

GURU NANAK DEV ENGINEERING COLLEGE, LUDHIANA

NOTICE

It is for the information to all the students that notice for honour and minor degree for all the departments are attached herewith. The last date to enroll for the courses at website www.swayam.gov.in is **21st September 2020**. For any query and doubt students can contact to the department co-ordinator of their respective department at following numbers:

1. Dr. Narwant Singh (ECE)	Coordinator	9855018703
2. Pf. Lakhveer Singh Khana(ME)	Co-Coordinator	9464663313
3. Dr. Rajveer Kaur(Applied science)	Member	8872300538
4. Pf. Amit Kamra (IT)	Member	9814229753
5. Pf. Shailja (CSE)	Member	9501421234
6. Pf. Arshdeep Kaur (Production)	Member	9779844312
7. Pf. Charanjeet Singh (Civil)	Member	9465196630
8. Pf. Manpreet Singh(Mechanical)	Member	8427711011
9. Pf. Navneet Kaur (ECE)	Member	8283844114
10. Pf Sonia Grover (Electrical)	Member	9780565501
11. Pf.Mandeep Kaur (MBA)	Member	9464912297

Note: Students can reimburse the registration fee for online swayam course from TEQIP-III after filling the requisite form as per the rules.

List of MOOCs for Minor in B.Tech (Civil Engineering)

S No	Course Name	SME Name	Institute	Duration	Course Start Date	Online apply
1	Design of Masonry Structures	Prof. Arun Menon	IIT Madras	12 weeks	14 Sept 2020	https:// onlinecourses.nptel.ac.in/ noc20_ce55/preview
2	Design of steel structures	Prof. Damodar Maity	IIT Kharagpur	12 weeks	14 Sept 2020	https:// onlinecourses.nptel.ac.in/ noc20_ce37/preview
3	Municipal Solid Waste Management	Prof. Ajay Kalamdhad	IIT Guwahati	12 weeks	14 Sept 2020	https:// onlinecourses.nptel.ac.in/ noc20_ce56/preview
4	Project Planning & Control	Prof. Koshy Varghese	IIT Madras	8 weeks	14 Sept 2020	https:// onlinecourses.nptel.ac.in/ noc20_ce44/preview

List of MOOCs for Honor in B.Tech (Civil Engineering)

S No	Course Name	SME Name	Institute	Duration	Course Start Date	Online apply
1	Advanced Concrete Technology	Prof. Manu Santhanam	IIT Madras	12 weeks	14 Sept 2020	https://onlinecourses.nptel.ac.in/noc20_ce45/preview
2	Design of Masonry Structures	Prof. Arun Menon	IIT Madras	12 weeks	14 Sept 2020	https://onlinecourses.nptel.ac.in/noc20_ce55/preview
3	Earth Sciences for Civil Engineering Part - I & II	Prof. Javed N. Malik	IIT Kanpur	8 weeks	14 Sept 2020	https://onlinecourses.nptel.ac.in/noc20_ce33/preview
4	Earthquake Resistant Design of Foundations	Prof. B. K. Maheshwari	IIT Roorkee	8 weeks	14 Sept 2020	https://onlinecourses.nptel.ac.in/noc20_ce52/preview
5	GPS Surveying	Prof. J. K. Ghosh	IIT Roorkee	4 weeks	14 Sept 2020	https://onlinecourses.nptel.ac.in/noc20_ce51/preview
6	Glass Processing Technology	Prof. K N Satyanarayana, Prof. E. Rajasekar	IIT Madras, IIT Roorkee	12 weeks	14 Sept 2020	https://onlinecourses.nptel.ac.in/noc20_ce46/preview
7	Glass in buildings: Design and applications	Prof. K N Satyanarayana, Prof. E. Rajasekar	IIT Madras, IIT Roorkee	12 weeks	14 Sept 2020	https://onlinecourses.nptel.ac.in/noc20_ce47/preview
8	Global Navigation Satellite Systems and Applications	Prof. Arun K. Saraf	IIT Roorkee	4 weeks	14 Sept 2020	https://onlinecourses.nptel.ac.in/noc20_ce62/preview

MOOCs for July-Nov 2020

9	Integrated Waste Management for a Smart City	Prof. Brajesh Kumar Dubey	IIT Kharagpur	12 weeks	14 Sept 2020	https://onlinecourses.nptel.ac.in/noc20_ce43/preview
10	Introduction to Multimodal Urban Transportation Systems (MUTS)	Prof. Arkopal Kishore Goswami	IIT Kharagpur	12 weeks	14 Sept 2020	https://onlinecourses.nptel.ac.in/noc20_ce53/preview
11	Introduction to Engineering Seismology	Prof. Anbazhagan P	IISC Bangalore	12 weeks	14 Sept 2020	https://onlinecourses.nptel.ac.in/noc20_ce61/preview
12	Municipal Solid Waste Management	Prof. Ajay Kalamdhad	IIT Guwahati	12 weeks	14 Sept 2020	https://onlinecourses.nptel.ac.in/noc20_ce56/preview
13	Photogeology in Terrain Evaluation (Part 1 and 2)	Prof. Javed N. Malik	IIT Kanpur	8 weeks	14 Sept 2020	https://onlinecourses.nptel.ac.in/noc20_ce60/preview
14	Reinforced Concrete Road Bridges	Prof. Nirjhar Dhang	IIT Kharagpur	4 weeks	14 Sept 2020	https://onlinecourses.nptel.ac.in/noc20_ce40/preview
15	Remote Sensing and GIS	Prof. Rishikesh Bharti	IIT Guwahati	8 weeks	14 Sept 2020	https://onlinecourses.nptel.ac.in/noc20_ce58/preview
16	River Engineering	Prof. Subashisa Dutta	IIT Guwahati	8 weeks	14 Sept 2020	https://onlinecourses.nptel.ac.in/noc20_ce54/preview

