

## **(Odd Semester Online Course Learning Option to Students from SWAYAM/NPTEL Academic Year 2020-2021)**

### **Instructions for online courses to be learned by students from MOOC (SWAYAM /NPTEL) platform**

#### **Guidelines to BOS**

1. BOS should check availability of offering of online courses from SWYAM /NPTEL platform prior to commencement of semester and shall declare courses in consultation with online committee of university.
2. Maximum one course per semester in online mode from SWYAM /NPTEL should be offered.
3. Course should be offered in online mode, if minimum 70 % content of university curriculum course matches with NPTEL course content.
4. If 70% mapping is not available with NPTEL platform, course should not be offered. In such case BOS / affiliated colleges may develop online content for one subject and students has to appear for examination conducted by the university.

#### **Instruction for students**

1. Student opting for online courses from SWYAM /NPTEL any other MOOC platform recognised by the university should do the registration for the courses at the start of every semester, as per schedule declared by the university and SWYAM /NPTEL.
2. Registration for online courses to be opt by students from SWYAM /NPTEL any other MOOC platform is optional for academic year 2020-2021 due to unprecedented pandemic situation. However, students are encouraged to opt for online course offered by the university.
3. Student opting for online course can give SWYAM /NPTEL any other MOOC examination OR University examination.
4. Student opting for online course must appear for ISE-I &II, MSE examination of university. Marks obtained in ISE and MSE shall be used by university in case of student opting for university examination OR In case, if student is not qualified in NPTEL examination and appears for succeeding semester university examination.
5. Student opting for online course should complete all LAB course work assignments as prescribed by university in regular mode.
6. Institute will appoint one faculty coordinator for online subject, who will work as facilitator and will decide the methodology of conducting online classes and doubt solving sessions.
7. If proctored examination is available with MOOC platform, then certificate grade will be used for credit transfer otherwise student has to appear for University Examination. In case of university examination 40/60 pattern of evaluation will be used i.e. 40 % marks will be based on continuous assessment and 60% will be based on student performance in end term examination conducted by university.

**Computer Engineering**  
**(Odd Semester Online Course Learning Option to Students from SWAYAM/NPTEL , Academic Year 2020-2021)**

Online courses offered by SWAYAM/ NPTEL

**Semester – III**

Sr. No	Name of Subject as per Curriculum	Course Code	Semester	SWAYAM/ NPTEL Course and Web LINK / Course ID	Name of Institute offering course	Relevance %	Duration of Course	Course Commencement Date	Course end date	Course Exam Date
1	Python programming	BTCOL306	III	1) <a href="https://nptel.ac.in/noc/courses/noc20/SEM1/noc20-cs35/">https://nptel.ac.in/noc/courses/noc20/SEM1/noc20-cs35/</a> 2) <a href="https://swayam.gov.in/nd1_noc20_cs83/preview">https://swayam.gov.in/nd1_noc20_cs83/preview</a> 3) noc20-cs83	1) IIT, Ropar	90	12 weeks	20 Jul 2020	09 Oct 2020	17 Oct 2020

**Semester – V**

Sr. No	Name of Subject as per Curriculum	Course Code	Semester	SWAYAM/ NPTEL Course and Web LINK / Course ID	Name of Institute offering course	Relevance %	Duration of Course	Course Commencement Date	Course end date	Course Exam Date
1	Machine Learning	BTCOC503	V	1) <a href="https://nptel.ac.in/noc/courses/noc20/SEM1/noc20-cs29/">https://nptel.ac.in/noc/courses/noc20/SEM1/noc20-cs29/</a> 2) <a href="https://swayam.gov.in/nd1_noc20_cs73/preview">https://swayam.gov.in/nd1_noc20_cs73/preview</a> 3) noc20-cs73	IIT Madras	85	12 weeks	20 Jul 2020	09 Oct 2020	18 Oct 2020

