



MANIPAL INSTITUTE OF TECHNOLOGY

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ACADEMIC SECTION

Ref: MIT/ADA/Notice/050/2024-25

Date: April 05, 2025

NOTIFICATION

Attention: B.Tech. Re-Registered Students Enrolled in SWAYAM-NPTEL Courses as MIT Equivalents

Option to Write End Semester Examination at MIT for RE-REGISTERED Students Pursuing SWAYAM-NPTEL Courses as MIT Course Equivalents

Kindly read the entire content of this notification carefully.

Notice A: SWAYAM-NPTEL End Term Examinations at MIT: April-May 2025

Points to Note:

- Applicable only to **re-registered students** enrolled in courses as MIT course equivalents recommended by the respective departments.
- Applicable only to courses **offered in the even semester**. **Not applicable to courses offered only during the odd semester.**
- Subsequent notices – titled **Notice B, Notice C** and so on – will be issued with information regarding the SLcM Registration for MIT exam of SWAYAM-NPTEL courses, examination timetable, question paper pattern and grading scheme.

Students who have enrolled in SWAYAM-NPTEL courses as equivalents to MIT courses recommended by the departments are given the **option to appear for the End Semester Examination at MIT for their registered SWAYAM-NPTEL courses.**

Please note the following important points:

1. Consent Form Submission:

- Students **willing to take** the End Semester Exam at MIT for their SWAYAM-NPTEL course(s) **must submit** their willingness by filling out the MS Form available at the link provided below and submitting it **before EOD, Wednesday, 09 April 2025**.

<https://forms.office.com/r/HpcN2sD9tq>

- While filling the form, students must **type the correct serial number(s)** of their enrolled SWAYAM-NPTEL course(s) from **Column 1 of Table 1: SWAYAM – MIT Course Mapping for Even Semester Session Jan – May 2025.**

Note: A student may have a pending course listed under either Column 2 or Column 3 of the course mapping table above.

- *Column 2 indicates the original (old) MIT course.*



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- Column 3 shows if that course is being offered under a different course name, code or semester in the current curriculum (scheme). In most cases, the courses in Columns 2 and 3 will be the same or equivalent. Students must refer to Column 1 and enter the appropriate serial number(s) corresponding to their pending course(s) and its Swayam equivalent (Column 5) while filling the MS Form.
- Multiple courses may be selected using the corresponding serial numbers listed in the table. Enter these serial numbers separated by comma in the MS form above.

2. SLcM Registration & Exam Fee:

- Students who opt for this option will also be required to **register for the End Semester Examination** for their respective SWAYAM-NPTEL / MIT equivalent course(s) through **SLcM**, upon payment of an **examination fee of ₹600 per course**.
- SLcM registration for these exams will be **enabled only after the final list of interested students (along with their selected courses) is received and verified**.

3. Important Notes Regarding Examination:

- The **question paper** for the End Semester Exam will be **based strictly on the syllabus of the chosen SWAYAM-NPTEL course**, and **not on the syllabus of the MIT equivalent course**.
- The examination will be conducted **as per the official MIT exam timetable** for Even Semester courses scheduled in **April-May 2025**.

For any clarifications, please contact Dr. Prateek Jain (Room No. 132, Examination Section, AB 1) or email at [prateek.jain@manipal.edu].

Associate Director (Academics)

Copy To: All HoDs

Enclosure - Table 1: SWAYAM – MIT Course Mapping for Even Semester Session Jan – May 2025



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Table 1: SWAYAM – MIT Course Mapping for Even Semester Session Jan – May 2025

