement of the semester.



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6.	Can students choose any online course?	NO, Students have to complete MOOCs (offered by NPTEL / SWAYAM) from the list provided by the University.
7.	Will University consider credit for these MOOCs courses?	YES, Students will get appropriate credits if they clear subjects from the list of MOOCs.
8.	Will the name of MOOC appear in the Marksheet?	YES, the name of cleared MOOC will be printed in the marksheet.
9.	How will MOOCs be differentiated?	University will assign a unique subject code for each offered MOOC.
10.	What the students will study if they are not taking/not completing MOOCs.	Students who are not taking/not completing MOOCs will have to study regular subjects offered in the respective semester.
11.	Who will pay the fees for MOOC?	Fees for the MOOCs will be borne by students.
12.	To whom students have to contact in case of any query related to MOOCs?	University has appointed Academic Coordinator in each affiliated institute. Students can contact him /her or any other appointed faculty member at the institute.
13.	What important points need to be considered by students to easily clear the MOOCs?	Students will have to ensure that all assignments are timely submitted, examination forms are timely filled and other mandatory requirements are completed within the timeline of MOOCs.
14.	Where will the external examination of MOOCs be conducted?	Students will have to provide the preference order of cities for examination and available Centre will be allocated by NPTEL / SWAYAM.
15.	Is it possible to change the examination Centre?	NO, it is not possible.
16.	Does NPTEL conduct remedial exams for MOOC in the same semester?	NO, remedial exams are not conducted. Students will have to again select the same/new subject next semester from the list of MOOC offered by GTU.
17.	What will students do if the results of MOOCs are not declared before the commencement of semester?	It is advisable to get the final certificate of MOOC before the commencement of the new semester to get the exemption in regular subject.
18.	Is there any possibility to extend the date of producing the MOOCs certificate to get the exemption in regular subjects?	NO, University will not entertain any such request so make sure that you have cleared the opted MOOC well in advance.



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19.	Whether GTU will collect the fees of exempted courses from students or not?	NO, Fees of exempted courses will not be collected by GTU.
20.	What if examination of GTU and MOOCs are declared to be conducted on the same date?	GTU will not conduct regular / remedial exams of other subjects on the dates of exam declared by NPTEL / SWAYAM for MOOCs. Examination timeline will be decided in advance as per the timeline of MOOCs exams.
21.	When can the student register for the MOOC?	Students who want to opt for MOOCs can register from the first semester onwards till the commencement of academic term of respective semester in which he / she is eligible for exemption provided he / she has successfully completed the registered MOOC subject.

9. Examination Related Guidelines:

9.1 There can't be different guidelines for the same program. New Guidelines for implementation of MOOCs & integration of Skilling-based Courses will be applicable for all programs (Undergraduate Engineering (UG) / Diploma Engineering/ Post-Graduate Engineering (PG) / MBA /MCA / BBA /BCA) w.e.f. A.Y. 2024-25.

9.2 Subject code of the MOOCs assigned by SWAYAM / NPTEL will be considered as a GTU subject code.

9.3 Marks obtained from SWAYAM / NPTEL only will be considered for result declaration. The Academic, Exam and IT Section will have to coordinate with each other to establish the mechanism to get the marks on the University portal. One staff from each section will be assigned duty for the same.

9.4 GTU will consider the consolidated score (%) of MOOCs given by SWAYAM / NPTEL as marks of that subject achieved in the 'E' component. Marks will not be considered under M, I and V components.

9.5 Maximum and minimum marks will be considered 100 and 40 respectively. However, if there is any variation in minimum marks offered by SWAYAM / NPTEL then that will be considered as minimum marks by GTU. Current grading system will be utilized to award grades.

9.6 It will be considered for the calculation of SPI, CPI & CGPA.

9.7 Backlog will not be considered for detention.

9.8 Marks of MOOCs will be considered for grading in other subjects as per university norms.

9.9 Recheck & Reassessment can't be provided.



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9.10 RTI will not be entertained.

9.11 As students are paying exam form fees to NPTEL / SWAYAM, University will not charge any exam fees, for the subject in which exemption has been given, from those students who clear MOOCs exams. Other students, who opt for regular subjects, will have to pay exam form fees as per GTU norms.

9.12 Entry of Maximum & Passing marks will be done by the Academic section in the teaching scheme as it is done for other subjects.

9.13 Subjects of MOOCs will be displayed in the Marksheet.