



Ref. No- CGU/DEAN-AC/10/44/21

Date: 22.11.2021

**NOTICE**

**SKILL DEVELOPMENT ELECTIVE COURSES FOR 3<sup>RD</sup> SEM. B. TECH.**  
**LATERAL ENTRY**  
**(2021 ADMISSION BATCH)**

The SDE Course is aimed to promote collaborative multidisciplinary skill development of technical candidates inspired by **National Education Policy 2020**.

A 3<sup>rd</sup> Sem. candidate must opt for a **Skill Development Elective (SDE)** course out of the enlisted courses (*Annexure -I*). Number of batches, strength for batch and guidelines for selection of SDE course can be found in the Annexure-I.

**Students are advised to fill the registration link given below on or before 24.11.2021. SDE will be allotted on the basis of first come first serve basis.**

<https://forms.gle/Dk45tALqYen7beDa9>

*For any queries, you may reach out to :*

1. Ms. Soumya Mishra, Asst. Prof & SDE Coordinator at [soumya@cgu-odisha.ac.in](mailto:soumya@cgu-odisha.ac.in)
2. Mr. Rajat Panda, Time Table Coordinator-SDE at [prajat@ssepl.net](mailto:prajat@ssepl.net)

  
**DEAN ACADEMICS**

**SKILL DEVELOPMENT ELECTIVE COURSES FOR 3<sup>rd</sup> SEM.  
B. TECH. (LE) - 2021 ADMISSION BATCH**

<b>SL NO</b>	<b>LIST OF SKILL DEVELOPMENT ELECTIVES</b>	<b>Preferred Departments/Disciplines *</b>
1.	<b>WELDING TRAINING</b>	<b>ME, EE</b>
2.	<b>HEATING VENTILATION AND AIRCONDITIONING WITH REFRIGERATION</b>	<b>ME, EE, EEE</b>
3.	<b>INDUSTRIAL AUTOMATION</b>	<b>ECE/ETC, EE, EEE, ME, CHEM</b>
4.	<b>TOTAL INTEGRATEDAUTOMATION</b>	<b>EE, EEE, ECE/ETC</b>
5.	<b>PRODUCT DESIGNING &amp; MANUFACTURING</b>	<b>ME</b>
6.	<b>TECHNOLOGIES FOR AUTOMOBILE SYSTEMS</b>	<b>ME, EE, EEE, ECE/ETC</b>
7.	<b>PROCESS AUTOMATION&amp; WATER TECHNOLOGY</b>	<b>CHEM, CIVIL</b>
8.	<b>MODERN DESIGNING AND STRUCTURAL ANALYSIS</b>	<b>CIVIL</b>
9.	<b>CISCO CERTIFIED NETWORK ASSOCIATE TRAINING with GOOGLE ANROID APPLICATION</b>	<b>CSE, CSIT</b>
10.	<b>VLSI, ROBOTICS AND PCB DESIGN</b>	<b>ETC, EE, EEE, CSE, CSIT</b>

\*The SDE Course is aimed to promote collaborative multidisciplinary skill development of technical candidates inspired by National Education Policy 2020.

A 3<sup>rd</sup> sem candidate can opt a Skill Development Elective (SDE) course out of the enlisted courses in the table ONLY ONCE as per the preferred discipline, though not restricted to the same.

A 3<sup>rd</sup> semester student can opt a SDE course comprising of 04 modules spanned over 04 semesters, i.e. 3<sup>rd</sup>, 4<sup>th</sup>, 5<sup>th</sup> and 6<sup>th</sup> as per the distribution below:

**SKILL DEVELOPMENT ELECTIVE OFFERINGS WITH TOTAL CAPACITY AND COURSE DETAILS**

**\*\*\*Note: The Choice Based SDE can be floated by seeking 05 choices per student in order to allot them the SDE Course as per the CoE Capacity and 'First Come First Serve Basis'. A student will be allowed to choose an SDE in his/her 3<sup>rd</sup> sem only once and will continue the course modules for 4<sup>th</sup>, 5<sup>th</sup> and 6<sup>th</sup> sem SDE courses.**

