



Ref. No- CGU/DEAN-AC/10/174/22

Date: 12.07.2022

**NOTICE**

**SKILL DEVELOPMENT ELECTIVE COURSES FOR 3<sup>RD</sup> SEM. B. TECH.**  
**(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*).

**Students are advised to fill the registration link given below on or before 20.07.2022. SDE will be allotted on the basis of first come first serve basis.**

**link: <https://forms.gle/wxumxGZrA6V6PN5t9>**

For SDE course selection, herewith attached the guideline for the SDE course, and SPOC details of each CoE/Dept.

After the said time period, no changes by the student will be entertained as the details will be updated in Coll Poll LMS.

***Note:- Those who will not submit the form within the stipulated deadline of 20<sup>th</sup> July, 2022, will by default be assigned to centres as per Centre Availability and NOT as per the student's choice. This will be non-negotiable.***

***For any queries regarding the same, students may contact: -***

***Mr. Saubhagya Ranjan Behera (9778653506)***

***Mr. Bharatendu Shekhar Khuntia (9778144130).***

**DEAN ACADEMICS**

## Annexure – I

### C. V. RAMAN GLOBAL UNIVERSITY

#### SKILL DEVELOPMENT ELECTIVE– 2021 ADMISSION BATCH



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

#### GUIDELINES FOR OPTING SDE

- ***A 3rd 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 buffer time of 07 days (from the last date of choice filling) will be provided to change the choice given by a candidate based on availability of seats.
- The Choice Based SDE can be floated by seeking 04 choices per student in order to allot them the SDE Course as per the CoE Capacity and in '**First Come First Serve Basis**'. A student will be allowed to choose an SDE in his/her 3rd sem **only once** and will continue the course modules for 4th, 5th and 6th sem SDE courses.
- A 3rd semester student can opt a SDE course comprising of 04 modules spanned over 04 semesters, i.e. 3rd, 4 th, 5th and 6th as per the distribution below:

#### SKILL DEVELOPMENT ELECTIVE OFFERINGS WITH SUBJECT CODE

Sl No.	CoE	SDE Course Name	Total Duration	Content & SUBJECT CODE
1	Welding	Welding Training	EACH SEM 40 Hrs.	3 <sup>RD</sup> SEM – Welding-I [Basic Arc Welding Technology-I] - <b>SDE23701</b>

				<p>4<sup>TH</sup> SEM – Welding- II [Basic Arc Welding Technology-II] - <b>SDE23702</b></p> <p>5<sup>TH</sup> SEM – Welding- III [Advanced Welding Technology-I] – <b>SDE23703</b></p> <p>6<sup>TH</sup> SEM - Welding- IV [Advanced Welding Technology-II] – <b>SDE23704</b></p>
2	VLSI, ROBOTICS AND PCB Centre	VLSI, ROBOTICS AND PCB DESIGN	Each Sem: 40 HRS	<p>3RD SEM- Robotics1 - <b>SDE23705</b></p> <p>4TH SEM – Robotics2 - <b>SDE23706</b></p> <p>5TH SEM – PCB &amp; Circuit design- <b>SDE23707</b></p> <p>6TH SEM - Analog &amp; Digital VLSI - <b>SDE23708</b></p>
3	HVAC&R CoE	HVAC&R	Each Sem: 40 HRS	<p>3rd Semester- HVAC&amp;R FUNDAMENTALS [TUTORIAL]. - <b>SDE23709</b></p> <p>4<sup>th</sup> Semester - HVAC &amp; R SYSTEM AND COMPONENTS Tutorial. - <b>SDE23710</b></p> <p>5<sup>TH</sup> SEM - Psychometric and Thermal Comfort: - <b>SDE23711</b></p>
				<p>6<sup>TH</sup> SEM - Heat Load Estimation: <b>SDE23712</b></p>

