

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.
2. List of subjects for session January-April, 2021 which can be opted through MOOCs is as below:

Course Id	Course Name	Institute Offering	Duration	Link to Join
noc21-ee01	Fundamental of Power Electronics	IISc	12 Weeks	https://onlinecourses.nptel.ac.in/noc21_ee01/preview
noc21-ee02	Principles of Signals and Systems	IITK	12 Weeks	https://onlinecourses.nptel.ac.in/noc21_ee02/preview
noc21-ee04	Mathematical Methods and Techniques in Signal Processing	IISc	12 Weeks	https://onlinecourses.nptel.ac.in/noc21_ee04/preview
noc21-ee05	Control engineering	IITM	12 Weeks	https://onlinecourses.nptel.ac.in/noc21_ee05/preview
noc21-ee06	Nonlinear System Analysis	IITM	12 Weeks	https://onlinecourses.nptel.ac.in/noc21_ee06/preview
noc21-ee08	Antennas	IITB	12 Weeks	https://onlinecourses.nptel.ac.in/noc21_ee08/preview
noc21-ee10	Digital Electronic Circuits	IIT KGP	12 Weeks	https://onlinecourses.nptel.ac.in/noc21_ee10/preview
noc21-ee11	Modern digital communication techniques	IIT KGP	12 Weeks	https://onlinecourses.nptel.ac.in/noc21_ee11/preview
noc21-ee13	Electrical Machines - II	IIT KGP	12 Weeks	https://onlinecourses.nptel.ac.in/noc21_ee13/preview
noc21-ee14	Network Analysis	IIT KGP	12 Weeks	https://onlinecourses.nptel.ac.in/noc21_ee14/preview
noc21-ee15	Power System Engineering	IIT KGP	12 Weeks	https://onlinecourses.nptel.ac.in/noc21_ee15/preview
noc21-ee16	Power System Dynamics, Control and Monitoring	IIT KGP	12 Weeks	https://onlinecourses.nptel.ac.in/noc21_ee16/preview

noc21-ee17	Biomedical Signal Processing	IIT KGP	12 Weeks	https://onlinecourses.nptel.ac.in/noc21_ee17/p/review
noc21-ee18	Microprocessors and Microcontrollers	IIT KGP	12 Weeks	https://onlinecourses.nptel.ac.in/noc21_ee18/p/review
noc21-ee19	Fundamentals of semiconductor devices	IISc	12 Weeks	https://onlinecourses.nptel.ac.in/noc21_ee19/p/review
noc21-ee20	Digital Signal Processing and its Applications	IITB	12 Weeks	https://onlinecourses.nptel.ac.in/noc21_ee20/p/review
noc21-ee21	Introduction to Time - Varying Electrical Networks	IITM	12 Weeks	https://onlinecourses.nptel.ac.in/noc21_ee21/p/review
noc21-ee22	Digital IC Design	IITM	12 Weeks	https://onlinecourses.nptel.ac.in/noc21_ee22/p/review
noc21-ee23	Computer Vision and Image Processing - Fundamentals and Applications	IITG	12 Weeks	https://onlinecourses.nptel.ac.in/noc21_ee23/p/review
noc21-ee24	Electrical Machines	IITD	12 Weeks	https://onlinecourses.nptel.ac.in/noc21_ee24/p/review
noc21-ee25	Power Management Integrated Circuits	IITM	12 Weeks	https://onlinecourses.nptel.ac.in/noc21_ee25/p/review
noc21-ee28	Signals and Systems	IISER Bhopal	12 Weeks	https://onlinecourses.nptel.ac.in/noc21_ee28/p/review
noc21-ee29	High Power Multilevel Converters - Analysis, design and operational issues	IITD	12 Weeks	https://onlinecourses.nptel.ac.in/noc21_ee29/p/review
noc21-ee30	Principles of Digital Communications	IITD	12 Weeks	https://onlinecourses.nptel.ac.in/noc21_ee30/p/review
noc21-ee31	Integrated Circuits, MOSFETs, Op-Amps and their Applications	IISc	12 Weeks	https://onlinecourses.nptel.ac.in/noc21_ee31/p/review
noc21-ee32	Sensors and Actuators	IISc	12 Weeks	https://onlinecourses.nptel.ac.in/noc21_ee32/p/review
noc21-ee33	Applied Linear Algebra for Signal Processing, Data Analytics and Machine Learning	IITK	12 Weeks	https://onlinecourses.nptel.ac.in/noc21_ee33/p/review
noc21-ee35	Photonic integrated circuit	IISc	12 Weeks	https://onlinecourses.nptel.ac.in/noc21_ee35/p/review
noc21-ee36	Multirate DSP	IITM	12 Weeks	https://onlinecourses.nptel.ac.in/noc21_ee36/p/review

