# I Semester - BE

Communicative English			
Course Code	21EGH18	CIE Marks	50
Teaching Hours/Week (L:T:P: S)	2:0:0 Hours	SEE Marks	50
Total Hours of Pedagogy	02 Hours/Week	Total Marks	100
Credits	02	Exam Hours	02 hours

# **Course objectives:**

The course (21EGH18) will enable the students,

- To know about Fundamentals of Communicative English and Communication Skills in general.
- To train to identify the nuances of phonetics, intonation and enhance pronunciation skills for better communication skills.
- To impart basic English grammar and essentials of important language skills.
- To enhance English vocabulary and language proficiency for better communication skills.
- To learn about Techniques of Information Transfer through presentation.

**Language Lab :**To augment LSRW, grammar, and Vocabulary skills (Listening, Speaking, Reading, Writing and Grammar, Vocabulary) through tests, activities, exercises etc., comprehensive web-based learning and assessment systems can be referred as per the AICTE /VTU guidelines.

# **Teaching-Learning Process (General Instructions)**

These are sample Strategies, which teacher can use to accelerate the attainment of the various course outcomes.

- 1. Teachers shall adopt suitable pedagogy for effective teaching learning process. The pedagogy shall involve the combination of different methodologies which suit modern technological tools and software's to meet the present requirements of the Global employment market.
  - (i) Direct instructional method ( Low /Old Technology),
  - (ii) Flipped classrooms (High/advanced Technological tools),
  - (iii) Blended learning ( combination of both),
  - (iv) Enquiry and evaluation based learning,
  - (v) Personalized learning,
  - (vi) Problems based learning through discussion,
  - (vii) Following the method of expeditionary learning Tools and techniques,
  - (viii) Use of audio visual methods through language Labs in teaching of of LSRW skills.
- 2. Apart from conventional lecture methods, various types of innovative teaching techniques through videos, animation films may be adapted so that the delivered lesson can progress the students In theoretical applied and practical skills in teaching of communicative skills in general.

# **Module-1**

#### Introduction to Communicative English:

Introduction, Language as a Tool, Fundamentals of Communicative English, Process of Communication, Barriers to Effective Communicative English, Different styles and levels in Communicative English (Communication Channels). Interpersonal and Intrapersonal Communication Skills, How to improve and Develop Interpersonal and Intrapersonal Communication Skills.

Teaching- Learning Process	Chalk and talk method, Videos, PowerPoint presentation to teach Communication skills (LSRW Skills), Creating real time stations in classroom discussions, Giving activities and assignments (Connecting Campus & community with companies real time situations).	
Module-2		

#### **Introduction to Phonetics :**

Introduction, Phonetic Transcription, English Pronunciation, Pronunciation Guidelines Related to consonants and vowels, Sounds Mispronounced, Silent and Non-silentLetters, Syllables and Structure, Word Accent and Stress Shift, – Rules for Word Accent, Intonation – purposes of intonation, Spelling Rules and Words often Misspelt – Exercises on it.Common Errors in Pronunciation.

Teaching-	Chalk and talk method, Videos, PowerPoint presentation and Animation videos to teach phonetics
Learning	in Practical method, creating real time stations in classroom discussions, Giving activities and
Process	assignments (Connecting Campus & community with companies real time situations).

#### Module-3

#### Basic English Communicative Grammar and Vocabulary PART - I :

Grammar: Basic English Grammar and Parts of Speech - Nouns, Pronouns, Adjectives, Verbs, Adverbs, Conjunctions, Articles and Preposition. Preposition, kinds of Preposition and Prepositions often Confused. Articles: Use of Articles – Indefinite and Definite Articles, Pronunciation of '*The*', words ending '*age*', some plural forms. Introduction to Vocabulary, All Types of Vocabulary –Exercises on it.

Teaching-<br/>LearningChalk and talk method, Videos, PowerPoint presentation to teach Grammar, Animation videos on<br/>communication and language skills, creating real-time stations in classroom discussions, Giving<br/>activities and assignments (Connecting Campus & community with companies real time situations).Module 4

#### Module-4

#### Basic English Communicative Grammar and Vocabulary PART - II:

Question Tags, Question Tags for Assertive Sentences (Statements) – Some Exceptions in Question Tags and Exercises, One Word Substitutes and Exercises. Strong and Weak forms of words, Words formation - Prefixes and Suffixes (Vocabulary), Contractions and Abbreviations. Word Pairs (Minimal Pairs) – Exercises, Tense and Types of tenses, The Sequence of Tenses (Rules in use of Tenses) and Exercises on it.

Teaching-	Chalk and talk method, PowerPoint presentation to teach Grammar and phonetics, Animation
0	videos on communication and language skills, creating real time stations in classroom discussions,
Learning	Giving activities and assignments (Connecting Campus & community with companies real time
Process	situations).

