



**SR**  
UNIVERSITY

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## **17.3.4\_Progress against SDG4**



**List of Programs offering courses on Professional Ethics, Gender, Human Values, Environment & Sustainability**

S. No	Program Name	Program Code	Professional Ethics	Gender	Human Values	Environment & Sustainability
1	B.Tech-Civil Engineering	A11	✓	✓	✓	✓
2	B.Tech-Electrical and Electronics Engineering	A21	✓	✓	✓	✓
3	B.Tech-Mechanical Engineering	A31	✓	✓	✓	✓
4	B.Tech-Electronics and Communication Engineering	A41	✓	✓	✓	✓
5	B.Tech-Computer Science and Engineering	A51	✓	✓	✓	✓
6	B.Tech-Computer Science and Engineering (AI&ML)	A52	✓	✓	✓	✓
7	B.Tech-Computer Science and Engineering (DS)	A54	✓	✓	✓	✓
8	Bachelor of Business Administration	A71	✓		✓	
9	B.Sc (Hons) - Agriculture	A61	✓		✓	✓
10	M.Tech-Construction Technology & Management	B011	✓		✓	✓
11	M.Tech-Power Electronics	B021	✓			✓
12	M.Tech-Advanced Manufacturing Systems	B031	✓		✓	✓
13	M.Tech-Embedded Systems	B042	✓		✓	✓
14	M.Tech-Electronic Design Technology	B043	✓		✓	✓
15	M.Tech-Computer Science and Engineering	B051	✓		✓	✓
16	Master of Business Administration	B071	✓		✓	

  
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**SR UNIVERSITY**  
 (V) Ananthasagar, (M) Hasanparthy  
 Dt: Warangal - 506371, T.S.



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**Enhancing Employability, Entrepreneurship, and  
Skill Development in Program Design**

## **Enhancing Employability, Entrepreneurship, and Skill Development in Program Design**

### **Policy Highlights**

SRU is committed to delivering a comprehensive education that equips students for success in the rapidly changing job market. To meet this objective, the university emphasizes the integration of employability, entrepreneurship, and skill development into program design and curricula. This policy outlines SRU's approach to aligning academic programs with modern industry demands, ensuring that graduates are prepared with the relevant skills, knowledge, and entrepreneurial mindset required for both career advancement and the pursuit of business ventures.

### **1. Program Design and Alignment:**

1.1 The university will create specialized committees (DAC) for each program, including faculty, industry experts, and alumni, to ensure that program design is aligned with employability and entrepreneurship goals. These committees will play a key role in shaping curricula to meet the evolving needs of the job market.

1.2 Programs will undergo regular reviews to ensure alignment with emerging industry trends, technological advancements, and global market needs.

1.3 The university will partner with relevant industries, professional organizations, and advisory boards to identify the essential skills and competencies needed by employers and entrepreneurs.

### **2. Curriculum and Syllabi Enhancement:**

2.1 The syllabi will undergo regular evaluation and revision to incorporate emerging trends, advanced technologies, and current industry standards.

2.2. Faculty members will have access to training and development opportunities to stay informed about the latest industry trends and ensure that syllabi remain current and relevant.

2.3. The curriculum will incorporate interdisciplinary and experiential learning opportunities to promote the development of cross-functional skills and hands-on experiences.

2.4. Core courses will be supplemented by elective options, enabling students to explore specialized areas that align with their career goals and entrepreneurial ambitions.

### **3. Skill Development Integration:**

3.1 Soft skills, including communication, critical thinking, problem-solving, and teamwork, will be embedded throughout the curriculum to enhance students' overall employability.

3.2. Skill development workshops, seminars, and guest lectures will be organized to offer hands-on experiences, real-world insights, and opportunities to engage with industry professionals.

3.3. Capstone projects, internships, and industry collaborations will be integrated to provide students with practical experience and the opportunity to apply their knowledge in real-world environments.

#### **4. Entrepreneurship and Innovation:**

4.1. Entrepreneurship-focused courses and incubation programs shall be offered to cultivate an entrepreneurial mindset and support the development of innovative business ideas among students.

4.2. The university shall form partnerships with local startups, accelerators, and venture capital firms to provide students with networking opportunities, mentorship, and access to potential funding.

4.3. Innovation labs, maker spaces, and entrepreneurship centers shall be established to promote hands-on experimentation, prototyping, and the creation of viable entrepreneurial ventures.

#### **5. Monitoring and Evaluation:**

5.1. The university shall implement a system for ongoing monitoring and evaluation of program outcomes, employability rates, and entrepreneurial success stories.

5.2. Feedback from employers, alumni, and students shall be collected to assess the curriculum's effectiveness in meeting industry needs and fostering entrepreneurial skills.

5.3. The university shall utilize this data to make informed decisions for enhancing and improving programs.

SRU is dedicated to empowering its graduates with the skills, knowledge, and entrepreneurial mindset necessary to thrive in a competitive job market and contribute to economic growth. By emphasizing employability, entrepreneurship, and skill development in its program design and syllabi, the university strives to produce graduates who are not only well-prepared for successful careers but also capable of driving innovation and creating value in the global economy.

