

Guru Nanak Dev Engineering College, Ludhiana
Department of Electrical Engineering

Ref.No.:

Date:

Notice for Minor Degree

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 class room teaching in EED. The subjects for classroom teaching are mentioned on departmental website.
2. List of subjects for session July-December 2021 which can be opted through MOOCs is as below:

Course Id	Course Name	Institute Offering	Duration	Link to Join
noc21-ee60	Fabrication Techniques for MEMs-based sensors : clinical perspective	IISc	12 Weeks	https://onlinecourses.nptel.ac.in/noc21_ee60/preview
noc21-ee61	Op-Amp Practical Applications: Design, Simulation and Implementation	IISc	12 Weeks	https://onlinecourses.nptel.ac.in/noc21_ee61/preview
noc21-ee62	Design of photovoltaic systems	IISc	12 Weeks	https://onlinecourses.nptel.ac.in/noc21_ee62/preview
noc21-ee67	Control engineering	IITM	12 Weeks	https://onlinecourses.nptel.ac.in/noc21_ee67/preview
noc21-ee72	Microwave Theory and Techniques	IITB	12 Weeks	https://onlinecourses.nptel.ac.in/noc21_ee72/preview
noc21-ee73	Fundamentals of Electrical Engineering	IITKGP	12 Weeks	https://onlinecourses.nptel.ac.in/noc21_ee73/preview
noc21-ee74	Analog communication	IITKGP	12 Weeks	https://onlinecourses.nptel.ac.in/noc21_ee74/preview
noc21-ee75	Digital Circuits	IITKGP	12 Weeks	https://onlinecourses.nptel.ac.in/noc21_ee75/preview
noc21-ee77	Power system analysis	IITKGP	12 Weeks	https://onlinecourses.nptel.ac.in/noc21_ee77/preview
noc21-ee78	Digital Image Processing	IITKGP	12 Weeks	https://onlinecourses.nptel.ac.in/noc21_ee78/preview
noc21-ee79	Pattern Recognition and Application	IITKGP	12 Weeks	https://onlinecourses.nptel.ac.in/noc21_ee79/preview
noc21-ee80	Semiconductor Devices and Circuits	IISc	12 Weeks	https://onlinecourses.nptel.ac.in/noc21_ee80/preview

noc21-ee81	Optical Engineering	IITM	12 Weeks	https://onlinecourses.nptel.ac.in/noc21_ee81/preview
noc21-ee82	Applied Electromagnetics For Engineers	IITK	12 Weeks	https://onlinecourses.nptel.ac.in/noc21_ee82/preview
noc21-ee83	Electromagnetic Theory	IITK	12 Weeks	https://onlinecourses.nptel.ac.in/noc21_ee83/preview
noc21-ee86	Microelectronics: Devices To Circuits	IITR	12 Weeks	https://onlinecourses.nptel.ac.in/noc21_ee86/preview
noc21-ee87	Introduction to Photonics	IITM	12 Weeks	https://onlinecourses.nptel.ac.in/noc21_ee87/preview
noc21-ee88	Microwave Engineering	IITG	12 Weeks	https://onlinecourses.nptel.ac.in/noc21_ee88/preview
noc21-ee89	Analog Electronic Circuits	IITD	12 Weeks	https://onlinecourses.nptel.ac.in/noc21_ee89/preview
noc21-ee90	Enclosure design of electronics equipment	IISc	12 Weeks	https://onlinecourses.nptel.ac.in/noc21_ee90/preview
noc21-ee91	Computational Electromagnetics	IITM	12 Weeks	https://onlinecourses.nptel.ac.in/noc21_ee91/preview
noc21-ee92	Probability Foundations for Electrical Engineers	IITM	12 Weeks	https://onlinecourses.nptel.ac.in/noc21_ee92/preview
noc21-ee93	Stochastic Modeling and the Theory of Queues	IITM	12 Weeks	https://onlinecourses.nptel.ac.in/noc21_ee93/preview
noc21-ee98	Integrated Photonics Devices and Circuits	IITM	12 Weeks	https://onlinecourses.nptel.ac.in/noc21_ee98/preview
noc21-ee99	Basic Electrical Circuits	(IITM)	12 Weeks	https://onlinecourses.nptel.ac.in/noc21_ee99/preview
noc21-ee59	Introduction to Semiconductor Devices	IITM	12 Weeks	https://onlinecourses.nptel.ac.in/noc21_ee59/preview
noc21-ee100	Image Signal Processing	IITM	12 Weeks	https://onlinecourses.nptel.ac.in/noc21_ee100/preview
noc21-ee101	Introductory Neuroscience & Neuro-Instrumentation	IISc	12 Weeks	https://onlinecourses.nptel.ac.in/noc21_ee101/preview
noc21-ee102	Signal Processing for mm Wave communication for 5G and beyond	IITKGP	12 Weeks	https://onlinecourses.nptel.ac.in/noc21_ee102/preview
noc21-ee103	Power Quality	IITD	12 Weeks	https://onlinecourses.nptel.ac.in/noc21_ee103/preview
noc21-ee104	Control and Tuning Methods in Switched Mode Power Converters	IITKGP	12 Weeks	https://onlinecourses.nptel.ac.in/noc21_ee104/preview

noc21-ee105	Mathematical Aspects of Biomedical Electronic System Design	IISc	12 Weeks	https://onlinecourses.nptel.ac.in/noc21_ee105/preview
noc21-ee108	Principles and Techniques of Modern Radar Systems	IITKGP	12 Weeks	https://onlinecourses.nptel.ac.in/noc21_ee108/preview
noc21-ee109	Power System Protection	IITKGP	12 Weeks	https://onlinecourses.nptel.ac.in/noc21_ee109/preview
noc21-ee111	Advanced Microwave Guided-Structures and Analysis	IITKGP	12 Weeks	https://onlinecourses.nptel.ac.in/noc21_ee111/preview
noc21-ee112	Electric vehicles and Renewable energy	IITM	12 Weeks	https://onlinecourses.nptel.ac.in/noc21_ee112/preview
noc21-ee113	Linear Systems Theory	IITM	12 Weeks	https://onlinecourses.nptel.ac.in/noc21_ee113/preview
noc21-ee114	Fiber Optic Communication Technology	IITM	12 Weeks	https://onlinecourses.nptel.ac.in/noc21_ee114/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 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 are 50 per batch and allotment will be done on merit basis.
6. The student should not choose the course having similar contents, studied already by him/her through MOOCs.
7. The students must enroll on the web link mentioned along with the course latest by 2nd August,2021.
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 10th August,2021

HOD (EE)

GURU NANAK DEV ENGINEERING COLLEGE, LUDHIANA
DEPARTMENT OF ELECTRICAL ENGINEERING
Perfoma for Minor Engineering Degree
 Session: July-Dec 2021

Branch (Parent Department):

Branch (Minor Degree):

University Roll No.:

Semester:

Name:

Contact No.:

Course id to be enrolled in current semester	Course Name to be enrolled in current semester						
Course(s) successfully completed (Attach the copies of previously completed MOOCs /Classroom taught courses for Minor Degree)							
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 of Parent Department

Allowed/Not Allowed

Signature of HOD (Minor Degree)