NITMGH/AA/Notice-Student Vol.II/2023-24/8 **70**   Dated: _31_ .05.2024

NOTIFICATION

It is to inform all that the Institute is currently in the process of implementing the guidelines outlined in the National Education Policy (NEP) of 2020. As part of this initiative, adjustments have been made to the course structure for the 7th Semester of the B.Tech. programme. Specifically, flexibility has been introduced to allow students to fulfill course requirements through the NPTEL/SWAYAM portal/Online Course. In this regard Departments have identified relevant and equivalent courses from the NPTEL/SWAYAM portal. A list of these courses, categorized accordingly, is enclosed herewith for your reference.

In the Autumn 2024 registration, only the courses listed in the attached sheet will be open for registration to B.Tech 7th Semester students. The students are advised to consult with their respective Faculty Advisor and HoD before finalizing Autumn 24 course registration. A deatil modalities on course evaluation plan for online courses are enclosed.

Additionally, students undertaking long-term internships during the 7th Semester & 8th Semester shall be granted permission to complete their projects under the guidance of a supervisor from the Internship company and a co-supervisor from the Institute. Whereas, the students who have not secured long-term internship will carry out their projects under the guidance of an Institute supervisor only.

This issues with the approval of the Competent Authority.

Asst. Registrar (AA)

Copy to:

1. Director's Office, for kind information of the Director.
2. Dean (AA) for information.
3. All Deans for information.
4. All HoDs for information and needful.
5. All Faculties for information.
6. E- Notice to Students.
7. Concerned File.

B.TECH 7TH SEMESTER COURSES
Equivalent NPTEL/SWAYAM/Online COURSES

CIVIL ENGINEERING

Faculty Advisor	Course Code	Course Name	Course type*	Contact Hours L	T	P	Credit C
Dr. Pradeep Kumar Gautam pradeepkrgautam@nitm.ac.in 8107608807	CE401	Project Work I	PW	0	0	8	4
	CE423	Transportation Engineering-II	DE	3	0	0	3
	CE425	Dynamics of Structures	DE	3	0	0	3
	CE427	Engineering Geology	DE	3	0	0	3
	CE431	Air Pollution and Control	DE	3	0	0	3
	CE433	Introduction to Optimization Techniques	OE	2	0	0	2
	CE481	Internship	I	0	0	0	1
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COMPUTER SCIENCE AND ENGINEERING

Faculty Advisor	Course Code	Course Name	Course type*	Contact Hours L	T	P	Credit C
Dr. Akhilendra Pratap Singh akhilendra.singh@nitm.ac.in 9485177042	CS401	Project - I	P	0	0	8	4
	CS411	Soft computing	DE	3	0	0	3
	CS417	Blockchain technologies	DE	3	0	0	3
	CS423	Artificial Intelligence	DE	3	0	0	3
	CS427	Software defined network	DE	3	0	0	3
	CS471	Data analytics using python	OE	2	0	0	2
	CS481	Internship	I	0	0	0	1
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ELECTRONICS AND COMMUNICATION ENGINEERING

Faculty Advisor	Course Code	Course Name	Course type*	Contact Hours L	T	P	Credit C
Dr. Shravan Kumar Bandari shravnbandari@nitm.ac.in 7093328329	EC401	Project - I	P	0	0	8	4
	EC419	Analog VLSI Design	DE	3	0	0	3
	EC429	Fiber Optic Communication Technology	DE	3	0	0	3
	EC431	Wireless Communication	DE	3	0	0	3
	EC433	VLSI Circuits	DE	3	0	0	3
	EC471	Applied Linear Algebra for Signal Processing, Data Analytics and Machine Learning	OE	2	0	0	2
	EC481	Summer Internship	I	0	0	0	1
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ELECTRICAL AND ELECTRONICS ENGINEERING

Faculty Advisor	Course Code	Course Name	Course type*	Contact Hours L	T	P	Credit C
Dr. Ksh Milan Singh milan.singh@nitm.ac.in 9402102390	EE401	Project-I	P	0	0	8	4
	EE417	Industrial Instrumentation	DE	3	0	0	3
	EE429	Advanced Control System Design	DE	3	0	0	3
	EE411	Electrical Drives	DE	3	0	0	3
	EE441	Smart Grid Technology	DE	3	0	0	3
	EE471	Non-Conventional Energy Sources	OE	0	1	2	2
	EE481	Summer Internship	I	0	0	0	1
							19

MECHANICAL ENGINEERING

Faculty Advisor	Course Code	Course Name	Course type*	Contact Hours L	T	P	Credit C
Dr. Rajat Subhra Das rajatsubhra@nitm.ac.in 9402102380	ME401	Major Project – I	P	0	0	8	4
	ME413	Optimization Techniques	DE	3	0	0	3
	ME421	Mechanical Micromachining	DE	3	0	0	3
	ME433	Mechatronics and Control	DE	3	0	0	3
	ME471	Hybrid and Electric Vehicles	OE	2	0	0	2
	ME481	Internship-2	I	0	0	0	1
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HUMANITIES & SOCIAL SCIENCES

Course Code	Course Name	Course type*	Contact Hours L	T	P	Credit C
Open Elective - 4						
HS471	Professional Ethics	OE	2	0	0	2

Academic Rules and Regulations for SWAYAM-NPTEL and Institute Online Courses for Final Year B.Tech Students (VII & VIII Semesters)

1. Before the commencement of each Semester, the Parent Department shall release a list of SWAYAM-NPTEL and Institute Online courses approved as Departmental Elective/Open Elective courses. All the students are required to register for the same.

