

DHANALAKSHMI SRINIVASAN ENGINEERING COLLEGE

(An Autonomous Institution, Affiliated to Anna University, Chennai)

Re-accredited with 'A' Grade by NAAC, Accredited by TCS

Accredited by NBA (BME, ECE & EEE)

PERAMBALUR – 621212

REGULATIONS – 2020

Skill Development Course

(Mandatory Course and Activities)

CURRICULA AND SYLLABI



(Applicable to the students admitted from the Academic year 2020 – 2021)

Ratified & Approved in Academic Council on 11.05.2021

SKILL DEVELOPMENT COURSE

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OVERVIEW-SKILL DEVELOPMENT COURSE

As an Autonomous Institution, the Institute has a privilege of framing their own Regulations, Curriculum and Syllabi by adhering to the Parent University. In this connect, the Institution offer the regular accomplished student activities in a structured way as Skill Development Course (Mandatory Course and Activities) with some additional skill based activities that needed for current scenario. These Skill Development Courses are designed to groom budding engineers, become employable and a responsible citizen of the nation. By offering these courses, the Institute works to create a bridge between the Industry and Academics with explicit Industry - Institute relation.

The Curriculum for Engineering Education has been renovated by the All India Council for Technical Education (AICTE), New Delhi to meet the Industrial needs. Model Curriculum has been proposed by AICTE during the year 2018, in which the number of credits required for completing the Degree is reduced to 160 credits from 220 credits. In line with this AICTE guides the Educational Institution to offer Mandatory course and activities (as non-credit courses) for the students to develop Skill Based Education .Based on the Skill Based Learning and AICTE Guidelines, there exists scope for Autonomous colleges, to develop the regular Curriculum with added skill based courses as well.

The Institution has framed the Skill Development Course considering an aspect from Physical Fitness to Employability Course under seven categories, as listed below:

| Group | Category |
|--------------|----------------------|
| G1 | Health & Fitness |
| G2 | Service to Society |
| G3 | Skill Course |
| G4 | Social Course |
| G5 | Technical Expertise |
| G6 | Employability Course |
| G7 | Proficiency Exam |

The detailed description of each group is as follow:

- G1 - Health & Fitness:** Orient and accelerate learners to pay attention towards health, fitness and to live a healthy life.
- G2 - Service to Society:** Inculcate the essence of Service to Humanity based on solidarity, sharing and brotherhood and create a sense of oneness.
- G3 - Skill course:** Impart essential computing/ language / proficiency skills gaining confidence towards active participation in administering the role.
- G4 - Social Course:** Cultivating the relationships and functioning of the society with government, economics, civics and sociology
- G5 - Technical Expertise:** Instilling Capacity building skills that lead to implementation/ design of products, solution.
- G6 - Employability Course:** Fostering career path across wide sectors beyond qualifications and experience.
- G7 - Proficiency Exam:** Measures the student abilities and skills in their specific programme and also to know how well he/she has learned, understood and internalized the related concepts and principles of his/her courses.

These seven categories of group are further expanded as 12 Groups with 7 modules in each group. So, totally 84 modules are offered as Skill Development Courses for B.E / B.Tech Undergraduate students admitted from the academic year 2020 – 2021 onwards as per DSEC Regulations 2020. This way of skill learning is formulated to encourage choice based learning systems among our student fraternity. The students are skilled to do 2 modules in every semester during their course of study. At the successful completion of their Programme, the students are able to acquire skills from their respective 8 successful completed modules along with their regular Curriculum and Syllabi.

Outcome:

On successful completion of the module, student will be to acquire the following skill

| | |
|----------|------------------------------------|
| I Year | Fitness and Societal Skill |
| II Year | Domain Specific and Social Skill |
| III year | Technical and Pre Placement Skill |
| IV Year | Employability and Higher Education |

GUIDELINES

The Skill Development Course is offered to our students as per the DSEC Regulations 2020. The Skill Development Course is offered with 12 Groups for developing the student skills in diverse fields and to evoke themselves as professionals.

| 12 GROUPS UNDER SEVEN CATEGORIES | | | | | | | |
|---|-----------------------------|------------|------------------------------|------------|----------------------------|------------|------------------------------|
| G1 | Health & Fitness | G2 | Service to Society Level 1 | G3 | Skill Course Level 1 | G4 | Social Course |
| G5 | Technical Expertise Level 1 | G6 | Employability Course Level 1 | G7 | Skill Course Level 2 | G8 | Employability Course Level 2 |
| G9 | Technical Expertise Level 2 | G10 | Proficiency Exam | G11 | Service to Society Level 2 | G12 | Employability Course Level 3 |

As each group comprises of seven modules and in each semester, 2 groups are offered to the students. These Groups are disseminated in a way that every student will be skilled from all seven categories. The offered Group split up for every semester is mentioned as below:

| OFFERED GROUP IN EACH SEMESTER | | | | | | | | |
|---------------------------------------|----------|-----------|------------|-----------|----------|-----------|------------|-------------|
| Semester | I | II | III | IV | V | VI | VII | VIII |
| Group Offered | G1 | G3 | G4 | G6 | G7 | G9 | G10 | G12 |
| | G2 | G1 | G5 | G4 | G8 | G7 | G11 | G10 |

The Students can enroll any one of the module (considering 2 Groups) every semester.

Curriculum and Syllabi framing for offered modules:

The modules are classified as Theory based / Practical Based / Events Based activities. The syllabus is framed by referring AICTE Model Curriculum. For certificate courses, categorize as circuit and non circuit branches and modalities has to be framed.

The modalities for outdoor activities are listed if the methodology of the module is outdoor. Evaluation strategy is proposed in the syllabus of each module.

Credit details:

For the award of degree, every student has to complete atleast one module in each group.

| Programmes | Under Graduate (B.E / B.Tech) | | | |
|---------------------------------|---------------------------------------|-----------|------------|-----------|
| Year | I | II | III | IV |
| Number of Modules | 2 | 2 | 2 | 2 |
| Credit Details of module | 1 | 2 | 2 | 1 |
| Total Credits : 12 | 2 | 4 | 4 | 2 |

CURRICULUM

Expanded Group Category:

As mentioned in the guidelines, the disseminated Group details are given along with the respective Group number.

| | | | |
|--------------------------------|-------------------------------------|---------------------------|-----------------------|
| Health & Fitness (G1) | Service to Society (G2,G11) | Skill Course (G3,G7) | Social Course (G4) |
| Technical Expertise (G5,G9) | Employability Course (G6,G8,G12) | Proficiency Exam (G10) | |

Semester wise Details:

The offered Group under each semester is stipulated as follow,

| Semester | Health & Fitness (G1) | Service to Society (G2,G11) | Skill Course (G3,G7) | Social Course (G4) | Technical Expertise (G5,G9) | Employability Course (G6,G8,G12) | Proficiency Exam (G10) |
|-------------|--------------------------|--------------------------------|-------------------------|-----------------------|--------------------------------|-------------------------------------|---------------------------|
| I | * (G1) | * (G2) | | | | | |
| II | * (G1) | | * (G3) | | | | |
| III | | | | * (G4) | * (G5) | | |
| IV | | | | * (G4) | | * (G6) | |
| V | | | * (G7) | | | * (G8) | |
| VI | | | * (G7) | | * (G9) | | |
| VII | | * (G11) | | | | | * (G10) |
| VIII | | | | | | * (G12) | * (G10) |

Module Details:

The offered module under each Group with their Module code,

| G1 Health & Fitness | | G2 Service to Society Level 1 | | G3 Skill Course Level 1 | |
|--------------------------------|---------------------------------------|---------------------------------------|--------------------------------------|--|--|
| Module code | Module name | Module code | Module name | Module code | Module name |
| UHF01 | Yoga for Human Excellence | USS01 | National Service Scheme | USC01 | Ms-Office |
| UHF02 | General Psychology | USS02 | YRC | USC02 | Computer Installation & Troubleshooting |
| UHF03 | Health care Programme | USS03 | RRC | USC03 | Electrical Wiring ,Basic Repair of Home Appliances |
| UHF04 | Physical Grooming | USS04 | Energy Club | USC04 | Basics of Google Domain |
| UHF05 | Fire Safety Hazards | USS05 | Water Club | USC05 | Desktop Publishing |
| UHF06 | Transportation Management | USS06 | ECO Club | USC06 | Digital Photography/Music |
| UHF07 | Value Education | USS07 | E Club | USC07 | Tally |
| G4 Social Course | | G5 Technical Expertise Level 1 | | G6 Employability Course Level 1 | |
| Module code | Module name | Module code | Module name | Module code | Module name |
| USL01 | Indian Constitution and Finance | UTE01 | Value Added Course – Domain specific | UES01 | Integrated Aptitude skill course-1 |
| USL02 | Essence of Indian Knowledge Tradition | UTE02 | Online course-Domain Relevance | UES02 | Soft skill certificate course -1 |
| USL03 | Environment Protection | UTE03 | Online Course-General | UES03 | Resume Building |
| USL04 | Universal Human values | UTE04 | Project Contest | UES04 | Project Management |
| USL05 | Ethics in Engineering | UTE05 | Virtual lab | UES05 | Inplant Training |
| USL06 | Stress Management | UTE06 | Arduino Developer | UES06 | English Made Easy |
| USL07 | Emotional Intelligence | UTE07 | Mobile Repair Technology | UES07 | Maths Made Easy |

| G7 Skill Course Level 2 | | G8 Employability Course Level 2 | | G9 Technical Expertise Level 2 | |
|--------------------------------|---|--|---|---|---|
| Module code | Module name | Module code | Module name | Module code | Module name |
| USC08 | FOSS course – Domain specific | UES08 | GATE Coaching-1 | UTE08 | International Conference |
| USC09 | Workshop/ Smart India Hackathon | UES09 | UPSC Exam Training | UTE09 | Publications |
| USC10 | Technical Seminar | UES10 | Integrated Aptitude skill course-2 | UTE10 | Self learning courses |
| USC11 | Website Development | UES11 | Soft skill certificate course-2 | UTE11 | Organizing a technical event- IEEE/ISTE |
| USC12 | Professional Society Membership & Activities | UES12 | Marketing Management | UTE12 | Product Development |
| USC13 | Symposium events | UES13 | Visual Media And Film Making | UTE13 | Document preparation system : LaTeX |
| USC14 | Inhouse Training | UES14 | Domain Specific Certificate Course | UTE14 | Educational & Technical Visit |
| G10 Proficiency Exam | | G11 Service to Society Level 2 | | G12 Employability Course Level 3 | |
| Module code | Module name | Module code | Module name | Module code | Module name |
| UPE01 | Clearing proficiency Exam(GATE/Tech Exam) | USS08 | Guidance to School Education | UES15 | GATE Coaching-2 |
| UPE02 | International Certificate Course | USS09 | Continuing Education Programmes | UES16 | Placement Internships |
| UPE03 | English Proficiency Certification (TOEFL/ IELTS/BEC) | USS10 | Dissemination of Information on Government welfare schemes to villagers | UES17 | Business plan & Development |
| UPE04 | Domestic Languages (Hindi/ Sanskrit/Tamil/Malayalam/Telugu) | USS11 | Cleanliness | UES18 | Radio / Video Jockeying & Emceeing |
| UPE05 | Foreign Languages (French/German/ Japanese / Korean) | USS12 | Agriculture for Engineers | UES19 | Banking and Insurance |
| UPE06 | Aptitude Proficiency certification (GMAT/ CMAT/GRE/CAT) | USS13 | Swachh Bharat Abhiyan | UES20 | In House Project for the Betterment of Institute/Department |
| UPE07 | Energy Audit/Management | USS14 | Gender Sensitization Programme | UES21 | UPSC Exam Training |

SYLLABUS

Group 1

| | | | | | | | | | |
|---------------------------|---|---|---|----------------|---|---|---------------------------|---|--|
| Group Number | G1 | | | Group Category | | | Health and Fitness | | |
| Module Code | UHF01 | | | Module Name | | | Yoga For Human Excellence | | |
| Credit Details | L | 1 | T | 0 | P | 0 | C | 1 | |
| Objective | ❖ To provide the elementary knowledge about the practical aspects of yoga | | | | | | | | |
| Expected Outcome | Students will be able to ❖ Develop healthy mind in a healthy body thus improving social health | | | | | | | | |
| Teaching Methodology | Indoor /Outdoor | | | | | | | | |
| Syllabus / Components | Unit-I: Meaning of yoga- Yoga as science –Simplified physical exercise, Surya namaskar, Mudras-Yoga in Vedic period. Unit-II: Mind and body –Various yoga poses and their benefits and Types of yoga limiting 5 acts. Unit-III: Regularization of breathing exercises-Hand exercises –Leg exercises – Eye exercises- Types of pranayama. | | | | | | | | |
| Assessment and Evaluation | Indoor ❖ Attendance: on attending event/activity ❖ Students performance in yoga for 10 minutes video submission Outdoor ❖ Vazhga valamundan illam –Sky yoga center ❖ Velmurugan yoga research Mayam ❖ Arivu thiru kovil - /maharishi /Easha yoga | | | | | | | | |

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|---------------------------|---|---|---|----------------|---|---|--------------------|---|
| Group Number | G1 | | | Group Category | | | Health and Fitness | |
| Module Code | UHF02 | | | Module Name | | | General Psychology | |
| Credit Details | L | 1 | T | 0 | P | 0 | C | 1 |
| Objective | <ul style="list-style-type: none"> ❖ To teach them about Psychology, methods used in Psychology and orient students about the biological basis of behavior and sensory experience. ❖ To introduce them to basic cognitive concepts of attention, perception, memory, thinking, reasoning and learning. | | | | | | | |
| Expected Outcome | <p>Students will be able to</p> <ul style="list-style-type: none"> ❖ Demonstrate fundamental knowledge and comprehension of the major concepts of theoretical perspectives, historical trends and empirical. ❖ Apply Psychological principles in day to day life | | | | | | | |
| Teaching Methodology | <ul style="list-style-type: none"> ❖ Guest Lecture(Indoor) ❖ Video Lecture | | | | | | | |
| Syllabus /Components | <p>Unit I Introduction to General Psychology: Historical Foundations of Psychology, Method of Psychology: Introduction, Observation, Case study, Interview, Survey and Experimental method.</p> <p>Unit II Attention: Nature and concept of attention, different aspects of attention. Perception: Principles of perceptual organization, perceptual constancies and depth perception, internal and external factors influencing perceptual experience.</p> <p>Unit III Interpersonal Perception: Memory, Thinking and Reasoning(Logical).Problem solving(Psychological test)</p> | | | | | | | |
| Assessment and Evaluation | <ul style="list-style-type: none"> ❖ Attendance ❖ MCQ –Test(25mark) | | | | | | | |

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|---------------------------|--|---|---|----------------|---|---|-----------------------|---|--|
| Group Number | G1 | | | Group Category | | | Health and Fitness | | |
| Module Code | UHF03 | | | Module Name | | | Health Care Programme | | |
| Credit Details | L | 1 | T | 0 | P | 0 | C | 1 | |
| Objective | <ul style="list-style-type: none"> ❖ To Provide essential health services and introduce innovative strategies of care ❖ To develop a working knowledge of the health care for their future. ❖ To develop the skills necessary for managing healthcare material logistics. | | | | | | | | |
| Expected Outcome | <p>Students will be able to</p> <ul style="list-style-type: none"> ❖ Understand the basic concepts of the healthcare set up and how to obtain them during home. ❖ Take care of their own health and also for our nation. ❖ Understand the first aid practices for their own life. | | | | | | | | |
| Teaching Methodology | Indoor | | | | | | | | |
| Syllabus / Components | <p>Unit-I : Health Care Management Overview of health care,- Manpower in Health Care Management – Health Care Services in Health Industry – Present Opportunities and challenges in Health care Field ; Worldwide scenario – Students diet control – personal hygiene – physical health development.</p> <p>Unit-II: Health Administration Hospital Administration – Structuring of Health Care Sector – Service Provider (Government Hospitals, Private Hospitals, Hospitals run by NGO’s).</p> <p>Unit-III: Medical Camp Medical Camp for all the students.</p> | | | | | | | | |
| Assessment and Evaluation | <ul style="list-style-type: none"> ❖ Attendance: : on attending event/activity ❖ Assessment: Activities (Submit a chart for one week regular food activities) ❖ Outdoor Certificate of Participation | | | | | | | | |

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|---------------------------|--|---|---|----------------------|---|---|--------------------|---|
| Group Number | G1 | | | Group Category | | | Health and Fitness | |
| Module Code | UHF04 | | | Module Name/Duration | | | Physical Grooming | |
| Credit Details | L | 1 | T | 0 | P | 0 | C | 1 |
| Objective | <ul style="list-style-type: none"> ❖ To practice good personal grooming and hygiene habits. ❖ To know individual body shapes for the purpose of selecting cloths and accessories that are complementary as well as professional. | | | | | | | |
| Expected Outcome | <p>Students will be able to</p> <ul style="list-style-type: none"> ❖ Understand the importance of Personal hygiene, as it's the first step to good grooming. ❖ Know individual body shapes for the purpose of selecting clothes and accessories that are complementary as well as professional. | | | | | | | |
| Teaching Methodology | Indoor & Outdoor | | | | | | | |
| Syllabus / Components | <p>Unit-I Personal Hygiene, Board games – Puzzle games –Memory games – Boredom busters for all ages –Building card towers –Fun group activities for challenge activities –Rules of indoor games</p> <p>Unit-II Basketball –Disc golf –Tennis –Gun shooting –Kick ball –Ultra marathon-Kabadi-Volleyball-Football.</p> <p>Unit-III. Rules of outdoor games-Players in respective games-Achievement to by Indian & Tamilnadu players in outdoor games –Dimensions of playground –All above games.</p> <p>Activities:</p> <ul style="list-style-type: none"> ❖ Hair dressing and meghandi grooving competition activities for girls and nail arts. ❖ Badminton, Shot-put, Kabaddi. | | | | | | | |
| Assessment and Evaluation | <ul style="list-style-type: none"> ❖ Attendance: : on attending event/activity ❖ Dress code instructions monitoring for boys and girls. ❖ Physical grooming competition. | | | | | | | |

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|---------------------------|---|---|---|----------------|---|---|---------------------|---|--|
| Group Number | G1 | | | Group Category | | | Health and Fitness | | |
| Module Code | UHF05 | | | Module Name | | | Fire Safety Hazards | | |
| Credit Details | L | 1 | T | 0 | P | 0 | C | 1 | |
| Objective | <ul style="list-style-type: none"> ❖ To promote the Strategies of the fire and explosion events. ❖ To reduce the risk damage caused by fire to the environment using demo. ❖ To provide adequate and readily accessible means of escape from fire. | | | | | | | | |
| Expected Outcome | <p>Students will be able to</p> <ul style="list-style-type: none"> ❖ Acquire necessary knowledge in the area of Fire and Safety aspects to handle the fire hazards. ❖ Develop skills to understand operation of process at fire and safety situations. | | | | | | | | |
| Teaching Methodology | <ul style="list-style-type: none"> ❖ Indoor Activity: Video Lecture ❖ Outdoor Activity: To visit fire station. | | | | | | | | |
| Syllabus / Components | <p>Unit-I Safety goals and objective, monitoring safety progress, Identifying hazards and risks, developing safe work system, safety value and principles. Understanding Fire: How and why die in fires human behaviors in fire, how people behave in emergencies, plan drawing, brief look at drawing to scale and how plans can be used to good effect.</p> <p>Unit-II The Process of fire risk assessment, fire risk assessment recording and review procedures, the potential for pollution arising from fires, measures to preview and reduce fire pollution.</p> <p>Unit-III. Disasters: Types of disasters-Earth quake, lank slide, flood cyclone drought, water, sanitation, Sheller manmade disaster: Such as fire, Industrial pollution, Nuclear Disaster, Biological Disaster, Accidents(Air, Sea, Rail, Road),Structural failures(Building and Bridge).Cause, effects and practical examples for all disasters.</p> | | | | | | | | |
| Assessment and Evaluation | <ul style="list-style-type: none"> ❖ Attendance: on attending event/activity ❖ Submission of case studies/short film/videos ❖ Disaster Management/Team/Procedure | | | | | | | | |

