

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

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](mailto:moocsaugust2020@gmail.com) by 30th July, 2020. And the same will be forwarded to the concerned parent department of the student.

**HOD (CSE)**