

Guru Nanak Dev Engineering College, Ludhiana
Department of Electrical Engineering

Ref.No.:

Notice for Minor Degree

Date:

The students of branches other than B.Tech. (EE) 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 in EED.
2. List of subjects for session January-May 2023 which can be opted through MOOCs is asbelow:

Course Id	Course Name	Institute	Link to Join
noc23-ee03	Fundamental of Power Electronics	IISc	https://nptel.ac.in/courses/108101126
noc23-ee04	Principles of Signals and Systems	IITK	https://nptel.ac.in/courses/108104100
noc23-ee05	Principles of Communication Systems - I	IITK	https://nptel.ac.in/courses/108104091
noc23-ee06	Microprocessors and Interfacing	IITG	https://nptel.ac.in/courses/108103157
noc23-ee08	Principles of Digital Communications	IITD	https://nptel.ac.in/courses/108102120
noc23-ee10	Analog Ic Design	IITM	https://nptel.ac.in/courses/108106105
noc23-ee11	Digital IC Design	IITM	https://nptel.ac.in/courses/108106158
noc23-ee13	Power Management Integrated Circuits	IITM	https://nptel.ac.in/courses/108106159
noc23-ee14	Signals and Systems	IIT Mandi	https://nptel.ac.in/courses/108106163
noc23-ee15	Transmission lines and electromagnetic waves	IITM	https://nptel.ac.in/courses/108106157
noc23-ee16	Control engineering	IITM	https://nptel.ac.in/courses/108106098
noc23-ee17	Fundamentals of semiconductor devices	IISc	https://nptel.ac.in/courses/108108122
noc23-ee20	High Power Multilevel Converters- Analysis, design and operational issues	IITD	https://nptel.ac.in/courses/108102157
noc23-ee21	Fuzzy Sets, Logic and Systems & Applications	IITK	https://nptel.ac.in/courses/108104157
noc23-ee25	Architectural Design of Digital Integrated Circuits	IIST Shibpur	https://nptel.ac.in/courses/108105118
noc23-ee28	Multirate DSP	IITM	https://nptel.ac.in/courses/108106136
noc23-ee29	Digital System Design	IIT Ropar	https://nptel.ac.in/courses/108106177
noc23-ee30	Stochastic Modeling and the Theory of Queues	IITM	https://nptel.ac.in/courses/108106179
noc23-ee31	Digital Signal Processing and its Applications	IITB	https://nptel.ac.in/courses/108101174
noc23-ee33	Digital Signal Processing	IITM	https://nptel.ac.in/courses/108106151
noc23-ee34	Circuit Analysis for Analog Designers	IITM	https://nptel.ac.in/courses/117106148
noc23-ee35	Semiconductor device modeling and Simulation	IITKGP	https://nptel.ac.in/courses/108105188
noc23-ee36	RF and Microwave Networks	IITKGP	https://nptel.ac.in/courses/108105189

noc23-ee37	Operation and Planning of Power Distribution Systems	IITG	https://nptel.ac.in/courses/117103149
noc23-ee39	Computer Vision and Image Processing - Fundamentals and Applications	IITG	https://nptel.ac.in/courses/108103174
noc23-ee76	Optical Engineering	IITM	https://nptel.ac.in/courses/108106161
noc23-ee77	Analog Electronic Circuits - IITM	IITM	https://nptel.ac.in/courses/108106188
noc23-ee78	Modern Computer Vision	IITM	https://nptel.ac.in/courses/108106189
noc23-ee40	Design and Analysis of VLSI Subsystems	IIIT Bangalore	https://nptel.ac.in/courses/117106149
noc23-ee47	Microprocessors And Microcontrollers	IITKGP	https://nptel.ac.in/courses/108105102
noc23-ee48	Analog Electronic Circuits - IITKGP	IITKGP	https://nptel.ac.in/courses/108105158
noc23-ee49	Biomedical Signal Processing	IITKGP	https://nptel.ac.in/courses/108105101
noc23-ee50	Digital Electronic Circuits	IITKGP	https://nptel.ac.in/courses/108105132
noc23-ee51	Power System Dynamics, Control and Monitoring	IITKGP	https://nptel.ac.in/courses/108105133
noc23-ee52	Power System Engineering	IITKGP	https://nptel.ac.in/courses/108105104
noc23-ee53	Deep Learning For Visual Computing	IITKGP	https://nptel.ac.in/courses/108105103
noc23-ee54	Network Analysis	IITKGP	https://nptel.ac.in/courses/108105159
noc23-ee55	Electrical Machines – II	IITKGP	https://nptel.ac.in/courses/108105131
noc23-ee56	Industrial Automation And Control	IITKGP	https://nptel.ac.in/courses/108105088
noc23-ee61	Optical Wireless Communications for Beyond 5G Networks and IoT	IIITD	https://nptel.ac.in/courses/108106190
noc23-ee62	Basic Electronics	IITB	https://nptel.ac.in/courses/108101091
noc23-ee63	Power Quality	IITD	https://nptel.ac.in/courses/108102179
noc23-ee65	Op-Amp Practical Applications: Design, Simulation and Implementation	IISc	https://nptel.ac.in/courses/108108114
noc23-ee66	Sensors and actuators	IISc	https://nptel.ac.in/courses/108108147


*The student should not choose the course having similar contents, studied already through MOOCs.

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 EE, 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 Electrical Engineering is 50 per batch and allotment will be done on merit basis.
6. The students must enrol on the web link mentioned along with the course latest by 30.01.23

7. The list of courses for session Jan-May,2023 for **classroom teaching in Electrical Engineering Department** is as below:

Subect Code	Subject Name	Credits
MnPCEE-101	Electrical Machines	2
MnPEEE-101	Renewable Energy Systems	3
MnLPCEE101	Electrical Machines Laboratory	1

8. The duly filled proforma (available on departmental web link) forwarded by the head of the parent department must be submitted in EED office by 30th Jan 2023.
9. The college fees for theory course is Rs 5000/- and Rs2500/- for practical courses and for reappear Rs 500/- per theory and Rs 250/- per practical course.
10. The classes for chosen subject will be held as per timetable in EED.


HOD (EE)

CC:

1. Dean Academics
2. All Departments
3. Departmental website incharge



GURU NANAK DEV ENGINEERING COLLEGE, LUDHIANA
DEPARTMENT OF ELECTRICAL ENGINEERING

Performa for Minor Engineering Degree

Session: Jan-May2023

Branch (Parent Department):

University Roll No.:

Semester:

Name:

Contact No.:

Fill the details of MOOCS and classroom teaching courses/subjects below, enrolled in current semester

Course id/ Subject Code	Course Name/ Subject Name						
Fill the details of Course(s) successfully completed (Attach the copies of previously completed MOOCs courses for MinorEngg.)							
S.No.	Course Name		Course id		Session of completion		
SGPA of the Student							
I Sem	II Sem	III Sem	IV Sem	V Sem	VI Sem	VII Sem	VIII Sem

Signature of Student

Signature of HOD (Parent Department)

Signature of HOD (EE)

*Attach the receipt of fees paid for classroom teaching.