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|---------------------------|---|---|---|----------------------|---|---|---------------------------|---|--|
| Group Number | G1 | | | Group Category | | | Health and Fitness | | |
| Module Code | UHF06 | | | Module Name/Duration | | | Transportation Management | | |
| Credit Details | L | 1 | T | 0 | P | 0 | C | 1 | |
| Objective | <ul style="list-style-type: none"> ❖ To create the awareness about the importance of Road Safety and Transportation Management. ❖ To guide and make the learners to know about the usage of Transport System. | | | | | | | | |
| Expected Outcome | <p>Students will be able to</p> <ul style="list-style-type: none"> ❖ Understand the importance and necessity of transportation usage by following the prescribed rules framed by the Government. | | | | | | | | |
| Teaching Methodology | Indoor | | | | | | | | |
| Syllabus / Components | <p>Unit-I: Road Safety Rules, Activity: Awareness on Road Safety.</p> <p>Unit-II: Procedure of Driving License: Type of Driving License-Age limit-Driving License Code-Requirement for Driving License. Activity: Procedure of Driving License Collection.</p> <p>Unit-III: Transportation Management: Transportation Management System-Definition-Advantages-Purpose-Importance.</p> | | | | | | | | |
| Assessment and Evaluation | <ul style="list-style-type: none"> ❖ Attendance - on attending event/activity ❖ Submission of Driving License /2 wheeler/4 wheeler | | | | | | | | |

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|---------------------------|---|---|---|----------------|---|---|--------------------|---|--|
| Group Number | G1 | | | Group Category | | | Health and Fitness | | |
| Module Code | UHF07 | | | Module Name | | | Value Education | | |
| Credit Details | L | 1 | T | 0 | P | 0 | C | 1 | |
| Objective | <ul style="list-style-type: none"> ❖ To familiarize value and ethics in education. ❖ To make the students aware of various types of values. ❖ To understand the value in global scenario. ❖ To impart citizenship values among the students. | | | | | | | | |
| Expected Outcome | <p>Students will be able to</p> <ul style="list-style-type: none"> ❖ Know the meaning of human values. ❖ Aware about human rights and its importance. ❖ Build their self values. | | | | | | | | |
| Teaching Methodology | Indoor | | | | | | | | |
| Syllabus / Components | <p>Unit-I : Concept of Human Values Meaning of Value-Need and purpose of Value Education and its types, Self Discipline, Self initiative, Role of family. Activity: Motivational Videos.</p> <p>Unit-II: Value Education towards human development: Human values, Personal development, ways to improve personality, A method to develop spirituality. Activity: Service to Orphanage, old age human home, Government Hospital.</p> <p>Unit-III: Personal Ethics Building on Ethical Policy-Social justice. The principles of integrity-Universal declaration and clarification of human rights. Activity: Awareness by Lawyer.</p> | | | | | | | | |
| Assessment and Evaluation | <ul style="list-style-type: none"> ❖ Attendance: on attending event/activity ❖ Video clippings/Short film/report about visit/service. | | | | | | | | |

Group 2

| | | | | | | | | |
|----------------------------|---|---|----------------|---|---|----------------------------|---|---|
| Group Number | G2 | | Group Category | | | Service to Society Level 1 | | |
| Module Code | USS01 | | Module Name | | | National Service Scheme | | |
| Credit Details | L | 0 | T | 0 | P | 1 | C | 1 |
| Objective | <ul style="list-style-type: none"> ❖ Understand the community in which they work and understand themselves in relation to their community. ❖ Identify the needs and problems of the community and involve them in problem solving. ❖ Promote among NSS volunteers in a sense of social and civic responsibility. | | | | | | | |
| Expected Outcome | <p>Students will be able to</p> <ul style="list-style-type: none"> ❖ Understanding the needs and problems of the society. ❖ Develop civic and social responsibility. ❖ Acquire leadership quality and democratic attitude | | | | | | | |
| Teaching Methodology | Indoor & Outdoor | | | | | | | |
| Syllabus/Components | <p>Part -1: Blood donation and Extension activities.</p> <p>Part -2: Tree plantation and visit to old age / orphanage home.</p> <p>Part -3: Cleaning campaign.</p> | | | | | | | |
| Assessments and Evaluation | <p>Participation Certificate in</p> <ul style="list-style-type: none"> • Blood Donation • Cleaning campaign. • NSS camp. | | | | | | | |

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|---------------------------|---|---|----------------|---|---|---------------------------|---|---|
| Group Number | G2 | | Group Category | | | Service to Society Level1 | | |
| Module Code | USS02 | | Module Name | | | YRC | | |
| Credit Details | L | 1 | T | 0 | P | 0 | C | 1 |
| Objective | <ul style="list-style-type: none"> ❖ To create an awareness on the care of Health. ❖ To encourage the students to Extend their Humanitarian services to the society. ❖ To offer First aid Training to all the volunteers. ❖ To disseminate the seven fundamental principles of Red cross Red crescent movement through activity that encourage the Red cross ideal. | | | | | | | |
| Expected Outcome | <p>Students will be able to</p> <ul style="list-style-type: none"> ❖ Promote the life style and health through training and education on safety and primary health care. ❖ Encourage the community service through training and education. ❖ Promote the international friendship with activities that cultivate the humanitarian sprit. ❖ Develop the youth programs, fund - raising and identification of resources for the youth. | | | | | | | |
| Teaching Methodology | Outdoor | | | | | | | |
| Syllabus/Components | <p>Expert Talk – 1(Guest lecture)</p> <ul style="list-style-type: none"> ❖ History of Red Cross society and celebration of Red Cross related activities. ❖ Orientation program about YRC for newly admitted students. <p>Expert Talk – 2(Guest lecture)</p> <ul style="list-style-type: none"> ❖ HIV / AIDS / Corona awareness program. ❖ Blood donation camp. ❖ Blood Grouping and hemoglobin estimation ❖ First aid, Fire and Safety Training ❖ Blood donation awareness rally ❖ Road safety rally. | | | | | | | |
| Assessment and Evaluation | Attendance Minimum -75% (While attending Event) | | | | | | | |

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|----------------------------|---|---|----------------|---|---|----------------------------|---|---|
| Group Number | G2 | | Group Category | | | Service to Society Level-1 | | |
| Module Code | USS03 | | Module Name | | | RRC | | |
| Credit Details | L | 1 | T | 0 | P | 0 | C | 1 |
| Objective | <ul style="list-style-type: none"> ❖ To prepare youth as peer educators /Agents of change both among youth as well as society at large by developing their skills on leadership, advocacy, communication and team buildings. ❖ To serve as forums for students to participate in the fight against HIV/AIDS. | | | | | | | |
| Expected Outcome | <p>Students will be able to</p> <ul style="list-style-type: none"> ❖ Promote the voluntary non – remunerated Blood donation among youth. ❖ Impart the skills among youth on self protection, negotiation and effective group interaction. | | | | | | | |
| Teaching Methodology | Indoor & Outdoor | | | | | | | |
| Syllabus/Components | <ul style="list-style-type: none"> ❖ Peer education and leadership training to the RRC volunteers ❖ College and university/ Directorate level completions like oratorical, drawing, quiz etc. ❖ HIV / AIDS Awareness Campaigns (rally & outreach Activity). ❖ Expert Talk - HIV / AIDS Awareness. | | | | | | | |
| Assessments and Evaluation | <p>Attendance Minimum – 75%</p> <p>Outdoor - Certificate of Participation (Any Three)</p> | | | | | | | |

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|----------------------------|---|---|----------------|---|---|----------------------------|---|---|
| Group Number | G2 | | Group Category | | | Service to Society Level-1 | | |
| Module Code | USS004 | | Module Name | | | ENERGY CLUB | | |
| Credit Details | L | 1 | T | 0 | P | 0 | C | 1 |
| Objective | <ul style="list-style-type: none"> ❖ To promote energy efficiency and energy conservation and to develop new sources of energy. ❖ To provide students a stage to study about the energy industry and employment opportunities in renewable energy sectors. ❖ To prepare the students with awareness and skill so that they may become successful professionals and leaders in the energy industry. | | | | | | | |
| Expected Outcome | <p>Students will be able to</p> <ul style="list-style-type: none"> ❖ construct a sense of responsibility towards energy resources. ❖ develop positive attitude towards energy saving. ❖ build up the practical knowledge on implementation of energy sources. | | | | | | | |
| Teaching Methodology | Indoor & Outdoor | | | | | | | |
| Syllabus/Components | <p>Unit I: Sources of energy-Conventional Vs Non-Conventional – Types- Advantages-Power Stations of Tamilnadu-Demand-Load-Losses</p> <p>Unit II: Home automation-SCADA-Advantages</p> <p>Unit III: Energy Auditing-Calculation of Electricity bill-Conservation of Energy- Light load Vs Power Load-Filament Vs CFL Lights</p> | | | | | | | |
| Assessments and Evaluation | <ul style="list-style-type: none"> ❖ Attending one week Program / Short Term Course in Energy related events ❖ Participation in Energy Conservation measures-Proof to be attached ❖ Holding B (or) C - Certificate ❖ Enrollment in any of organizations related to Energy Environment / Submission of participation certificate | | | | | | | |

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| Group Number | G2 | | Group Category | | | Service to Society Level 1 | | |
| Module Code | USS05 | | Module Name | | | WATER CLUB | | |
| Credit Details | L | 1 | T | 0 | P | 0 | C | 1 |
| Objective | <ul style="list-style-type: none"> ❖ To reduce loss of water by its running- off. ❖ To make students should understand the importance of rain water harvesting and water management. ❖ To help students to indulge in conservation of ground and surface water. ❖ To reduce volume of sludge to stabilize organic solids and to recover resources. | | | | | | | |
| Expected Outcome | <p>Students will be able to</p> <ul style="list-style-type: none"> ❖ Describe the processes of and importance of groundwater flow and aquifer systems. ❖ Describe the challenges of maintaining surface and ground water quality. ❖ Analyze, interpret, and report on laboratory and field findings using appropriate statistical techniques. | | | | | | | |
| Teaching Methodology | Indoor & Outdoor | | | | | | | |
| Syllabus/Components | <p>Unit-1: Rainwater harvesting Introduction of rain water harvesting system – types - process of collecting, conveying and storing water from rainfall in an area – for beneficial use - case study.</p> <p>Unit -2 : Groundwater recharge Ground water utilization and historical background - ground water in hydrologic cycle, ground water budget - ground water level fluctuation - concept and method of artificial ground water- - tree plantation - methods of tree management.</p> <p>Unit -3 : Water pollution and groundwater quality Municipal / Industrial / Agricultural Miscellaneous – Sources and causes of pollution – underground distribution – potential evaluation and prevention methods of pollution- ground water quality – ground water salinity.</p> | | | | | | | |
| Assessments and Evaluation | <ul style="list-style-type: none"> ❖ Attending one week Program / Short Term Course in water related events ❖ Participation in water Conservation measures-Proof to be attached ❖ Enrollment in any of organizations related to water departments / Submission of participation certificate | | | | | | | |

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| Group Number | G2 | | | Group Category | | | Service to Society Level-1 | | |
| Module Code | USS06 | | | Module Name | | | ECO CLUB | | |
| Credit Details | L | 1 | T | 0 | P | 0 | C | 1 | |
| Objective | <ul style="list-style-type: none"> ❖ To preserve the natural resources and the natural environment. ❖ To construct Eco friendly environment and build awareness of biodiversity conservation and local environmental issues. ❖ To create a clean and green consciousness among students through various innovative methods. | | | | | | | | |
| Expected Outcome | <p>Students will be able to</p> <ul style="list-style-type: none"> ❖ Imbibe respect and care for our surrounding and environment. ❖ Build up green consciousness of environment preservation. ❖ Demonstrate the use of eco-friendly practices. ❖ Develop key life skills viz. problem solving, critical and creative thinking etc. as they engage in resolving local environmental problems. | | | | | | | | |
| Teaching Methodology | Indoor & Outdoor | | | | | | | | |
| Syllabus/Components | <ul style="list-style-type: none"> ❖ Seminars and special lectures on environmental issues in the institution. ❖ Conduct environmental activities (V.care, poster presentation, debate, model making and short film) and case study. ❖ Campaign against banned carry bags, recycling of glass and metals, filling of water body in the adjacent area, etc., ❖ Action based activities like tree plantation, cleanliness drives both within and outside the College campus. | | | | | | | | |
| Assessments and Evaluation | <ul style="list-style-type: none"> ❖ Attendance Minimum-75% ❖ Certificate of participation (minimum four activities). ❖ Enrollment in any of organizations related to Environment/ Submission of participation certificate. | | | | | | | | |

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| Group Number | G2 | Group Category | | | | | Service to Society Level-1 | | |
| Module Code | USS07 | Module Name | | | | | E-Club | | |
| Credit Details | L | 1 | T | 0 | P | 0 | C | 1 | |
| Objective | <ul style="list-style-type: none"> ❖ To enable the learner to communicate effectively and appropriately in real life situation. ❖ To develop and integrate the use of language skills i.e., reading, listening, speaking and writing. ❖ To promote their intellectual, personal and professional abilities. | | | | | | | | |
| Expected Outcome | <p>Students should be able to</p> <ul style="list-style-type: none"> ❖ Speak fluently in everyday situations. ❖ Learn English pronunciation and spoken English. ❖ Learn Chunks of phrases, linking verbs and extensive vocabulary. | | | | | | | | |
| Teaching Methodology | Indoor | | | | | | | | |
| Syllabus/Components | <ul style="list-style-type: none"> ❖ Basics of storytelling (1 hrs) ❖ Group Discussion (3hrs) ❖ Listening of Significant Lectures(2hrs) ❖ Listening to eminent speakers (2 hrs) ❖ Casual conversation between a couple of people(2 hrs) ❖ Reciting a Poem (2hrs) | | | | | | | | |
| Assessments and Evaluation | <ul style="list-style-type: none"> ❖ Attendance Minimum – 75% ❖ Seminar (20)+ Poem(20) +GD(10) ❖ GD- Proof (video / Short film) | | | | | | | | |

Group 3

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|---------------------------|---|---|---|----------------|---|---|------------------------|---|--|
| Group Number | G3 | | | Group Category | | | Skill Course Level - 1 | | |
| Module Code | USC01 | | | Module Name | | | MS-Office | | |
| Credit Details | L | 1 | T | 0 | P | 0 | C | 1 | |
| Objective | <p>Students who have completed a course in MS-Office will be able to:</p> <ul style="list-style-type: none"> ❖ To provide in-depth understanding of why MS-Office are essential components in business, education and society. ❖ To provide hands-on use of MS-Office applications. ❖ To provide helps simply basic office tasks and improves productivity. Each application provides foundational or computer literacy curriculum that prepares students for life-long learning of computer concepts and skills. ❖ To educate MS-Office system, internet operations, online, offline working areas. | | | | | | | | |
| Expected Outcomes | <p>Upon successful completion of this module, The learners will be able to:</p> <ul style="list-style-type: none"> ❖ Describe the usage of MS-Office and why computers are important components in business and society. ❖ Utilize the internet web resources and evaluate on-line E-Business system. ❖ Solve common business problems using appropriate information technology applications and systems. ❖ Inhibit improved understanding of computer operations. ❖ Have learning skills & knowledge to work on simple project laid on tent and numerical data. ❖ Gain practical exposure on spread sheet. ❖ Have experience on notepad & paint and practical skill on PowerPoint presentation. | | | | | | | | |
| Teaching Methodology | Indoor / Outdoor | | | | | | | | |
| Syllabus / Components | <p>Unit-I : Basics of MS-Word: Word processing :Typing-Editing, Proofing& Reviewing -Forming text , Paragraphs& Equations-Automatic Formatting and styles-Working with tables, Graphics, Frames & Image grouping-Printing Documents.</p> <p>Unit-II :Basics of MS-Excel: Excel spreadsheet: working & editing in workbooks-Creating formats & links-Formatting a worksheet & creating graphic objects-Creating charts (Graphs)-Formatting and analyzing(Data management)-Sharing & importing data Printing-Calculations using SUM , AVERAGE , MIN , MAX , COUNT , PMT , PV, NPV functions-Calculating total, difference, product, average, and percentage using adjacent and non-adjacent cell values. Presenting summary data using bar diagrams.</p> <p>Unit-III. Basics of MS-PowerPoint Presenting: PowerPoint presentation :Getting started in PowerPoint-Creating a presentation-Creating and editing slides-Previewing a slide show</p> <p>Adding picture and graph-Adding sound and video-Adding auto shape-Animating objects-Designing and preparing a PowerPoint presentation on the given topic-Making the presentation to the classes</p> | | | | | | | | |
| Assessment and Evaluation | <ul style="list-style-type: none"> ❖ Attendance: Minimum – 75%. ❖ Certificate for participation from CSC/Reputed organization. | | | | | | | | |

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| Group Number | G3 | | | Group Category | | | Skill Course Level - 1 | |
| Module Code | USC02 | | | Module Name | | | Computer Installing & Troubleshooting | |
| Credit Details | L | 1 | T | 0 | P | 0 | C | 1 |
| Objective | <ul style="list-style-type: none"> ❖ Introduce students to the installation, configuration and upgrading of computer systems. ❖ Provide students with opportunities to develop basic troubleshooting techniques with respect the hardware of a computer system. | | | | | | | |
| Expected Outcome | <p>Upon successful completion of this module</p> <ul style="list-style-type: none"> ❖ Explain how a PC works and understand the functions of hardware and software. ❖ Understand diagnostic procedures and troubleshooting techniques to personal computers, portable devices, operating systems and computer peripherals. | | | | | | | |
| Teaching Methodology | <ul style="list-style-type: none"> ❖ Indoor | | | | | | | |
| Syllabus / Components | <p>Unit-I :OS Installation Introduction to computer hardware components mother boards – CPU-Variou ports-Slots- Add-on cards –Protection-Safety devices- Storages –Mother board setup-Hard disk setup-CMOS.(Training on handling of components)-Anti virus installation.</p> <p>Unit-II: Introduction to PC Switch mode power supply block diagram - Working principles – Testing – Troubleshooting - Internal components of identification- Memory module. Interconnections between devices-CMOS setup- Drive installation (Hands on session).</p> <p>Unit-III: Troubleshooting Troubleshooting of various hardware problems –SMPS failure – Missing OS- Reinstalling of user software-CD ROM-DVD Lens cleaning replacement- Battery replacement on motherboard .In case BIOS is not run-ins (training on safety measure for handling system parts)</p> | | | | | | | |
| Assessment and Evaluation | <ul style="list-style-type: none"> ❖ Submission of any STC on trouble shooting of PC from any of the computer organization CSC/Institution. ❖ Video mode /OS installation for their own system. ❖ Antivirus and Software Installation for their own Laboratory. | | | | | | | |