## **Activities for Enhancing Employability, Entrepreneurship and Skill Development**

SRU's programs include a variety of activities and courses designed to promote skill development, entrepreneurial thinking, and overall career readiness. These programs integrate the following activities into their curriculum to enhance employability, entrepreneurship, and the development of essential skills among students.

### **1. Project-Based Learning:**

Implementing project-based learning (PBL) throughout courses enables students to apply theoretical concepts to real-world situations. Through collaboration on projects, students strengthen their problem-solving, teamwork, and communication skills. PBL fosters creativity and innovation, essential qualities for enhancing employability and nurturing entrepreneurial potential.

### **2. Internships and Work Placements:**

Integrating internships, co-op programs, and work placements into the curriculum offers students valuable hands-on industry experience. This exposure helps bridge the gap between academic learning and practical application, allowing students to build professional networks and gain insights into diverse career paths.

### **3. Entrepreneurship Workshops and Competitions:**

Organizing workshops, seminars, and competitions centered on entrepreneurship fosters an entrepreneurial mindset among students. These events can address topics like business planning, idea pitching, market research, and funding strategies. Such initiatives empower students to explore their own ventures and cultivate innovative thinking.

### **4. Skill Development Modules:**

Specialized skill development modules should be provided to enhance students' soft skills, such as communication, time management, leadership, and adaptability. These skills are essential for succeeding in any career and play a significant role in improving employability.

### **5. Industry Guest Lectures:**

Inviting industry experts and successful entrepreneurs to give guest lectures exposes students to real-world insights, trends, and challenges. These sessions provide a valuable opportunity for students to learn from accomplished professionals who can offer guidance and advice for career advancement.

### **6. Cross-Disciplinary Collaboration:**

Encouraging collaboration among different disciplines through the Skill Development Project (SDP) promotes holistic thinking and allows students to apply their knowledge in various contexts. This approach fosters the development of versatile professionals capable of addressing multidimensional challenges in their future careers.

### **7. Networking Events:**

Hosting networking events, Design & Build talks, career fairs, and industry meet-ups enables students to connect with potential employers, mentors, and peers who share similar interests. Establishing a robust professional network early can create pathways to numerous employment and entrepreneurial opportunities.

  
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## **8. Global Certifications and Skill Validation:**

- SRU provides opportunities for students to obtain recognized global certifications in relevant fields, boosting their employability on an international level.
- Collaborate with industry leaders to ensure the curriculum aligns with the skills and competencies required by the job market.
- Offer platforms for students to demonstrate their certified skills through digital portfolios and online profiles.

## **9. Start-up and Industry Collaborations:**

- Establish partnerships with local startups, established companies, and industry associations to strengthen the connection between academia and industry.
- Organize hackathons, ideathons, innovation challenges, and industry-sponsored projects to provide students with exposure to real-world industry problems.
- Encourage students to engage in research and development projects sponsored by industry partners.

## **10. Case Studies and Simulations:**

Integrating case studies and simulations that reflect real-world business scenarios offers students a platform to analyze complex situations, make informed decisions, and experience the outcomes of their choices within a controlled environment.

## **11. Personal Development and Well-being Sessions:**

Recognizing the significance of holistic development, SRU provides sessions that emphasize personal well-being, stress management, emotional intelligence, and self-awareness. These skills enhance coping mechanisms, resilience, and overall success in both professional and personal domains.

By incorporating project-based labs, internships, soft skills training, active learning methodologies, entrepreneurship initiatives, global certifications, and industry collaborations, SRU equips students to thrive in a rapidly evolving job market. This holistic approach nurtures a new generation of innovative thinkers, problem solvers, and entrepreneurs. Ultimately, it empowers students not only to secure employment but also to create their own opportunities and make meaningful contributions to society.

## **LIST OF PROGRAMMES WITH % of Courses focusing on EMPLOYABILITY/ ENTREPRENEURSHIP/ SKILL DEVELOPMENT**

### **Sample Course Handouts**

[Employability](#)

[Entrepreneurship](#)

[Skill Development](#)



## 1.1 Curriculum Developed and Implemented

### 1.1.2 Programmes Offered with Focus on Employability/Entrepreneurship/Skill Development

The Programmes offered by the institution focus on employability/ entrepreneurship/ skill development and their course syllabi are adequately revised to incorporate contemporary requirements