#### Module-5

#### **Communication Skills for Employment:**

Information Transfer: Oral Presentation - Examples and Practice. Extempore / Public Speaking, Difference between Extempore / Public Speaking, Communication Guidelines for Practice.Mother Tongue Influence (MTI) – South Indian Speakers, Various Techniques for Neutralization of Mother Tongue Influence – Exercises.Reading and Listening Comprehensions – Exercises.

ľ	Teaching-	Chalk and talk method, Videos, PowerPoint presentation to teach Grammar and phonetics,
	0	Animation videos on communication and language skills, creating real time stations in classroom
	Learning	discussions, Giving activities and assignments (Connecting Campus & community with companies
	Process	real time situations).

# **Course outcome (Course Skill Set)**

At the end of the course(21EGH18) the student will be able to :

- 1. Understand and apply the Fundamentals of Communication Skills in their communication skills.
- 2. Identify the nuances of phonetics, intonation and enhance pronunciation skills.
- 3. To impart basic English grammar and essentials of language skills as per present requirement.
- 4. Understand and useall types of English vocabulary and language proficiency.
- 5. AdopttheTechniques of Information Transfer through presentation.

#### Assessment Details (both CIE and SEE)

(methods of CIE need to be defined topic wise i.e.- MCQ, Quizzes, written test, Reports writing, Seminar and activities). Continuous internal evaluation (CIE) needs to be conducted for 50 marks like Engineering courses. The weight age of Continuous Internal Evaluation (CIE) is 50% and for Semester End Exam (SEE) is 50%. The student has to obtain a minimum of 40% of maximum marks in CIE and 35% of maximum marks in SEE to pass. MCQ. Overall a student has to secure 40% of the maximum marks of course (CIE+SEE). The pattern (Multiple Choice Questions) Semester End Exam (SEE) is conducted for 50 marks (120 minutes duration). Based on this grading will be awarded.

# Continuous Internal Evaluation (CIE) :

#### Three Unit Tests each of **20 Marks (duration 01 hour**)

- 1. First test at the end of  $5^{th}$  week of the semester
- 2. Second test at the end of the  $10^{th}$  week of the semester
- 3. Third test at the end of the  $15^{th}$  week of the semester

All the tests are preferred similar to SEE pattern; however, teacher may follow test pattern similar to other theory courses of Engineering

Two assignments each of 10 Marks

- 4. First assignment at the end of 4<sup>th</sup> week of the semester
- 5. Second assignment at the end of 9<sup>th</sup> week of the semester

Report writing /Group discussion/Seminar any one of three suitably planned to attain the COs and POs for **20 Marks (duration 01 hours)** 

6. At the end of the  $13^{th}$  week of the semester

The sum of three tests, two assignments, and quiz/seminar/group discussion will be out of 100 marks and will be **scaled down to 50 marks** 

CIE methods /question paper is designed to attain the different levels of Bloom's taxonomy as per the outcome defined for the course.

#### Semester End Examination (SEE) :

SEE paper will be set for 100 questions of each of 01 marks. The pattern of the question paper is MCQ. The time allotted for SEE is 120 minutes. Marks scored are scaled down to 50 Marks. *(Time duration may be made 90 minutes to train the students for engineering / non-engineering competitive examination)* 

- 1. Communicative English has become a very important component in all engineering and nonengineering competitive examinations. In exams like GRE, TOEFL, IELTS and GATE exam, all state and Central Government recruitment examinations, placement tests and other Examinations, so the pattern of question paper, in general, will be in a multiple-choice question (MCQ) Pattern. So, to meet the relevance of the recruitment requirement of our Engineering students "Communicative English" Semester end examination (SEE) will be conducted in a multiple choice question (MCQ) pattern.
- 2. MCQ Pattern (Multiple Choice Questions) Semester End Exam (SEE) is conducted for 50 marks (120 minutes duration).

# Suggested Learning Resources:

- 1) **Communication Skills** by Sanjay Kumar and Pushp Lata, Oxford University Press 2019.
- 2) **English for Engineers** by N.P.Sudharshana and C.Savitha, Cambridge University Press 2018.
- 3) **A Textbook of English Language Communication Skills,** Infinite Learning Solutions–(Revised Edition) 2021.
- 4) A Course in Technical English–D Praveen Sam, KN Shoba, Cambridge University Press 2020.
- 5) **Technical Communication** by Gajendra Singh Chauhan and Et al, Cengage learning India Pvt Limited [Latest Revised Edition] 2019.
- 6) English Language Communication Skills Lab Manual cum Workbook, Cengage learning India Pvt Limited [Latest Revised Edition] – 2019.
- 7) **Practical English Usage** by Michael Swan, Oxford University Press 2016.
- 8) **Technical Communication** Principles and Practice, Third Edition by Meenakshi Raman and Sangeetha Sharma, Oxford University Press 2017.