Guru Nanak Dev Engineering College, Ludhiana

Department of Computer Science and Engineering

Ref. No.: CSE/383

Dated: 14.7.2020

Notice for Minor Engineering Degree

The students of branches other than B.Tech. (CSE) can opt for minor engineering degree as per the following guidelines:

1. The students can earn 8 credits out of total 20 credits through MOOCs. The remaining 12 credits have to be earned through classroom teaching.
2. List of subjects for session August-December, 2020 which can be opted through MOOCs are as following

Course Id	Course Name	Institute	Duration	Swayam URL
noc20-cs58	Programming in Java	IIT KGP	12 Weeks	https://swayam.gov.in/nd1_noc20_cs58/preview
noc20-cs64	Computer architecture and organization	IIT KGP	12 Weeks	https://swayam.gov.in/nd1_noc20_cs64/preview
noc20-cs66	Introduction to internet of things	IIT KGP	12 Weeks	https://swayam.gov.in/nd1_noc20_cs66/preview
noc20-cs67	Switching Circuits and Logic Design	IIT KGP	12 Weeks	https://swayam.gov.in/nd1_noc20_cs67/preview
noc20-cs69	Introduction to Industry 4.0 and Industrial Internet of Things	IIT KGP	12 Weeks	https://swayam.gov.in/nd1_noc20_cs69/preview
noc20-cs73	Introduction to Machine Learning	IITM	12 Weeks	https://swayam.gov.in/nd1_noc20_cs73/preview
noc20-cs74	Reinforcement Learning	IITM	12 Weeks	https://swayam.gov.in/nd1_noc20_cs74/preview
noc20-cs77	Software Testing	IITB	12 Weeks	https://swayam.gov.in/nd1_noc20_cs77/preview
noc20-cs78	Social Networks	IIT Ropar	12 Weeks	https://swayam.gov.in/nd1_noc20_cs78/preview
noc20-cs81	Artificial Intelligence Search Methods For Problem Solving	IITM	12 Weeks	https://swayam.gov.in/nd1_noc20_cs81/preview
noc20-cs82	Discrete Mathematics	IIT Ropar & IIT Gandhinagar	12 Weeks	https://swayam.gov.in/nd1_noc20_cs82/preview
noc20-cs83	The Joy of Computing using Python	IIT Ropar	12 Weeks	https://swayam.gov.in/nd1_noc20_cs83/preview
noc20-cs84	Object Oriented System Development using UML, Java and Patterns	IIT KGP	12 Weeks	https://swayam.gov.in/nd1_noc20_cs84/preview
noc20-cs87	Applied Natural Language Processing	CMI	12 Weeks	https://swayam.gov.in/nd1_noc20_cs87/preview
noc20-cs88	Deep Learning for Computer Vision	IITH	12 Weeks	https://swayam.gov.in/nd1_noc20_cs88/preview
noc20-cs93	Introduction to algorithms and analysis	IIT KGP	12 Weeks	https://swayam.gov.in/nd1_noc20_cs93/preview

3. The credits earned in Minor engineering will not be considered for an honour degree.
4. Passed out students can also avail the option of pursuing a minor degree in the concerned subject, however the degree must be completed within stipulated period as notified by IKGPTU for the completion of the B.Tech.
5. The allotted number of seats for minor engineering degree in Computer Science and Engineering are 50 and allotment will be done on merit basis.
6. The students must enrol on the web link mentioned along with the course latest by 27th July, 2020.
7. The duly filled proforma (available on departmental web link) must be submitted at moocsaugust2020@gmail.com by 30th July, 2020. And the same will be forwarded to the concerned parent department of the student.

HOD (CSE)

Guru Nanak Dev Engineering College, Ludhiana
Department of Computer Science and Engineering

Ref. No.: CSE/382

Dated: 14.7.2020

Notice for Honour Degree

The students of B.Tech. (CSE) (2018 batch onwards) can opt for honour degree as per the following guidelines:

1. List of subjects for session August-December, 2020 which can be opted through MOOCs

Course id	Course Name	Institute	Duration of Course	URL to join
noc20-cs62	Deep Learning	IIT KGP	12 Weeks	https://swayam.gov.in/nd1_noc20_cs62/preview
noc20-cs66	Introduction to internet of things	IIT KGP	12 Weeks	https://swayam.gov.in/nd1_noc20_cs66/preview
noc20-cs73	Introduction to Machine Learning	IITM	12 Weeks	https://swayam.gov.in/nd1_noc20_cs73/preview
noc20-cs74	Reinforcement Learning	IITM	12 Weeks	https://swayam.gov.in/nd1_noc20_cs74/preview
noc20-cs78	Social Networks	IIT Ropar	12 Weeks	https://swayam.gov.in/nd1_noc20_cs78/preview
noc20-cs88	Deep Learning for Computer Vision	IITH	12 Weeks	https://swayam.gov.in/nd1_noc20_cs88/preview
noc20-mg37	Bandit Algorithm (Online Machine Learning)	IITB	12 Weeks	https://swayam.gov.in/nd1_noc20_mg37/preview

2. The subjects should be chosen other than in the study scheme 2018 of B. Tech. (CSE).
3. Twenty (20) credits can be earned through MOOCs to secure honour degree.
4. Choice of one course other than parent branch is allowed.
5. The students must enroll on the web link mentioned along with the course latest by 27th July, 2020.
6. After enrollment, the students have to send the proforma to moocsaugust2020@gmail.com by 31st July, 2020 with the details of the course enrolled.