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| Group Number | G3 | | | Group Category | Skill Course Level - 1 | | | |
| Module Code | USC03 | | | Module Name | Electrical Wiring Basic Repair of House Appliance | | | |
| Credit Details | L | 0 | T | 0 | P | 1 | C | 1 |
| Objective | <ul style="list-style-type: none"> ❖ To promote the usage of key elements of Electrical and Electronic Home appliance. ❖ To provide Basic Safety Practices. | | | | | | | |
| Expected Outcome | <p>Upon successful completion of this module the learners will able to</p> <ul style="list-style-type: none"> ❖ Repair and Maintenance of the basic electrical Appliance. ❖ Identify possible trouble shooting. | | | | | | | |
| Teaching Methodology | Indoor | | | | | | | |
| Syllabus / Components | <p>Unit-I: Repair of House hold Gadgets Practice-Replacement of conventional switches, MCB, fan- capacitor, regulator and lighting points i.e. holder, choke, starters, water coolers assembly and trouble shooting.</p> <p>Unit-II: Basic Appliances Practice-Maintenance of electrical equipments like-iron, toaster, induction-plate & cookers, battery.</p> <p>Unit-III: Wiring Domestic Wiring-Layout-Wiring types-Earthing.</p> | | | | | | | |
| Assessment and Evaluation | <ul style="list-style-type: none"> ❖ Attendance: on attending event/activity ❖ Submission of video clips/report (Tube Light, Chewing, AC Cleaning, Bread bond correction for basic Electric Circuits of Home Appliance). ❖ Submission of B & C Certificate/ or from Electrical Contractor. | | | | | | | |

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| Group Number | G3 | | | Group Category | Skill Course Level - 1 | | | |
| Module Code | USC04 | | | Module Name | Basic of Google Domain | | | |
| Credit Details | L | 0 | T | 0 | P | 1 | C | 1 |
| Objective | <ul style="list-style-type: none"> ❖ To utilize the Google domain for online learning. ❖ To understand the resources available for online education. | | | | | | | |
| Expected Outcome | <p>Upon successful completion of this module the learners will able to</p> <ul style="list-style-type: none"> ❖ Implementation of virtual learning with Google domain resources. | | | | | | | |
| Teaching Methodology | <ul style="list-style-type: none"> ❖ Outdoor | | | | | | | |
| Syllabus / Components | <p>Unit I : Basic of Google Domain G suite introduction-Google account-fundamentals of Google class room-Importance of Google Drive.</p> <p>Unit II: Google Domain creation Google form-Google Sheet-Google Slides- Google Calendar-Google Handouts- Google meet.</p> <p>Unit III : Practice on Google domain Create Google sheet for collecting students details. Submission of assignment using Google slides. Create e-quiz Google form& Creation of online certificates. Effect of utilization of Google class room. Program schedule formation using Google calendar. Any analysis report using Google suite. Organizing virtual program using Google meet.</p> | | | | | | | |
| Assessment and Evaluation | <ul style="list-style-type: none"> ❖ Attendance: on attending event/activity ❖ Submission of online certificate for attending e-quiz and any other online activity. ❖ Creation of Google Sheet/Equivalent. | | | | | | | |

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| Group Number | G3 | | | Group Category | | Skill Course Level - 1 | | |
| Module Code | USC05 | | | Module Name | | Desktop Publishing (DTP) | | |
| Credit Details | L | 1 | T | 0 | P | 0 | C | 1 |
| Objective | <p>Students who have completed a module in DTP will able to :</p> <ul style="list-style-type: none"> ❖ Establish correct posture and fingering at the keyboard and to improve keyboard memorization. ❖ Learn to control and manipulate all aspects of the keyboard, including letters, figures, symbols and all special manipulative parts. ❖ Develop good touch stroking techniques, quick responses in reading, steady and rhythmic motions with continuity at the keyboard to ensure a steady flow of work. | | | | | | | |
| Expected Outcome | <p>Upon successful completion of this module the learners will able to</p> <ul style="list-style-type: none"> ❖ Develop good proofreading abilities, detect all errors and acquire a critical attitude towards spelling, punctuation, syllabification and syntax. | | | | | | | |
| Teaching Methodology | Outdoor | | | | | | | |
| Syllabus / Components | <p>Unit – I: Type Writing-Various kinds of Typewriters based on the make, the Type, the Size, the Language etc. Manual Typewriter, Electric Typewriter, Electronic Typewriter, Word Processor.</p> <p>Unit – II: System of Typing, Touch System and Sight System, their Advantages and disadvantages, Arrange the Materials for Typing and end of the class procedure correct Typing Procedure, operative various parts of Typewriter and their uses.</p> <p>Unit – III: Manipulative Control, Margin Steps, Paper Guide, Paper Release , Line Space Gauge, Cylinder knobs, shift key, space bar etc. insertion and removal of paper in/out of machine.</p> | | | | | | | |
| Assessment and Evaluation | <ul style="list-style-type: none"> ❖ Completion of Writing /Publishing work. ❖ Submission of Lower Grade Typewriting Both / English / Tamil. | | | | | | | |

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| Group Number | G3 | | | Group Category | | Skill Course Level - 1 | | |
| Module Code | USC06 | | | Module Name | | Digital Photography/Music | | |
| Credit Details | L | 1 | T | 0 | P | 0 | C | 1 |
| Objective | <ul style="list-style-type: none"> ❖ To train how to operate a modern digital camera. ❖ To make learners to undergo short term online courses regarding digital photography and music. ❖ To make the students to explore the content to participate from various social media sources. | | | | | | | |
| Expected Outcome | <p>Upon successful completion of this module the learners will able to</p> <ul style="list-style-type: none"> ❖ Create Short Film on their own. ❖ Students will get exposure related to photography and its usage. | | | | | | | |
| Teaching Methodology | Outdoor | | | | | | | |
| Syllabus / Components | <p>Unit – I: Basic Photography History of photography-early experiments and later developments-Films cameras and processing –Different parts of camera-Aperture function, Shutters functions, Focusing Spot matrix, color filtration-different kinds-photographic light sources-Natural and Artificial</p> <p>Unit – II: Digital Images Sensors-light-room, photo shop –photo tools-photo correction-photographing head-shots 1/4, 1/2, 3/4.Closeup: accessories and techniques.</p> <p>Unit – III: Depth of Field Exercises Photographing a subject with different lenses-preparing full and ¼ portraits under different lighting conditions-photograph, use of bounce and reflected lights-group photos and arrangements-use of colour filter-lighting and effects-selection of shots.</p> | | | | | | | |
| Assessment and Evaluation | <ul style="list-style-type: none"> ❖ Make Students to identify and Participate the contest.(Indoor/Outdoor Programs) ❖ Have to complete NPTEL course on Digital Photography and to complete short term Diploma course in Music to obtain the credit points of the subject. ❖ Motivate them to participate in contest related to music and photography. ❖ Attendance: on attending event/activity <p>Outdoor –Certificate Participation</p> <ul style="list-style-type: none"> ❖ In any of the Photographic Contest. ❖ Certificate of Participation from any of the club. ❖ Short Film/Video clipping. | | | | | | | |

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| Group Number | G3 | | | Group Category | | | Skill Course Level - 1 | | |
| Module Code | USC07 | | | Module Name | | | TALLY | | |
| Credit Details | L | 1 | T | 0 | P | 0 | C | 1 | |
| Objective | <ul style="list-style-type: none"> ❖ To learn basics of accountancy, its principles, concepts, conventions, recording procedures, bank reconciliation, final accounts etc. ❖ To learn and practice computerized accounting systems using tally ERP.9 | | | | | | | | |
| Expected Outcome | <p>Upon successful completion of this module</p> <ul style="list-style-type: none"> ❖ Students will learn to create company, enter accounting voucher entries, do reconcile bank statement and also print include financial statement, etc. ❖ Students do possess required skill and can also be employed as tally data entry operator. ❖ Students to handle financial and inventory management, invoicing, sales and purchase management, reporting and MIS. ❖ Students can immediately retrieve all the billing related files. | | | | | | | | |
| Teaching Methodology | Indoor | | | | | | | | |
| Syllabus / Components | <p>Unit-I :Tally & voucher creation Create, alter, and delete groups. Manage groups in multiple companies-Types of voucher-Voucher creation. Activity: Submit the output of voucher creation</p> <p>Unit-II :Ledger creation & posting journal entries Meaning of general ledger and process-Classification of general ledger, Benefits of general ledger-Control accounts Activity: Submit the output of ledger creation.</p> <p>Unit-III: Generating profit and loss account and balance sheet Meaning of profit and loss account, Objective of profit and loss account, Components of profit and loss account, Trading account, Balance sheet, classification of asset and liabilities, Characteristics of balance sheet. Activity : Submit the output of P&L, BS</p> | | | | | | | | |
| Assessment and Evaluation | <ul style="list-style-type: none"> ❖ Submission of monthly expense balance sheet for family/individual (Past 1 year). ❖ Produce the certificate (Completion of tally course in any computer institute). | | | | | | | | |

Group 4

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|---------------------------|---|---|----------------|---|---|---------------------------------|---|---|
| Group Number | G4 | | Group Category | | | Social Course | | |
| Module Code | USL01 | | Module Name | | | Indian Constitution and Finance | | |
| Credit Details | L | 2 | T | 0 | P | 0 | C | 2 |
| Objective | <ul style="list-style-type: none"> ❖ To give students an overview of Indian society and its Multicultural diversity. ❖ To familiarize students with Indian constitution and its basic Constituents. ❖ To make students aware about political system in India ❖ To know the major functions of financial markets institutions, Instruments and services. | | | | | | | |
| Expected Outcome | <p>Upon completion, Students should be able to</p> <ul style="list-style-type: none"> ❖ Work as contributing members of a team in any area of financial services sector ❖ Understand the development of financial system ❖ Apply the theory in real business scenarios ❖ Understand the history, school of thoughts and evolution of banks and insurance sectors. | | | | | | | |
| Teaching Methodology | Indoor | | | | | | | |
| Syllabus/Components | <p>Unit-1: The Indian constitution – 8hrs Constituent assembly – Composition of constituent assembly – Functions of constituent assembly – various committees of the constituent assembly – Enforcement of the constitution - structure of the constitution- The preamble.</p> <p>Unit-2: Significant aspects of political processes - 8hrs The party system in Indian politics- Local self- government in urban and rural areas – 73rd and 74th amendments – role and significant of women in politics – Recent developments in the subject</p> <p>Unit-3: Financial system , financial markets and service sector - 8hrs An introduction – functions – evolution – financial system in india compared with Those in developed nations and developing nations – money markets – types of financial instruments.</p> | | | | | | | |
| Assessment and Evaluation | <p>Attendance Minimum -75%</p> <p>Assignment :2 Seminar Related to Indian constitution / Finance</p> <p>Assessment :</p> <p>Debate on current political scenario / state /central annual budget</p> <p>Certificate from judicial officer (Training- minimum two days)</p> <p>Evaluation : Assignment (20) + Assessment (30)</p> | | | | | | | |

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|---------------------------|--|---|---|----------------|---|---|---------------------------------------|---|--|
| Group Number | G4 | | | Group Category | | | Social Course | | |
| Module Code | USL02 | | | Module Name | | | Essence of Indian knowledge tradition | | |
| Credit Details | L | 2 | T | 0 | P | 0 | C | 2 | |
| Objective | <ul style="list-style-type: none"> ❖ To facilitate the students with the concepts of Indian traditional knowledge and understand the importance of routes of knowledge system. ❖ To understand and analyze the traditional knowledge and apply it to their day to day life. | | | | | | | | |
| Expected Outcome | <p>Upon completion, Students should be able to</p> <ul style="list-style-type: none"> ❖ Understand the concept of traditional knowledge and its importance. ❖ Know the need and importance of protecting traditional knowledge. ❖ Understand the concept of intellectual property to protect the traditional knowledge. ❖ Understand the importance of traditional knowledge in agriculture and medicine. | | | | | | | | |
| Teaching Methodology | Indoor | | | | | | | | |
| Syllabus/Components | <p>Unit-1: Introduction to traditional knowledge- 8hrs Definition – Nature and characteristics scope and importance – kinds of traditional knowledge – modern science and Indian knowledge system.</p> <p>Unit-2:Protection of Traditional knowledge – 4hrs Need for protecting – significance of TK protection- value of TK in global Economy – roll of government to harness TK.</p> <p>Unit-3:Traditional knowledge and intellectual property- 4hrs Systems of traditional knowledge protection – Pattern and traditional knowledge – strategies to increase protection of traditional knowledge Unit-4 : Traditional knowledge in different sectors – 8hrs Traditional medicine system – TK in agriculture – Traditional society Depend on it for their food and health care Needs – importance of conservation and sustainable development of environment – traditional knowledge and engineering (case study).</p> | | | | | | | | |
| Assessment and Evaluation | <p>Attendance Minimum -75%</p> <p>Activity 1 : Visit to culture oriented places / poetry competition in mother tongue</p> <p>Activity 2: Speech competition / Traditional sales fest</p> <p>Evaluation : Submission of Report / certificate of participation in above activities.(activity1-30 marks + activity2- 20 marks)</p> | | | | | | | | |

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| Group Number | G4 | | Group Category | | | Social Course | | |
| Module Code | USL03 | | Module Name | | | Environment Protection | | |
| Credit Details | L | 2 | T | 0 | P | 0 | C | 2 |
| Objectives | <ul style="list-style-type: none"> ❖ To create awareness on environmental issues ❖ To know the control measures for environmental protection ❖ To conserve natural resources & the existing natural environment, where possible, to repair damage & reverse trends. | | | | | | | |
| Expected Outcome | <ul style="list-style-type: none"> ❖ An environmental study major will be able to recognize the physical, chemical and biological components of the earth's systems & show how they function. ❖ An environmental study major will be able to do independent research on human interactions with the environment. | | | | | | | |
| Teaching Methodology | Indoor | | | | | | | |
| Syllabus/Components | <p>Unit - I: Introduction Definition, scope and importance of Environmental Studies-Need for public awareness. Renewable and Non-renewable Resources:</p> <p>Unit - II: Natural Resources Forest resources: Use and over-exploitation, deforestation, case studies. Water resources: Use and over-utilization of surface and ground water. Water borne diseases & water induced diseases -Fluoride problem in drinking water.</p> <p>Unit - III: Alternative Resources Green Building Relevance for environmental protection, building materials and their environmental impact, green building and energy saving, buildings as part of the city ,Urban Sustainability Environmental problems at the city level, the city as an ecosystem, sustainability potential, urban metabolism, urban footprint, Case studies. Role of an individual in conservation of natural resources.</p> | | | | | | | |
| Assessments and Evaluation | <ul style="list-style-type: none"> ❖ Attendance Minimum:75% <p>Assessment:</p> <ul style="list-style-type: none"> ❖ Planting saplings around their area ❖ Short film related to importance of environment protection. ❖ Cleaning activities <p>Evaluation:</p> <ul style="list-style-type: none"> ❖ Submission of certificates from their panchayat representative for involving in environmental protection activities. ❖ Craft work from bio – degradable objects ❖ Craft work from imperishable objects | | | | | | | |

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|----------------------------|--|---|----------------|---|---|------------------------|---|---|
| Group Number | G4 | | Group Category | | | Social Course | | |
| Module Code | USL04 | | Module Name | | | Universal Human values | | |
| Credit Details | L | 2 | T | 0 | P | 0 | C | 2 |
| Objective | <ul style="list-style-type: none"> ❖ To assist students in understanding the differences between values and skills , and in understanding the need, basic guidelines, content and the process of value education. ❖ To help students understand harmony at all the levels of human living and to lead an ethical life. ❖ To sensitize the student towards self, family, society and nature. | | | | | | | |
| Expected Outcome | <ul style="list-style-type: none"> ❖ Distinguish between values and skills happiness and accumulation of physical facilities, the self and the body, intention and competence of an individual. ❖ Understanding the role of human being in ensuring harmony in society and nature. | | | | | | | |
| Teaching Methodology | Indoor | | | | | | | |
| Syllabus/Components | <p>Unit-I: HUMAN VALUES Morals, Values and Ethics – Integrity – Work Ethic – Honesty – Courage –Empathy – Self-Confidence – Character</p> <p>Unit-II : PROFESSIONAL HUMAN VALUES Value based life and profession – professional ethics and write understanding – Competence in professional ethics- issues on personal ethics – current scenario – vision for holistic technologies – production system and management models</p> <p>Unit-III: GLOBAL ISSUES Multinational corporations - Environmental ethics - computer ethics - weapons development - engineers as managers-consulting engineers-engineers as expert witnesses and advisors -moral leadership</p> | | | | | | | |
| Assessments and Evaluation | <ul style="list-style-type: none"> ❖ Attendance Minimum:75% ❖ Certificate Self confidence during their stage performance Awareness program (human values) Video or moral drama(get permission from any panchayat, performing moral activity and evidence submission | | | | | | | |

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| Group Number | G4 | | | Group Category | | | Social Course | | |
| Module Code | USL05 | | | Module Name | | | Ethics in Engineering | | |
| Credit Details | L | 2 | T | 0 | P | 0 | C | 2 | |
| Objective | <ul style="list-style-type: none"> ❖ To enable the students to create an awareness on engineering ethics and human values. ❖ To resolve the moral issues in the profession. ❖ To judge the global issues by presenting an optimum solution. | | | | | | | | |
| Expected Outcome | <p>Upon completion of the course the students should be able to</p> <ul style="list-style-type: none"> ❖ Understand the core value that shape the ethical behavior of an engineer and expected awareness on professional ethics and human values. ❖ Discuss the ethical issues related to engineering and realize the responsibilities and rights in the society. | | | | | | | | |
| Teaching Methodology | Indoor | | | | | | | | |
| Syllabus/Components | <p>Unit- I : Introduction of Engineering ethics Scope of engineering ethics – human values – moral values – ethics integrity – honesty – work ethics-civic virtue- peace full living – service learning – valuing time and empathy – spirituality –cooperation and commitment- engineering as a social experiment.</p> <p>Unit- II : Safety and responsibility as an Engineers Safety and risk – assessment of safety and risk – risk benefit analysis and reducing risk – road, rail ,air and fire safety – electrical and industrial safety</p> <p>Unit- III: Social rights of Engineering ethics Global issues and laws – sources – respect for the authority- collective bargaining – confidentiality conflicts of interest - Occupational crime – professional rights – employee rights – plagiarisms – intellectual property rights – discrimination – multinational corporation.</p> | | | | | | | | |
| Assessments and Evaluation | <ul style="list-style-type: none"> ❖ Attendance Minimum:75%-15 Marks ❖ Speak about Engineering ethics in their own field – 15 marks ❖ Mime (To create awareness of global issues) – 20 Marks | | | | | | | | |