# Activity Based Learning (Suggested Activities in Class)/ Practical Based learning

- ✓ Contents related activities (Activity-based discussions)
- $\checkmark$  For active participation of students instruct the students to prepare Flowcharts and Handouts
- $\checkmark$  Organising Group wise discussions Connecting to placement activities
- ✓ Quizzes and Discussions
- ✓ Seminars and assignments

# **Professional Writing Skills in English**

# II Semester - BE

# **Professional Writing Skills in English**

Course Code	21EGH28	CIE Marks	50
Teaching Hours/Week (L:T:P: S)	2:0:0	SEE Marks	50
Total Hours of Pedagogy	02 Hours/Week	Total Marks	100
Credits	02	Exam Hours	2 hour

# **Course objectives:**

The course (21EGH28) will enable the students ,

- To Identify the Common Errors in Writing and Speaking of English.
- To Achieve better Technical writing and Presentation skills for employment.
- To read Technical proposals properly and make them to Write good technical reports.
- Acquire Employment and Workplace communication skills.
- To learn about Tequniqes of Information Transfer through presentation in different level.

Language Lab: To augment LSRW, grammar and Vocabulary skills (Listening, Speaking, Reading,

Writing and Grammar, Vocabulary) through tests, activities, exercises etc., comprehensive web-based learning and

assessment systems can be referred as per the AICTE / VTU guidelines.

# **Teaching-Learning Process (General Instructions)**

These are sample Strategies, which teacher can use to accelerate the attainment of the various course outcomes.

- Teachers shall adopt suitable pedagogy for effective teaching learning process. The pedagogy shall involve the combination of different methodologies which suit modern technological tools and software's to meet the present requirements of the Global employment market.
  - (i) Direct instructional method ( Low /Old Technology),
  - (ii) Flipped classrooms (High/advanced Technological tools),
  - (iii) Blended learning ( combination of both),
  - (iv) Enquiry and evaluation based learning,
  - (v) Personalized learning,
  - (vi) Problems based learning through discussion,
  - (vii) Following the method of expeditionary learning Tools and techniques,
  - (viii) Use of audio visual methods through language Labs in teaching of of LSRW skills.
- ✓ Apart from conventional lecture methods, various types of innovative teaching techniques through videos, animation films may be adapted so that the delivered lesson can progress the students In theoretical applied and practical skills in teaching of communicative skills in general.

# Module-1

#### Identifying Common Errors in Writing and Speaking English:

- Advanced English Grammar for Professionals with exercises, Common errors identification in parts of speech, Use of verbs and phrasal verbs, Auxiliary verbs and their forms, Subject Verb Agreement (Concord Rules with Exercises).
- Common errors in Subject-verb agreement, Noun-pronoun agreement, Sequence of Tenses and errors identification in Tenses. Advanced English Vocabulary and its types with exercises Verbal Analogies, Words Confused/Misused.

# Teaching -<br/>Learning<br/>ProcessChalk and talk method, Power Point presentation to teach Communication skills (LSRW Skills),<br/>Creating real time stations in classroom discussions, Giving activities and assignments (Connecting<br/>Campus & community with companies real time situations).