Sl No.	CoE	SDE Course Name	Total Duration	Name Of The Module	No. Of Batch	Strength Per Batch
1	Welding	Welding Training	EACH SEM 40 Hrs.	3 <sup>RD</sup> SEM – Welding-I [Basic Arc Welding Technology-I] 4 <sup>TH</sup> SEM – Welding- II [Basic Arc Welding Technology-II] 5 <sup>TH</sup> SEM – Welding- III [Advanced Welding Technology-I] 6 <sup>TH</sup> SEM - Welding- IV [Advanced Welding Technology-II]	3	30
2	VLSI, ROBOTICS AND PCB	VLSI, ROBOTICS AND PCB DESIGN	Each Sem: 40 HRS	3RD SEM- Robotics1 4TH SEM – Robotics2 5TH SEM – Analog & Digital VLSI 6TH SEM - PCB Design	2	20
3	HVAC&R	HVAC&R	Each Sem: 40 HRS	3rd Semester- HVAC&R FUNDAMENTALS [TUTORIAL].  4th Semester - HVAC & R SYSTEM AND COMPONENTS Tutorial.  5TH SEM - Psychometric and Thermal Comfort: [TUTORIAL].  6TH SEM - Heat Load Estimation:: [TUTORIAL]	2	25
4	Bosch Rexroth	Industrial Automation	Each Semester 40 Hrs	3RD SEM: Relay Logic Control & Sensorics 4 TH SEM: Industrial PLC 5TH SEM: Pneumatics & Hydraulics 6TH SEM: Mechatronics with Industry 4.0	9	25
5	Siemens CoE	Total Integrated Automation	Each Semester 40 Hrs	3 RD SEM: PLC & HMI 4 TH SEM: SCADA & DCS 5 TH SEM: AC DC Drive 6 TH SEM: LV Switchgear	3	25
6	TRTC	PDM	Each Semester 40 Hrs	3RD SEM: AUTOCAD 2D &3D. 4TH SEM: CREO (MODELING, SURFACING,	2	25

				ASSEMBLY, DRAFTING) 5 TH SEM: ENGINEERING METROLOGY & TYPES OF CUTTERS & OPERATIONS. 6 <sup>TH</sup> SEM: CNC PROGRAMMING		
7	TTL	TECHNOLOGIES FOR AUTOMOBILE SYSTEMS	Each Semester 40 Hrs	3RD SEM: SOLID MODELLING USING AUTOCAD & CATIA. 4TH SEM: BASIC AUTOMOTIVE ENGINEERING. 5 TH SEM: STRUCTURAL, THERMAL AND FLOW SIMULATION MODELLING. 6 <sup>TH</sup> SEM: AUTOMOBILE ENGINEERING AND PRODUCT DESIGN	2	20
8	FESTO	PROCESS AUTOMATION & WATER TECHNOLOGY	Each Semester 40 Hrs	3 <sup>RD</sup> SEM – Basic PA 4 <sup>TH</sup> SEM –Advance PA 5 <sup>TH</sup> SEM – Advance PA 6 <sup>TH</sup> SEM - Water Technology	2	16
9	CIVIL	Modern Designs And Structural Analysis	Each Semester 40 Hrs	3 <sup>RD</sup> SEM – Auto Cad 4 <sup>TH</sup> SEM –Revit 5 <sup>TH</sup> SEM – Staad Pro 6 <sup>TH</sup> SEM –MX Road/ Open Road	2	60(Training program to be out sourced)
10	CCNA, GOOGLE ANROID CERTIFICATION COURSE	CCNA with GOOGLE ANROID CERTIFICATION COURSE	Each Semester 40 Hrs	3 <sup>RD</sup> SEM – CCNA-1 4 <sup>TH</sup> SEM – CCNA-2 5 <sup>th</sup> SEM – ANDROID 1 6 <sup>th</sup> SEM – ANDROID2	3	60

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4. Mr. Rajat Panda, Time Table Coordinator-SDE at [prajat@ssepl.net](mailto:prajat@ssepl.net)

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