HOD (CSE)

Guru Nanak Dev Engineering College, Ludhiana
Department of Computer Science and Engineering

Ref. No.: CSE/460

Date: 27.8.2020

Notice for Classroom Teaching for Minor Engineering Degree

This is to inform the students who are pursuing minor engineering degree in Computer Science and Engineering department that as per letter no. CSE/383 dated 14.07.2020, 12 credits have to be earned through classroom teaching.

1. Classroom teaching for following subjects will be held this semester (Aug-Dec, 2020).
 - a. Computer Networks (3-0-0)
 - b. Computer Networks Laboratory (0-0-2)
 - c. Database Management Systems (3-0-0)
 - d. Database Management Systems Laboratory (0-0-2)
2. The classes for these subjects will be held as per the time table available at https://cse.gndec.ac.in/sites/default/files/TT_18AUG_2020_with_room_.pdf.
3. The college fees for theory course will be Rs. 5000/- including Rs. 500/- examination fees and Rs.2500/- for practical courses.
4. Re-appear fees will be Rs. 500/- for per theory course and Rs. 250/- for practical course.
5. The examination and MST's will be held along with regular exams for classroom teaching subjects.
6. The proforma available with this notice has to be filled and sent at moocsaugust2020@gmail.com by 10th September, 2020 positively.

HOD (CSE)

Department of Computer Science and Engineering

Performa for Minor Engineering Degree (Session: August– December 2020)

Branch: _____

University Roll No.: _____

Semester: _____

Name: _____

Contact No.: _____

Course Name	SGPA (1st Sem)	SGPA (2nd Sem)	SGPA (3rd Sem)

Signature of Student

Guru Nanak Dev Engineering College, Ludhiana
Department of Electronics and Communication Engineering

Ref. No.1918

Dated: 16.7.2020

Notice for Minor Engineering Degree

The students of branches other than B.Tech. (ECE) can opt for minor engineering degree as per the following guidelines:

1. The students can earn 8 credits out of total 20 credits through MOOCs. The remaining 12 credits have to be earned through classroom teaching.
2. List of subjects for session August-December, 2020 which can be opted through MOOCs (**Courses starting from 20th July, 2020**) are as follows:

Course ID	Course Name	Institute	Duration	Swayam URL
noc20-ee61	Introduction to Wireless and Cellular Communications	II TM	12 Weeks	https://swayam.gov.in/nd1_noc20_ee61/preview
noc20-ee55	Op-Amp Practical Applications: Design, Simulation and Implementation	IISc	12 Weeks	https://swayam.gov.in/nd1_noc20_ee55/preview
noc20-ee69	Analog communication	IIT KGP	12 Weeks	https://swayam.gov.in/nd1_noc20_ee69/preview
noc20-ee70	Digital Circuits	IIT KGP	12 Weeks	https://swayam.gov.in/nd1_noc20_ee70/preview
noc20-ee89	Analog Electronic	IITD	12 Weeks	https://swayam.gov.in/nd1_noc20_ee89/preview
noc20-ee96	Information Theory	IISc	12 Weeks	https://swayam.gov.in/nd1_noc20_ee96/preview
noc20-ee75	Digital Image Processing	IIT KGP	12 Weeks	https://swayam.gov.in/nd1_noc20_ee75/preview
noc20-ee98	Introduction to Embedded System Design	Netaji Subhas University of Technology and IIT Jammu	12 Weeks	https://swayam.gov.in/nd1_noc20_ee98/preview
noc20-ee90	Control systems	IITM	12 Weeks	https://swayam.gov.in/nd1_noc20_ee90/preview
noc20-ee77	Semiconductor Devices and Circuits	IISc	12 Weeks	https://swayam.gov.in/nd1_noc20_ee77/preview

3. The credits earned in Minor engineering will not be considered for Honour Degree.
4. Passed out students can also avail the option of pursuing a minor degree in the concerned subject, however the degree must be completed within stipulated period as notified by IKGPTU for the completion of the B.Tech.
5. The students **must enroll** on the web link mentioned along with the **course latest by 27th July, 2020**.
6. The **duly filled Performa** (available on departmental web link) must be **submitted at ece@gndec.ac.in by 30th July, 2020** and the same will be forwarded to the concerned parent department of the student.

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HOD (ECE)

Guru Nanak Dev Engineering College, Ludhiana
Department of Electronics and Communication Engineering

No.ECE/1917

Dated: 16.07.2020

Notice for Honour Degree

The students of B.Tech. (ECE) (2018 batch onwards) can opt for honour degree as per the following guidelines:

1. List of subjects for session Aug-Nov, 2020 which can be opted through MOOCs are :

Course Id	Course Name	Institute	Duration	Weblink	Course Start Date
noc20-ee83	Image Signal Processing	IITM	12 Weeks	https://swayam.gov.in/nd1_noc20_ee83/preview	July 20, 2020
noc20-ee55	Op-Amp Practical Applications: Design, Simulation and Implementation	IISc	12 Weeks	https://swayam.gov.in/nd1_noc20_ee55/preview	July 20, 2020
noc20-ee63	Microwave Theory and Techniques	IITB	12 Weeks	https://swayam.gov.in/nd1_noc20_ee63/preview	July 20, 2020
noc20-ee93	Applied Electromagnetics For Engineers	IITK	12 weeks	https://swayam.gov.in/nd1_noc20_ee93/preview	July 20, 2020
noc20-ee77	Semiconductor Devices and Circuits	IISc	12 Weeks	https://swayam.gov.in/nd1_noc20_ee77/preview	July 20, 2020
noc20-ee56	Fabrication Techniques for MEMs-based sensors : clinical perspective	IISc	12 Weeks	https://swayam.gov.in/nd1_noc20_ee56/preview	July 20, 2020
noc20-ee59	Applied Optimization for Wireless, Machine Learning, Big Data	IITK	12 Weeks	https://swayam.gov.in/nd1_noc20_ee59/preview	July 20, 2020

2. The subjects chosen should be such that they are other than those in the study scheme 2018 of B. Tech. (ECE).

3. Twenty (20) credits can be earned through MOOCs to secure Honour degree.

4. Choice of one course other than parent branch is allowed.

Note: All the interested students of ECE department (2018 batches onwards) are required to fill the form (available on website) with the details of course (12 Week Course) in which they are going to appear in current semester. The Scanned copy of the same is to be mailed to department's Email Id : ece@gndec.ac.in by 27th July 2020. The last date to enroll for the course on SWAYAM portal is 27th July 2020.

--SD--
HOD (ECE)

GURU NANAK DEV ENGINEERING COLLEGE, LUDHIANA
DEPARTMENT OF ELECTRICAL ENGINEERING

Ref. No. EE/43

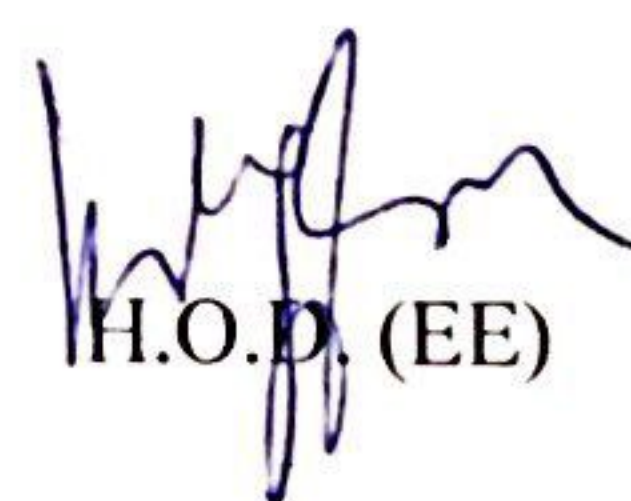
Dated: 09/01/2020

Notice for Minor Engineering Degree

The B.Tech. Students of 2018 admission batch onwards and branches (other than EE) can opt for minor engineering degree as per the following guidelines:

1. 1st and 2nd semester should be successfully cleared by Non-LEET students and LEET students can also enroll.
2. The students can earn 8 credits out of total 20 credits through MOOCs. The remaining 12 credits have to be earned through class room teaching.
3. The student must opt for a minimum of 12 week MOOC course as per the list attached herewith. A student can earn 4 credits by passing a 12 week MOOC course.
4. The student is allowed to register for maximum two subjects in a semester through MOOCs.
5. The college fee for theory course will be Rs 5000/- including Rs 500/- examination fee and Rs. 2500/- for practical courses.
6. Re-appear fees will be Rs. 500/- for per theory course and Rs. 250/- for practical course.
7. The examination and MST's will be held along with regular exams for classroom teaching subjects.
8. The credits earned in Minor engineering through MOOCs will not be considered for honour degree.
9. Passed out students (of 2018 admission batch onwards only) can also avail the option of persuing minor degree in the concerned subject, however the degree must be completed within stipulated period as notified by IKGPTU for the completion of the B.Tech.
10. The duly filed Performa given herewith (also available on departmental weblink) forwarded by head of the parent department must be submitted to Mrs. Harinder Kaur, clerk, EE department by 28th January, 2020. The result of 1st and 2nd semester should be attached with the performa. The last date to enroll for the course on SWAYAM portal is 27th January 2020. The list of course for class room teaching will be notified separately.

NOTE: All the interested students of other department's (2018 batches onwards) are required to fill the form (available on EE deptt link) with the details of course (12 week course) in which they are going to appear in current semester. The number of seats are 50 and seats will be allotted on merit basis (%age of previous semester).


H.O.D. (EE)

CC:-

1. All H.O.D.s
2. Principal for kind information
3. Dean Academics
4. DNB/CNB
5. Prof. G.K. Gill to upload on deptt. Website
6. NPTEL Coordinator
7. BOS File

GURU NANAK DEV ENGINEERING COLLEGE, LUDHIANA

DEPARTMENT OF ELECTRICAL ENGINEERING

List of courses for session Jan-April 2020 which can be opted through MOOCs:

S. No.	Course id	Course Name	Institute	Duration of Course	Web link
1.	noc20-ee15	Principles of Signals and Systems	IITK	12 weeks	https://swayam.gov.in/nd1_noc20_ee15/preview
2.	noc20-ee06	Signals and Systems	IISER Bhopal	12 Weeks	https://swayam.gov.in/nd1_noc20_ee06/preview
3.	noc20-ee16	Principles of Communication Systems - I	IITK	12 weeks	https://swayam.gov.in/nd1_noc20_ee16/preview
4.	noc20-ee17	Principles of Digital Communication	IITD	12 weeks	https://swayam.gov.in/nd1_noc20_ee17/preview
5.	noc20-ee51	Mathematical Methods and Techniques in Signal Processing	IISc	12 weeks	https://swayam.gov.in/nd1_noc20_ee51/preview
6.	noc20-ee53	Statistical Signal Processing	IITG	12 Weeks	https://swayam.gov.in/nd1_noc20_ee53/preview
7.	noc20-ee21	Multirate DSP	IITM	12 Weeks	https://swayam.gov.in/nd1_noc20_ee21/preview
8.	noc20-ee34	Spread Spectrum Communications and Jamming	IIT KGP	12 Weeks	https://swayam.gov.in/nd1_noc20_ee34/preview
9.	noc20-ee13	Integrated Circuits, MOSFETs, OP-Amps and their Applications	IISc	12 Weeks	https://swayam.gov.in/nd1_noc20_ee13/preview
10.	noc20-ee46	Network Analysis	IIT KGP	12 weeks	https://swayam.gov.in/nd1_noc20_ee46/preview
11.	noc20-ee27	Analog Circuits	IITM	12 Weeks	https://swayam.gov.in/nd1_noc20_ee27/preview
12.	noc20-ee45	Analog Electronic Circuits	IIT KGP	12 Weeks	https://swayam.gov.in/nd1_noc20_ee45/preview
13.	noc20-ee30	Analog Circuits and Systems through SPICE Simulation	IIT KGP	12 Weeks	https://swayam.gov.in/nd1_noc20_ee30/preview
14.	noc20-ee32	Digital Electronic Circuits	IIT KGP	12 weeks	https://swayam.gov.in/nd1_noc20_ee32/preview
15.	noc20-ee02	High Power Multilevel Converters- Analysis, design and operational issues	IITD	12 Weeks	https://swayam.gov.in/nd1_noc20_ee02/preview
16.	noc20-ee04	Transmission lines and electromagnetic waves	IITM	12 Weeks	https://swayam.gov.in/nd1_noc20_ee04/preview
17.	noc20-ee20	Antennas	IITB	12 Weeks	https://swayam.gov.in/nd1_noc20_ee20/preview
18.	noc20-bt17	Fundamentals of semiconductor devices	IISc	12 Weeks	https://swayam.gov.in/nd1_noc20_bt17/preview
19.	noc20-ee26	Analog IC Design	IITM	12 Weeks	https://swayam.gov.in/nd1_noc20_ee26/preview
20.	noc20-ee05	Digital IC Design	IITM	12 Weeks	https://swayam.gov.in/nd1_noc20_ee05/preview
21.	noc20-ee37	Architectural Design of Digital Integrated Circuits	IIT KGP	12 Weeks	https://swayam.gov.in/nd1_noc20_ee37/preview
22.	noc20-ee42	Microprocessors And Microcontrollers	IIT KGP	12 weeks	https://swayam.gov.in/nd1_noc20_ee42/preview
23.	noc20-ee11	Microprocessors and Interfacing	IITG	12 weeks	https://swayam.gov.in/nd1_noc20_ee11/preview
24.	noc20-ee08	Power Management Integrated Circuits	IITM	12 Weeks	https://swayam.gov.in/nd1_noc20_ee08/preview
25.	noc20-ee38	Electrical Machines - II	IIT KGP	12 weeks	https://swayam.gov.in/nd1_noc20_ee38/preview
26.	noc20-ee09	DC Power Transmission Systems	IITM	12 weeks	https://swayam.gov.in/nd1_noc20_ee09/preview
27.	noc20-ee39	Power System Engineering	IIT KGP	12 weeks	https://swayam.gov.in/nd1_noc20_ee39/preview
28.	noc20-ee22	Control engineering	IITM	12 weeks	https://swayam.gov.in/nd1_noc20_ee22/preview
29.	noc20-ee54	Nonlinear System Analysis	IITM	12 weeks	https://swayam.gov.in/nd1_noc20_ee54/preview
30.	noc20-ee23	Introduction to Photonics	IITM	12 weeks	https://swayam.gov.in/nd1_noc20_ee23/preview
31.	noc20-ee48	Optical Engineering	IITM	12 weeks	https://swayam.gov.in/nd1_noc20_ee48/preview
32.	noc20-ee41	Biomedical Signal Processing	IIT KGP	12 weeks	https://swayam.gov.in/nd1_noc20_ee41/preview
33.	noc20-ee14	Electronic Systems for Cancer Diagnosis	IISc	12 weeks	https://swayam.gov.in/nd1_noc20_ee14/preview
34.	noc20-ee03	Fuzzy Sets, Logic and Systems & Applications	IITK	12 weeks	https://swayam.gov.in/nd1_noc20_ee03/preview

Guru Nanak Dev Engineering College, Ludhiana
Department of Information Technology

Ref No. IT/30/2504

Dated:13/08/2020

Notice for Minor Degree

The students of branches other than B.Tech.(IT) can opt for Minor Engineering degree as per the following guidelines.

The list of MOOCs courses for session Aug-Dec 2020 is available in table below.