Module-2				
Nature and	Style of sensible writing :			
• Organizing Principles of Paragraphs in Documents, Writing Introduction and Conclusion, Importance of				
Proper Punctuation, The Art of Condensation (Precise writing) and Techniques in Essay writing, Common				
Error	Errors due to Indianism in English Communication, Creating Coherence and Cohesion, Sentence			
arran	gements exercises, Practice of Sentence Corrections activities. Importance of Summarising and			
Parap	bhrasing.			
• Mispl	aced modifiers, Contractions, Collocations, Word Order, Errors due to the Confusion of words,			
	non errors in the use of Idioms and phrases, Gender, Singular & Plural. Redundancies & Clichés.			
Teaching-	Chalk and talk method, PowerPoint presentation and Animation videos to teach phonetics in			
Learning	Practical method, creating real time stations in classroom discussions, Giving activities and			
Process	assignments (Connecting Campus & community with companies real time situations).			
Module-3				
	Reading and Writing Practices :			
	ing Process and Reading Strategies, Introduction to Technical writing process,			
	erstanding of writing process, Effective Technical Reading and Writing Practices , Introduction to			
	nical Reports writing, Significance of Reports, Types of Reports.			
	duction to Technical Proposals Writing, Types of Technical Proposals, Characteristics of Technical			
-	osals. Scientific Writing Process.			
	mar – Voice and Speech (Active and Passive Voices) and Reported Speech, Spotting Error Exercises,			
	nce Improvement Exercises, Cloze Test and Theme Detection Exercises.			
Teaching-	Chalk and talk method, Power Point presentation to teach Grammar, Animation videos on			
Learning	communication and language skills, creating real time stations in classroom discussions, Giving			
<b>Process</b> activities and assignments (Connecting Campus & community with companies real time situation				
Module-4				
	l Communication for Employment :			
	istening Comprehension, Importance of Listening Comprehension, Types of Listening, Understanding			
	nterpreting, Listening Barriers, Improving Listening Skills. Attributes of a good and poor listener.			
	ng Skills and Reading Comprehension, Active and Passive Reading, Tips for effective reading.			
-	aring for Job Application, Components of a Formal Letter, Formats and Types of official, employment,			
	ess Letters, Resume vs Bio Data, Profile, CV and others, Types of resume, Writing effective resume			
	nployment, Model Letter of Application (Cover Letter) with Resume, Emails, Blog Writing, Memos			
(Type	es of Memos) and other recent communication types.			
Teaching-	Chalk and talk method, PowerPoint presentation to teach Grammar and phonetics, Animation videos on communication and language skills, creating real time stations in classroom discussions,			
Learning	Giving activities and assignments (Connecting Campus & community with companies real time			
Process	situations).			
Module-5	Studionsj.			
	l Communication at Workplace :			
	p Discussions – Importance, Characteristics, Strategies of a Group Discussions. Group			
	issions is a Tool for Selection. Employment/ Job Interviews - Importance, Characteristics,			
Strat	egies of a Employment/ Job Interviews. Intra and Interpersonal Communication Skills -			
Impo	ortance, Characteristics, Strategies of a Intra and Interpersonal Communication Skills. Non-			
Verb	al Communication Skills (Body Language) and its importance in GD and PI/JI/EI.			
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• Presentation skills and Formal Presentations by Students - Importance, Characteristics, Strategies of Presentation Skills. Dialogues in Various Situations (Activity based Practical Sessions in class by Students).

# **Professional Writing Skills in English**

Teaching<br/>Learning<br/>ProcessChalk and talk method, Power Point presentation to teach Grammar and phonetics, Animation<br/>videos on communication and language skills, creating real time stations in classroom discussions,<br/>Giving activities and assignments (Connecting Campus & community with companies real time<br/>situations).

# **Course outcome (Course Skill Set)**

At the end of the course (21EGH28) the student will be able :

- 1. To understand and identify the Common Errors in Writing and Speaking.
- 2. To Achieve better Technical writing and Presentation skills.
- 3. To read Technical proposals properly and make them to Write good technical reports.
- 4. Acquire Employment and Workplace communication skills.
- 5. To learn about Techniques of Information Transfer through presentation in different level.

#### Assessment Details (both CIE and SEE)

Continuous internal evaluation (CIE) needs to be conducted for 50 marks like Engineering courses. The weight age of Continuous Internal Evaluation (CIE) is 50% and for Semester End Exam (SEE) is 50%. The student has to obtain a minimum of 40% of maximum marks in CIE and 35% of maximum marks in SEE to pass. MCQ Pattern (Multiple Choice Questions) Semester End Exam (SEE) is conducted for 50 marks (120 minutes duration). Based on this grading will be awarded.

#### Continuous Internal Evaluation (CIE) :

Three Unit Tests each of 20 Marks (duration 01 hour)

- 1. First test at the end of  $5^{th}$  week of the semester
- 2. Second test at the end of the  $10^{th}$  week of the semester
- 3. Third test at the end of the  $15^{th}$  week of the semester

All the tests are preferred similar to SEE pattern; however, the teacher may follow test pattern similar to other theory courses of Engineering

Two assignments each of 10 Marks

- 4. First assignment at the end of 4<sup>th</sup> week of the semester
- 5. Second assignment at the end of  $9^{th}$  week of the semester

Report writing /Group discussion/Seminar any one of three suitably planned to attain the COs and POs for **20 Marks (duration 01 hours)** 

6. At the end of the  $13^{th}$  week of the semester

The sum of three tests, two assignments, and quiz/seminar/group discussion will be out of 100 marks and will be **scaled down to 50 marks** 

CIE methods /question paper is designed to attain the different levels of Bloom's taxonomy as per the outcome defined for the course.