S.No.	Course Name & Code (MIT)	Course Name & Code of Current Offering (MIT)	Semester of Current Offering / Offering Department	Equivalent Swayam Course & ID
1	Design of Machine Elements (AAE 2226)	Automotive Component Design (AAE 2226)	IV AAE	Product Design & Manufacturing (noc25-me67)
2	Vehicle Transmission Systems (AAE 2228)	Vehicle Transmission Systems (AAE 2228)	IV AAE	Design of Mechanical Transmission System (noc25-me15)
3	Linear Control Theory (AAE 2257)	Linear Control Theory (AAE 2223)	IV AAE	Control Engineering (noc25-ee15)
4	Automotive Transmission Systems (AAE 2271)	Vehicle Transmission Systems (AAE 2228)	IV AAE	Design of Mechanical Transmission System (noc25-me15)
5	Theory of Vibrations (AAE 3224)	Theory of Vibrations (AAE 3224)	VI AAE	Structural Vibration (noc25-ce56)
6	Elective - Biomaterial Characterization Techniques (BME 4052)	Biomaterial Characterization Techniques (BME 4402)	VI BME	Material Characterization (noc25-mm18)
7	Elective - Drug Delivery (BME 4063)	Drug Delivery (BME 4404)	VI BME	Medicinal Chemistry (noc25-cy22)
8	Microcontroller Based Systems (BME 3154)	Microcontrollers (BME 2224)	IV BME	Microprocessors and Microcontrollers (noc25-ee49)
9	Microcontrollers (BME 2224)	Microcontrollers (BME 2224)	IV BME	Microprocessors and Microcontrollers (noc25-ee49)
10	Heat Transfer Operations (CHE 2225)	Heat Transfer Operations (CHE 2225)	IV CHE	Heat Transfer (noc25-ch26)
11	Engineering Chemistry (CHM 1071)	Engineering Chemistry (CHM 1071)	II CHM	Corrosion Part -1 (noc25-mm07) and Elementary Electrochemistry (noc25-cy12)
12	WasteWater Management (CIE 2224)	WasteWater Management (CIE 2224)	IV CIE	WasteWater Treatment (noc21_ce25)
13	Geotechnical Engineering (CIE 2221)	Geotechnical Engineering (CIE 2221)	IV CIE	Geotechnical Engineering - 1 (noc22_ce03)
14	Artificial Intelligence (CSE 2225)	Artificial Intelligence (CSE 2225)	IV CSE (AIML)	Artificial Intelligence using Prolog Programming (nou25_cs07)
15	Compiler Design (CSE 3151)	Compiler Design (CSE3222)	VI CSE	Compiler Design (noc25-cs13)
16	Database Systems (CSE 2224)	Database Systems (CSE 2224)	IV CSE	Introduction to Database Systems (noc25-cs40)
17	Design and Analysis of Algorithms (CSE 2222)	Design and Analysis of Algorithms (CSE 2222)	IV CSE	Design and Analysis of Algorithms (noc25_cs23)
18	Embedded Systems (CSE 2223)	Embedded Systems (CSE 2223)	IV CSE	Introduction to Embedded System Design (noc25_cs41)
19	Formal Languages and Automata Theory (CSE 2221)	Formal Languages and Automata Theory (CSE 2221)	IV CSE	Theory of Computation (noc25_cs70)



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20	Operating System (CSE 3123)	Operating System (CSE2226)	IV CSE (AIML)	Operating Systems (ntr25_ed41)
21	Parallel Computer Architecture and Programming (CSE 3252)	Parallel Computer Architecture & Programming (CSE 3221)	VI CSE	GPU Architectures and Programming (noc25-cs37)
22	Database Systems (DSE 2252)	Database Systems (DSE 2221)	IV DSE	Introduction to Database Systems (noc25-cs40)
23	Fundamentals of Machine Learning (DSE 2222)	Fundamentals of Machine Learning (DSE 2222)	IV DSE	Introduction to Machine Learning (noc25-cs46)
24	Mathematical Problem Solving Using Python (CRA 4064)	Mathematical Problem Solving Using Python (CRA 4414)	VI DSE	The Joy of Computing using Python (noc25-cs69)
25	Introduction to Interactive Programming in Python (CRA 4063)	Introduction to Interactive Programming in Python (CRA 4413)	VI DSE	Programming In Python (cec25_ma18)
26	Basic Electronics (ECE 1071)	Basic Electronics (ECE 1071)	I & II ECE	Fundamental of Electronic Engineering (nou25_ec04)
27	Analog Integrated Circuits (ECE 2223)	Analog Integrated Circuits (ECE 2223)	IV ECE	Integrated Circuits and Applications (noc25-ee43)
28	Digital Signal Processing (ECE 2222)	Digital Signal Processing (ECE 2222)	IV ECE	Digital Signal Processing and Applications (noc25-ee23)
29	Machine Learning (ECE 4052)	Machine Learning (ECE 4409)	VI ECE	Introduction to Machine Learning (noc25-cs46)
30	Modern Control Theory (ECE 2225)	Modern Control Theory (ECE 2225)	IV ECE	Control Engineering (noc25-ee15)
31	Open Elective - Introduction to Communication Systems (ECE 4313)	Open Elective - Introduction to Communication Systems (ECE 4313)	VI ECE	Principles of Communication Systems - I (noc25-ee68)
32	Wireless Communication (ECE 3221)	Wireless Communication (ECE 3221)	VI ECE	Fundamentals of MIMO Wireless Communication (noc25-ee38)
33	Basic Electrical Technology (ELE 1051)	Basic Electrical Technology (ELE 1071)	II ELE	Introduction to Electrical Engineering (noc25-ee45)
34	Basic Electrical Technology (ELE 1071)	Basic Electrical Technology (ELE 1071)	II ELE	Introduction to Electrical Engineering (noc25-ee45)
35	Fundamentals of Electrical Engineering (ELE 1072)	Fundamentals of Electrical Engineering (ELE 1072)	II ELE	Introduction to Electrical Engineering (noc25-ee45)
36	Linear Control Theory (ELE 2253)	Linear Control Theory (ELE 2223)	IV ELE	Control Engineering (noc25-ee15)
37	Power Electronics (ELE 3251)	Power Electronics (ELE 2222)	IV ELE	Fundamentals of Power Electronics (noc25_ee37)
38	Engineering Economics and Financial Management (HUM 3021)	Engineering Economics and Financial Management (HUM 3021)	VI HUM	Financial Mathematics (noc25-me26)
39	Essentials of Management (HUM 3022)	Essentials of Management (HUM 3022)	VI HUM	Principles of Management (noc25-mg52)