## Semester – VII

Sr. No	Name of Subject as per Curriculum	Course Code	Semester	SWAYAM/ NPTEL Course and Web LINK / Course ID	Name of Institute offering course	Relevance %	Duration of Course	Course Commencement Date	Course end date	Course Exam Date
1	Cloud Computing	BTCOE703 (A)	VII	1) <a href="https://swayam.gov.in/nd1_noc20_cs65/p_review">https://swayam.gov.in/nd1_noc20_cs65/p_review</a> 2) <a href="https://nptel.ac.in/noc/courses/noc20/SEM1/noc20-cs20/">https://nptel.ac.in/noc/courses/noc20/SEM1/noc20-cs20/</a> 3) <a href="#">noc20-cs65</a>	IIT Kharagpur	95	8 weeks	20 Jul 2020	11 Sep 2020	27 Sep 2020

## Information Technology

(Odd Semester Online Course Learning Option to Students from SWAYAM/NPTEL, Academic Year 2020-2021)

### Online courses offered by NPTEL / SWAYAM

#### Semester – III

Sr. No	Name of Subject as per Curriculum	Course Code	Semester	SWAYAM/ NPTEL Course and Web LINK / Course ID	Name of Institute offering course	Relevance %	Duration of Course	Course Commencement Date	Course end date	Course Exam Date
1	Switching Theory and Logic Design	BTITC 302	III	Switching Circuits and Logic Design <a href="https://nptel.ac.in/courses/106/105/106105185/">https://nptel.ac.in/courses/106/105/106105185/</a>	IIT KGP	80	12	20-07-2020	09-10-2020	17-10-2020

#### Semester – V

Sr. No	Name of Subject as per Curriculum	Course Code	Semester	SWAYAM/ NPTEL Course and Web LINK / Course ID	Name of Institute offering course	Relevance %	Duration of Course	Course Commencement Date	Course end date	Course Exam Date
2	Software Engineering	BTITC 503	V	Software Engineering <a href="https://nptel.ac.in/courses/106/105/106105182/">https://nptel.ac.in/courses/106/105/106105182/</a>	IIT KGP	80	12	20-07-2020	09-10-2020	18-10-2020

**Electronics Engineering**  
**(Odd Semester Online Course Learning Option to Students from SWYAM /NPTEL , Academic Year 2020-2021)**  
Online courses offered by SWAYAM /NPTEL

**Semester – III**

Sr. No	Name of Subject as per Curriculum	Course Code	Semester	SWAYAM/ NPTEL Course and Web LINK / Course ID	Name of Institute offering course	Relevance %	Duration of Course	Course Commencement Date	Course end date	Course Exam Date
1	Digital Logic Design	BTEXC305	III	1) <a href="https://nptel.ac.in/noc/courses/noc19/SEM2/noc19-ee51/">https://nptel.ac.in/noc/courses/noc19/SEM2/noc19-ee51/</a>	IIT Kharagpur	75%	12 weeks	20 Jul 2020	09 Oct 2020	17 Oct 2020
				2) <a href="https://swayam.gov.in/nd1_noc20_ee70/preview">https://swayam.gov.in/nd1_noc20_ee70/preview</a>						
				3) noc20-ee70						

**Semester – V**

Sr. No	Name of Subject as per Curriculum	Course Code	Semester	SWAYAM/ NPTEL Course and Web LINK / Course ID	Name of Institute offering course	Relevance %	Duration of Course	Course Commencement Date	Course end date	Course Exam Date
1	Control System Engineering	BTEXC502	V	1) <a href="https://nptel.ac.in/noc/courses/noc19/SEM2/noc19-de04/">https://nptel.ac.in/noc/courses/noc19/SEM2/noc19-de04/</a>	IIT Madras	80%	12 weeks	20 Jul 2020	09 Oct 2020	18 Oct 2020
				2) <a href="https://swayam.gov.in/nd1_noc20_ee90/preview">https://swayam.gov.in/nd1_noc20_ee90/preview</a>						
				3) noc20-ee90						

**Electronics and Telecommunication Engineering**  
**(Odd Semester Online Course Learning Option to Students from SWYAM /NPTEL , Academic Year 2020-2021)**