# Semester End Examination (SEE) :

SEE paper will be set for 100 questions of each of 01 marks. The pattern of the question paper is MCQ. The time allotted for SEE is 120 minutes. Marks scored are scaled down to 50 Marks. *(Time duration may be made 90 minutes to train the students for engineering / non-engineering competitive examination)* 

- Professional Writing Skills in English has become a very important component in all engineering and non-engineering competitive examinations. In exams like GRE, TOEFL, IELTS and GATE exam, all state and Central Government recruitment examinations, placement tests and other Examinations, so the pattern of question paper, in general, will be in multiple-choice question (MCQ) Pattern. So, to meet the relevance of the recruitment requirement of our Engineering students "Professional writing skill in English" Semester end examination (SEE) will be conducted in a multiple choice question (MCQ) pattern.
- 2. MCQ Pattern (Multiple Choice Questions) Semester End Exam (SEE) is conducted for 50 marks (120 minutes duration).

#### **Suggested Learning Resources :**

- 1. A Course in Technical English, Cambridge University Press 2020.
- 2. Functional English (As per AICTE 2018 Model Curriculam) Cengage learning India Pvt Limited [Latest Revised Edition] 2020.
- Communication Skills by Sanjay Kumar and Pushp Lata, Oxford University Press 2018. Refer it's workbook for activities and exercises "Communication Skills I (A Workbook)" published by Oxford University Press 2018.
- 4. Professional Writing Skills in English, Infinite Learning Solutions (Revised Edition) 2021.
- **5. Technical Communication** Principles and Practice, Third Edition by Meenakshi Raman and Sangeetha Sharma, Oxford University Press 2017.
- 6. High School English Grammar & Composition by Wren and Martin, S Chandh & Company Ltd 2015.
- **7. Effective Technical Communication** Second Edition by M Ashraf Rizvi, McGraw Hill Education (India) Private Limited 2018.
- 8. Intermediate Grammar, Usage and Composition by M.L.Tichoo, A.L.Subramanian, P.R.Subramanian, Orient Black Swan 2016.

#### Activity Based Learning (Suggested Activities in Class) / Practical Based learning

- ✓ Contents related activities (Activity-based discussions)
- ✓ For active participation of students instruct the students to prepare Flowcharts and Handouts
- ✓ Organising Group wise discussions Connecting to placement activities
- ✓ Quizzes and Discussions, Seminars and assignments

#### II Semester – AEC Course

# Scientific Foundations of Health

Course Code	21SFH19/29	CIE Marks	50	
Teaching Hours/Week (L:T:P: S)	1:0:0	SEE Marks	50	
Total Hours of Pedagogy	02 Hours/Week	Total Marks	100	
Credits	01	Exam Hours	60 Minutes / 01 Hour	

# **Course objectives:**

The course 21**SFH29** will enable the students:

- To know about Health and wellness (and its Beliefs)
- To acquire Good Health & It's balance for positive mind-set
- To Build the healthy lifestyles for good health for their better future
- To Create of Healthy and caring relationships to meet the requirements of MNC and LPG world
- To learn about Avoiding risks and harmful habits in their campus and outside the campus for their bright future
- To Prevent and fight against harmful diseases for good health through positive mindset

# **Teaching-Learning Process (General Instructions)**

These are sample Strategies, which teacher can use to accelerate the attainment of the various course outcomes.

- Teachers shall adopt suitable pedagogy for effective teaching learning process. The pedagogy shall involve the combination of different methodologies which suit modern technological tools and software's to meet the present requirements of the Global employment market.
  - (i) Direct instructional method ( Low /Old Technology),
  - (ii) Flipped classrooms (High/advanced Technological tools),
  - (iii) Blended learning ( combination of both),
  - (iv) Enquiry and evaluation based learning,
  - (v) Personalized learning,
  - (vi) Problems based learning through discussion,
  - (vii) Following the method of expeditionary learning Tools and techniques,
- ✓ Apart from conventional lecture methods, various types of innovative teaching techniques through videos, animation films may be adapted so that the delivered lesson can progress the students In theoretical applied and practical skills in teaching of the concepts of Health and Wellness in general.

# Module-1

#### Good Health and It's balance for positive mindset:

What is Health, Why Health is very important Now? – What influences your Health?, Health and Behaviour, Health beliefs and advertisements, Advantages of good health (Short term and long term benefits), Health and Society, Health and family, Health and Personality - Profession. Health and behaviour, Disparities of health in different vulnerable groups. Health and psychology, Methods to improve good psychological health. Psychological disorders (Stress and Health - Stress management), how to maintain good health, Mindfulness for Spiritual and Intellectual health, Changing health habits for good health. Health and personality.