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| Group Number | G4 | | | Group Category | | | Social Course | | |
| Module Code | USL07 | | | Module Name | | | Emotional Intelligence | | |
| Credit Details | L | 2 | T | 0 | P | 0 | C | 2 | |
| Objective | <ul style="list-style-type: none"> ❖ To improve decision making ❖ To increase leadership ability ❖ To improve self awareness ❖ To reduce stress ❖ To understand how you use emotion to facilitate thought and behavior. | | | | | | | | |
| Expected Outcome | <ul style="list-style-type: none"> ❖ Build more effective relationships with parents at home. ❖ Discover how you can manage your emotions, and positively influence yourself and others. ❖ Expand your knowledge of emotional patterns in yourself and others. | | | | | | | | |
| Teaching Methodology | Indoor | | | | | | | | |
| Syllabus/Components | <p>Unit – I :INTRODUCTION TO EMOTIONAL INTELLIGENCE (EI) Emotional Intelligence and various EI models, The EQ competencies of self-awareness, self-regulation, motivation, empathy, and interpersonal skills.</p> <p>Unit – II :KNOW AND MANAGE YOUR Emotions, The different levels of emotional awareness, Increase your emotional knowledge of yourself, Recognize ‘_negative’ and ‘_positive’ emotions.</p> <p>Unit – III :RECOGNIZE EMOTIONS IN OTHERS The universality of emotional expression, Learn tools to enhance your ability to recognize and appropriately respond to others' emotions, Perceiving emotions accurately in others to build empathy</p> <p>Unit – IV :RELATE TO OTHERS To create effective relationships with others (Parents, staffs, peers), A case study of low emotional intelligence.</p> | | | | | | | | |
| Assessments and Evaluation | <ul style="list-style-type: none"> ❖ Attendance Minimum:75% - 10 Marks ❖ Self Evaluation – 20 Marks <ol style="list-style-type: none"> 1. Emotional Intelligence Assessment 2. Self improvement plan ❖ EI Speech contest – 20 Marks in below mentioned topics <ol style="list-style-type: none"> 1. Strategies to improve emotional intelligence 2. Behavioral intelligence and working in teams 3. Success through Emotional intelligence 4. Strategies to improve human relations 5. Decision making and professionalism 6. Entrepreneurship and business planning 7. Business and corporate communication skills 8. Branding yourself and digital media | | | | | | | | |

Group 5

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|---------------------------|---|---|----------------|---|---|--------------------------------------|---|---|
| Group Number | G5 | | Group Category | | | Technical Expertise Level-1 | | |
| Module Code | UTE01 | | Module Name | | | Value added course – Domain Specific | | |
| Credit Details | L | 1 | T | 1 | P | 0 | C | 2 |
| Objective | ❖ To give enough exposure to domain specific VAC. | | | | | | | |
| Expected Outcome | ❖ Enhance the Domains skill. | | | | | | | |
| Teaching Methodology | Indoor | | | | | | | |
| Syllabus/Components | <ul style="list-style-type: none"> ❖ Energy conservation , Management and audit ❖ Modeling for Design Engineers. ❖ Interior decoration ❖ Vaasthu and building plan ❖ 3D's MAX ❖ Social Media Marketing ❖ Business plan and Entrepreneurial ventures ❖ Case study- operating system design ❖ Case study – Network design ❖ Electronic circuits making and PCB Design ❖ Data Mining Lab, Multimedia Lab, Visual basic Lab <p>Note: Approved Syllabus is listed in Anna University website In addition to the above topics, relevant to respective department courses may be offered.</p> | | | | | | | |
| Assessment and Evaluation | Certificate of participation from any of reputed institution / online mode / open source mode. | | | | | | | |

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| Group Number | G5 | Group Category | Technical Expertise Level - 1 | | | | | | |
| Module Code | UTE02 | Module Name | Online Course –Domain Relevance | | | | | | |
| Credit Details | | L | 2 | T | 0 | P | 0 | C | 2 |
| Objective | <ul style="list-style-type: none"> To Expose learners to the open source learning platform | | | | | | | | |
| Expected Outcome | <ul style="list-style-type: none"> Improve the domain specific skills | | | | | | | | |
| Teaching Methodology | Outdoor | | | | | | | | |
| Syllabus/Components | <ul style="list-style-type: none"> Online course Awareness Registration of any course-minimum 4 weeks | | | | | | | | |
| Assessment and Evaluation | <ul style="list-style-type: none"> Course Registration Weekly Assignments Submission Online Exam Registration Submission of certificates Participation certificate from institutions /university/ online mode | | | | | | | | |

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| Group Number | G5 | Group Category | | | Technical Expertise Level-I | | | | |
| Module Code | UTE03 | Module Name | | | Online Course- -General | | | | |
| Credit Details | | L | 2 | T | 0 | P | 0 | C | 2 |
| Objective | <ul style="list-style-type: none"> To create awareness, user-accessibility and time flexibility to engage learners in the learning process. To encourage learners to take responsibility for their learning new concepts. | | | | | | | | |
| Expected Outcome | <p>Student will be able to</p> <ul style="list-style-type: none"> To make it clear to the students what they, as learners, are expected to achieve as a result of having successfully completed the course. | | | | | | | | |
| Syllabus/Components | <ul style="list-style-type: none"> Awareness Any course in general-minimum 4 weeks | | | | | | | | |
| Teaching Methodology | Outdoor / Indoor / Both | | | | | | | | |
| Assessment and Evaluation | Certificate of Completion. Certificate Submission(30) + One Page Report on Course Attended(20) | | | | | | | | |

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|---------------------------|---|----------------|-----------------------------|---|---|---|---|---|
| Group Number | G5 | Group Category | Technical Expertise Level-1 | | | | | |
| Module Code | UTE04 | Module Name | Project Contest | | | | | |
| Credit Details | L | 0 | T | 1 | P | 1 | C | 2 |
| Objective | ❖ Developing a better method of design and analysis. | | | | | | | |
| Expected Outcome | ❖ On completion of the project contest students will be able to take up any challenging practical model for better understanding. | | | | | | | |
| Teaching Methodology | Indoor/Outdoor | | | | | | | |
| Syllabus/Components | <ul style="list-style-type: none"> ❖ Project Management Growth: Concepts and Definitions ❖ Project profile and standards, Feedback information ❖ Project organization ❖ Project planning ❖ Project monitoring ❖ Model to be submitted | | | | | | | |
| Assessment and Evaluation | <ul style="list-style-type: none"> ❖ Review – 20Marks ❖ Certificate of participation in project contest – 30Marks | | | | | | | |

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| Group Number | G5 | Group Category | Technical Expertise Level-1 | | | | | |
| Module Code | UTE05 | Module Name | Virtual Lab | | | | | |
| Credit Details | L | 0 | T | 0 | P | 2 | C | 2 |
| Objective | <ul style="list-style-type: none"> ❖ To provide remote-access to Labs in various disciplines of Science and Engineering. These Virtual Labs would cater to students at the undergraduate level, post graduate level as well as to research scholars. ❖ To provide a complete Learning Management System around the Virtual Labs where the students can avail the various tools for learning, including additional web-resources, video-lectures, animated demonstrations and self-evaluation. | | | | | | | |
| Expected Outcome | <ul style="list-style-type: none"> ❖ Modeling the physical phenomenon by a set of equations and carrying out simulations to yield the result of the particular experiment. This can, at-the-best, provide an approximate version of the 'real-world' experiment. ❖ Providing measured data for virtual lab experiments corresponding to the data previously obtained by measurements on an actual system. | | | | | | | |
| Teaching Methodology | Indoor | | | | | | | |
| Syllabus/Components | <p>Experiments will be conducted in the following Platforms</p> <ul style="list-style-type: none"> ❖ IIT's and other sources ❖ Department relevant 5 experiments and their execution to be carried out. | | | | | | | |
| Assessment and Evaluation | <ul style="list-style-type: none"> ❖ Simulated Version of Experiments in the identified source. ❖ Screen shot of Experiments. ❖ Record note to be submitted. | | | | | | | |

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| Group Number | G5 | | | Group Category | | | Technical Expertise Level-1 | | |
| Module Code | UTE06 | | | Module Name | | | Arduino Developer | | |
| Credit Details | L | 1 | T | 0 | P | 1 | C | 2 | |
| Objective | ❖ To promote the development of Internet of Things (IoT) prototypes—including devices for sensing, actuation, processing, and communication—to help you develop skills and experiences using Arduino. | | | | | | | | |
| Expected Outcome | ❖ After the completion of the course, the students will be able to design IOT based prototypes using Arduino. | | | | | | | | |
| Teaching Methodology | Indoor | | | | | | | | |
| Syllabus/Components | <p>Unit 1 : Introduction to IOT Understanding IoT fundamentals - IOT Architecture and protocols - Various Platforms for IoT - Real time Examples of IoT - Overview of IoT components and IoT - Communication Technologies - Challenges in IOT</p> <p>Unit 2 : Arduino Simulation Environment Arduino Uno Architecture - Setup the IDE, Writing Arduino Software - Arduino Libraries - Basics of Embedded C programming for Arduino - Interfacing LED, push button and buzzer with Arduino Interfacing Arduino with LCD</p> <p>Unit 3 : Sensor & Actuators with Arduino Overview of Sensors working - Analog and Digital Sensors - Interfacing of Temperature, Humidity, Motion, Light and Gas Sensor with Arduino - Interfacing of Actuators with Arduino - Interfacing of Relay Switch and Servo Motor with Arduino</p> | | | | | | | | |
| Assessment and Evaluation | ❖ Attendance Minimum – 75% ❖ Model/Program – 30Marks ❖ Certificate of Participation in Workshop/Project Contest/Conference/Short Term Training – 20 Marks | | | | | | | | |

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| Group Number | G5 | Group Category | Technical Expertise Level - 1 | | | | | | |
| Module Code | UTE07 | Module Name | Mobile Repair Technology | | | | | | |
| Credit Details | L | 1 | T | 1 | P | 0 | C | 2 | |
| Objective | ❖ To provide the platform for taking up Mobile handset repairing as a self-employment occupation. | | | | | | | | |
| Expected Outcome | ❖ Diagnose the Problem of all kinds of faults in Mobile Phone handsets in Hardware as well Software and rectify the faults using tools and equipment and various software. | | | | | | | | |
| Teaching Methodology | Both | | | | | | | | |
| Syllabus/Components | Unit - 1: Basic Electronics Basics of mobile communication – Assembling and Disassembling – Tools for mobile repair – parts of mobile phone – Android phone features Unit - 2: Hardware Repair Testing of PCB – Components of PCB – Soldering and desoldering - Battery Unit - 3: Software Repair Study of various faults – removing virus – unlocking of handset – use of various secret codes – Types of software – updation of software – license procedure | | | | | | | | |
| Assessment and Evaluation | ❖ Attendance Minimum 75% ❖ Outdoor – Submission of valid Certificate(20) + Rectification of fault (30) (OR) ❖ Indoor – Rectification of fault (30) + MCQ(20) | | | | | | | | |

Group 6

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| Group Number | G6 | | Group Category | | | Employability Course Level-1 | | |
| Module Code | UES01 | | Module Name | | | Integrated Aptitude Skill Course 1 | | |
| Credit Details | L | 2 | T | 0 | P | 0 | C | 2 |
| Objective | <ul style="list-style-type: none"> ❖ To provide best possible training for the students through continuous training module. ❖ To prepare students for the campus recruitment program. ❖ To enhance the problem solving skills and basic mathematic skills. ❖ To aid the students for the preparation of competitive exam. ❖ To counsel the students to improve their carrier exposure across the industry. ❖ To produce the most competitive man power to fit in all scenario of the job market. . | | | | | | | |
| Expected Outcome | <p>At the end of the module, students will be able to:</p> <ul style="list-style-type: none"> ❖ Understand the basic concepts of QUANTITATIVE ABILITY. ❖ Understand the basic concepts of LOGICAL REASONING skills. | | | | | | | |
| Teaching Methodology | Indoor | | | | | | | |
| Syllabus/Components | <p>Part-1:Quantitative Aptitude</p> <ul style="list-style-type: none"> ❖ Numbers-number systems, types of numbers, series(Arithmetic Progression, Geometric Progression) ❖ Problems on ages- HFC & LCM- profit & loss- problems on train, boats & stream- calendar & clocks- time & work –speed & distance (or)time & distance- decimal fractions, simplification(including expression &evaluation)-square root, cubic root – average – surds & indices -odd man out & series. <p>Part-2: Logical Reasoning: Verbal Reasoning</p> <ul style="list-style-type: none"> ❖ Series completion- analogy- classification- coding & decoding- blood relation- puzzle test- sequential output tracing- direction sense test- logical Venn diagram- alphabet test- alpha-numeric sequence puzzle- number, ranking and time sequence test- mathematical operations- logical sequence of words- arithmetical reasoning- inserting the mission character- data sufficiency- eligibility test- assertions and reasoning- situation reaction test- verification of truth of the statement. | | | | | | | |

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| | <p>Part -3: Verbal Ability</p> <ul style="list-style-type: none"> ❖ Vocabulary based-synonyms, vocabulary based-antonyms, spotting errors, spelling, jumbled words, one word substitution, sentence correction, idioms & phrases, commonly confusing words, statement and conclusion, change of voice, facts/inferences and judgment. <p>Activity</p> <ul style="list-style-type: none"> ❖ Utilization of aptitude related apps ❖ Online aptitude course ❖ Brain games |
| Assessments and Evaluation | <ul style="list-style-type: none"> ❖ Attendance minimum:75%. ❖ Level completion proof submission. ❖ Submission of course completion certificate. ❖ Presentation, involvement ❖ Certificate of Participation if any reputed training Institution |

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| Group Number | G6 | | | Group Category | | | Employability Course Level-1 | | |
| Module Code | UES02 | | | Module Name | | | Soft Skill Certificate Course-1 | | |
| Credit Details | L | 1 | T | 0 | P | 1 | C | 2 | |
| Objective | <ul style="list-style-type: none"> ❖ To inculcate potential skills in the students to prepare them to deal with the external world in a collaborative manner. ❖ To demonstrate a positive work ethic so as to hold a good impression and positive impact. ❖ To bridge the gap between the skill requirements of the employer or industry and the competency of the students. ❖ To improve the communication skills which enrich personality of the students. ❖ To improve the presentation skills. | | | | | | | | |
| Expected Outcome | <ul style="list-style-type: none"> ❖ Understand the significance and essence of a wide range of soft skills. ❖ Learn how to apply soft skills in a wide range of routine social and professional settings. ❖ Learn how to employ soft skills to improve interpersonal relationships, develop time management and stress management. | | | | | | | | |
| Teaching Methodology | Indoor | | | | | | | | |
| Syllabus/Components | <p>Unit I: Introduction Introduction to soft skills – Definition and Significance of soft skills – Measure of soft skills – Beliefs – values – Attitudes – Setting goals – Positivity and Motivation – Positive thinking and Attitude – Driving out Negativity.</p> <p>Unit II: Interpersonal Communication Team Communication – Developing Interpersonal relationships through effective communication – Listening skills and writing skills – Group Discussion – Non-verbal communication – Teamwork and Leadership skills.</p> <p>Unit III: Interview skills Interviewer and Interviewee – Tips for success – Presentation skills – Time management – Personality Development – Etiquette and Manners – stress management – Decision making and Problem solving skills.</p> | | | | | | | | |
| Assessments and Evaluation | <p>Attendance: Minimum 75%</p> <ul style="list-style-type: none"> • Group Discussion, Conversation in general topics • Essay writing , Spell-B Competition, Just a Minute <p>Course Completion Certificate-BEC/From reputed organization, Score card of any competitive exam</p> | | | | | | | | |

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| Group Number | G6 | | Group Category | | | Employability Course Level-1 | | |
| Module Code | UES03 | | Module Name | | | Resume Building | | |
| Credit Details | L | 2 | T | 0 | P | 0 | C | 2 |
| Objective | <ul style="list-style-type: none"> ❖ Understand the requirements and approaches to prepare resumes depending on the culture of the industry. ❖ Be capable of self-presentation in the international labor market with the help of a resume, including strategic language. | | | | | | | |
| Expected Outcome | <ul style="list-style-type: none"> ❖ Identify relevant competencies for a position. ❖ Write powerful and convincing accomplishment statements using their accomplishments inventory to strategically assemble the most relevant evidence of competency for a specific position. ❖ Produce a strong resume in a format that is suitable both to their background and the position they are interested in. ❖ Produce effective follow-up letters that help them stand out from the competition. | | | | | | | |
| Teaching Methodology | Indoor | | | | | | | |
| Syllabus/Components | <ol style="list-style-type: none"> 1. Preparing to Write The Real Purpose of a resume – Focusing the Resume – Identifying Relevant Competencies – Understanding 21st Century Competencies – Gathering Materials to Write – Understanding Applicant tracking Systems. 2. Writing a Persuasive Resume Writing Strong Accomplishment Statements – Using the Resume Skills Tier Method – Writing Summary Sections – Writing Objectives – Finding the Right Words – Using the Resume Dictionary – Sample Resume. 3. Choosing a Resume Format The Most Popular resume Format – Other Popular Resume Formats – Two Special Resume Formats – Other Special Resume Formats – Electronic, Scannable and Internal Resumes – What Should Never Put on a Resume – Writing of Resume. 4. Writing a Charming Cover Letter Powerhouse Cover Letters – Constructing the Letter – Creating a Sense of Urgency – The Follow-Up Letter – Writing of Cover Letter – Sample Cover Letter. | | | | | | | |
| Assessments and Evaluation | Attendance: Minimum 75% Evaluation: Effective Resume (25 Marks)+ Effective Cover Letter (15 Marks) + Certificate of Participation (10 Marks) | | | | | | | |

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| Group Number | G6 | | | Group Category | | | Employability Course Level-1 | | |
| Module Code | UES04 | | | Module Name | | | Project Management | | |
| Credit Details | L | 2 | T | 0 | P | 0 | C | 2 | |
| Objective | <ul style="list-style-type: none"> ❖ To provide productive guidance, efficient communication and apt supervision of the project's team for the execution of projects. ❖ To make them understand the concepts of project management for planning to implementation of projects. ❖ To understand the feasibility analysis in project management and network analysis tools for cost and time estimation. ❖ To grasp the fundamentals of contract administration costing and budgeting. ❖ To analyze, apply and appreciate contemporary project management tools and methodologies. | | | | | | | | |
| Expected Outcome | <ul style="list-style-type: none"> ❖ Recognize project characteristics and various platform at a project. ❖ Know the conceptual clarity about organization and feasibility analysis. ❖ Analyze the techniques for project planning scheduling and execution control. ❖ Apply the risk management plan & analyze the role of stake holders. ❖ Demonstrate the use of network scheduling techniques. ❖ Preparation of project proposal and discuss the implementation of a proposed plan. | | | | | | | | |
| Teaching Methodology | Indoor | | | | | | | | |
| Syllabus/Components | <ul style="list-style-type: none"> ❖ Overview of project management ❖ Project feasibility analysis ❖ Project identification and selection ❖ Project planning ❖ Organizational structural ❖ Resource scheduling, cost estimating ❖ Risk management ❖ Quality management ❖ Project management information ❖ Performance measurement ❖ Execution of control ❖ Project close-out | | | | | | | | |
| Assessment and Evaluation | <ul style="list-style-type: none"> ❖ Attendance Minimum -75% ❖ PPT, case study, project expo, mini-project, seminar. ❖ Events participation/winning certificate should be submitted (project expo) | | | | | | | | |