4	Bosch Rexroth CoE	Industrial Automation	Each Semester 40 Hrs	<p>3<sup>RD</sup> SEM: Relay Logic Control &amp; Sensorics - <b>SDE23713</b></p> <p>4 TH SEM: Industrial PLC - <b>SDE23714</b></p> <p>5TH SEM: Pneumatics &amp; Hydraulics - <b>SDE23715</b></p> <p>6<sup>TH</sup> SEM: Mechatronics with Industry 4.0 - <b>SDE23716</b></p>
5	Siemens CoE	Total Integrated Automation	Each Semester 40 Hrs	<p>3 RD SEM: PLC &amp; HMI - <b>SDE23717</b></p> <p>4 TH SEM: SCADA &amp; DCS - <b>SDE23718</b></p> <p>5 TH SEM: AC DC Drive - <b>SDE23719</b></p> <p>6 TH SEM: LV Switchgear - <b>SDE23720</b></p>
6	TRTC	PDM	Each Semester 40 Hrs	<p>3RD SEM: AUTOCAD 2D &amp; 3D. - <b>SDE23721</b></p> <p>4TH SEM: CREO (MODELING, SURFACING, ASSEMBLY,</p>

				<p>DRAFTING) - <b>SDE23722</b></p> <p>5 TH SEM: ENGINEERING METROLOGY &amp; TYPES OF CUTTERS &amp; OPERATIONS. - <b>SDE23723</b></p> <p>6<sup>TH</sup>SEM: CNC PROGRAMMING - <b>SDE23724</b></p>
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7	TTL	TECHNOLOGIES FOR AUTOMOBILE SYSTEMS	Each Semester 40 Hrs	<p><b>3RD SEM: SOLID MODELLING USING AUTOCAD &amp; CATIA.</b> - <b>SDE23725</b></p> <p><b>4TH SEM: BASIC AUTOMOTIVE ENGINEERING.</b> - <b>SDE23726</b></p> <p><b>5 TH SEM: STRUCTURAL, THERMAL AND FLOW SIMULATION MODELLING.</b> - <b>SDE23727</b></p> <p><b>6<sup>TH</sup>SEM: AUTOMOBILE ENGINEERING AND PRODUCT DESIGN</b> - <b>SDE23728</b></p>
8	FESTO	PROCESS AUTOMATION & WATER TECHNOLOGY	Each Semester 40 Hrs	<p><b>3<sup>RD</sup> SEM – Basic PA</b> - <b>SDE23729</b></p> <p><b>4<sup>TH</sup> SEM –Advance PA</b> - <b>SDE23730</b></p> <p><b>5<sup>TH</sup> SEM – Advance PA</b> - <b>SDE23731</b></p> <p><b>6<sup>TH</sup> SEM - Water</b></p>
9	CIVIL	Modern Designs And Structural Analysis	Each Semester 40 Hrs	<p><b>3<sup>RD</sup> SEM – AutoCAD</b> - <b>SDE23733</b></p> <p><b>4<sup>TH</sup> SEM – Revit</b> - <b>SDE23734</b></p> <p><b>5<sup>TH</sup> SEM – Staad Pro</b> - <b>SDE23735</b></p> <p><b>6<sup>TH</sup> SEM –MX OR Open Road</b> - <b>SDE23736</b></p>

10	(Coordinated by Dept. of CSE)	EMERGING TECHNOLOGIES IN CSE/CSIT	Each Semester 40 Hrs	<b>3<sup>RD</sup> SEM – Programming in C, C++</b> <b>SDE23737</b>  <b>4<sup>TH</sup> SEM – CCNA</b> <b>SDE23738</b>  <b>5<sup>th</sup> SEM – CLOUD COMPUTING</b> <b>- SDE23739</b>  <b>6<sup>th</sup> SEM – CYBER SECURITY -</b> <b>SDE23740</b>
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**EVALUATION STRATEGY(RUBRICS):**

Sl.No	Experiment/Topic	Attendance	Quiz test	Viva and observation	Report	Total
1	Topic name	F.M- 2 marks	F.M -3 marks	F.M- 2marks	F.M -3 Marks	10
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10 or 12						

Out of (10 or 12) X 10 = 100 or 120 marks, from the above table, the scores will be scaled down to 70 Marks, rest 30 marks will be comprehensive Lab evaluation in the form of product/project presentation.

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### DETAILS OF SKILL DEVELOPMENT ELECTIVE COURSE WITH SPOC OF CoE/DEPT.