Teaching-Learning Process	Chalk and talk method, Power Point presentation and YouTube videos, Animation videos methods. creating real time stations in classroom discussions. Giving activities &assignments.
Module-2	

	<u>y lifestyles for better future:</u>			
	healthy diet for good health, Food and health, Nutritional guidelines for good health and well			
beingness, Obesity and overweight disorders and its management, Eating disorders - proper exercises for				
	ce (Physical activities for health), Fitness components for health, Wellness and physical			
function,	Chalk and talk method, PowerPoint presentation and YouTube videos, Animation videos			
Teaching-Learning	methods. creating real time stations in classroom discussions. Giving activities			
Process	&assignments.			
Module-3				
<b>Creation of Health</b>	ny and caring relationships :			
Building comm	nunication skills (Listening and speaking), Friends and friendship - education, the value of			
•	and communication, Relationships for Better or worsening of life, understanding of basic			
instincts of life	e (more than a biology), Changing health behaviours through social engineering,			
Teaching-Learning	Chalk and talk method, PowerPoint presentation and Animation videos methods. creating			
Process	real time stations in classroom discussions. Giving activities and assignments.			
Module-4				
Avoiding risks and	<u>d harmful habits :</u>			
0	s of health compromising behaviors, Recognizing and avoiding of addictions, How addiction			
develops and	addictive behaviors, Types of addictions, influencing factors for addictions, Differences			
between addie	ctive people and non addictive people and their behavior with society, Effects and health			
hazards from	addictions Such as, how to recovery from addictions.			
Teaching-Learning	Chalk and talk method, PowerPoint presentation and Animation videos methods. creating			
Process	real time stations in classroom discussions. Giving activities and assignments.			
Module-5				
	<u>ghting against diseases for good health :</u>			
	ections and reasons for it, How to protect from different types of transmitted infections such			
as,				
health,	s of socio economic impact of reducing your risk of disease, How to reduce risks for good			
	and coping with chronic conditions, Management of chronic illness for Quality of life,			
-	ellness of youth : a challenge for the upcoming future Measuring of health and wealth status.			
	Chalk and talk method, PowerPoint presentation and YouTube videos, Animation videos			
Teaching-Learning Process	methods. creating real time stations in classroom discussions. Giving activities &			
FIDCESS	assignments.			
Course outcom	e (Course Skill Set)			
	e the student will be able :			
CO 1: To understand H	ealth and wellness (and its Beliefs)			
CO 2: To acquire Good	Health & It's balance for positive mindset			
	develop the healthy lifestyle habits for good health.			
	thy and caring relationships to meet the requirements of MNC and LPG world			
-	ovative & positive methods to avoid risks from harmful habits in their campus & outside the			
campus.				

CO 6: To positively fight against harmful diseases for good health through positive mindset.

#### Assessment Details (both CIE and SEE)

methods of CIE need to be defined topic wise i.e.- Tests, MCQ, Quizzes, Seminar or micro project/Course Project, Term Paper)

The weightage of Continuous Internal Evaluation (CIE) is 50% and for Semester End Exam (SEE) is 50%. The student has to obtain a minimum of 35% of maximum marks in SEE and a minimum of 40% of maximum marks in CIE. Semester End Exam (SEE) is conducted for 50 marks ( hours' duration). Based on this grading will be awarded.

The student has to score a minimum of 40% (40 marks out of 100) in the sum total of the CIE (Continuous Internal Evaluation) and SEE (Semester End Examination) taken together.

#### **Continuous Internal Evaluation**:

Three Unit Tests each of **20 Marks (duration 01 hour)** 

- 1. First test at the end of  $5^{th}$  week of the semester
- 2. Second test at the end of the  $10^{th}$  week of the semester
- 3. Third test at the end of the  $15^{th}$  week of the semester

# (All testsare similar to the SEE pattern i.e question paper pattern is MCQ)

Two assignments each of **10 Marks** 

- 4. First assignment at the end of 4<sup>th</sup> week of the semester
- 5. Second assignment at the end of 9<sup>th</sup> week of the semester

Report writing /Group discussion/Seminar any one of three suitably planned to attain the COs and POs for **20 Marks(duration 01 hours)** 

6. At the end of the  $13^{th}$  week of the semester

The sum of three tests, two assignments, and quiz/seminar/group discussion will be out of 100 marks and will be **scaled down to 50 marks** 

CIE methods /question paper is designed to attain the different levels of Bloom's taxonomy as per the outcome defined for the course.