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| Group Number | G6 | | Group Category | | | Employability Course Level-1 | | |
| Module Code | UES05 | | Module Name | | | In Plant Training | | |
| Credit Details | L | 2 | T | 0 | P | 0 | C | 2 |
| Objective | <ul style="list-style-type: none"> ❖ Expose to actual working environment and enhance their knowledge and skill ❖ Provide practical training and hands on session to students in their desired domain. | | | | | | | |
| Expected Outcome | <p>Students will be able to</p> <ul style="list-style-type: none"> ❖ Develop their skills and get industrial knowledge which will help to understand the actual process happens in industry. ❖ Transform their theoretical knowledge in to a practical work. | | | | | | | |
| Teaching Methodology | Indoor& Outdoor | | | | | | | |
| Syllabus/Components | <ul style="list-style-type: none"> ❖ Importance and benefits of IPT- 2 hours ❖ Organizations provide training beyond software and hardware-2 hours ❖ How to prepare training report- 1 hour. ❖ Training period. <p>List of Industries:</p> <ul style="list-style-type: none"> ❖ Public sector ❖ Safe government undertaking. ❖ Public limited companies. ❖ Private limited companies. ❖ Industrial ownership organization. ❖ Fabrication and manufacturing units. ❖ Power generation units. ❖ Power plants. ❖ Substations. <p>Report Preparation:</p> <ul style="list-style-type: none"> ❖ Cover page ❖ Title page ❖ Certificate by company/ organization/ institute. ❖ Acknowledgement ❖ About the organization ❖ Table of contents ❖ Chapters <ul style="list-style-type: none"> i. Introduction ii. Details of department / areas where training undergone. iii. Skills attained by the training. iv. Conclusion by the student. | | | | | | | |
| Assessments and Evaluation | <ul style="list-style-type: none"> ❖ Students attendance/Temporary ID card- 10 ❖ Participation certificate -20 ❖ Report submission- 20. | | | | | | | |

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| Group Number | G6 | | Group Category | | | Service to Society Level-1 | | |
| Module Code | UES06 | | Module Name | | | English Made Easy | | |
| Credit Details | L | 2 | T | 0 | P | 0 | C | 2 |
| Objective | <ul style="list-style-type: none"> ❖ To integrate English language learning with training for employability skills. ❖ To strengthen the students prospects of success in competitive examinations. ❖ To identify the errors in English. | | | | | | | |
| Expected Outcome | <p>Up on successful completion of this module, Students should be able to :</p> <ul style="list-style-type: none"> ❖ Understand the factors that influence use of grammar and vocabulary in speech and writing. ❖ Understand the use of verb tense and agreement. ❖ Students able to learn the meaning of what is written by studying how language is used in the pictures. ❖ Real life social situations are broken down into their simplest parts, so that students quickly see how the language works and relate if to their own need. | | | | | | | |
| Teaching Methodology | Indoor | | | | | | | |
| Syllabus/Components | <p>Unit-1 Grammar</p> <ul style="list-style-type: none"> ❖ Pronoun, verb, adjective, adverb, preposition, conjunction, transformation of sentences, order of words sentence construction. <p>Unit-2 Vocabulary</p> <ul style="list-style-type: none"> ❖ World of words – world of idioms & phrases – world of foreign words. Fill up the blanks – rapid filters – words denoting sounds – one word for many. <p>Unit-3 Comprehension</p> <ul style="list-style-type: none"> ❖ An introduction – long sentence – practice exercises – sentence arrangement. | | | | | | | |
| Assessments and Evaluation | <ul style="list-style-type: none"> ❖ Attendance Minimum – 75% <p>Certificate of participation/ recorded clipping/audio/video</p> <ul style="list-style-type: none"> ❖ Speech competition ❖ Dialog conversation ❖ Conduct the drama based on English stories. ❖ Debate ❖ BEC certificate ❖ GRE/TOEFL – Score card ❖ Creativity story telling. | | | | | | | |

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| Group Number | G6 | | | Group Category | | | Employability Course Level-1 | | |
| Module Code | UES07 | | | Module Name | | | Maths Made Easy | | |
| Credit Details | L | 1 | T | 0 | P | 0 | C | 2 | |
| Objective | ❖ To improve mathematical skills | | | | | | | | |
| Expected Outcome | At the end of the course, the students will be able to ❖ Reduces the burden of memorizing difficult concepts and remove the fear from mathematical subjects. | | | | | | | | |
| Teaching Methodology | Indoor | | | | | | | | |
| Syllabus/Components | <p>1. Maths Puzzles: Cross-figures or cross numbers, Dyson numbers, Four fours, Kenken, liquid water pouring puzzles, The monkey and coconuts, Pirate loot problem, Verbal arithmetics.</p> <p>2. Math-word play: Algebra, Geometry, Trigonometry Calculus, Arithmetic operation.</p> <p>3. Magic Cube: Cubing terminology, Rubik's Cube notation – White cross, White corners – Second layer – Yellow cross – Yellow edges.</p> <p>4. DraMath: A team expresses any one of following concepts through drama – remove Phobia of mathematics, Represent any mathematical concept or formula, Mathematician history, School level maths Vs College level maths.</p> <p>5. Number Place Game(SUDOKU): SU-DO-KU Techniques- Esay techniques – Single position, Single candidate, Medium Techniques: Candidate line, double pair, Advanced techniques, Naked pairs/ Triples, Hidden pairs/ Triples, Master techniques X-wing, Sword fish, Forcing chains.</p> <p>6. Maths Firearm(Shot Gun): Fun Maths Questions, Basic formula, Mathematician picture and Name, Connection game.</p> <p>7. Math Imitation Game(Mono Act): Mathematical object or shape, Number system, Words from Basic mathematics.</p> | | | | | | | | |
| Assessments and Evaluation | Attendance: Minimum 75% Assignment: Evaluate based on performance (Activities) Assessment: Aptitude test / MCQ Evaluation: Assessment (30) + Assignment (20) | | | | | | | | |

Group 7

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|---------------------------|--|---|---|----------------|---|---|-------------------------------|---|--|
| Group Number | G7 | | | Group Category | | | Skill Course Level - 2 | | |
| Module Code | USC08 | | | Module Name | | | FOSS Course – Domain Specific | | |
| Credit Details | L | 0 | T | 0 | P | 2 | C | 2 | |
| Objectives | <ul style="list-style-type: none"> ❖ To provide an opportunity to work on a real world open source software project and gain experience in software maintenance and enhancing software quality. ❖ To execute project using open source technology to meet the industrial needs. ❖ To promote open source awareness among the students to improve their project knowledge. | | | | | | | | |
| Expected Outcome | <p>At the end of the course the student will able to</p> <ul style="list-style-type: none"> ❖ Improve their knowledge by providing FOSS course, which can help them financially as well as academically. ❖ Achieve their academic, career and personal goals in software field ❖ Participate in the FOSS projects to gain valuable work experience. ❖ Easily bridge their communication and technological gaps in their education. | | | | | | | | |
| Teaching Methodology | Indoor | | | | | | | | |
| Syllabus/Components | <ol style="list-style-type: none"> 1. UCSF Chimer (Interactive visualization and analysis of molecular structures software) 2. Scilab (Numerical Computation Software) 3. DWSIM (Chemical process simulation software) 4. PHP & My SQL (open source scripting language for web development) 5. Ruby (open source programming language with a focus on simplicity and productivity) 6. Open Modelica (Open – source Modelica-based modeling and simulation environment intended for industrial and academic usage). 7. Apache (web content through the internet) 8. Module (learning management system (LMS)) 9. Open FOAM (open –source office suite) 10. Open FOAM (open source CFD software) 11. Pspice (Electronic design automation) 12. Java (object oriented programming language) <p>(students have to choose particular course from the given list)</p> | | | | | | | | |
| Assessment and Evaluation | <ul style="list-style-type: none"> ❖ Submission of FOSS course completion certificate (or) Project report ❖ Foss based projects and their report ❖ Certificate from Spoken Tutorial | | | | | | | | |

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|---------------------------|--|---|--------------------------|---|---|-------------------------------------|---|---|
| Group Number | G7 | | Group Category | | | Skill Course Level - 2 | | |
| Module Code | USC09 | | Module Name/ Duration | | | Workshop / Smart India Hackathon | | |
| Credit Details | L | 0 | T | 0 | P | 2 | C | 2 |
| Objective | <ul style="list-style-type: none"> ❖ To provide exposure and opportunities for students to participate in innovation and entrepreneurship related activities. ❖ To provide students with a platform to solve some of the pressing problems in real time and thus innovation culture of product and mindset of problem solving. | | | | | | | |
| Expected Outcome | <p>Students will be able to</p> <ul style="list-style-type: none"> ❖ A workshop can introduce a new concept spurring participants to investigate it further on their own. ❖ Hackathon are providing grounds of new ideas. ❖ The good tools to stimulate the creative and problem solving of developers at low cost failure. | | | | | | | |
| Teaching Methodology | Outdoor | | | | | | | |
| Syllabus/Components | <p>Overview about the Hackathon Participate in any of the Hackathon Event Product model to be submitted and their report</p> | | | | | | | |
| Assessment and Evaluation | <ul style="list-style-type: none"> ❖ Participation confirmation in equal /state level events ❖ Certificate submission from project center. ❖ Submission of report on program attended. ❖ Participation certificate in workshop ❖ Proposal submitted copy – Smart India Hackathon. | | | | | | | |

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|---------------------------|--|---|---|----------------|---|---|------------------------|---|--|
| Group Number | G7 | | | Group Category | | | Skill Course Level - 2 | | |
| Module Code | USC10 | | | Module Name | | | Technical Seminar | | |
| Credit Details | L | 0 | T | 1 | P | 1 | C | 2 | |
| Objectives | <ul style="list-style-type: none"> ❖ Awareness of how to use values in improving your own professionalism. ❖ To develop an emerging field at intersection of multidisciplinary understanding of culture. ❖ To bring together seminar participants from different disciplines. ❖ To explore new research from academic ❖ Learning management values. | | | | | | | | |
| Expected Outcome | <p>Students will be able to</p> <ul style="list-style-type: none"> ❖ Understand about in depth knowledge of technical concepts in different professionalism ❖ Understand the basic concepts of content development, PPT and presentation skills. | | | | | | | | |
| Teaching Methodology | Outdoor | | | | | | | | |
| Syllabus/Components | <p>Definition of seminar – objectives – scope – PPT – Content development techniques used in seminar presentations.- paper presentation – content explanation – procedure – preparation of Technical events – procedure to follow for attending technical seminar- Listening of motivational speech / talk- recorded lecture (IIT/ Others)</p> | | | | | | | | |
| Assessment and Evaluation | <ul style="list-style-type: none"> ❖ Power Point presentation , content validation , brochure preparation- Video recording of talk ❖ Participation certificate from various technical workshop and seminar | | | | | | | | |

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| Group Number | G7 | | Group Category | | | Skill Course Level - 2 | | |
| Module Code | USC11 | | Module Name | | | Website Development | | |
| Credit Details | L | 2 | T | 0 | P | 0 | C | 2 |
| Objectives | <ul style="list-style-type: none"> ❖ To understand about client- server communication and protocols used during communication ❖ To design interactive web pages using scripting languages ❖ To plan design and implement a website using current standards and best practices. | | | | | | | |
| Expected Outcome | <p>Upon successful completion of this course, Students will be able to</p> <ul style="list-style-type: none"> ❖ Design simple web pages using markup languages like HTML and XHTML ❖ Create dynamic web pages using DHTML and JAVA script that is easy to navigate and use. ❖ Program server side web pages that have to process request from client side web pages. | | | | | | | |
| Teaching Methodology | Indoor/outdoor | | | | | | | |
| Syllabus/Components | <p>Part-1 : Getting started : world wide web (4hrs) Course over view – internet and world wide web – introduction to mark up languages Part-2 : Markup (HTML) and Style (CSS) (4hrs) HTML Lists – Tables- frames – forms – HTML 5.0 – CSS 3.0- CSS Mechanics and basic selectors- CSS Text properties Part-3: Advanced CSS and bootstrap 4(4hrs) Z dimensions – Transforms – Transition – animation – flex box – reactJS development Part-4: Client- side and server –side programming (8hrs) JAVA scripts – JSP and XML- Ruby programming Part-5 : Deploying basic HTML CSS website (4hrs)</p> | | | | | | | |
| Assessment and Evaluation | <ul style="list-style-type: none"> ❖ Attendance minimum 75 % ❖ Website creation by own – screen shot ❖ Certificate receive from any of the website development course offered in organization (eg: courseera, udemy, google, youtube etc) ❖ Step by step – procedure with screen shot -Short film / video clipping | | | | | | | |

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| Group Number | G7 | | Group Category | | | Skill Course Level - 2 | | |
| Module Code | USC12 | | Module Name | | | Professional Society Membership and Activities | | |
| Credit Details | L | 0 | T | 1 | P | 1 | C | 2 |
| Objective | <ul style="list-style-type: none"> ❖ To create the awareness , tutor the importance of the professional society membership among the engineering students ❖ To promote the students to do professional activities through professional societies. | | | | | | | |
| Expected Outcome | <p>Students will be able to</p> <ul style="list-style-type: none"> ❖ Under go in any of the technical societies related to their branch / specialization ❖ Participate conduct and excel in the technical and non technical events or activities. | | | | | | | |
| Teaching Methodology | Both | | | | | | | |
| Syllabus/Components | <ul style="list-style-type: none"> ❖ Awareness program on roll and importance of professional societies. (Indoor) ❖ Every student should get life time membership in any one of the society.(outdoor) ❖ Each batch (Max :2 Students) of students should conduct or organize the events (technical or non technical event) to all other students.(indoor) ❖ Participate in one are more events in state /national/ international level events .(seminar, workshop , project expo, symposium ,conference etc.,) (outdoor) | | | | | | | |
| Assessment and Evaluation | <ul style="list-style-type: none"> ❖ Attendance minimum 75 % ❖ Indoor – Certification for internal events (Both participation and organized) ❖ Outdoor – membership certificate / card and certificate of participation in external events. ❖ Report on program attended and organized ❖ Activity : <ol style="list-style-type: none"> 1. Internship and job opportunities 2. Conferences 3. Industry standards 4. Update on policies. | | | | | | | |

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| Group Number | G7 | | Group Category | | | Skill Course Level - 2 | | |
| Module Code | USC13 | | Module Name | | | Symposium Events | | |
| Credit Details | L | 1 | T | 1 | P | 0 | C | 2 |
| Objectives | <ul style="list-style-type: none"> ❖ To facilitate opportunities for networking, collaboration and exchange of our ideas with internationally esteemed leaders and experts in evidence based practice and education. ❖ To debate and identify gaps and priority and area for evaluating research and practice based innovation in optimizing multidisciplinary problems. ❖ To share new initiative, strategies and challenges in achieving. Improved global protection, better patients out comes | | | | | | | |
| Expected Outcome | <p>Students will be able to</p> <ul style="list-style-type: none"> ❖ Manifest a greater understanding about how academic theories and principles apply to the field. ❖ Demonstrate an increased level of confidence in their ability to perform academically and self efficiency ❖ Increase professional interaction through interpersonal skills with other students and faculty ❖ Articulate a great understanding of how their achievements can contribute to their field, community nation and / or world. | | | | | | | |
| Teaching Methodology | Both | | | | | | | |
| Syllabus/Components | <p>Unit – 1 : About symposium Definition – objectives – purpose- characteristics – techniques – scope – limitations- advantages Unit -2 :symposium participation guidance Guidelines on symposium / conference / journal article preparation – procedural / platform for applying in symposium events – event preparation</p> | | | | | | | |
| Assessment and Evaluation | <ul style="list-style-type: none"> ❖ Attendance minimum 75 % ❖ Participation certificate-Paper Presentation in symposium (min 2 events) | | | | | | | |

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| Group Number | G7 | | Group Category | | | Skill Course Level - 2 | | |
| Module Code | USC14 | | Module Name | | | In House Training | | |
| Credit Details | L | 2 | T | 0 | P | 0 | C | 2 |
| Objective | <ul style="list-style-type: none"> ❖ To nurture the students in professional way in any of the recent trends and technology ❖ To motivate the students to have specified skill oriented knowledge | | | | | | | |
| Expected Outcome | <p>Students will be able to</p> <ul style="list-style-type: none"> ❖ Have sound knowledge in programming language ❖ Have the better non technical skills | | | | | | | |
| Teaching Methodology | Both | | | | | | | |
| Syllabus/Components | <p>Unit – 1 : Technical Oriented training Objectives – Evaluation of new technologies – various programming languages – C,C++, JAVA, Python etc., - Design/Drawing software – Auto CAD, 3D's MAX- Photoshop Unit -2 : Non - Technical Oriented training Objectives – painting – craft work – photography – tailoring – pencil sketching – multimedia presentation – short film making</p> | | | | | | | |
| Assessment and Evaluation | <ul style="list-style-type: none"> ❖ Attendance minimum 75 % ❖ Assignment : 2 seminar/PPT/Multimedia presentation ❖ Assessment : Certificate course in technical/ non – technical skills ❖ Evaluation : Assessment (30) + Assignment (20) | | | | | | | |

Group 8

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| Group Number | G8 | | Group Category | | | Employability Course Level-2 | | |
| Module Code | UES08 | | Module Name | | | GATE Coaching-1 | | |
| Credit Details | L | 1 | T | 0 | P | 1 | C | 2 |
| Objectives | <ul style="list-style-type: none"> ❖ Provides opportunities for the aspirants in pursuing of PG studies. ❖ To create conducive environment for pursuit of the higher education. ❖ To focus and motivate the students to appear for GATE exam & preparation. | | | | | | | |
| Expected Outcome | <p>Student will able to</p> <ul style="list-style-type: none"> ❖ Understand the technical section for their Engineering career. ❖ Understand the importance of GATE Exam. | | | | | | | |
| Teaching Methodology | BOTH | | | | | | | |
| Syllabus/Components | <p>Unit-1:Introduction About GATE-Eligibility and notification process-Registrations-GATE Score calculation- GATE Score for recruitment- GATE cut off-Awareness for enroll the examinations.</p> <p>Unit-2: Department specific syllabus details-orientation on Engineering Maths syllabus for GATE Exam-Mock Test on Engineering Maths.</p> | | | | | | | |
| Assessments and Evaluation | <ul style="list-style-type: none"> ❖ Attendance minimum 75%. ❖ Proof of hall ticket for enrollment. ❖ Score card/participation certificate. ❖ Attendance certificate from GATE coaching centre. | | | | | | | |