#### Mapping of Programmes with Employability/Entrepreneurship/Skill Development

Department: EEE

\* Put Tick (√) mark

S.No.	Regulation	Course Code	Course Name	Employability	Entrepreneurship	Skill Development
1	R20	20ES102	Basic Electrical and Electronics Engineering	√		
2	R20	20ES114	Python for Engineers			√
3	R20	20ES115	Engineering Design Process			√
4	R20	20EE101	Electric Power Generation and Distribution	√		
5	R20	20EE102	Electrical Circuits	√		
6	R20	20EE103	DC Machines and Transformers	√		
7	R20	20HS103	Academic Writing			√
8	R20	20EE104	Power Transmission Systems	√		
9	R20	20EE105	AC Rotating Machines	√		
10	R20	20EC131	Analog and Digital Electronics	√		
11	R20	20HS106	Finance for Engineers		√	
12	R20	20EE106	Electrical Measurements	√		
13	R20	20EE107	Control Systems	√		
14	R20	20EE108	Power Electronics	√		
15	R20	20PR101	Summer Internship / Certification / Mini Project			√
16	R20	20HS104	Foundation to Entrepreneurship		√	
17	R20	20EC111	Microcontrollers and Applications	√		
18	R20	20EE109	Computer Methods in Power Systems	√		
19	R20	20EE110	Power System Protection	√		
20	R20	20EE111	Power Semiconductor Drives	√		
21	R20	20PR103	Capstone Project			√
22	R20	20PR104	Industrial Project/R&D Project/Internship/Start-up			√
23	R20	20PR105	Major Project			√
24	R20	20EE112	Solar Thermal PV Systems	√		
25	R20	20EE114	Utilization of Electrical Energy	√		
26	R20	20EE115	Energy Storage Systems	√		



27	R20	20EE119	Electrical Distribution Systems	√		
28	R20	20EE124	Energy Conservation and Audit	√		
29	R20	20EE125	Electrical Design and Drafting			√
30	R20	20EE128	Automation and Control	√		
31	R20	20EE130	AI Application to Electrical Engineering			√
32	R20	20EE131	Electric Vehicle Technologies	√		
33	R20	20EE142	Basics of PLC Programming	√		
34	R20	20EE143	Advanced PLC Programming	√		
35	R20	20EE144	PLC and Human Machine Interface	√		
36	R20	20EE145	Industrial Drives	√		
37	R20	20EE148	Robotics	√		
38	R20	20EI104	Programming for IoT			√
39	R20	20ES116	Skill Development - I			√
40	R20	20ES119	Skill Development - II			√
41	R20	20ES120	Skill Development - III			√

**Department: ECE**

S.NO	Regulation	Course Code	Name of the Course	Employability	Entrepreneurship	Skill Development
1	R20	20ES104	Problem Solving with Programming	√		
2	R20	20ES112	Problem Solving with Programming Lab	√		
3	R20	20EC104	Digital Electronics	√		
4	R20	20EC105	Linear Integrated Circuits	√		
5	R20	20EC117	Electronic Measurement and Instrumentation	√		
6	R20	20EC112	Computer Networks	√		
7	R20	20ES117	Data Structures and Algorithms	√		
8	R20	20EC103	Analog Circuit Analysis	√		
9	R20	20EC109	Digital Signal Processing	√		
10	R20	20EC110	VLSI Design	√		
11	R20	20ES118	Object Oriented Programming Concepts using Java	√		
12	R20	20EC111	Microcontrollers and Applications	√		
13	R20	20EC125	Wireless Sensor Networks	√		
14	R20	20EC156	Computer Vision	√		
15	R20	20EC161	Web of Things	√		
16	R20	20EC159	AI and Knowledge Representation	√		
17	R20	20HS105	Innovations and IPR for Engineers		√	
18	R20	23HS104	Foundations to Entrepreneurship		√	

19	R20	20ES116	Skill Development			√
20	R20	20ES119	Skill Development II			√
21	R20	20ES120	Skill Development III			√
<b>M. Tech (ES)</b>						
22	R20	20EC227	Embedded Systems Design and Programming	√		
23	R20	20EC228	Embedded Linux	√		
24	R20	20EC230	Internet of Things	√		
25	R20	20EC208	Computer Architecture	√		
26	R20	20EC238	Embedded Systems Design and Programming Lab	√		
27	R20	20EC239	Embedded Linux Lab	√		
28	R20	20EC233	VLSI Fundamentals: A Practical Approach	√		
29	R20	20EC210	Advanced System-On-Chip Design	√		
30	R20	20EC213	Advanced Digital Signal Processing	√		
31	R20	20EC237	High Speed Digital Design	√		
32	R20	20EC240	VLSI Fundamentals: A Practical Approach Lab	√		
33	R20	20EC221	Advanced System-On-Chip Design Lab	√		
34	R20	20EC242	Memory Technologies	√		
35	R20	20EC243	Network Security and Cryptography	√		
36	R20	20MC201	Research Methodology & IPR			√
37	R20	20AC201	Audit Course – I			√
38	R20	20AC202	Audit Course – II			√
39	R20	20MC223	Mini project with Seminar			√
40	R20	20OE201	Industrial Safety			√

**Department: CSE**

S.No.	Regulation	Course Code	Course Name	Employability	Entrepreneurship	Skill Development
1	R20	20BS101	Calculus and Differential Equations	√		√
2	R20	20BS102	Mathematics II (Engineering Mathematics)	√		√
3	R20	20BS103	Engineering Physics	√		√
4	R20	20BS104	Applied Physics	√		√