Online courses offered by SWAYAM/NPTEL

**Semester – III**

Sr. No	Name of Subject as per Curriculum	Course Code	Semester	SWAYAM/ NPTEL Course and Web LINK / Course ID	Name of Institute offering course	Relevance %	Duration of Course	Course Commencement Date	Course end date	Course Exam Date
1	Digital Logic Design	BTEXC305	III	1) <a href="https://nptel.ac.in/noc/courses/noc19/SEM2/noc19-ee51/">https://nptel.ac.in/noc/courses/noc19/SEM2/noc19-ee51/</a> 2) <a href="https://swayam.gov.in/nd1_noc20_ee70/preview">https://swayam.gov.in/nd1_noc20_ee70/preview</a> 3) noc20-ee70	IIT Kharagpur	75%	12 weeks	20 Jul 2020	09 Oct 2020	17 Oct 2020

**Semester – V**

Sr. No	Name of Subject as per Curriculum	Course Code	Semester	SWAYAM/ NPTEL Course and Web LINK / Course ID	Name of Institute offering course	Relevance %	Duration of Course	Course Commencement Date	Course end date	Course Exam Date
1	Control System Engineering	BTEXC502	V	1) <a href="https://nptel.ac.in/noc/courses/noc19/SEM2/noc19-de04/">https://nptel.ac.in/noc/courses/noc19/SEM2/noc19-de04/</a> 2) <a href="https://swayam.gov.in/nd1_noc20_ee90/preview">https://swayam.gov.in/nd1_noc20_ee90/preview</a> 3) noc20-ee90	IIT Madras	80%	12 weeks	20 Jul 2020	09 Oct 2020	18 Oct 2020

**Instrumentation Engineering**  
**(Odd Semester Online Course Learning Option to Students from SWYAM /NPTEL , Academic Year 2020-2021)**

*Online courses offered by SWAYAM/NPTEL*

Sr. No	Name of Subject as per Curriculum	Course Code	Semester	SWAYAM/ NPTEL Course and Web LINK / Course ID	Name of Institute offering course	Relevance %	Duration of Course	Course Commencement Date	Course end date	Course Exam Date
1	Network Analysis and Synthesis	-	III	<a href="https://swayam.gov.in/nd1_noc20_ee64/preview">https://swayam.gov.in/nd1_noc20_ee64/preview</a>	IIT Madras	70%	12 weeks	20 Jul 2020	09 Oct 2020	18 Oct 2020
			<a href="https://swayam.gov.in/nd1_noc20_ee64/preview">https://swayam.gov.in/nd1_noc20_ee64/preview</a>							
			<a href="https://swayam.gov.in/nd1_noc20_ee64/preview">https://swayam.gov.in/nd1_noc20_ee64/preview</a>							

## Chemical Engineering

**(Odd Semester Online Course Learning Option to Students from NPTEL /SWYAM, Academic Year 2020-2021)**

Online courses offered by NPTEL / SWAYAM

### Semester – III

Sr. No	Name of Subject as per Curriculum	Course Code	Semester	SWAYAM/ NPTEL Course and Web LINK / Course ID	Name of Institute offering course	Relevance %	Duration of Course	Course Commencement Date	Course end date	Course Exam Date
1	Mechanical Operation	BTCHC 304	III	Mechanical Unit Operations Swayam.gov.in/nd1_noc20_ch27/preview 20 July – 09 October 2020 (12 Weeks)	<u>IIT, Guwahati</u>	70	12 weeks	20 Jul 2020	09 Oct 2020	18 Oct 2020

### Semester-VII

Sr. No	Name of Subject as per Curriculum	Course Code	Semester	SWAYAM/ NPTEL Course and Web LINK / Course ID	Name of Institute offering course	Relevance %	Duration of Course	Course Commencement Date	Course end date	Course Exam Date
1	Process Dynamics and Control	BTCHC 701	VII	Control Systems Swayam.gov.in/nd1_noc20_ee90/preview 20 July – 09 October 2020(12 weeks)	IIT Madras	70	12 weeks	20 Jul 2020	9 Oct 2020	18 Oct 2020