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| Group Number | G8 | | Group Category | | | Employability Course Level-2 | | |
| Module Code | UES09 | | Module Name | | | UPSC Exam Training | | |
| Credit Details | L | 1 | T | 1 | P | 0 | C | 2 |
| Objectives | <ul style="list-style-type: none"> ❖ To assist the aspirants to frame an accurate and separate strategy and plan at every level of examination, i.e., preliminary ,main and Interview. ❖ To focus at the students belongs to the weaker section of the society and help them to be the part of the mainstream of the society. | | | | | | | |
| Expected Outcome | <p>Student will be able to</p> <ul style="list-style-type: none"> ❖ Understand the section for the preliminary examination and the main examination, as periodic revision of syllabus. | | | | | | | |
| Teaching Methodology | Indoor and Outdoor | | | | | | | |
| Syllabus/Components | <p>Unit I : Introduction About UPSC, age limit, eligibility & number of attempts in the exam category wise, month of notification and registration process.</p> <p>Unit II : UPSC Examinations</p> <p>I - All India civil services – IAS , IFS , IRS</p> <p>II - Group A services or central services</p> <ol style="list-style-type: none"> 1. Indian P&T accounts & finance service 2. Indian Audit & Accounts service 3. Indian Revenue service (customs & central exercise) 4. Indian Defense Accounts service 5. Indian Revenue service (I.T) or IRS 6. Indian ordnance factories service (Assistant Work Manager, administration) 7. Indian Portal Service 8. Indian Civil accounts service 9. Indian railway traffic service 10. Indian railway accounts service 11. Indian railway personal service 12. Indian railway protection service 13. Indian defense estates service 14. Indian information service 15. Indian trade service 16. Indian corporate law service <p>III – List of B services or state services</p> <ol style="list-style-type: none"> 1. Armed force head quarters civil service | | | | | | | |

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| | <ol style="list-style-type: none"> 2. Delhi, Andaman & Nicobar Islands, Lakshadweep, Daman & diu and Dadra & Nagar Haveli civil service. 3. Delhi, Andaman & Nicobar Islands, Lakshadweep, Daman & diu and Dadra & Nagar Haveli police service. 4. Pondicherry civil & police service <p>Other UPSC Service Exams</p> <ol style="list-style-type: none"> 1. Engineering service examination (CIVIL, MECH, EEE,ECE) 2. Geological examination. 3. Special class Railway apprentices exam 4. National defense & Naval academy 5. Combined defense service examination. (CAPF, BCI, CRPF,CISF, ITBP, SSB) 6. Combined medical services examination 7. Indian economic / statistical service 8. Stenographer departmental competitive exam 9. Central police forces <p>Unit III : Preparation strategy</p> <p>Comprehensive coverage of UPSC syllabus, make a note of completion, make a habit of reading newspapers daily, practice with previous year question papers, plan to improve time – management & had multiple revisions.</p> |
| Assessments and Evaluation | Submission of report on competitive exams. |

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| Group Number | G8 | | Group Category | | | Employability Course Level-2 | | |
| Module Code | UES10 | | Module Name | | | Integrated Aptitude Skill course – 2 | | |
| Credit Details | L | 2 | T | 0 | P | 0 | C | 2 |
| Objectives | <ul style="list-style-type: none"> ❖ To enhance the problem solving and mathematical skills. ❖ To sensitize students with the scope of skills which facilitate them to enhance their employability quotient and do well in the professional space. ❖ To enable students to manage the placement challenges more effectively. | | | | | | | |
| Expected Outcome | <p>Student will be able to</p> <ul style="list-style-type: none"> ❖ Apply the mathematical and analytical skill to enhance career opportunities. ❖ Understand the concepts of quantitative ability, logical reasoning and verbal ability. | | | | | | | |
| Teaching Methodology | Indoor | | | | | | | |
| Syllabus/Components | <p>Unit I Critical thinking and applying mathematical skill to interpret data , draw conclusions and solve problems – data interpretation- data graphs and other graph- Numerical computation and estimation – permutations and combinations and series.</p> <p>Unit II Understanding & reasoning using concepts, critical verbal reasoning, reading comprehension , applications - basic English grammar – Tenses- Articles-Prepositions- Conjunctions- verb noun arrangement and other parts of speech – basic vocabulary – words idioms and phrases in context – Narrative sequencing.</p> <p>Unit III Guidelines for making practice through solving the aptitude questions by using online mock test applications like UPSC Pathsala, Prep guru and Gradeup best exam.</p> | | | | | | | |
| Assessments and Evaluation | <ul style="list-style-type: none"> • Utilization of aptitude related apps • Online aptitude mock test • Puzzle games • Certificate submission for completed level | | | | | | | |

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| Group Number | G8 | | | Group Category | | | Employability Course Level-2 | | |
| Module Code | UES11 | | | Module Name | | | Soft Skill Certificate Course - 2 | | |
| Credit Details | L | 2 | T | 0 | P | 0 | C | 2 | |
| Objectives | <ul style="list-style-type: none"> ❖ To develop effective communication skills (spoken & written). ❖ To develop the strength and creating opportunities. ❖ To develop broad career plan, evaluate the employment market, identify the organizations to get good placement, match the job requirements & skill sets. | | | | | | | | |
| Expected Outcome | <p>On completion of the course, Student will be able to</p> <ul style="list-style-type: none"> ❖ Effectively communicate through verbal / oral communication and improve the listening skills. ❖ Actively participate in group discussion / meetings / interviews and prepare & deliver presentations. ❖ Become more effective individual through goal / target setting, self motivation & practicing creative thinking. ❖ Function effectively in multi-disciplinary and heterogeneous teams through the knowledge of team work, Inter- Personal relationships, conflict management & leadership quality. | | | | | | | | |
| Teaching Methodology | Indoor | | | | | | | | |
| Syllabus/Components | <p>Unit I : Team skills & Time management Team building and leadership, evaluation of groups into teams, group dynamics, emergence of leadership, intra & inter- group dynamics, conflict management, inter dependency; prioritization, goal setting.</p> <p>Unit II : Interpersonal & leadership skills Negotiations, listening skills, social skills , assertive skills, cross – cultural communications, leadership styles, personality development.</p> <p>Unit III : Career Visioning & Planning Selection Process, Overview of selection process, practice of psychological tests, dealing with placement consultants & head hunters, Group discussions: concepts and practice, Interview techniques : effective interview techniques, mock interviews, stress interviews, review and feedback.</p> | | | | | | | | |
| Assessments and Evaluation | <ul style="list-style-type: none"> ❖ Attendance minimum 75% ❖ Mock interview ❖ Presentation (PPT) ❖ Group discussion , One act play ❖ Submission of proof for attended on /off campus placement drive. ❖ Score card of competitive exam. ❖ Online certificates. ❖ Oral presentation in any topic for 5 minutes with self introduction. ❖ Resume writing. | | | | | | | | |

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| Group Number | G8 | | Group Category | | | Employability Course Level-2 | | |
| Module Code | UES12 | | Module Name | | | Marketing Management | | |
| Credit Details | L | 2 | T | 0 | P | 0 | C | 2 |
| Objectives | <ul style="list-style-type: none"> ❖ To understand marketing theory and concepts. ❖ To improve familiarity with current challenges and issues in marketing. | | | | | | | |
| Expected Outcome | <p>On completion of the course, Student will be able to</p> <ul style="list-style-type: none"> ❖ Gain knowledge in marketing fields. ❖ Apply the marketing principles, processes and strategies to solve the real world situation. | | | | | | | |
| Teaching Methodology | Indoor | | | | | | | |
| Syllabus/Components | <p>Unit I : Introduction To Marketing Definition, Importance of marketing, marketing concept, marketing mix, customer, consumer.</p> <p>Unit II : Overview Of Marketing Market analysis and selection, marketing environment , marketing decisions, product life cycle.</p> <p>Unit III : Developments in Marketing Service marketing, retail marketing, international marketing, MLM (Multi Level Marketing), online marketing, Tele- marketing, Resale marketing, CRM (Customer Relationship Management)</p> | | | | | | | |
| Assessments and Evaluation | <ul style="list-style-type: none"> ❖ Attendance minimum 75% ❖ Life cycle of any Indian production marketing environment (Upto 5 pages) ❖ New product launch (Upto 5 pages) ❖ Attending management event and produced certificate. ❖ Real time marketing (Detailed Report) ❖ Short films (or) video clippings of developed marketing strategy. ❖ Collection of successful strategy done by industries. | | | | | | | |

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| Group Number | G8 | | Group Category | | | Employability Course Level-2 | | |
| Module Code | UES13 | | Module Name | | | Visual Media & Film Making | | |
| Credit Details | L | 0 | T | 0 | P | 2 | C | 2 |
| Objectives | <ul style="list-style-type: none"> ❖ To create awareness about the film making and visual media. ❖ To improve the creativity and innovative skills of students. ❖ To identify the extracurricular strength of pupil. | | | | | | | |
| Expected Outcome | <p>On completion of the course, Student will be able to</p> <ul style="list-style-type: none"> ❖ To get knowledge about film making and visual media. ❖ To gain maximum knowledge about all the aspects of visual media and film making. ❖ To identify the strength of their skills in this field. | | | | | | | |
| Teaching Methodology | Indoor & Outdoor | | | | | | | |
| Syllabus/Components | <ul style="list-style-type: none"> ❖ Story writing ❖ Dialogue writing ❖ Scene creation ❖ Photography ❖ Cinematography ❖ Makeup ❖ Casting ❖ Music composing ❖ Software used in Animation ❖ Short film ❖ Development of small clippings (Teaser type) | | | | | | | |
| Assessments and Evaluation | Producing the participation certificate / AV content /Short Film / AV show created / Animated clippings | | | | | | | |

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| Group Number | G8 | | Group Category | | | Employability Course Level-2 | | |
| Module Code | UES14 | | Module Name | | | Domain Specific Certificate Course | | |
| Credit Details | L | 1 | T | 0 | P | 1 | C | 2 |
| Objectives | <ul style="list-style-type: none"> ❖ To enhance his/her knowledge and skills in a specific domain. ❖ To improve his/her employment Opportunities. | | | | | | | |
| Expected Outcome | <p>Student will be able to</p> <ul style="list-style-type: none"> ❖ Gain a knowledge in their relevant field. ❖ Get a good career and changes to secure the employment in various job markets. | | | | | | | |
| Teaching Methodology | Indoor & Outdoor | | | | | | | |
| Syllabus/Components | <p>Unit-I Outline the emerging Specializations in relevant program(Department)-Importance of the Specializations-Available value added/online courses.</p> <p>Unit-II Sources of online courses-Enrollment of online courses-procedure- Importance.</p> <p>Unit-III Guidelines of online courses based on duration (8 weeks,12 weeks)-Importance of online Assignment submission-course completion-Domain specific VAC-(vasthu , CAD ,marketing, CCNA, Auditing ,etc.,)</p> | | | | | | | |
| Assessments and Evaluation | <p>Attendance will be provided based on their certificate submission.</p> <p>1.Course completion :Produce the C.C certificate from competent Authority.</p> <p>2.Ongoing course: produce course progress acceptance report</p> | | | | | | | |

Group 9

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|----------------------------|--|---|----------------|---|---|-------------------------------|---|---|
| Group Number | G9 | | Group Category | | | Technical Expertise Level - 2 | | |
| Module Code | UTE08 | | Module Name | | | International Conference | | |
| Credit Details | L | 2 | T | 0 | P | 0 | C | 2 |
| Objective | <ul style="list-style-type: none"> ❖ To explore the good practices by identify the current issues and challenges in the global research work. ❖ To focus on industrial operations and consider the latest technical development and research work. ❖ To gain knowledge about to publish the research works in international conference. | | | | | | | |
| Expected Outcome | <p>At the end of the module, the learners will able to</p> <ul style="list-style-type: none"> ❖ Learn about new techniques, experiments, abstract to publish and new skills in different environments ❖ Learn new ideas and trends in research work | | | | | | | |
| Teaching Methodology | Indoor | | | | | | | |
| Syllabus/Components | <p>Motivation and awareness lecture on</p> <ul style="list-style-type: none"> ❖ How to prepare and write technical paper ❖ Literature survey and its importance | | | | | | | |
| Assessments and Evaluation | <ul style="list-style-type: none"> • Published article • Proceeding copy • Certificate of participation-1 conference | | | | | | | |

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| Group Number | G9 | | Group Category | | | Technical Expertise Level - 2 | | |
| Module Code | UTE09 | | Module Name | | | Publications | | |
| Credit Details | L | 1 | T | 0 | P | 1 | C | 2 |
| Objective | <ul style="list-style-type: none"> ❖ To help and improve writing and research skills ❖ To connect with academicians and researchers ❖ To professionalize the undergraduate experience ❖ To uniform a future career path | | | | | | | |
| Expected Outcome | <p>At the end of the module, the learners will able to</p> <ul style="list-style-type: none"> ❖ Prepare abstract ❖ Write research article ❖ Publish article in peer-reviewed journals | | | | | | | |
| Teaching Methodology | Outdoor | | | | | | | |
| Syllabus/Components | Prepare and submit article in peer-reviewed journal | | | | | | | |
| Assessments and Evaluation | Submission of published article in peer-reviewed journal | | | | | | | |

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| Group Number | G9 | | Group Category | | | Technical Expertise Level - 2 | | |
| Module Code | UTE10 | | Module Name | | | Self Learning courses | | |
| Credit Details | L | 0 | T | 1 | P | 1 | C | 2 |
| Objective | ❖ Aims to learn new technologies by self – interest and to educate for more innovative ideas. | | | | | | | |
| Expected Outcome | At the end of the module, the learners will able to ❖ Acquire more knowledge about various techniques used in the society ❖ Apply innovative ideas for their industrial needs. ❖ Get job ready for an in-demand career field. | | | | | | | |
| Teaching Methodology | Indoor | | | | | | | |
| Syllabus/Components | Components: Introduction – Self credit course – Audit course – Mandatory course – Taylor made course – Importance – Types – Advantages – Features Enrolment into any of the above course in any of the Institution / University/ On-line platform / Abroad university / Open university / Distance education / National level organization / Industries / Research organization / IIT's / NIT's / IISC's / IITM's or its equivalent | | | | | | | |
| Assessments and Evaluation | <ul style="list-style-type: none"> • Assessment: As prescribed by the certifying authority • Evaluation: Participation certificate | | | | | | | |

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| Group Number | G9 | | Group Category | | | Technical Expertise Level - 2 | | |
| Module Code | UTE11 | | Module Name | | | Organizing a Technical event- IEEE/ISTE | | |
| Credit Details | L | 2 | T | 0 | P | 1 | C | 2 |
| Objective | <ul style="list-style-type: none"> ❖ To cultivate the habit of participating in Co-curricular activities. ❖ To motivate the students fraternity starting skill. ❖ To identify the leadership quality among the students. | | | | | | | |
| Expected Outcome | <p>At the end of the module, the learners will able to</p> <ul style="list-style-type: none"> ❖ Improvement in technical skills of the students. Organize technical events in national and international. ❖ Interact with their organization based education systems. ❖ Improvement in building student-industry interaction to organize a committee for team work. ❖ Prepare the budget. | | | | | | | |
| Teaching Methodology | Indoor | | | | | | | |
| Syllabus/Components | <ul style="list-style-type: none"> ❖ Technical Quiz ❖ Project Expo/Mini Project Expo ❖ Technical Seminar & Paper Presentation ❖ Group Discussion & Self introduction ❖ Circuit Debugging/Program Debugging ❖ Workshop of Webinar ❖ Poster design/Logo design | | | | | | | |
| Assessments and Evaluation | <ul style="list-style-type: none"> • Organizing Certificate • Participation Certificate | | | | | | | |

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| Group Number | G9 | | Group Category | | | Technical Expertise Level - 2 | | |
| Module Code | UTE12 | | Module Name | | | Product Development | | |
| Credit Details | L | 0 | T | 0 | P | 2 | C | 2 |
| Objective | <ul style="list-style-type: none"> ❖ To develop the creative and innovative ideas of new product development in the current market. ❖ To Understand the various challenges in new product development | | | | | | | |
| Expected Outcome | <p>At the end of the module, the learners will able to</p> <ul style="list-style-type: none"> ❖ Identify the approaches for generate the new product ideas. ❖ Identify methods to evaluate new product ideas. ❖ Create process for developing commercialize new product. | | | | | | | |
| Teaching Methodology | Indoor | | | | | | | |
| Syllabus/Components | <p>Unit I Introduction Idea Generation-idea screening-concept development and testing-marketing-business analysis-product development-market testing-commercialization-product life cycle.</p> <p>Unit II Crafting Define market-value proposition-product competitor analysis-Strategy –consider external marketing-Evaluate process support you customers.</p> <p>Unit III Tested and new product- Target market needs and wants-market relationship –customer expectations.</p> | | | | | | | |
| Assessments and Evaluation | <ul style="list-style-type: none"> • Attendance : 75% Module Coordinator : Conduct review for product models • New product Prototype. • New product Model. | | | | | | | |

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| Group Number | G9 | | Group Category | | | Technical Expertise Level - 2 | | |
| Module Code | UTE13 | | Module Name | | | Document preparation system: LaTeX | | |
| Credit Details | L | 1 | T | 0 | P | 0 | C | 1 |
| Objective | <ul style="list-style-type: none"> ❖ Typesetting of journal articles ❖ Technical reports ❖ Thesis, Books and slide presentation ❖ Control over large documents containing sectioning, cross-references, tables and figures ❖ Typesetting of complex mathematical formulae | | | | | | | |
| Expected Outcome | <p>At the end of the module, the learners will able to</p> <ul style="list-style-type: none"> ❖ Explain the process of LaTeX ❖ Write mathematical documents via LaTeX ❖ Write documents containing mathematical formulae ❖ Write article in different types of journals ❖ Draw graphs and figures in LaTeX ❖ Prepare presentation using LaTeX | | | | | | | |
| Teaching Methodology | Indoor | | | | | | | |
| Syllabus/Components | <ul style="list-style-type: none"> ❖ Preparation of document using LaTeX. ❖ Font selection – Formatting text – Page layout and style – Listing and Tabulating text – Table preparation – Figure insertion – Equation writing – Letters, articles, book and report. | | | | | | | |
| Assessments and Evaluation | <ul style="list-style-type: none"> • Submission of softcopy and hardcopy of prepared document. | | | | | | | |

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| Group Number | G9 | | Group Category | | | Technical Expertise Level - 2 | | |
| Module Code | UTE14 | | Module Name | | | Educational & Technical visit | | |
| Credit Details | L | 0 | T | 0 | P | 1 | C | 1 |
| Objective | <ul style="list-style-type: none"> ❖ To explore the student to have industrial interaction with respective professional skills ❖ To inculcate the knowledge of the students through the industrial visit ❖ A group of technicians make a visit to review all the relevant information gathered during the visit | | | | | | | |
| Expected Outcome | <p>At the end of the module, the learners will able to</p> <ul style="list-style-type: none"> ❖ Make relevant decisions for business or higher education ❖ Emphasize and understand new perspective ❖ Learn about experimental reach and helps and bring all the students to a common platform | | | | | | | |
| Teaching Methodology | Outdoor | | | | | | | |
| Syllabus/Components | <p>Trips (or) Visit</p> <ul style="list-style-type: none"> ❖ Industrial complexes (IT park) ❖ Museums, Galleries and cultural centers ❖ Educational exhibitions and project expo ❖ Theme park ❖ Job fair ❖ Data collection about higher studies to visit different organizations ❖ Visiting the research institutes related to the department <ul style="list-style-type: none"> ✓ National Aerospace Laboratory – Bangalore ✓ Central Electro Chemical Research Institute – Karaikudi ✓ Central Food Technological research Institute – Mysore ✓ Structural Engineering Research Center – Chennai ✓ Defence Research Development Organization – Bangalore ✓ Bhabha Atomic Research Center – Andhra Pradesh ✓ Defence Bio-Engineering and Electro Medical Laboratory – Bangalore ✓ Indian Space Research Organization – Bangalore ✓ Council of Scientific and Industrial Research - Chennai | | | | | | | |
| Assessments and Evaluation | <ul style="list-style-type: none"> • Certificate for visit • Report and feedback on visit | | | | | | | |