5	R20	20BS107	Engineering Physics Lab	√		√
6	R20	20BS112	Probability & Statistics	√		√
7	R20	20BS114	Discrete Mathematical Structures	√		√
8	R20	20BS115	Environment and Sustainability	√		√
9	R20	20CA101	Statistical Machine Learning	√		√
10	R20	20CC101	Linux Programming	√		√
11	R20	20CD101	Fundamentals of Data Science	√		√
12	R20	20CS101	Human Computer Interface	√		√
13	R20	20CS102	Computer Organization and Architecture	√		√
14	R20	20CS103	Operating Systems	√		√
15	R20	20CS104	Database Management Systems	√		√
16	R20	20CS105	Computer Networks	√		√
17	R20	20CS106	Artificial Intelligence and Machine Learning	√		√
18	R20	20ES102	Basics of Electrical and Electronics Engineering	√		√
19	R20	20ES103	Introduction to Programming	√		√
20	R20	20ES104	Problem Solving with Programming	√		√
21	R20	20ES107	Product Design Studio		√	
22	R20	20ES108	Smart System Design	√		√
23	R20	20ES109	Programming Tools and Techniques	√		√
24	R20	20ES110	Advanced Programming Tools and Techniques	√		√
25	R20	20ES111	Introduction to Programming Lab	√		√
26	R20	20ES112	Problem Solving with Programming Lab	√		√
27	R20	20ES116	Skill Development -1			√
28	R20	20ES117	Data Structures and Algorithms	√		√
29	R20	20HS101	English Language Enrichment			√
30	R20	20HS102	English Language Lab			√
31	R20	20HS103	Academic Writing	√		√

32	R20	20HS104	Foundations to Entrepreneurship		√	
33	R20	20HS105	Innovation and IPR for engineers		√	
34	R21	21CA103	Advanced Natural Language Processing	√		√
35	R21	21CA104	Data Visualization and Dashboards	√		√
36	R21	21CA113	Reinforcement Learning	√		√
37	R21	21CA115	AI in health care	√		√
38	R21	21CD105	Data Visualization	√		√
39	R21	21CD108	Computer Vision	√		√
40	R21	21CS107	Big data Technologies	√		√
41	R21	21CS113	Computer Graphics and Animation	√		√
42	R21	21CS114	Principles of Programming Languages	√		√
43	R21	21CS115	Introduction to Distributed Computing	√		√
44	R21	21CS116	Internet of Things	√		√
45	R21	21CS119	Scripting Languages	√		√
46	R21	21CS121	Natural Language Processing	√		√
47	R21	21CS122	Information Retrieval Systems	√		√
48	R21	21CS126	Software Testing Methodologies	√		√
49	R21	21CS128	Data Mining	√		√
50	R21	21CS129	Web Mining	√		√
51	R21	21CS132	Text Mining	√		√
52	R21	21CS135	Deep Learning	√		√
53	R21	21CS137	Object Oriented Programming Concepts using JAVA	√		√
54	R21	21CS138	Design and Analysis of Algorithms	√		√
55	R22	22BS112	Probability & Statistics	√		√
56	R22	22BS114	Discrete Mathematical Structures	√		√
57	R22	22BS115	Environment and Sustainability	√		√
58	R22	22CA101	Statistical Machine Learning	√		√

59	R22	22CA102	Generative AI	√		√
60	R22	22CC101	Linux Programming	√		√
61	R22	22CC102	Introduction to Computer Security	√		√
62	R22	22CD101	Fundamentals of Data Science	√		√
63	R22	22CD102	Advanced Data Analytics	√		√
64	R22	22CR105	International Language skills	√		√
65	R22	22CS101	Human Computer Interface	√		√
66	R22	22CS103	Operating Systems	√		√
67	R22	22CS104	Database Management Systems	√		√
68	R22	22CS105	Computer Networks	√		√
69	R22	22CS106	Artificial Intelligence and Machine Learning	√		√
70	R22	22CS109	Theory of Computation and Formal Methods	√		√
71	R22	22CS112	Applications of Data Mining	√		√
72	R22	22CS139	Microprocessors and Computer Architecture	√		√
73	R22	22CS140	Software Engineering	√		√
74	R22	22CS141	Undergraduate Research in Computer Science Engineering	√		√
75	R22	22CS142	Introduction to Cloud Computing	√		√
76	R22	22ES121	Data Structures	√		√
77	R22	22HS103	Communication Skills and Personality Development			√
78	R22	22HS104	Quantitative Aptitude and Logical Reasoning	√		√
79	R22	22HS109	Ethics and Intellectual Property Rights		√	
80	R22	22HS110	Entrepreneurship and Startup	√		√
81	R22	22OE167	Essentials of Entrepreneurship	√		√
82	R22	22PR102	Seminar in Advanced Technologies	√		√