SL. NO	CoE	COURSE NAME	SEMESTER	SUBJECT	COURSE CODE	CONTACT PERSON	MOBILE NO.	MAIL ID
1	Welding	Welding Training	3rd	Welding-I [Basic Arc Welding Technology-I]	SDE23701	Dr. Shushovan Basak	9433345626	s.basak@cgu-odisha.ac.in welding.coe@ssepl.net
			4th	Welding- II [Basic Arc Welding Technology-II]	SDE23702			
			5th	Welding- III [Advanced Welding Technology-I]	SDE23703			
			6th	Welding- IV [Advanced Welding Technology-II]	SDE23704			
2	VLSI, ROBOTICS AND PCB Centre	VLSI, ROBOTICS AND PCB DESIGN	3rd	Robotics-1	SDE23705	Mr. Sanjoy Mahanta	9178242523	sanjoy.mohanta@gmail.com
			4th	Robotics-2	SDE23706			
			5th	Analog & Digital VLSI	SDE23707	Prof. Kaushik Bhattacharrya	9800714248	kaushikb@cgu-odisha.ac.in
			6th	PCB Design	SDE23708	Prof. Tanmay Das/ Mr. Sreenibas Padhy	98612 73055/ 99389 78308	tanmaykumar.das@cgu-odisha.ac.in / sreenibaspadhy1@gmail.com
3	HVAC&R	HVAC&R	3rd	HVAC&R Fundamentals	SDE23709	Dr. Sachindra Ku. Rout	8249635640	hvac.coe@ssepl.net
			4th	HVAC & R System & Components	SDE23710			
			5th	Psychometric and Thermal Comfort	SDE23711			
			6th	Heat Load Estimation	SDE23712			
4	Bosch Rexroth	Industrial Automation	3rd	Relay Logic Control & Sensorics	SDE23713	Mr. Saubhagya Ranjan Behera	9778653506	bsoubhagya@ssepl.net bosch.coe@ssepl.net
			4th	Industrial PLC	SDE23714			
			5th	Pneumatics & Hydraulics	SDE23715			
			6th	Mechatronics with Industry 4.0	SDE23716			
5	Siemens	Total Integrated Automation	3rd	PLC & HMI	SDE23717	Mr. Bharatendu Sekhar khuntia	9778144130	kbharatendu@ssepl.net siemens.coe@ssepl.net
			4th	SCADA & DCS	SDE23718			
			5th	AC DC Drive	SDE23719			
			6th	LV Switchgear	SDE23720			
6	TRTC	PDM	3rd	AUTOCAD 2D & 3D	SDE23721	Dr. Hillol Joardar	7008687893	jhillol@cgu-odisha.ac.in
			4th	CREO (Modeling, Surfacing, Assembly, Drafting)	SDE23722	Mr. Debashis Sahoo	9090213047	trtc.coe@ssepl.net
			5th	Engineering Metrology & Types of Cutters & Operations	SDE23723			
			6th	CNC Programming	SDE23724			
7	TTL	TECHNOLOGIES FOR AUTOMOBILE SYSTEMS	3rd	Solid Modelling Using Autocad & Catia.	SDE23725	Dr. Hillol Joardar	7008687893	jhillol@cgu-odisha.ac.in
			4th	Basic Automotive Engineering	SDE23726			
			5th	Structural, Thermal And Flow Simulation Modelling	SDE23727			
			6th	Automobile Engineering And Product Design	SDE23728			
8	Festo	PROCESS AUTOMATION & WATER TECHNOLOGY	3rd	Basic Process Automation	SDE23729	Ms. Barnali Brahma	7008494099	brahma.barnali@cgu-odisha.ac.in festco.coe@ssepl.net
			4th	Advance Process Automation-I	SDE23730			
			5th	Advance Process Automation-II	SDE23731			
			6th	Water Technology	SDE23732			
9	Civil	Modern Designs And Structural Analysis	3rd	Auto CAD	SDE23733	Prof. S. S. Mohanty	9437206204	hod_civil@cgu-odisha.ac.in
			4th	Revit	SDE23734			
			5th	Staad Pro	SDE23735			
			6th	MX OR Open Road	SDE23736			
10	CSE	EMERGING TECHNOLOGIES IN CSE/CSIT	3rd	Programming in C, C++	SDE23737	Prof. Rojalina Priyadarshini/ Prof. Surendra Nanda	9437937546/ 70088 59314	hod_cse@cgu-odisha.ac.in / surendra.nanda@cgu-odisha.ac.in
			4th	CCNA	SDE23738			
			5th	Cloud Computing	SDE23739			
			6th	Cyber Security	SDE23740			
11	For any other queries regarding SDE					Mr. Saubhagya Ranjan Behera Mr. Bharatendu Sekhar khuntia	9778653506 9778144130	bsoubhagya@ssepl.net kbharatendu@ssepl.net