Group 10

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|---------------------------|---|---|---|----------------|---|---|--|---|--|
| Group Number | G10 | | | Group Category | | | Proficiency Exam | | |
| Module Code | UPE 01 | | | Module Name | | | Clearing Proficiency Exam (GATE/Tech Exam) | | |
| Credit Details | L | 1 | T | 1 | P | 0 | C | 2 | |
| Objectives | ❖ To promote importance of GATE exam and its significance. | | | | | | | | |
| Expected Outcome | Enrollment in to PG /Industry/Research after scoring in Gate | | | | | | | | |
| Teaching Methodology | Indoor | | | | | | | | |
| Syllabus/Components | <ol style="list-style-type: none"> 1. Civil services Examination – Graduates from any stream can apply for the exam 2. Indian Economic service examination – Students having a bachelor degree in Economics / statistics can apply for the same 3. Indian statistical service examination- Students having a background in statistics can apply for the same. 4. combined defense services examination (CDSE) 5. National defense academy & Naval Academy examination.- graduates with physics / chemistry / maths as their subjects can apply for the examination. 6. Combined Medical services examination 7. Engineering services examinations – Engineering graduates can appear for these exam 8. Staff selection from different cadre – graduates in various discipline can apply for the same. 9. Exam for different post through RBI service board – Graduates in any discipline can apply for the same. 10. Exam for development officer and others through NABARD – Graduates with specific percentage criteria can apply for this exam 11. Exam for telecom officers in the department of Telecommunication 12. GATE – Engineering graduates are eligible To apply for the Exam. 13. CEED – Students who have secured graduation in B.E/B.Tech/B.Arch 14. NIFT- Entrance Exam- B.F.Tech from NIFT or B.E//B.Tech from any university 15. XAT. | | | | | | | | |
| Assessment and Evaluation | ❖ Score card Of Gate Exam / equivalent | | | | | | | | |

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| Group Number | G10 | | | Group Category | | | Proficiency Exam | | |
| Module Code | UPE 02 | | | Module Name | | | International Certificate Course | | |
| Credit Details | L | 1 | T | 1 | P | 0 | C | 2 | |
| Objectives | <ul style="list-style-type: none"> ❖ To give the outline of various international courses related to their specialization ❖ To cultivate importance of international courses for job requirements. | | | | | | | | |
| Expected Outcome | Students will be able to get the detailed knowledge and skills required to perform real world job responsibilities. | | | | | | | | |
| Teaching Methodology | Indoor | | | | | | | | |
| Syllabus/Components | <p>Unit-1 : Awareness about the UGC approved available courses and universities – development of professional competency – increase the career opportunity</p> <p>Unit- 2 : Developing and recent developed plat forms per circuit and non circuit branches</p> <p>Unit- 3 : Guidelines of Registration process – Importance of Assignment submission – Certificate form corresponding universities</p> <p>List of Plat Forms:</p> <ol style="list-style-type: none"> 1.Codeing for every one C&C++ 2. Arduino plat form and C programming 3.FOSS 4.SAS programmer 5.CCNA 6.HTML , CSS and JAVA script for web developers 7.Programming with MAT LAB 8.Vedic vasthu soft ware 9.3D's MAX 10. STAAD PRO 11. Pro-E 12.NDT 13.MCP/NCSE 14.SCADA 15.VLSI 16.SAP 17.C- Sharp 18.FPGA design for Embedded system specialization 19. Auto CAD 20. Cad and digital manufacturing specialization | | | | | | | | |
| Assessment and Evaluation | <ul style="list-style-type: none"> ❖ Registration process ❖ Certificate of participation / Attendance certificate – From Institution / Center | | | | | | | | |

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|---------------------------|---|---|---|----------------|---|---|--|---|--|
| Group Number | G10 | | | Group Category | | | Proficiency Exam | | |
| Module Code | UPE 03 | | | Module Name | | | English Proficiency Certification- TOEFL/IELTS/BEC | | |
| Credit Details | L | 1 | T | 1 | P | 0 | C | 2 | |
| Objectives | <ul style="list-style-type: none"> ❖ To enable the learner to communicate effectively and appropriately in real life situation ❖ To use English language effectively for study purpose across the curriculum. ❖ To develop interest in and appreciation of literature and integrate the use of the language skills, i.e., reading, writing, listening and speaking. | | | | | | | | |
| Expected Outcome | <ul style="list-style-type: none"> ❖ Familiarity and practice in the modes of literacy. ❖ Critical thinking as it pertains to use these tools for effective communication in an academic environment. ❖ Information, seeking skills and strategies necessary to conduct college level research. | | | | | | | | |
| Teaching Methodology | Indoor | | | | | | | | |
| Syllabus/Components | Unit- 1: Vocabulary – Writing skills – letter writing – notices – task achievements – coherence and cohesion Unit-2: Speaking – fluency and coherence – accent Unit -3 : Grammatical range and accuracy – lyrical resource – intermediate fluency and advanced fluency | | | | | | | | |
| Assessment and Evaluation | <ul style="list-style-type: none"> ❖ Attendance Minimum -75% ❖ Assessment: <ol style="list-style-type: none"> 1. written report/output 2. active participation in class Discussion 3. writing essay length assignments 4. story writing 5. Debate ❖ Activities : <ol style="list-style-type: none"> 1. quiz 2. Completion of required Activities 3. Discussing Exam questions and answering Techniques 4. Resume and interview skills | | | | | | | | |

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|---------------------------|--|---|---|----------------|---|---|--|---|--|
| Group Number | G10 | | | Group Category | | | Proficiency Exam | | |
| Module Code | UPE 04 | | | Module Name | | | Domestic Languages 1.Hindi-UPE04H 2.Sanskrit-UPE04S 3.Tamil – UPE04Ta 4. Malayalam – UPE04M 5.Telugu- UPE04Te | | |
| Credit Details | L | 1 | T | 1 | P | 0 | C | 2 | |
| Objectives | ❖ To develop the basic communication skills in regional languages. | | | | | | | | |
| Expected Outcome | Upon completion of course the students must be able to achieve proficiency in LSRW skills of the language. | | | | | | | | |
| Teaching Methodology | Indoor | | | | | | | | |
| Syllabus/Components | Online course to be enrolled in any of the Language 1.Tamil – udemy,I learn tamil , Cudoo etc 2.Telugu – Livelingua, udemy 3.Malayalam - Cudoo and others 4.Sanskrit – udemy ,pathshala, others 5.Hindi – Pracharsaba , udemy, others | | | | | | | | |
| Assessment and Evaluation | ❖ Have to introduce themselves in any of the above five mentioned languages for five minutes. | | | | | | | | |

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|---------------------------|---|---|----------------|---|---|---|---|---|
| Group Number | G10 | | Group Category | | | Proficiency Exam | | |
| Module Code | UPE 05 | | Module Name | | | Foreign Languages 1.French-UPE05F 2.German-UPE05G 3.Japanese – UPE05J 4. Korean – UPE05MK | | |
| Credit Details | L | 1 | T | 1 | P | 0 | C | 2 |
| Objectives | ❖ To develop the basic communication skills in foreign languages. | | | | | | | |
| Expected Outcome | Upon completion of course the students must be able to achieve proficiency in LSRW skills of the language. | | | | | | | |
| Teaching Methodology | Indoor | | | | | | | |
| Syllabus/Components | Online course to be enrolled in any of the language through any of the website and certificate to be submitted upon completion of course. | | | | | | | |
| Assessment and Evaluation | ❖ Have to introduce themselves in any of the above four mentioned languages for five minutes ❖ Have to narrate a story. | | | | | | | |

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|---------------------------|---|---|--------------------------|---|---|--|---|---|
| Group Number | G10 | | Group Category | | | Proficiency Exam | | |
| Module Code | UPE 06 | | Module Name/ Duration | | | Aptitude Proficiency Certification (GMAT/CMAT/GRE/CAT) | | |
| Credit Details | L | 1 | T | 1 | P | 0 | C | 2 |
| Objectives | <ul style="list-style-type: none"> ❖ To motivate the students for prospective career in public and corporate sector ❖ To build among the students a sense of awareness, provide guidance , necessary literature and other information about various competitive examinations | | | | | | | |
| Expected Outcome | <ul style="list-style-type: none"> ❖ The ability to use current technologies, skills and tools necessary for computing practices ❖ An understanding of Professional , Ethical and social responsibilities | | | | | | | |
| Teaching Methodology | Indoor | | | | | | | |
| Syllabus/Components | <ul style="list-style-type: none"> ❖ Orientation of module details : List of aptitude profissiciency exam and their scope in career,syllabus, website details, mode of conduct of exam and enrollment details ❖ Mock test on aptitude and details of listed exam – components – score – eligibility – scope | | | | | | | |
| Assessment and Evaluation | <ul style="list-style-type: none"> ❖ Enrollment and MCQ test ❖ Certificate submission | | | | | | | |

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| Group Number | G10 | | | Group Category | | | Proficiency Exam | | |
| Module Code | UPE 07 | | | Module Name | | | Energy Audit / Management | | |
| Credit Details | L | 1 | T | 0 | P | 1 | C | 2 | |
| Objectives | <ul style="list-style-type: none"> ❖ To determine ways to reduce energy consumption per unit ❖ To achieve and maintain optimum energy procurement and utilization | | | | | | | | |
| Expected Outcome | <ul style="list-style-type: none"> ❖ To understand the basics of energy / usage / savings strategies ❖ To understand the different methods used to reduce energy consumptions | | | | | | | | |
| Teaching Methodology | Both | | | | | | | | |
| Syllabus/Components | <p>Unit- 1: Energy – Types – Advantages – sources – conservation of energy – strategies – Measures - techniques</p> <p>Unit-2: Energy audit – Losses – Types of loss – minimization of loss- types of auditing - issues in implementation –scope for energy improvement – audit policies</p> <p>Unit -3 : Energy management – audit Vs Management – energy policies – efficiency – star vating advantages of policies</p> | | | | | | | | |
| Assessment and Evaluation | <ul style="list-style-type: none"> ❖ Certificate of participation from PSTI /CPRI /EB Training Division / Energy Burea authorities ❖ Certified auditor course – Proof | | | | | | | | |

Group 11

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|----------------------------|---|---|----------------|---|---|------------------------------|---|---|
| Group Number | G11 | | Group Category | | | Service to Society Level-1 | | |
| Module Code | USS08 | | Module Name | | | Guidance to School Education | | |
| Credit Details | L | 2 | T | 0 | P | 0 | C | 2 |
| Objectives | <ul style="list-style-type: none"> ❖ To encourage students in understanding the purpose and the function of the school educations in relations to their needs. ❖ Assisting students in discovering all that the school has to offer and plan a programme of studies accordingly. ❖ Assisting students to discover themselves. ❖ To encourage student's academic, social, emotional and personal development. ❖ To provide a platform to school students in preparing out their higher education plan by the students of DSEC. | | | | | | | |
| Expected Outcome | <p>Upon successful completion of this course, the student will able to</p> <ul style="list-style-type: none"> ❖ Identify various learning resources. ❖ Develop a communication and leadership skills. | | | | | | | |
| Teaching Methodology | Indoor& Outdoor | | | | | | | |
| Syllabus/Components | <p>Indoor</p> <p style="padding-left: 20px;">Nature & scope of education - Higher education – aims & objectives</p> <p style="padding-left: 20px;">Current social problems related to education in India - Concept of</p> <p style="padding-left: 20px;">guidance, meaning, nature & scope of guidance - Educational guidance – job analysis & occupational information services -</p> <p style="padding-left: 20px;">Scope of counseling; different types of counseling</p> <p>Outdoor</p> <p style="padding-left: 20px;">2 extension activity to nearby school in teaching what next after 12th /</p> <p style="padding-left: 20px;">do it by yourself/ develop proto type</p> | | | | | | | |
| Assessments and Evaluation | <ul style="list-style-type: none"> ❖ Internal: MCQ pattern & case study report submission ❖ Outdoor: Certificate from school Head Master | | | | | | | |

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| Group Number | G11 | | Group Category | | | Service to Society Level-1 | | |
| Module Code | USS09 | | Module Name | | | Continuing Education Programmes | | |
| Credit Details | L | 2 | T | 0 | P | 0 | C | 2 |
| Objectives | <ul style="list-style-type: none"> ❖ To ensure lifelong learning. ❖ To adhere to society needs in relevance to education. | | | | | | | |
| Expected Outcome | <p>Upon successful completion of this course, the student will able to</p> <ul style="list-style-type: none"> ❖ Develop their basic knowledge & skills to augment with current educational scenario. ❖ To enhance their confidence level in facing a large group of people. ❖ To develop the service minded skill. | | | | | | | |
| Teaching Methodology | Indoor&Outdoor | | | | | | | |
| Syllabus/Components | <p>Indoor :</p> <p>Continuing education – Prog (CEP) – Concepts & Strategies – lifelong learning – types of CEP – Strategies for implementing CEP – guidelines for setting up of CEP.</p> <p>Outdoor:</p> <p>Interdisciplinary activity to other department students(to pursue PG) – Organizing education awareness programme to society(village panchayat) – higher studies awareness programme to nearby polytechnic colleges, ITI & schools.</p> | | | | | | | |
| Assessments and Evaluation | <p>Assessment:</p> <ul style="list-style-type: none"> ❖ Assignment ❖ Outdoor participation <p>Evaluation:</p> <ul style="list-style-type: none"> ❖ Attendance - 75% ❖ Submission of one page report | | | | | | | |

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| Group Number | G11 | | | Group Category | | | Service to Society Level-1 | | |
| Module Code | USS10 | | | Module Name | | | Dissemination of information on government welfare schemes to villagers | | |
| Credit Details | L | 0 | T | 1 | P | 1 | C | 2 | |
| Objectives | <ul style="list-style-type: none"> ❖ To create the awareness about the state / central government welfare schemes. ❖ To improve the interaction with different kinds of people in villages. ❖ To nurture the student to provide service to the society through various schemes. | | | | | | | | |
| Expected Outcome | <p>Upon successful completion of this course, the student will be able to:</p> <ul style="list-style-type: none"> ❖ Be a good human being towards the service oriented aspects. ❖ Get the knowledge about the welfare schemes provides by the government. ❖ Build a better & friendly relationship with the people. | | | | | | | | |
| Teaching Methodology | Outdoor | | | | | | | | |
| Syllabus/Components | <ul style="list-style-type: none"> ❖ Introduction to Government welfare scheme ❖ Field visit ❖ Awareness programme to village people ❖ Objectives of welfare schemes ❖ Introduction about E-Governance ❖ Availing state and central government welfare schemes ❖ Importance of welfare schemes ❖ Procedure to apply the welfare schemes ❖ Way of tracking the application status, if available ❖ Guidance for receiving the applied welfare schemes. ❖ Details of scheme ❖ Women's scheme ❖ Student's scheme ❖ Engineering student scheme ❖ Farmer's scheme ❖ Home maker's scheme | | | | | | | | |
| Assessments and Evaluation | <p>Field visit / submission of application / format – individual scheme Submission of report regarding the field visit List of beneficiaries for the schemes identified List of willing list for all the scheme/Region wise / District wise Attendance: Minimum 75% (10) Indoor and Outdoor certificate of participation</p> | | | | | | | | |

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| Group Number | G11 | | Group Category | | | Service to Society Level-1 | | |
| Module Code | USS11 | | Module Name | | | Cleanliness | | |
| Credit Details | L | 1 | T | 0 | P | 1 | C | 2 |
| Objectives | <ul style="list-style-type: none"> ❖ To maintain cleanliness in environment. ❖ To promote the importance of cleanliness and make the environment clean and safe. ❖ To give Awareness about cleanliness and problems faced due to uncleanliness | | | | | | | |
| Expected Outcome | <p>Upon successful completion of this course, the student will be able to:</p> <ul style="list-style-type: none"> ❖ To understand the importance for cleanliness ❖ Improved ambience for healthy learning and working condition. | | | | | | | |
| Teaching Methodology | Outdoor | | | | | | | |
| Syllabus/Components | <p>Cleanliness ambition</p> <ul style="list-style-type: none"> ❖ Importance of cleanliness ❖ Problems of uncleanliness ❖ Maintenance of cleanliness ❖ Awareness of cleanliness ❖ Conducting awareness program in society ❖ Planning camp regarding cleanliness ❖ Culture followed in abroad ❖ Technology used ❖ Our country / state –status ❖ Schemes related to cleaning State / Central government ❖ Unnat bharaat ❖ Swachh bharaat ❖ Pollution – types-Impacts-methods ❖ Corona – causes – precautionary measures | | | | | | | |
| Assessments and Evaluation | <ul style="list-style-type: none"> ❖ Attendance: Minimum 75% (10) ❖ Short film related to awareness of cleanliness (15) ❖ Make video when they are cleaning their area or college (15) ❖ Participation of cleanliness around their environment (10) ❖ Submission of certificate from panchayat heads for involving cleaning activity in their area. ❖ Submission of certificate from college in CCP /NSS | | | | | | | |

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| Group Number | G11 | | Group Category | | | Service to Society Level-1 | | |
| Module Code | USS12 | | Module Name | | | Agriculture for Engineers | | |
| Credit Details | L | 1 | T | 0 | P | 1 | C | 2 |
| Objective | <ul style="list-style-type: none"> ❖ To improve the conservation of resources using the skills. ❖ To apply technical tools in the aspects of agricultural works. ❖ To adequate various technical designs of irrigation systems. ❖ To inculcate the basic knowledge of agricultural field. ❖ To co-ordinate various technological equipments using the agricultural field in the form of water conservation, Irrigation and drainage system. | | | | | | | |
| Expected Outcome | <p>Upon successful completion of this course, the student will be able to:</p> <ul style="list-style-type: none"> ❖ Understand the basic knowledge of agriculture. ❖ Extract knowledge about the various agricultural equipments. ❖ Understand about the different equipments used for irrigation, drainage and irrigation systems. | | | | | | | |
| Teaching Methodology | Outdoor | | | | | | | |
| Syllabus/Components | <p>Unit I:Principles of crop production Definition and scope of agronomy, classification of crops on different basis, General principles of crop production : climate, soil and its preparation ,seed and seed sowing, post – sowing tillage,water management, plant protection measures, harvesting, threshing and storage, crop sequences and systems with emphasis on mixed cropping and inter cropping etc.,</p> <p>Unit II Fundamentals of soil science Definition of soil, components of soil and their role in agriculture, soil forming rocks and minerals, soil formation, physical and chemical properties of soil and their importance in agriculture etc.,</p> <p>Unit III Irrigation systems and structures Need and classification of irrigation- historical development and merits & demerits of irrigation-tank irrigation-well irrigation-types on irrigation on methods-types of impounding structures- Gravity dam – earthen dams-Arch dam- diversion head works-weirs and barrages. A case study on –smart farming with IOT.</p> | | | | | | | |
| Assessments and Evaluation | <ul style="list-style-type: none"> ❖ Attendance: Minimum 75% ❖ Model making in irrigation structures ❖ Short films and chart works ❖ Field visit , Case study, Video making , Seminar/ workshops ❖ Participation certificate submission | | | | | | | |