**Department: ME**

S.No.	Regulation	Course Code	Course Name	Employability	Entrepreneurship	Skill Development
1	R20	20HS101	English Language Enrichment			√
2	R20	20ES105	Python Programming	√		
3	R20	20ES106	Graphics and Design Modeling	√		
4	R20	20ES107	Product Design Studio	√		
5	R20	20ES108	Smart System Design	√		
6	R20	20HS102	English Proficiency Lab			√
7	R20	20HS103	Academic Writing			√
8	R20	20HS105	Innovation and IPR for Engineers		√	
9	R20	20ME101	Thermodynamics	√		
10	R20	20ME102	Mechanics of Solids	√		
11	R20	20ME103	Materials Engineering	√		
12	R20	20ME104	Machine Drawing	√		
13	R20	20HS106	Finance for Engineers		√	
14	R20	20ME108	Design of Machine Members-I	√		
15	R20	20ME109	Fluid Mechanics and Hydraulic Machines	√		
16	R20	20ES119	Skill Development-II			√
17	R20	20ME110	Design of Machine Members - II	√		
18	R20	20ME111	CAD/CAM	√		
19	R20	20ME112	Machine Tools and Metrology	√		
20	R20	20ES120	Skill Development-III			√
21	R20	20ME110	Design of Machine Members - II	√		
22	R20	20HS104	Foundations to Entrepreneurship		√	
23	R20	20ME113	Heat Transfer	√		
24	R20	20ME114	Unconventional Machining Process	√		
25	R20	20PR103	Capstone Project	√		

26	R20	20PR104	Major Project/Industry Project/R&D Project/Startup Venture		√	
27	R20	20ME115	Introduction to Factory Automation	√		
28	R20	20ME116	Introduction to Energy Systems	√		
29	R20	20ME117	Advanced Welding Technology	√		
30	R20	20ME118	Production Planning and Control	√		
31	R20	20ME119	Non-Destructive Testing	√		
32	R20	20ME120	Finite Element Method	√		
33	R20	20ME123	Power Plant Engineering	√		
34	R20	20ME125	Automobile Engineering	√		
35	R20	20ME126	Production and Operations Management	√		
36	R20	20ME128	Photovoltaic	√		
37	R20	20ME137	Computer Integrated Manufacturing	√		

**M. Tech -AMS**

S.No.	Regulation	Course Code	Course Name	Employability	Entrepreneurship	Skill Development
1	R20	20ME201	Computer Aided Design Modeling	√		
2	R20	20ME202	Additive Manufacturing Processes	√		
3	R20	20ME203	Computer Integrated Manufacturing	√		
4	R20	20ME204	Project Management	√		
5	R20	20ME205	Sustainable Manufacturing	√		
6	R20	20ME206	Materials and Energy Sources for Additive Manufacturing	√		
7	R20	20ME207	Advanced Material Technology	√		
8	R20	20ME208	Engineering Smart Materials	√		

9	R20	20ME218	Additive Manufacturing Laboratory	√		
10	R20	20ME219	CAD/CAE Lab	√		
11	R20	20ME209	Automation & Robotics	√		
12	R20	20ME210	Design for Additive Manufacturing	√		
13	R20	20ME211	English for Research paper writing			√
14	R20	20ME212	Composite Material	√		
15	R20	20ME213	Digital Supply Chain Management	√		
16	R20	20ME214	Big Data Analytics for Manufacturing	√		
17	R20	20ME215	Flexible Manufacturing Systems	√		
18	R20	20ME216	Manufacturing System Simulation	√		
19	R20	20ME217	NDE/NDT	√		
20	R20	20ME220	CNC Machines Lab	√		
21	R20	20ME221	Modelling and Simulation for Additive Manufacturing Lab	√		
22	R20	20MC201	Research Methodology & IPR		√	
23	R20	20ME222	Project Work and Seminar	√		
24	R20	20ME223	Project Work and Seminar	√		

**Department: BM (SOB)**

S. No.	Regulation	Course Code	Course Name	Employability	Entrepreneurship	Skill Development
1	R20	20BB102	Creativity and Innovation		√	
2	R20	20BB106	English Language for Beginners			√
3	R20	20BB109	Managerial Competencies Development- I			√
4	R20	20BB110	Entrepreneurship		√	



5	R20	20BB117	Introduction to IT			√
6	R20	20BB118	Business Communication Lab			√
7	R20	20BB119	Managerial Competencies Development- II			√
8	R20	20BB121	Supply Chain Management	√		
9	R20	20BB123	E-business Models		√	
10	R20	20BB186	Managerial Competencies Development-III			√
11	R20	20BB133	Business Process Re-engineering		√	
12	R20	20BB187	Conceptual Competencies			√
13	R20	20BB191	Internship	√		
14	R20	20BB137	Research Methodology using SPSS	√		
15	R20	20BB138	Management Information Systems	√		
16	R20	20BB190	Capstone Project	√		
17	R20	20BB143	Commercial Banking Operations	√		
18	R20	20BB155	Foreign Exchange Management	√		
19	R20	20BB158	International Financial Management	√		
20	R20	20BB126	Python	√		
21	R20	20BB145	Programming for Analytics	√		
22	R20	20BB127	Store Keeping & Warehousing	√		
23	R20	20BB170	Inventory Management & Material Requirements Planning	√		
24	R20	20BB130	Essentials of Entrepreneurship		√	
25	R20	20BB151	Lean Startup		√	
26	R20	20BB152	New Venture Creation		√	
27	R20	20BB153	Entrepreneurial Finance		√	