**Department of Petrochemical Engineering**  
**(Odd Semester Online Course Learning Option to Students from SWYAM /NPTEL , Academic Year 2020-2021)**

Online courses offered by SWAYAM/NPTEL

**Semester – III**

Sr. No	Name of Subject as per Curriculum	Course Code	Semester	SWAYAM/ NPTEL Course and Web LINK / Course ID	Name of Institute offering course	Relevance %	Duration of Course	Course Commencement Date	Course end Date	Course Exam Date
1	Mechanical Operation	BTCHC 304	III	Mechanical Unit Operations <a href="https://swayam.gov.in/nd1_noc20_ch27/p_review">https://swayam.gov.in/nd1_noc20_ch27/p_review</a>	<u>IIT, Guwahati</u>	70	12 weeks	20 Jul 2020	09 Oct 2020	18 Oct 2020

**Semester-VII**

Sr. No	Name of Subject as per Curriculum	Course Code	Semester	SWAYAM/ NPTEL Course and Web LINK / Course ID	Name of Institute offering course	Relevance %	Duration of Course	Course Commencement Date	Course end Date	Course Exam Date
1	Process Instrumentation and control	BTCHC 701	VII	Control Systems <a href="https://swayam.gov.in/nd1_noc20_ee90/p_review">https://swayam.gov.in/nd1_noc20_ee90/p_review</a>	<u>IIT, Madras</u>	70	12 weeks	20 Jul 2020	09 Oct 2020	18 Oct 2020

## Civil Engineering

**(Odd Semester Online Course Learning Option to Students from SWYAM /NPTEL , Academic Year 2020-2021)**

*Online courses offered by SWAYAM /NPTEL*

### Semester – III

Sr. No	Name of Subject as per Curriculum	Course Code	Semester	SWAYAM/ NPTEL Course and Web LINK / Course ID	Name of Institute offering course	Relevance %	Duration of Course	Course Commencement Date	Course end date	Course Exam Date
1	Mechanics of Solids	BTCVC302	III	Strength Of Materials  Prof. Sriman Kumar Bhattacharyya  <a href="https://swayam.gov.in/nd1_noc20_ce34/preview">https://swayam.gov.in/nd1_noc20_ce34/preview</a>	IIT Kharagpur	70	12 weeks	20 Jul 2020	09 Oct 2020	18 Oct 2020

### Semester – V

Sr. No	Name of Subject as per Curriculum	Course Code	Semester	SWAYAM/ NPTEL Course and Web LINK / Course ID	Name of Institute offering course	Relevance %	Duration of Course	Course Commencement Date	Course end date	Course Exam Date
1	Soil Mechanics	BTCVC 503	V	Prof. Dilip Kumar Baidya  Soil Mechanics/ Geotechnical Engineering - I  <a href="https://swayam.gov.in/nd1_noc20_ce38/preview">https://swayam.gov.in/nd1_noc20_ce38/preview</a>	IIT Kharagpur	90 %	12 weeks	20 Jul 2020	09 Oct 2020	18 Oct 2020

**Mechanical Engineering**  
**(Odd Semester Online Course Learning Option to Students from NPTEL /SWYAM, Academic Year 2020-2021)**

Online courses offered by NPTEL / SWAYAM

**Semester – III**

Sr. No	Name of Subject as per Curriculum	Course Code	Semester	SWAYAM/ NPTEL Course and Web LINK / Course ID	Name of Institute offering course	Relevance %	Duration of Course	Course Commencement Date	Course end date	Course Exam Date
1	Fluid Mechanics	BTMEC303	III	<a href="https://swayam.gov.in/nd1_noc20_ce59/p_review">https://swayam.gov.in/nd1_noc20_ce59/p_review</a>	1) IIT, Guwahati	90	8 weeks	17 Aug 2020	09 Oct 2020	17 Oct 2020