Course id	Name of Course	Duration of Course	Web link (Go to swayam.gov.in, sign in with the google account Then Click the below link to join the course)	Course Pre-requisites	Students who can enroll
noc20-cs58	Programming in Java	12 weeks	https://onlinecourses.nptel.ac.in/noc20_cs58/preview	Programming language such as C/C++	Batch-2019
noc20-cs64	Computer architecture and organization	12 weeks	https://onlinecourses.nptel.ac.in/noc20_cs64/preview	Basic concepts in digital circuit design, Familiarity with a programming language like C or C++	Batch-2019
noc20-cs93	Introduction to algorithms and analysis	12 weeks	https://onlinecourses.nptel.ac.in/noc20_cs93/preview	Basic Programming	Batch-2019

The list of course for class room teaching for session Aug-Dec 2020

Course Code	Course Name	Course Pre-requisites	Students who can enroll	Last date for enrollment
MnPCIT101	Data Structures	Basic Programming	Batch-2018	Within 15 working days from start of semester Aug-Dec 2020
MnLPC101	Data Structures Laboratory	Basic Programming	Batch-2018	Within 15 working days from start of semester Aug-Dec 2020

Note: All the interested students of other department's (2018 batches onwards) are required to fill the Form (available on IT website Link) with the details of course (12 Week Course) in which they are going to appear in current semester. The number of seats are 50 and Seats will be allotted on merit basis (% age of previous semester). The Scanned copy of the same is to be submitted to IT department (Email: it@gndec.ac.in) by 15th September, 2020 through their concerned department. The last date to enroll for the course on SWAYAM portal is 14th September, 2020.

Guidelines for enrolling in Minor Degree

1. 1st and 2nd Semester should be successfully cleared (**keeping in view present circumstances students of Batch-2019 will be provisionally admitted for Minor Degree due to delay in conduct of exam may-2020**) and LEET students can enroll in 3rd semester.
2. The Minor Degree is of total 20 credits out of which 8 credits has to be attained through MOOCs and rest of the 12 credits has to be attained through classroom Teaching.
3. The student is allowed to register for maximum two subjects in a semester through MOOCs
4. The college fees for **Class Room theory course** will be Rs. 5000/- including Rs. 500/- examination fees and Rs. 2500/- for practical courses.
5. Re-appear fees will be Rs. 500/- for per theory course and Rs. 250/- for practical course.
6. The examination and MST's will be held along with regular exams for classroom teaching subjects.

HOD (IT)

Copy to

1. Principal for Information please
2. Dean Academics for Information
3. BOS File
4. NPTEL Coordinator

Guru Nanak Dev Engineering College, Ludhiana

Department of Information Technology

No. IT/30/2544

Dated: 31-08-2020

Notice for Honour Degree (Revised)

The list of course for 5th semester (2018 Batch only) for Honors Degree through MOOCs in B.Tech (IT) for session Aug-Dec 2020 is available in table below.

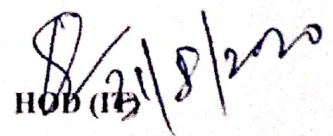
Course id	Name of Course	Duration of Course	Web link to enroll (Go to swayam.gov.in, sign in with the google account Then Click the below link to join the course)
noc20-cs81	Artificial Intelligence Search Methods For Problem Solving	12 Weeks	https://onlinecourses.nptel.ac.in/noc20_cs81/preview

The list of course for 3rd semester (2019 Batch only) for Honors Degree through MOOCs in B.Tech (IT) for session Aug-Dec 2020 is available in table below.

Course id	Name of Course	Duration of Course	Web link to enroll (Go to swayam.gov.in, sign in with the google account Then Click the below link to join the course)
noc20-cs78	Social Networks	12 Weeks	https://onlinecourses.nptel.ac.in/noc20_cs78/preview

Note: All the interested students of IT department are required to fill the form (available on website) with the details of course (12 Week Course) in which they are going to appear in current semester. The Scanned copy of the same is to be mailed to department's Email Id : it@gndec.ac.in by 10th September 2020.

The last date to enroll for the course on SWAYAM portal is September 14, 2020.


HOD (IT)

**Guru Nanak Dev Engineering College,
Department of Guru Nanak Dev Engg. College, Ludhiana**

ME/53/7694
Date 21/8/20

Dean Academics,

The students of Branches other than B. Tech. (ME) can opt for minor Engineering Degree as per the guidelines of tenth Academic Council (follow link on college website).

List of courses offered for Minor Degree in Mechanical Engineering

Course Type	Course Code	Course Name	Semester	Load Allocation			Marks Distribution			Credits
				L	T	P	Int.	Ext.	Total	
Core Theory	MnPCME - 101	Strength Of Materials	Odd	3	1	0	40	60	100	4
Core Theory	MnPCME - 102	Manufacturing Processes	Odd	3	0	0	40	60	100	3
Core Theory	MnPCME - 103	Engineering Materials And Metallurgy	Odd	3	0	0	40	60	100	3
Core Theory	MnPCME - 104	Mechanical Measurement And Control	Odd	3	0	0	40	60	100	3
Core Theory	MnPCME - 105	Industrial Automation And Robotics	Odd	3	0	0	40	60	100	3
Core Theory	MnPCME - 106	Finite Element Method	Odd	2	0	0	40	60	100	2
Core Theory	MnPCME - 107	Theory Of Machines	Even	3	1	0	40	60	100	4
Core Theory	MnPCME - 108	Thermodynamics	Odd	3	0	0	40	60	100	3
Core Theory	MnPCME - 109	Fluid Mechanics And Machinery	Even	3	1	0	40	60	100	4
Core Theory	MnPCME - 110	Modern Manufacturing Processes	Even	3	0	0	40	60	100	3
Core Theory	MnPCME - 111	Applied Thermodynamics	Even	3	1	0	40	60	100	4
Core Laboratory	MnLPCME - 101	Strength Of Materials Laboratory	Odd	0	0	2	30	20	50	1
Core Laboratory	MnLPCME - 102	Engineering Materials And Metallurgy Laboratory	Odd	0	0	2	30	20	50	1
Core Laboratory	MnLPCME - 103	Industrial Automation And Robotics Laboratory	Odd	0	0	2	30	20	50	1
Core Laboratory	MnLPCME - 104	Mechanical Measurement And Control Laboratory	Odd	0	0	2	30	20	50	1
Core Laboratory	MnLPCME - 105	Theory Of Machines Laboratory	Even	0	0	2	30	20	50	1
Core	MnLPCME-	Applied	Even	0	0	2	30	20	50	1