28	R20	20BB173	Prototyping & User design		√	
29	R20	20BB177	Incubation Ecosystem		√	

**Department: Agriculture (SOA)**

S.No.	Regulation	Course Code	Course Name	Employability	Entrepreneurship	Skill Development
1	R20	AEXT-391	Entrepreneurship Development and Business Communication		√	
2	R20	ELEC-340	Agribusiness management	√		
3	R20	AGRO-203	Irrigation Water Management		√	
4	R20	HORT-281	Production Technology for Vegetables and Spices	√		
5	R20	HORT-282	Production Technology for Fruit and Plantation Crops	√		
6	R20	GPBR-212	Principles of Seed Technology	√		
7	R20	HORT-283	Production Technology of Ornamental Crops Medicinal, Aromatic Plants and Landscaping		√	
8	R20	AGRO-302	Practical Crop Production –I (Kharif Crops)	√		
9	R20	AGRO-304	Practical crop production – II (Rabi crops)	√		
10	R20	AGRO-305	Farming systems & organic farming for sustainable agriculture		√	
11	R20	ELEC-230	Bio-pesticides and Bio-fertilizers		√	
12	R20	ELEC-380	Protected Cultivation / Hi-tech Horticulture		√	
13	R20	AEXT-192	Life Skills and Personality Development			√
14	R23	MULTI-2R1	Undergraduate Research in Agriculture		√	
15	R23	HORT-381	Post-harvest Management and Value Addition of Fruits and Vegetables			√
16	R20	ENGL-101	Comprehension & Communication skills in English			√
17	R20	AEXT-192	Life Skills and Personality Development			√
18	R20	AGBM-101	Human Values & Ethics (non-gradual)			√
19	R20	EVST -301	Environmental Studies & Disaster Management			√
20	R20	FDSN-101	Principles of Food Science and Nutrition			√
21	R20	AEXT-292	Communication Skills and Personality Development			√

22	R20	AEXT-191	Rural Sociology & Educational Psychology			√
23	R20	SMCA-201	Statistical Methods			√
24	R23	SMCA-102	Statistical Methods with Data Visualization			√
25	R23	SMCA-202	Problem Solving Using Python Programming			√
26	R20	SMCA-301	Agri informatics			√
27	R20	ELP	Experiential Learning Program		√	
28	R20	RAWEP	Crop Production			√
29	R20	RAWEP	Crop Protection			√
30	R20	RAWEP	Rural Economics			√
31	R20	RAWEP	Extension Programme			√
32	R20	RAWEP	Research Station / KVK / DAATT Centre activities and attachment to Agro based industries	√		

**Department: CE**

S.No.	Regulation	Course Code	Course Name	Employability	Entrepreneurship	Skill Development
1	R20	20HS101	English Language Enrichment			√
2	R20	20ES105	Python Programming		√	√
3	R20	20ES106	Graphics and Design Modelling			√
4	R20	20ES107	Product Design Studio		√	
5	R20	20HS105	Innovation and IPR for Engineers			√
6	R20	20CE102	Building Materials, Planning and Construction Practices	√	√	√
7	R20	20CE105	Surveying and Geomatics	√		
8	R20	20ES115	Engineering Design Process			√
9	R20	20CE106	Design of Concrete Structures		√	
10	R20	20CE107	Geotechnical Engineering	√		
11	R20	20CE108	Highway Engineering	√		
12	R20	20CE109	Estimating Costing and Project Management	√		√
13	R20	20CE112	Computer Aided Civil Engineering Drawing	√		√
14	R20	20CE126	Building Information Modelling	√		√
15	R20	20CE129	Intelligent Transportation Systems	√		
16	R20	20CE131	Industrial Waste Treatment and Disposal	√		

17	R20	20CE133	Design of Energy Efficient Building			✓
18	R20	20CE135	Advanced Structural Design			✓
19	R20	20CE137	Sustainability in Construction		✓	
20	R20	20CE141	Railway and Airport Engineering			✓

  
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### List of Courses mapped to Sustainable Development goals

S. No	Title of SDG	Name of the Program	Course code & Title
1	No Poverty, Decent Work and Economic Growth	M. Tech-ME- Advanced Manufacturing Systems	20ME205 & Sustainable Manufacturing
2	Zero Hunger, Clean Water and Sanitation	B. Sc. (Hons.) Agriculture	AGRO203 & Irrigation Water Management
3	Good Health and Well-being	B. Sc. (Hons.) Agriculture	FDSN-101 & Principles of Food Science and Nutrition
4	Good Health and Well-being	B. Tech-Electronics & Communication Engineering	20EC119 & Biomedical Instrumentation
5	Good Health and Well-being	B. Tech-Electronics & Communication Engineering	20EC139 & Biomedical Signal Processing
6	Gender Equality	B. Tech-Electronics & Communication Engineering, Electrical & Electronics Engineering, Mechanical Engineering, Civil Engineering, Computer Science Engineering, Data Science	20OE116 & Engineering Ethics
7	Clean Water and Sanitation, Life on Land	B. Tech- Civil Engineering	20CE110 & Environmental Engineering
8	Affordable and Clean Energy, Climate Action	B. Tech- Mechanical Engineering	20ME144 & Renewable Energy Systems
9	Affordable and Clean Energy, Climate Action	B. Tech- Electrical & Electronics Engineering	20EE161 & Grid Integration of Renewable Energy Sources
10	Affordable and Clean Energy	B. Tech- Electrical & Electronics Engineering	20EE159 & Power Systems Deregulation