Semester End Examination:

Theory SEE will be conducted by University as per the scheduled timetable, with common question papers for subject

SEE paper will be set for 50 questions of each of 01 marks. The pattern of the question paper is MCQ. The time allotted for SEE is **01 hours** 

#### Suggested Learning Resources:

- 1. **Health Psychology** (Second edition) by Charles Abraham, Mark Conner, Fiona Jones and Daryl O'Connor Published by Routledge 711 Third Avenue, New York, NY 10017.
- 2. **Health Psychology A Textbook,** FOURTH EDITION by Jane Ogden McGraw Hill Education (India) Private Limited - Open University Press
- 3. **HEALTH PSYCHOLOGY (Ninth Edition)** by SHELLEY E. TAYLOR University of California, Los Angeles, McGraw Hill Education (India) Private Limited Open University Press
- 4. Scientific Foundations of Health (Health & Welness) General Books published for university and colleges references by popular authors and published by the reputed publisher.
- 1) SWAYAM / NPTL/ MOOCS/ We blinks/ Internet sources/ YouTube videos and other materials / notes

#### Activity Based Learning (Suggested Activities in Class)/ Practical Based learning

- ✓ Contents related activities (Activity-based discussions)
- ✓ For active participation of students, instruct the students to prepare Flowcharts and Handouts
- $\checkmark$  Organizing Group wise discussions and Health issues based activities
- ✓ Quizzes and Discussions
- ✓ Seminars and assignments

#### SAMPLE TEMPLATE

#### III/IV Semester

Constitution of India and Professional Ethics (CIP)			
Course Code	21CIP37/47	CIE Marks	50
Teaching Hours/Week (L:T:P: S)	0:2:0:1	SEE Marks	50
Total Hours of Pedagogy	25 Hours	Total Marks	100
Credits	01	Exam Hours	01 Hour

**Course objectives:** This course will enable the students

- To know the fundamental political structure & codes, procedures, powers, and duties of Indian government institutions, fundamental rights, directive principles, and the duties of citizens.
- To understand engineering ethics and their responsibilities, identify their individual roles and ethical responsibilities towards society.

#### **Teaching-Learning Process (General Instructions)**

These are sample Strategies, which teacher can use to accelerate the attainment of the various course outcomes.

- Teachers shall adopt suitable pedagogy for effective teaching learning process. The pedagogy shall involve the combination of different methodologies which suit modern technological tools and software's to meet the present requirements of the Global employment market.
  - (i) Direct instructional method ( Low/Old Technology),
  - (ii) Flipped classrooms ( High/advanced Technological tools),
  - (iii) Blended learning ( combination of both),
  - (iv) Enquiry and evaluation based learning,
  - (v) Personalized learning,
  - (vi) Problems based learning through discussion,
  - (vii) Following the method of expeditionary learning Tools and techniques,
- **1.** Apart from conventional lecture methods, various types of innovative teaching techniques through videos, animation films may be adapted so that the delivered lesson can enhance the students in theoretical applied and practical skills in teaching of 21CIP39/49 in general.

Module - 1	
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**Introduction to Indian Constitution:** Definition of Constitution, Necessity of the Constitution, Societies before and after the Constitution adoption. Introduction to the Indian constitution, Making of the Constitution, Role of the Constituent Assembly. Preamble of Indian Constitution & Key concepts of the Preamble. Salient features of India Constitution.

Teaching-	Chalk and talk method, Videos, Power Point presentation to teach. Creating real time stations in
Learning	classroom discussions, Giving activities and assignments (Connecting Campus & community with
Process	administration real time situations).

Module - 2

**Fundamental Rights (FR's), Directive Principles of State Policy (DPSP's) and Fundamental Duties (FD's) :** Fundamental Rights and its Restriction and limitations in different Complex Situations. DPSP's and its present relevance in Indian society. Fundamental Duties and its Scope and significance in Nation building.

Teaching-	Chalk and talk method, Videos, Power Point presentation to teach. Creating real time stations in
Learning	classroom discussions, Giving activities and assignments (Connecting Campus & community with
Process	administration real time situations).

Module - 3 Union Executive : Parliamentary System, Union Executive – President, Prime Minister, Union Cabinet, Parliament - LS and RS, Parliamentary Committees, Important Parliamentary Terminologies. Supreme Court of India, Judicial Reviews and Judicial Activism.

Teaching-	Chalk and talk method, Videos, Power Point presentation to teach. Creating real time stations in
Learning	classroom discussions, Giving activities and assignments (Connecting Campus & community with
Process	administration real time situations).

#### SAMPLE TEMPLATE

Module - 4

**State Executive & Elections, Amendments and Emergency Provisions:** State Executive, Election Commission, Elections & Electoral Process. Amendment to Constitution (Why and How) and Important Constitutional Amendments till today. Emergency Provisions.

Teaching-	Chalk and talk method, Videos, Power Point presentation to teach. Creating real time stations in	
Learning	classroom discussions, Giving activities and assignments (Connecting Campus & community with	
Process	administration real time situations).	
Module-5		

**Professional Ethics:** Definition of Ethics & Values. Professional & Engineering Ethics. Positive and Negative aspects of Engineering Ethics. Clash of Ethics, Conflicts of Interest. The impediments to Responsibility. Professional Risks, Professional Safety and liability in Engineering. Trust & Reliability in Engineering, Intellectual Property Rights (IPR's).