[Signature]
21/08/2020

**Guru Nanak Dev Engineering College,
Department of Guru Nanak Dev Engg. College, Ludhiana**

ME/53/7694
Date 21/8/20

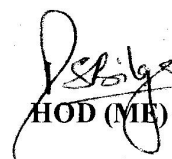
Laboratory	106	Thermodynamics Laboratory								
Elective Theory	MnPEME - 101	Product Design And Development	Even/Odd	4	0	0	40	60	100	4
Elective Theory	MnPEME - 102	Non Conventional Energy Resources	Even/Odd	4	0	0	40	60	100	4
Elective Theory	MnPEME - 103	Power Plant Engineering	Even/Odd	4	0	0	40	60	100	4
Elective Theory	MnPEME - 104	Industrial Tribology	Even/Odd	4	0	0	40	60	100	4
Elective Theory	MnPEME - 105	Non Traditional Machining	Even/Odd	4	0	0	40	60	100	4
Elective Theory	MnPEME - 106	Computer Aided Process Planning	Even/Odd	4	0	0	40	60	100	4

- Atleast one course shall be offered every Semester as per the Availability of Faculty.

List of MOOCs Courses for Current Semester (July-Dec 2020)

Course Type	Course Code	Course Name	credits	Weblink
MOOCS	noc20-me49	Manufacturing Systems Technology I & II	4	https://swayam.gov.in/nd1_noc20_me49/preview
MOOCS	noc20-me89	Dynamic Behaviour Of Materials	4	https://swayam.gov.in/nd1_noc20_me89/preview
MOOCS	noc20-me95	Introduction to Composites	4	https://swayam.gov.in/nd1_noc20_me95/preview
MOOCS	noc20-me28	Defects in Crystalline Solids (Part-I)	4	https://swayam.gov.in/nd1_noc20_me28/preview

Note: - Duly filled performa given herewith forwarded by head of the parent department must be submitted to Mr. Dhurv Pant, Clerk, ME department by 24th August, 2020. The last date to enroll for course on SWAYAM portal is 25/08/2020.


HOD (ME) 21/08/2020

CC:-

1. Principal for information
2. All HOD's
3. DNB
4. CNB
5. Prof. Chamkaur Jindal to Upload on Dept. Website

**Guru Nanak Dev Engineering College,
Department of Guru Nanak Dev Engg. College, Ludhiana**

ME/54/7697 Date 21/8/20

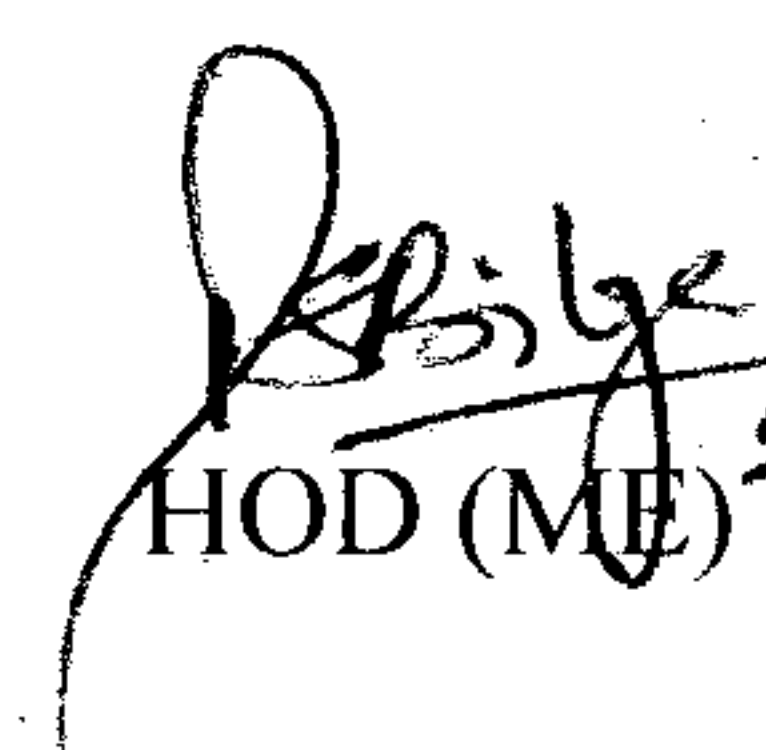
Dean Academics,

The students of B. Tech. (ME) can opt for Honors Degree in Mechanical Engineering as per the guidelines of tenth Academic Council (follow link on college website).

List of MOOCs Courses for Current Semester (July-Dec 2020)

Course Id	Course Name	Institute	Duration	Weblink
noc20-me50	Rapid Manufacturing	IITK	12 weeks	https://swayam.gov.in/nd1_noc20_me50/preview
noc20-mm21	Powder Metallurgy	IITM	12 weeks	https://swayam.gov.in/nd1_noc20_mm21/preview
noc20-me54	Advanced Fluid Mechanics	IITKGP	12 weeks	https://swayam.gov.in/nd1_noc20_me54/preview
noc20-mm20	Energy conservation and waste heat recovery	IITKGP	12 weeks	https://swayam.gov.in/nd1_noc20_mm20/preview

Note: - Duly filled performa given herewith forwarded by head of the parent department must be submitted to Mr. Dhurv Pant, Clerk, ME department (cme@gndec.ac.in) by 24th Aug, 2020. The results of 1st, 2nd and 3rd semester should be attached with the performa. The last date to enroll for course on SWAYAM portal is 25/08/2020 July 2020.