**Semester – V**

Sr. No	Name of Subject as per Curriculum	Course Code	Semester	SWAYAM/ NPTEL Course and Web LINK / Course ID	Name of Institute offering course	Relevance %	Duration of Course	Course Commencement Date	Course end date	Course Exam Date
1	Heat Transfer	BTMEC501	V	<a href="https://swayam.gov.in/nd1_noc20_ch21/p_review">https://swayam.gov.in/nd1_noc20_ch21/p_review</a>	IIT Kharagpur	90	12 weeks	20 Jul 2020	09 Oct 2020	17 Oct 2020

**Mechanical Engineering sandwich  
(Odd Semester Online Course Learning Option to Students from NPTEL /SWYAM, Academic Year 2020-2021)**

**Online courses offered by NPTEL / SWAYAM**

**Semester – III**

Sr. No	Name of Subject as per Curriculum	Course Code	Semester	SWAYAM/ NPTEL Course and Web LINK / Course ID	Name of Institute offering course	Relevance %	Duration of Course	Course Commencement Date	Course end date	Course Exam Date
1	Fluid Mechanics	BTMEC303	III	<a href="https://swayam.gov.in/nd1_noc20_ce59/preview">https://swayam.gov.in/nd1_noc20_ce59/preview</a>	1) IIT, Guwahati	90	8 weeks	17 Aug 2020	09 Oct 2020	17 Oct 2020

**Semester – V**

Sr. No	Name of Subject as per Curriculum	Course Code	Semester	SWAYAM/ NPTEL Course and Web LINK / Course ID	Name of Institute offering course	Relevance %	Duration of Course	Course Commencement Date	Course end date	Course Exam Date
1	Heat Transfer	BTMEC501	V	<a href="https://swayam.gov.in/nd1_noc20_ch21/preview">https://swayam.gov.in/nd1_noc20_ch21/preview</a>	IIT Kharagpur	90	12 weeks	20 Jul 2020	09 Oct 2020	17 Oct 2020

**Production Engineering**  
**(Odd Semester Online Course Learning Option to Students from NPTEL /SWYAM, Academic Year 2020-2021)**

Online courses offered by NPTEL / SWAYAM

**Semester – III**

Sr. No	Name of Subject as per Curriculum	Course Code	Semester	SWAYAM/ NPTEL Course and Web LINK / Course ID	Name of Institute offering course	Relevance %	Duration of Course	Course Commencement Date	Course end date	Course Exam Date
1	Fluid Mechanics	BTAMC303	III	<a href="https://swayam.gov.in/nd1_noc20_ce59/preview">https://swayam.gov.in/nd1_noc20_ce59/preview</a>	1) IIT, Guwahati	90	8 weeks	17 Aug 2020	09 Oct 2020	17 Oct 2020

**Semester – V**

Sr. No	Name of Subject as per Curriculum	Course Code	Semester	SWAYAM/ NPTEL Course and Web LINK / Course ID	Name of Institute offering course	Relevance %	Duration of Course	Course Commencement Date	Course end date	Course Exam Date
1	Metal Forming Processes	BTPRC503	V	<a href="https://swayam.gov.in/nd1_noc20_me67/preview">https://swayam.gov.in/nd1_noc20_me67/preview</a>	IIT Roorkee	70	12 weeks	20 Jul 2020	11 Sept 2020	27 sept 2020

**Automobile Engineering**  
**(Odd Semester Online Course Learning Option to Students from NPTEL /SWYAM, Academic Year 2020-2021)**

Online courses offered by NPTEL / SWAYAM

**Semester – III**

Sr. No	Name of Subject as per Curriculum	Course Code	Semester	SWAYAM/ NPTEL Course and Web LINK / Course ID	Name of Institute offering course	Relevance %	Duration of Course	Course Commencement Date	Course end date	Course Exam Date
1	Fluid Mechanics and Machines	BTAMC303	III	<a href="https://swayam.gov.in/nd1_noc20_ce59/preview">https://swayam.gov.in/nd1_noc20_ce59/preview</a>	1) IIT, Guwahati	70	8 weeks	17 Aug 2020	09 Oct 2020	17 Oct 2020