2. Corresponding to each of the SWAYAM-NPTEL/ Institute Online courses given by the concerned Department, a minimum of one faculty mentor nominated by the concerned Department will take care and mentor the students registering for the SWAYAM-NPTEL/Institute online courses.

3. A student may complete SWAYAM/NPTEL courses and transfer equivalent credits to partially complete the mandatory credit requirements of the concerned B. Tech program.

4. A student shall only request the transfer of credits from notified SWAYAM-NPTEL courses as published by the concerned Department.

5. SWAYAM-NPTEL courses are considered for transfer of credits only if the concerned student has successfully completed and obtained SWAYAM-NPTEL certificate to this effect (**see point no 9**).

6. A student cannot transfer credits from SWAYAM-NPTEL courses for any other type of courses that the concerned Department does not permit. However, they can register for any SWAYAM-NPTEL courses of their choice. In such cases the transfer of credits option will not be available.

7. Students shall register for the approved courses as per the schedule announced by SWAYAM-NPTEL.

8. The credit equivalence for SWAYAM-NPTEL online courses: **12 weeks – 3 credits; 8 weeks – 2 credits; 4 weeks – 1 or 0 credits.**

9. The grading system for such SWAYAM-NPTEL courses with the transfer of credits is specified in the **Table: Evaluation Scheme-1** given below:

Evaluation Scheme-1

Table: Grading system for SWAYAM-NPTEL courses with transfer of credits

Final score on the SWAYAM-NPTEL certificate	Grade awarded
80% and above	AA
From 70% to 79%	AB
From 60 % to 69 %	BB
From 50 % to 59 %	BC
From 40 % to 49 %	CC
Less than 40%	Students need to appear in the internal exam organized by the faculty mentor of the concerned courses.

10. A student must submit the original SWAYAM-NPTEL Course Certificates to the Head of the Parent Department concerned, with a written request for the transfer of equivalent credits. On verification of the SWAYAM-NPTEL Course Certificates and approval by the Head of the Department concerned, the SWAYAM-NPTEL Course Certificates and equivalent credits will be included in the course with associated credits after approval of competent authority.

11. In case of the SWAYAM-NPTEL Courses floated by the Department for a particular semester which is not running for the current semester in SWAYAM-NPTEL platform, in such cases the students will go through the assignments and video lectures provided in the portal and appear for the internal exam conducted by the Department (see below **Evaluation Scheme-2**). For the institute online courses **Evaluation Scheme-2** will be followed.

Evaluation Scheme-2

Table: Evaluation Scheme of the internal examination conducted by the concerned Department

Components	Allocated Marks	Qualifying Marks
Assignments/Quiz/Test	50	>=20
Mid Term (Presentation/Seminar/Exam)	50	>=20
End Term Exam (Offline/Online)	100	>=30
Total Marks	200	>=70

12. The transfer of credits for SWAYAM-NPTEL courses is optional. The students will always have the option to appear in the internal exam conducted by the Department (**Evaluation Scheme-2**). In such cases the final grades will be considered based on the grades from the internal exam.

13. The assignments given in the portal should be submitted promptly to the faculty mentor, irrespective of the choice of credit transfer based on the SWAYAM-NPTEL certificate or the internal exam conducted by the Department.

14. After completing the SWAYAM-NPTEL lectures, the students willing to appear in the internal exam conducted by the Department can appear in the internal exam (**Evaluation Scheme-2**). The students should get approval to appear in the internal exam from the faculty mentor.

15. The faculty mentor will prepare the question paper for the internal offline exam. The exam paper will consist of a total of 100 Marks as per the IQAC format of NIT Meghalaya.

16. The relative grading system will be followed as per NIT Meghalaya academic rules.

17. The faculty member assigned to a SWAYAM-NPTEL course will monitor the students via online/offline meeting or discussions.

18. A student may submit the request for credit transfer from SWAYAM-NPTEL courses one week before the commencement of the internal exam.

19. The institute shall not reimburse any fees/expenses a student may incur for the SWAYAM-NPTEL courses.

20. If a student cannot qualify for an internal exam conducted by the concerned Department, the student may appear for a special exam after the approval of the competent authority.