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| Group Number | G11 | | | Group Category | | | Service to Society Level-1 | | |
| Module Code | USS13 | | | Module Name | | | Swachh Bharat Abhiyan | | |
| Credit Details | L | 2 | T | 0 | P | 0 | C | 2 | |
| Objectives | <ul style="list-style-type: none"> ❖ To promote cleanliness and hygiene in a holistic manner. ❖ To bring improvement in the quality of life in rural areas. ❖ To encourage concept of sustainable sanitation practices. ❖ To create awareness about health and hygiene. ❖ To develop community managed sanitation systems. ❖ To encourage cost effective sanitation efforts. | | | | | | | | |
| Expected Outcome | <ul style="list-style-type: none"> ❖ Clean for solid waste management. ❖ It is everybody's responsibility and one should keep themselves and their surroundings clean and hygienic. It also brings good and positive thoughts in the mind which slows down in the occurrence of diseases. | | | | | | | | |
| Teaching Methodology | Indoor/Outdoor | | | | | | | | |
| Syllabus/Components | <ul style="list-style-type: none"> ❖ Conducting awareness program in society ❖ Planning camp regarding cleanliness ❖ Quiz programme ❖ https://swachhbharat.azurewebsites.net/#/course/course-library | | | | | | | | |
| Assessments and Evaluation | <p>Attendance: Minimum 75%</p> <p>To make videos and short films of cleanliness in rural areas, solid liquid waste management.</p> <p>Report of analysis about the present scenario- State Vs Country</p> <p>Submit a proposal copy of Swachh Bharat Abhiyan.</p> | | | | | | | | |

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| Group Number | G11 | | Group Category | | | Service to Society Level-1 | | |
| Module Code | USS14 | | Module Name | | | Gender Sensitization Programme | | |
| Credit Details | L | 0 | T | 1 | P | 1 | C | 2 |
| Objectives | <ul style="list-style-type: none"> ❖ To raise and develop social consciousness among the students ❖ To understand how gender roles lead to gendered division of labour. ❖ To enable participants to understand gender discrimination based on stereotyping of male and female qualities. ❖ To make the young boys and girls gender sensitive and create positive values that supports the girls and their rights. ❖ To make them understand the implicit gender based discrimination against women in a lifestyle. | | | | | | | |
| Expected Outcome | <ul style="list-style-type: none"> ❖ Upon successful completion of this course, the student will able to Identify/ recognize ❖ Gender sensitization is possible with the help of education. ❖ Education develops the leadership quality among women by self confidence and self esteem. ❖ Social awareness, political, health awareness can be better understood in the higher level with the help of higher education. | | | | | | | |
| Teaching Methodology | Indoor & Outdoor | | | | | | | |
| Syllabus/Components | <p>Unit I Introduction to Women's studies Sex and gender, socialization, definition, nature, scope and various dimensions.</p> <p>Unit II Approaches of Feminism Feminist ideology, Masculinity & Feminity, Feminism and patriarchy.</p> <p>Unit III Basic concepts of Gender and society Sexual division of labour – man and women relationship, self awareness – consciousness raising human rights – constitutional laws and fundamental rights.</p> | | | | | | | |
| Assessments and Evaluation | <ul style="list-style-type: none"> ❖ Film / Documentary screening ❖ Field visit , Group discussion and debate ❖ Awareness songs ❖ Presentation skills for personality development ❖ Attendance: Minimum 75% ❖ Participation certificate ❖ Appreciation certificate | | | | | | | |

Group 12

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|----------------------------|---|---|---|----------------|---|---|------------------------------|---|--|
| Group Number | G12 | | | Group Category | | | Employability Course Level-3 | | |
| Module Code | UES15 | | | Module Name | | | GATE Coaching-2 | | |
| Credit Details | L | 1 | T | 0 | P | 1 | C | 1 | |
| Objectives | <ul style="list-style-type: none"> ❖ To promote importance of GATE exam & its significance. ❖ To create conducive environment for pursuit of the Education. ❖ To motivate the students to prepare and appear for GATE exam. | | | | | | | | |
| Expected Outcome | <p>Students will be able to</p> <ul style="list-style-type: none"> ❖ Enrolment into PG/Industries/Research after scoring in GATE. ❖ Understand the technical skills for their respective engineering branches. ❖ Understand the importance of GATE exam. | | | | | | | | |
| Teaching Methodology | Indoor | | | | | | | | |
| Syllabus/Components | <ul style="list-style-type: none"> ❖ Study materials ❖ Resources ❖ Website information ❖ Online materials ❖ Last five years questions and answers ❖ Sample question papers ❖ Mock test | | | | | | | | |
| Assessments and Evaluation | <ul style="list-style-type: none"> ❖ Registration ❖ Attendance certificate from GATE coaching centre. ❖ Score card / participation certificate | | | | | | | | |

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|----------------------------|--|---|----------------|---|---|------------------------------|---|---|
| Group Number | G12 | | Group Category | | | Employability Course Level-3 | | |
| Module Code | UES16 | | Module Name | | | Placement Internships | | |
| Credit Details | L | 1 | T | 0 | P | 0 | C | 1 |
| Objectives | <ul style="list-style-type: none"> ❖ To provide career guidance about avenues open after graduation. ❖ To have good relation with recruiters & Industrial personals. | | | | | | | |
| Expected Outcome | <p>Upon completion of course, students will be able to</p> <ul style="list-style-type: none"> ❖ Get placement in any of the reputed organizations. ❖ To gain knowledge on Industry through Internship. | | | | | | | |
| Teaching Methodology | Indoor | | | | | | | |
| Syllabus/Components | <ul style="list-style-type: none"> ❖ Creating awareness about placement and Interviews. ❖ Motivate students to attend placement interviews in both on and off campus. ❖ Monitor students placement performances ❖ Resume submission ❖ Participation in 3 pre-placement talk session ❖ Placement offer in any of the core companies ❖ Internship – 3 month in any of the organization. | | | | | | | |
| Assessments and Evaluation | <ul style="list-style-type: none"> ❖ Attendance minimum – 75 % ❖ Industry / Company offer letter. ❖ Internship certificate from the organizations. | | | | | | | |

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|----------------------------|--|---|---|----------------|---|---|--------------------------------|---|--|
| Group Number | G12 | | | Group Category | | | Employability Course Level - 3 | | |
| Module Code | UES17 | | | Module Name | | | Business Plan and Development | | |
| Credit Details | L | 1 | T | 0 | P | 0 | C | 1 | |
| Objective | <ul style="list-style-type: none"> ❖ To develop sales and marketing activities ❖ To know about the government funds and schemes ❖ To develop the healthy cash flow ❖ To encourage the employee attraction and retention | | | | | | | | |
| Expected Outcome | <p>At the end of the module, the learners will be able to</p> <ul style="list-style-type: none"> ❖ Plan for a new start up of company ❖ Submit a proposal to government funding scheme ❖ Get funding from lenders and investor ❖ Gain knowledge about market | | | | | | | | |
| Teaching Methodology | Indoor | | | | | | | | |
| Syllabus/Components | <p>Unit I Introduction Business meaning – Definition – Scope of business – Risk and challenges in business – Marketing – Competitors – Innovation - Timeline</p> <p>Unit II Funding for new business Fund mobilizing for new business – Funding organizations – Venture capital funds – Government loan schemes – MSME's (Micro Small Medium Enterprises) – SME's (Small Medium Enterprises) – UYEGP (Unemployed Youth Employment Generation Program) – Collateral loan – Government subsidiary</p> <p>Unit III Procedure for new business Company name – TIN number – DIN number – Company registration – Incorporation certificate – MOA, AOA, PAN, TAN, GST, CGST – Current account</p> | | | | | | | | |
| Assessments and Evaluation | <ul style="list-style-type: none"> • Attendance: 75% • Assessment: Three pages of business plan proposal | | | | | | | | |

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|----------------------------|--|---|----------------|---|---|------------------------------------|---|---|--|
| Group Number | G12 | | Group Category | | | Employability Course Level - 3 | | | |
| Module Code | UES18 | | Module Name | | | Radio / Video Jockeying & Emceeing | | | |
| Credit Details | L | 1 | T | 0 | P | 0 | C | 1 | |
| Objective | <ul style="list-style-type: none"> ❖ To deliver news, chats with the listeners, manages contests and interview guests ❖ To enhance the creative and innovative way of writing and speaking skills of the learners ❖ To enhance the special talent related radio and video jockeying of the students | | | | | | | | |
| Expected Outcome | <p>At the end of the module, the learners can</p> <ul style="list-style-type: none"> ❖ Host both live and recorded program for radio and video ❖ Able to develop the skills of radio video jockeying & emceeing ❖ Able to hosts a talk show on the radio and television ❖ To entertain the audience | | | | | | | | |
| Teaching Methodology | Indoor | | | | | | | | |
| Syllabus/Components | <p>Unit I Radio Jockeying The basis of fluency, voice, public speaking, understanding music and general awareness – Radio Journalism – Format of Radio program – Handling live shows – Conduction of interviews – Colorful words painting in radio – Concept of medium – Difference between corporate and community radio – Current RJ’s and style - Production</p> <p>Unit II Video Jockeying Creativity – Communication skills – Networking skills – Interviewing skills – Problem solving skills – Critical thinking – Goal interviewing skills – Confidence – Ability to work under strict deadlines – Research skills – Observation skills – Interpretation skills – Ability to work under rough conditions – Ability to express ideas and thoughts</p> <p>Unit III Emceeing The role of master ceremonies – The art of testing – Presentation and perception</p> | | | | | | | | |
| Assessments and Evaluation | <ul style="list-style-type: none"> • Attendance: 75% <p>Assessment:</p> <ul style="list-style-type: none"> • Music Program , Radio talk shows, Radio Drama, Radio Gossips, Radio discussion show, Master of ceremonies, Art as a video jockey, Stand-up comedy , News reading, Mimicry. <p>All the above will be assessed based on body language, posture, voice clarity, time management, spontaneous thinking and content</p> <p>Evaluation:</p> <ul style="list-style-type: none"> ❖ Providing proof of participating in any of the above events | | | | | | | | |

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|---------------------------|---|---|---|----------------|---|---|--------------------------------|---|--|
| Group Number | G12 | | | Group Category | | | Employability Course Level - 3 | | |
| Module Code | UES19 | | | Module Name | | | Banking and Insurance | | |
| Credit Details | L | 1 | T | 0 | P | 0 | C | 1 | |
| Objectives | <ul style="list-style-type: none"> ❖ To disseminate knowledge among the students about rudiments of banking and insurance . ❖ To train and equip the students with the dexterity of skills with modern banking and insurance. ❖ To know about the various schemes in banking and insurance | | | | | | | | |
| Expected Outcome | <ul style="list-style-type: none"> ❖ Students will be able to ❖ Have basic knowledge of banking and insurance ❖ Carry out banking procedures and schemes in insurance companies ❖ Gain consciousness of lifelong saving | | | | | | | | |
| Teaching Methodology | Indoor | | | | | | | | |
| Syllabus/Components | Unit-1: Banking Definitions- Type –Functions – Transaction procedures benefits Unit-2: Insurance Definitions- Type – Importance –scheme - benefits | | | | | | | | |
| Assessment and Evaluation | <ul style="list-style-type: none"> ❖ Attendance Minimum 75 % ❖ Various banking instruments – Ex DD, cheque, Application form ❖ One page write up about any insurance scheme. | | | | | | | | |

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|---------------------------|--|---|---|----------------|---|---|---|---|--|
| Group Number | G12 | | | Group Category | | | Employability Course Level - 3 | | |
| Module Code | UES20 | | | Module Name | | | In house project for the betterment of Institute / Department | | |
| Credit Details | L | 1 | T | 0 | P | 0 | C | 1 | |
| Objectives | <ul style="list-style-type: none"> ❖ To indentify the various ways to improve the structure of department and institution. ❖ To make them understand the feasibility analysis in project management and network analysis tools for cost and time estimation. | | | | | | | | |
| Expected Outcome | <ul style="list-style-type: none"> ❖ Students able to improve to undertake problems identification , formulation and solution ❖ Managing project effectively and project planning | | | | | | | | |
| Teaching Methodology | Indoor | | | | | | | | |
| Syllabus/Components | Unit-1: Introduction about the projects, problems and rectification Unit-2: Department Quality and cleaning – interpersonal relation ship – infrastructure – amenities – resources Unit- 3 :Institutions Bus – hostel – water facility – billing ,accounts – basic facilities- administration | | | | | | | | |
| Assessment and Evaluation | <ul style="list-style-type: none"> ❖ Attendance Minimum 75 % ❖ Case study ❖ Activity <ol style="list-style-type: none"> 1. Video scenarios with discussion 2. Project/ Models | | | | | | | | |

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|----------------------|--|---|----------------|---|---|------------------------------|---|---|
| Group Number | G12 | | Group Category | | | Employability Course Level-2 | | |
| Module Code | UES09 / UES21 | | Module Name | | | UPSC Exam Training | | |
| Credit Details | L | 1 | T | 1 | P | 0 | C | 2 |
| Objectives | <ul style="list-style-type: none"> ❖ To assist the aspirants to frame an accurate and separate strategy and plan at every level of examination, i.e., preliminary ,main and Interview. ❖ To focus at the students belongs to the weaker section of the society and help them to be the part of the mainstream of the society. | | | | | | | |
| Expected Outcome | <p>Student will be able to</p> <ul style="list-style-type: none"> ❖ Understand the section for the preliminary examination and the main examination, as periodic revision of syllabus. | | | | | | | |
| Teaching Methodology | Indoor and Outdoor | | | | | | | |
| Syllabus/Components | <p>Unit I : Introduction About UPSC, age limit, eligibility & number of attempts in the exam category wise, month of notification and registration process.</p> <p>Unit II : UPSC Examinations</p> <p>I - All India civil services – IAS , IFS , IRS</p> <p>II - Group A services or central services</p> <ol style="list-style-type: none"> 17. Indian P&T accounts & finance service 18. Indian Audit & Accounts service 19. Indian Revenue service (customs & central exercise) 20. Indian Defense Accounts service 21. Indian Revenue service (I.T) or IRS 22. Indian ordnance factories service (Assistant Work Manager, administration) 23. Indian Portal Service 24. Indian Civil accounts service 25. Indian railway traffic service 26. Indian railway accounts service 27. Indian railway personal service 28. Indian railway protection service 29. Indian defense estates service 30. Indian information service 31. Indian trade service 32. Indian corporate law service <p>III – List of B services or state services</p> <ol style="list-style-type: none"> 5. Armed force head quarters civil service | | | | | | | |

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| | <p>6. Delhi, Andaman & Nicobar Islands, Lakshadweep, Daman & diu and Dadra & Nagar Haveli civil service.</p> <p>7. Delhi, Andaman & Nicobar Islands, Lakshadweep, Daman & diu and Dadra & Nagar Haveli police service.</p> <p>8. Pondicherry civil & police service</p> <p>Other UPSC Service Exams</p> <p>10. Engineering service examination (CIVIL, MECH, EEE,ECE)</p> <p>11. Geological examination.</p> <p>12. Special class Railway apprentices exam</p> <p>13. National defense & Naval academy</p> <p>14. Combined defense service examination. (CAPF, BCI, CRPF,CISF, ITBP, SSB)</p> <p>15. Combined medical services examination</p> <p>16. Indian economic / statistical service</p> <p>17. Stenographer departmental competitive exam</p> <p>18. Central police forces</p> <p>Unit III : Preparation strategy</p> <p>Comprehensive coverage of UPSC syllabus, make a note of completion, make a habit of reading newspapers daily, practice with previous year question papers, plan to improve time – management & had multiple revisions.</p> |
| Assessments and Evaluation | Submission of report on competitive exams. |

DHANALAKSHMI SRINIVASAN ENGINEERING COLLEGE



(AUTONOMOUS)

(Approved by AICTE & Affiliated to Anna University, Chennai)

Accredited with 'A' Grade by NAAC, Accredited by TCS

Accredited by NBA with BME, ECE & EEE

PERAMBALUR - 621 212. Tamil Nadu.

website : www.dsengg.ac.in



DEPARTMENT OF ELECTRONICS AND COMMUNICATION ENGINEERING

VISION

To be a centre of repute for Higher Learning and Research to cater the knowledge in Electronics and Communication field to the ever growing needs of Industries and to facilitate the transformation of Students into good Human beings.

MISSION

M1: Develop life-long learning skills that allow them to be adaptive and responsive to changes in society, technology and the environment, as well as career demands.

M2: Promote a research activity through constant interaction with research organization and industries.

M3: Instigate our students to become responsible citizens and competent professionals with high ethical values.

M4: Enable students to develop skills to solve complex technological problems of real time and also provide a framework for promoting collaborative and multidisciplinary activities.

PROGRAM EDUCATIONAL OBJECTIVES (PEOS)

PEO1: An in-depth knowledge and demonstrations related to the core area of Electronics and Communication Engineering, starting from the basics to the level of analysis, synthesis and design of circuits and systems, in addition to the exposure on latest advancements in the field.

PEO2: Knowledge of recent design trends and adapt to new Technologies through Lifelong Learning.

PEO3: Technical knowledge, ethical values for Professional development of the Student to solve complex problems and to work in multi-disciplinary ambience, whose solutions lead to significant societal benefits.

PEO4: Motivation to pursue Higher studies so that they can contribute to the teaching Profession, Research and Development of Electronics and Communication Engineering.

PROGRAM SPECIFIC OUTCOMES (PSOS)

PSO1: Fabrication of Electronic Components: Graduates of the program will design a hardware model in real time applications using Embedded technology and fabricate Electronic equipment used in Communication Industries.

PSO2: Usage of Tools: Graduates can exploit tools like Xilinx, Tanner, IE3D, Labview, MATLAB, ModelSim, Keil and OrCAD to meet desired specifications with realistic constraints such as manufacturability and sustainability.

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INSTITUTE VISION & MISSION

VISION

An active and committed centre of advanced learning focused on research and training in the fields of Engineering, Technology and Management to serve the nation better.

MISSION

- To develop eminent scholar with a lifelong follow up of global standards by offering UG,PG and Doctoral Programmes.
- To pursue Professional and Career growth by collaborating mutually beneficial partnership with industries and higher institutes of research.
- To promote sustained research and training with emphasis on human values and leadership qualities.
- To contribute solutions for the need based issues of our society by proper ways and means as dutiful citizen.