HOD (ME) 21/08/2020

CC:-

1. Principal for information
2. Prof. Chamkaur Jindal to Upload on Dept. Website

GURU NANAK DEV ENGINEERING COLLEGE, LUDHIANA
BACHELOR OF TECHNOLOGY (Minor Degree)
(PRODUCTION ENGINEERING) 2018

Ref. No.....

Dated:.....

Notice for Minor Engineering Degree

The B.Tech. students of 2018 admission batch onwards and branches (other than Production Engineering) can opt for minor engineering degree as per the following:

1. The students can earn 8 credits out of total 20 credits through MOOCs. The remaining 12 credits have to be earned through class room teaching.
2. The student must opt for a minimum 12 week MOOC course as per the list given below. A student can earn 4 credits by passing a 12 week MOOC course.
3. The credits earned in Minor Engineering through MOOCs will not be considered for honour degree.
4. Passed out students (of 2018 admission batch onwards only) can also avail the option of pursuing minor degree in the concerned subject, however the degree must be completed within stipulated period as noticed by IKGPTU for the completion of the B.Tech.
5. The duly filed Performa given herewith (also available on department weblink) forwarded by head of the parent department must be submitted to Mrs. Harpreet Kaur, clerk, PE department by 12th August 2019. The result of 1st and 2nd semester should be attached with the performa.

Courses offered by the Department

Course Type	Course Code	Course Name	Load Allocation			Marks Distribution			Credits
			L	T	P	Int.	Ext.	Total	
Core Theory	MnPCPE-108	Physical Metallurgy & Heat Treatment	3	0	0	40	60	100	3
Core Theory	MnPCPE-110	Inspection & Quality Control	3	0	0	40	60	100	3
Core Theory	MnPCPE-114	Industrial Tribology	3	0	0	40	60	100	3
Elective Theory	MnPEPE-144	Material Management	3	0	0	40	60	100	3

MOOCS courses for July- Nov. 2019

MOOCS	noc19-me40	Industrial Safety Engineering	4	0	0				4
MOOCS	noc19-me44	Fundamentals of Manufacturing Processes	4	0	0				4
MOOCS	noc19-me45	Manufacturing Systems Technology Part I & II	4	0	0				4
MOOCS	noc19-me50	Work System Design	4	0	0				4
MOOCS	noc19-me66	Plastic working of Metallic Materials	4	0	0				4
MOOCS	noc19-me70	Engineering Metrology	4	0	0				4

HOD (PE)

CC:-

1. All HODs
2. Principal for kind information
3. Dean Academics
4. DNB/CNB
5. Prof. Kanwalpreet Sahni to upload on Deptt. website

Guru Nanak Dev Engineering College, Ludhiana
Department of Production Engineering Engineering

Ref.No.....

Dated.....

Notice for Honour Degree

The students of B.Tech. (PE) (2018 batch onwards) can opt for honour degree as per the following guidelines:

1. List of subjects for session Aug-Nov, 2020 which can be opted through MOOCs are:

Course Id	Course Name	Institute	Duration	Weblink
noc20-hs79	Mathematical Modeling of Manufacturing Processes	IITG	12 Weeks	https://onlinecourses.nptel.ac.in/noc20_hs79/preview
noc20-me52	Heat Exchangers: Fundamentals and Design Analysis	IIT KGP	12 Weeks	https://onlinecourses.nptel.ac.in/noc20_me52/preview
noc20-me54	Advanced Fluid Mechanics	IIT KGP	12 Weeks	https://onlinecourses.nptel.ac.in/noc20_me54/preview
noc20-me68	Fundamentals of Surface Engineering: Mechanisms, Processes and Characterizations	IITR	12 Weeks	https://onlinecourses.nptel.ac.in/noc20_me68/preview
noc20-me74	Computational Continuum Mechanics	IITG	12 Weeks	https://onlinecourses.nptel.ac.in/noc20_me74/preview
noc20-me82	Computational Fluid Dynamics using Finite Volume Method	IITM	12 Weeks	https://onlinecourses.nptel.ac.in/noc20_me82/preview
noc20-me84	Solid Mechanics	IITD	12 Weeks	https://onlinecourses.nptel.ac.in/noc20_me84/preview
noc20-me90	Aircraft Propulsion	IITG	12 Weeks	https://onlinecourses.nptel.ac.in/noc20_me90/preview
noc20-mm22	X-ray Crystallography & Diffraction	IIST Shibpur	12 Weeks	https://onlinecourses.nptel.ac.in/noc20_mm22/preview

2. The subjects chosen should be such that they are other than those in the study scheme 2018 of B. Tech. (PE).

3. Twenty (20) credits can be earned through MOOCs to secure Honour degree.

4. Choice of one course other than parent branch is allowed.

Note: All the interested students of PE department (2018 batches onwards) are required to fill the form (available on website) with the details of course (12 Week Course) in which they are going to appear in current semester After enrollment students submitted Performa to Mrs. Harpreet Kaur, clerk, PE department by 20 Sep.,2020.

HOD (PE)