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40	Digital Signal Processing (ICE 2224)	Digital Signal Processing (ICE 2224)	IV ICE	DSP & Its Application (noc25-ee23)
41	Industrial Instrumentation (ICE 2252)	Industrial Instrumentation (ICE 2223)	IV ICE	Industrial Instrumentation (Automation & Control) (noc25-ee42)
42	Linear Integrated Circuits (ICE 2221)	Linear Integrated Circuits (ICE 2221)	IV ICE	Integrated Circuits & Their Applications (noc25-ee43)
43	Linear Integrated Circuits (ICE 2254)	Linear Integrated Circuits (ICE 2221)	IV ICE	Integrated Circuits, Mosfets, Op-Amps & Their Application (noc25-ee44)
44	Microcontrollers (ICE 2222)	Microcontrollers (ICE 2222)	IV ICE	Microprocessors & Microcontrollers (noc25-ee49)
45	Linear Control Theory (ICE 2253)	Introduction to Control Theory (ICE 2228)	IV ICE	Control Engineering (noc25-ee15)
46	Communication Techniques (ICE 2229)	Communication Techniques (ICE 2229)	IV ICE	Principles of Communication Systems - I (noc25-ee68)
47	Computer Networks (ICT 2224)	Computer Networks (ICT 2224)	IV ICT	Computer Networks and internet protocol (noc25-cs15)
48	Computer Networks and Protocols (ICT 2226)	Computer Networks and Protocols (ICT 2226)	IV ICT	Computer Networks and internet protocol (noc25-cs15)
49	Data Mining and Predictive Analytics (ICT 3229)	Data Mining and Predictive Analytics (Flexi core) (ICT 3229)	VI ICT	Data Mining (noc25-cs19)
50	Database Systems (ICT 2271)	Database Systems (ICT 2221)	IV ICT	Introduction to Database Systems (noc25_c40)
51	Embedded Systems (ICT 2223)	Embedded Systems (ICT 2223)	IV ICT	Introduction to Embedded System Design (noc22_c93)
52	Information Retrieval (ICT 4035)	Information Retrieval (Elective) (ICT 4409)	VI ICT	Data Mining (noc25_c19) and Natural Language Processing (noc25_c51)
53	Machine Learning (ICT 4032)	Machine Learning (ICT 4402)	VI ICT	Introduction to Machine Learning (noc25-cs46)
54	Engineering Mathematics II (MAT 1271)	Engineering Mathematics II (MAT 1271)	II MAT	Advanced Engineering Mathematics (noc25-ma02)
55	Mathematical Foundation for Data Science - II (MAT 2239)	Mathematical Foundation for Data Science - II (MAT 2239)	IV MAT	Applied Multivariate Statistical Modeling (noc25-ma12)
56	Engineering Mathematics IV (MAT 2230)	Engineering Mathematics IV (MAT 2230)	IV MAT	Advanced Probability Theory (noc25-ma04)
57	Engineering Mathematics IV (MAT 2231)	Engineering Mathematics IV (MAT 2231)	IV MAT	Advanced Probability Theory (noc25-ma04)
58	Engineering Mathematics IV (MAT 2224)	Engineering Mathematics IV (MAT 2224)	IV MAT	Advanced Probability Theory (noc25-ma04)
59	Engineering Mathematics IV (MAT 2221)	Engineering Mathematics IV (MAT 2221)	IV MAT	Introduction to Probability Theory and Statistics (noc25-ma33)