11	Affordable and Clean Energy	B. Tech- Electrical & Electronics Engineering	20EE115 & Energy Storage Systems
12	Decent Work and Economic Growth	B. Tech-Electronics & Communication Engineering, Electrical & Electronics Engineering, Mechanical Engineering, Civil Engineering, Computer Science Engineering, Data Science	20OE111 & Operations Research
13	Industry, Innovation, and Infrastructure	B. Tech- Mechanical Engineering	20ME103 & Materials Engineering
14	Sustainable Cities and Communities	B. Tech-Electronics & Communication Engineering, Electrical & Electronics Engineering, Mechanical Engineering, Civil Engineering, Computer Science Engineering, Data Science	20OE125 & Smart Cities
15	Sustainable Cities and Communities	B. Tech-Electronics & Communication Engineering, Electrical & Electronics Engineering, Mechanical Engineering, Civil Engineering, Computer Science Engineering, Data Science	20OE123 & Disaster Management
16	Responsible Consumption and Production	B. Tech- Civil Engineering	20CE169 & Solid Waste Management
17	Partnerships for the Goals	B. Tech-Electronics & Communication Engineering, Electrical & Electronics Engineering, Mechanical Engineering, Civil Engineering, Computer Science Engineering, Data Science	20OE102 & Essentials of Entrepreneurship

  
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**List and Copies of documents indicating the functiona MoUs/ linkage /collaboration activity-wise and year-wise**

S.N o.	Year of signing MoU	Name of the organization with whom MOU/Collaboration being signed	Duration	Purpose of MOU/Collaboration	List the actual activities under each MOU year-wise	Date of the activity conducted	Link to the MoU Document	Link to the Activities Proofs
1	2022-23	Forum for Better Warangal	3 years and then renewal	Expert Session, Community Engagement, Societal Survey in and around Warangal	Expert Session and Problem identification social innovations projects patents	18-03-2022	<a href="#">View</a>	<a href="#">View</a>
2	2022-23	ISDC Projects Pvt. Ltd., Bengaluru	Life Time	Student Awareness Program and Faculty Development Program	Abroad Education Guidance	27-07-2023	<a href="#">View</a>	<a href="#">View</a>
3	2022-23	Logistics Skill Center Council	Life Time	Academic Collaboration & Upskilling	Pedagogy for Logistics Domain Guidance	28-06-2023	<a href="#">View</a>	<a href="#">View</a>
4	2022-23	Modern Electric Enterprises, Hyderabad	3 Years	Professional Training of students, Scientific, academic staff Academic	Internships	24-05-2023	<a href="#">View</a>	<a href="#">View</a>
5	2022-23	The University of Central Missouri (UCM)	3 Years	Academic & Research Collaboration, Faculty & Student Exchange	Funding Activities and Opportunities for SRU Faculty and Students Awareness Program	12-06-2023	<a href="#">View</a>	<a href="#">View</a>



6	2022-23	S4cloud	2 years	Internship, Research Collaboration & Training and Placements	Internship	18-04-2023	<a href="#">View</a>	<a href="#">View</a>
7	2022-23	Splendid Tech Systems, Hyderabad	3 Years	Professional Training of students, Scientific, academic staff Academic	Internship	11-04-2023	<a href="#">View</a>	<a href="#">View</a>
8	2022-23	Louisiana State University Shreveport (LSUS), USA	3 Years	Academic & Research Collaboration & Student, Faculty Exchange	Knowledge sharing Seminar, talk	08-02-2023	<a href="#">View</a>	<a href="#">View</a>
9	2022-23	MoU- Neural_AI_Private_Solutions(ABE_Sem iconductors)[1]	5 Years	Knowledge sharing, Academic & Student Exchange, Faculty Training	Expert talk, Hands on Session	27-11-2023	<a href="#">View</a>	<a href="#">View</a>
10	2022-23	UMASS Lowell- manning	5 Years	Academic & Research Collaboration & Student, Faculty Exchange	Open House Carreir Guidance	02-02-2024	<a href="#">View</a>	<a href="#">View</a>
11	2022-23	Management & Entrepreneurship and Professional Skills Council	3 Years	Faculty & Student Training	Technology Transfer, Expert session	29-05-2023	<a href="#">View</a>	<a href="#">View</a>
12	2022-23	Tourism and Hospitality Skill Council	3 Years	Academic & Student Exchange, Faculty Training	Student Trainings & Awareness Programs	05-06-2023	<a href="#">View</a>	<a href="#">View</a>
13	2022-23	UMASS Lowell	5 Years	Academic & Research Collaboration & Student, Faculty Exchange	faculty workshop students awareness knowledge sharing	10-03-2023	<a href="#">View</a>	<a href="#">View</a>