noc21-ee37	Probability Foundations for Electrical engineers	IITM	8 Weeks + 4 weeks new	https://onlinecourses.nptel.ac.in/noc21_ee37/p/review
noc21-ee38	Applied Linear Algebra	IITM	12 Weeks	https://onlinecourses.nptel.ac.in/noc21_ee38/p/review
noc21-ee39	Digital System Design	IIT Ropar	12 Weeks	https://onlinecourses.nptel.ac.in/noc21_ee39/p/review
noc21-ee40	Optical Fiber Sensors	IITM	12 Weeks	https://onlinecourses.nptel.ac.in/noc21_ee40/p/review
noc21-ee41	Microprocessors and Interfacing	IITG	12 Weeks	https://onlinecourses.nptel.ac.in/noc21_ee41/p/review
noc21-ee42	Optical Communications	IITK	12 Weeks	https://onlinecourses.nptel.ac.in/noc21_ee42/p/review
noc21-ee44	Statistical Signal Processing	IITG	12 Weeks	https://onlinecourses.nptel.ac.in/noc21_ee44/p/review
noc21-ee47	Spread Spectrum Communications And Jamming	IIT KGP	12 Weeks	https://onlinecourses.nptel.ac.in/noc21_ee47/p/review
noc21-ee49	Fuzzy Sets, Logic and Systems & Applications	IITK	12 Weeks	https://onlinecourses.nptel.ac.in/noc21_ee49/p/review
noc21-ee51	Analog Ic Design	IITM	12 Weeks	https://onlinecourses.nptel.ac.in/noc21_ee51/p/review
noc21-ee52	Architectural Design of Digital Integrated Circuits	IIT KGP	12 Weeks	https://onlinecourses.nptel.ac.in/noc21_ee52/p/review
noc21-ee53	Transmission lines and electromagnetic waves	IITM	12 Weeks	https://onlinecourses.nptel.ac.in/noc21_ee53/p/review
noc21-ge13	Biophotonics	IIT KGP	12 Weeks	https://onlinecourses.nptel.ac.in/noc21_ge13/p/review
noc21-ee55	Basic Electronics	IITB	12 Weeks	https://onlinecourses.nptel.ac.in/noc21_ee55/p/review
noc21-ee58	Introduction to Embedded System Design	Netaji Subhas University of Technology and IIT Jammu	12 weeks	https://onlinecourses.nptel.ac.in/noc21_ee58/p/review

2. The credits earned in Minor engineering will not be considered for an honour degree.
3. 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.
4. The allotted number of seats for minor engineering degree in Electrical Engineering are 50 per batch

and allotment will be done on merit basis.

5. The students must enrol on the web link mentioned along with the course latest by 1st,Feb,2021.
6. The duly filled proforma (available on departmental ee.gndec.ac.in) forwarded by the head of the parent department must be submitted in EED office by 15th Feb2021

HOD (EE)

GURU NANAK DEV ENGINEERING COLLEGE, LUDHIANA
DEPARTMENT OF ELECTRICAL ENGINEERING
Performa for Minor Engineering Degree
 Session: Jan-May 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 courses for Minor)							
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)