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60	Engineering Mathematics IV (MAT 2230)	Engineering Mathematics IV (MAT 2230)	IV MAT	Introduction to Probability Theory and Statistics (noc25-ma33)
61	Engineering Mathematics IV (MAT 2221)	Engineering Mathematics IV (MAT 2221)	IV MAT	Probability and Statistics (noc25-ma49)
62	Engineering Mathematics IV (MAT 2230)	Engineering Mathematics IV (MAT 2230)	IV MAT	Introduction to Probability Theory and Statistics (noc25-ma33)
63	Engineering Mathematics IV (MAT 2231)	Engineering Mathematics IV (MAT 2231)	IV MAT	Introduction to Probability Theory and Statistics (noc25-ma33)
64	Engineering Mathematics IV (MAT 2224)	Engineering Mathematics IV (MAT 2224)	IV MAT	Introduction to Probability Theory and Statistics (noc25-ma33)
65	Engineering Mathematics IV (MAT 2221)	Engineering Mathematics IV (MAT 2221)	IV MAT	Probability and Statistics (noc25-ma49)
66	Engineering Mathematics IV (MAT 2230)	Engineering Mathematics IV (MAT 2230)	IV MAT	Advanced Probability Theory (noc25-ma04)
67	Engineering Mathematics IV (MAT 2221)	Engineering Mathematics IV (MAT 2221)	IV MAT	Introduction to Probability Theory and Statistics (noc25-ma33)
68	Probability and Optimization (MAT 2228)	Engineering Mathematics IV (MAT 2228)	IV MAT	Advanced Probability Theory (noc25-ma04)
69	Probability and Optimization (MAT 2227)	Engineering Mathematics IV (MAT 2227)	IV MAT	Advanced Probability Theory (noc25-ma04)
70	Engineering Mathematics IV (MAT 2225)	Engineering Mathematics IV (MAT 2225)	IV MAT	Advanced Probability Theory (noc25-ma04)
71	Engineering Mathematics IV (MAT 2226)	Engineering Mathematics IV (MAT 2226)	IV MAT	Advanced Probability Theory (noc25-ma04)
72	Engineering Mathematics IV (MAT 2222)	Engineering Mathematics IV (MAT 2222)	IV MAT	Advanced Probability Theory (noc25-ma04)
73	Probability and Optimization (MAT 2228)	Engineering Mathematics IV (MAT 2228)	IV MAT	Introduction to Probability Theory and Statistics (noc25-ma33)
74	Probability and Optimization (MAT 2227)	Engineering Mathematics IV (MAT 2227)	IV MAT	Introduction to Probability Theory and Statistics (noc25-ma33)
75	Engineering Mathematics IV (MAT 2225)	Engineering Mathematics IV (MAT 2225)	IV MAT	Introduction to Probability Theory and Statistics (noc25-ma33)
76	Engineering Mathematics IV (MAT 2226)	Engineering Mathematics IV (MAT 2226)	IV MAT	Introduction to Probability Theory and Statistics (noc25-ma33)
77	Engineering Mathematics IV (MAT 2222)	Engineering Mathematics IV (MAT 2222)	IV MAT	Introduction to Probability Theory and Statistics (noc25-ma33)
78	Heat Transfer (MME 3251)	Heat Transfer (MME 3251)	VI MIE	Conduction and Convection Heat Transfer (noc25-me12)
79	Energy and Heat Transfer (MTE 3252)	Energy and Heat Transfer (MTE 3221)	VI MTE	Applied Thermodynamics (noc25-me06)
80	Hydraulics and Pneumatics Systems (MTE 3124)	Hydraulics and Pneumatics Systems (MTE 4313)	VI MTE	Oil Hydraulics and Pneumatics (noc25-me58)



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81	Linear Control Theory (MTE 2224)	Linear Control Theory (MTE 2224)	IV MTE	Control Engineering (noc25-ee15)
82	Microcontroller and Microprocessors (MTE 2153)	Microcontroller based System Design (MTE 2225)	IV MTE	Introduction to Embedded System Design (noc25-cs41)
83	Microcontroller based System Design (MTE 2225)	Microcontroller based System Design (MTE 2225)	IV MTE	Introduction to Embedded System Design (noc25-cs41)
84	Engineering Physics (PHY 1071)	Engineering Physics (PHY 1071)	I & II PHY	Quantum Mechanics I (noc25-ph22)
85	Applied Physics for Engineers (PHY1072)	Applied Physics for Engineers (PHY1072)	I & II PHY	Quantum Mechanics I (noc25-ph22)