14	2022-23	University of California	5 Years	Academic & Research Collaboration & Student, Faculty Exchange	Seminar, Knowledge sharing	19-07-2023	<a href="#">View</a>	<a href="#">View</a>
15	2022-23	Asia University Taiwan	2 years	Academic & Research Collaboration & Student, Faculty Exchange	Academic Seminar, Training Program	17-07-2023	<a href="#">View</a>	<a href="#">View</a>
16	2021-22	Ultratech Cements Ltd., Hyderabad	3 Years	Academic & Research Collaboration, Training Industrial Visit, Internship, Student activities	Seminars, student and faculty Trainings, Internships	06-08-2022 09-03-2023 10-03-2023 23-04-2024	<a href="#">View</a>	<a href="#">View</a>
17	2021-22	Ganesh Ecotech Private Limited	2 years	Industrial Visit, Academic & Research Collaboration, Faculty & Student Exchange	Industrial Visit+knowledge sharing talk	19-10-2022 20-10-2023	<a href="#">View</a>	<a href="#">View</a>
18	2021-22	Cyant Industries, Hyderabad	2 Years	Academic Collaboration & Student, Faculty Exchange, Internships	Job Training, Collaborative Research	21-02-2022	<a href="#">View</a>	<a href="#">View</a>
19	2021-22	M/s. R. Narsimha Scrap Merchants	3 Years	Field Visit, Knowledge sharing for students and staff	Student awareness programs field visits, knowledge sharing	10-10-2021	<a href="#">View</a>	<a href="#">View</a>



20	2021-22	SJ Constructions, Chennai	3 Years	Academic & Research Collaboration, Training Industrial Visit, Internship, Student activities	Student Trainings, industry visits	28-02-2022	<a href="#">View</a>	<a href="#">View</a>
21	2021-22	Sneha NGO, Warangal	3 years	Engineering for community improvement as a career	Societal Survey, Awareness session for youth, Session related to Psychology	08-08-2021	<a href="#">View</a>	<a href="#">View</a>
22	2021-22	Siri Society, Warangal	3 years	Engineering for community improvement as a career	Societal Survey, Awareness session for youth, Session related to Psychology	20-07-2021	<a href="#">View</a>	<a href="#">View</a>
23	2021-22	Sopar Balavikasa, Warangal	3 years	Engineering for community improvement as a career	Technology Transfer, Expert session	28-04-2022 09-02-2023	<a href="#">View</a>	<a href="#">View</a>
24	2020-21	CSIR-Central Building Research Institute, Roorkee	3 Years	Academic Exchange & Research Collaboration, Internships, Project work, Training	Technology Transfer, Expert session, Research Internships	10-02-2024 08-02-2024 05-06-2024	<a href="#">View</a>	<a href="#">View</a>
25	2020-21	Sahrudaya Old Age Home, Warangal.	3 Years	Serving Senior Citizens in the sunset yours of their lives	Societal Survey	01-02-2022	<a href="#">View</a>	<a href="#">View</a>
26	2020-21	Sai Seva Trust, Warangal	3 years	Engineering for community improvement as a career	Societal Survey, Teaching methods, Awareness about Design Thinking and Innovation for School children.	03-08-2022	<a href="#">View</a>	<a href="#">View</a>



27	2020-21	Sahasra Crop Science (P) Ltd	2 Years	Academic & Research Collaboration, Faculty & Student Exchange	Paddy trial, Field Experiments, Knowledge sharing awarenss programs for students and Faculty	24-03-2022 05-05-2022	<a href="#">View</a>	<a href="#">View</a>
28	2020-21	August Overseas Foreign Education Consultancy LLP	3 Years	Provide foreign educationi services, including Free IELTS coaching and facilitate direct interactions between SRU students and officials from foreign universities	career guidance overseas education guest t alk	20-09-2022	<a href="#">View</a>	<a href="#">View</a>
29	2020-21	Divyasree NSL Infrastructure Pvt. Ltd	2 Years	Academic & Student Exchange, Faculty Training	Industrial Visit, Student Trainings	04-03-2022	<a href="#">View</a>	<a href="#">View</a>
30	2020-21	Microsoft Corporation (India)	Life time - Mutually agreed terms	Faculty & Student Training	Internships, Invited Talks, Student Certifications	15-09-2020, 17-11-2020, 24-09-2021, 25-09-2021, 28-09-2021, 29-11-2021	<a href="#">View</a>	<a href="#">View</a>
31	2020-21	Amazon	Life time - Mutually agreed terms	Academic & Student Exchange	Student certifications	18-08-2021	<a href="#">View</a>	<a href="#">View</a>
32	2020-21	CISCO	Life time - Mutually agreed terms	Students Training and Certifications	Student certifications	17-09-2022 18-06-2023 28-05-2023 01-06-2023 26-12-2022	<a href="#">View</a>	<a href="#">View</a>



33	2020-21	Tech Mahendra	Life time	Faculty & Student Training and Certifications	Technology Transfer, Expert session	15-12-2022	<a href="#">View</a>	<a href="#">View</a>
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