Teaching-	Chalk and talk method, Videos, Power Point presentation to teach. Creating real time stations in
Learning	classroom discussions, Giving activities and assignments (Connecting Campus & community with
Process	administration real time situations).

#### Course outcome (Course Skill Set)

At the end of the course the student should :

CO 1: Have constitutional knowledge and legal literacy.

CO 2: Understand Engineering and Professional ethics and responsibilities of Engineers.

#### **Assessment Details (both CIE and SEE)**

The weightage of Continuous Internal Evaluation (CIE) is 50% and for Semester End Exam (SEE) is 50%. The minimum passing mark for the CIE is 40% of the maximum marks that is 20 marks. A student shall be deemed to have satisfied the academic requirements and earned the credits allotted to each subject/ course if the student secures not less than 35% (18 Marks out of 50) in the semester-end examination(SEE), and a minimum of 40% (40 marks out of 100) in the sum total of the CIE and SEE taken together

#### Continuous Internal Evaluation:

#### Three Tests each of 20 Marks (duration 01 hour)

- 1. First test at the end of 5<sup>th</sup> week of the semester
- 2. Second test at the end of the  $10^{th}$  week of the semester
- 3. Third test at the end of the  $15^{th}$  week of the semester

Two assignments each of 10 Marks

- 4. First assignment at the end of 4<sup>th</sup> week of the semester
- 5. Second assignment at the end of 9<sup>th</sup> week of the semester

Group discussion/Seminar/quiz any one of three suitably planned to attain the COs and POs for **20 Marks** (duration 01 hours)

6. At the end of the  $13^{th}$  week of the semester

The sum of three tests, two assignments, and quiz/seminar/group discussion will be out of 100 marks and will be scaled down to 50 marks

# CIE methods /question paper is designed to attain the different levels of Bloom's taxonomy as per the outcome defined for the course.

#### Semester End Examination:

SEE will be conducted by University as per the scheduled timetable, with common question papers for the subject.

- The question paper will have 50 questions. Each question is set for 01 mark.
- SEE Pattern will be in MCQ Model (Multiple Choice Questions) for 50 marks. Duration of the examination is 01 Hour.

# Textbook:

1. **"Constitution of India & Professional Ethics"** Published by Prasaranga or published on VTU website with the consent of the university authorities VTU Belagavi.

#### **IV Semester**

UNIVERSAL HUMAN VALUES-II: UNDERSTANDING HARMONY and ETHICAL HUMAN CONDUCT Title of the subject

THE OTHE SUBJECT			
Course Code	21UHV49	CIE Marks	50
Teaching Hours/Week (L:T:P: S)	2:0:0	SEE Marks	50
Total Hours of Pedagogy	20	Total Marks	100
Credits	01	Exam Hours	01

#### **Course objectives:**

This introductory course input is intended:

- 1. To help the students appreciate the essential complementarity between 'VALUES' and 'SKILLS' to ensure sustained happiness and prosperity which are the core aspirations of all human beings.
- 2. To facilitate the development of a Holistic perspective among students towards life and profession as well as towards happiness and prosperity based on a correct understanding of the Human reality and the rest of existence. Such a holistic perspective forms the basis of Universal Human Values and movement towards value-based living in a natural way.
- 3. To highlight plausible implications of such a Holistic understanding in terms of ethical human conduct, trustful and mutually fulfilling human behaviour and mutually enriching interaction with Nature.

This course is intended to provide a much-needed orientational input in value education to the young enquiring minds.

#### **Teaching-Learning Process (General Instructions)**

These are sample Strategies, which teacher can use to accelerate the attainment of the various course outcomes.

- 1. The methodology of this course is explorational and thus universally adaptable. It involves a systematic and rational study of the human being vis-à-vis the rest of existence.
- 2. The course is in the form of 20 lectures (discussions)
- 3. It is free from any dogma or value prescriptions.
- 4. It is a process of self-investigation and self-exploration, and not of giving sermons. Whatever is found as truth or reality is stated as a proposal and the students are facilitated to verify it in their own right, based on their Natural Acceptance and subsequent Experiential Validation

  the whole existence is the lab and every activity is a source of reflection.
- 5. This process of self-exploration takes the form of a dialogue between the teacher and the students to begin with, and then to continue within the student in every activity, leading to continuous self-evolution.
- 6. This self-exploration also enables them to critically evaluate their pre-conditionings and present beliefs.

#### Module-1

#### **Introduction to Value Education (4 hours)**

Right Understanding, Relationship and Physical Facility (Holistic Development and the Role of Education)

Understanding Value Education, Self-exploration as the Process for Value Education, Continuous Happiness and Prosperity – the Basic Human Aspirations, Happiness and Prosperity – Current Scenario, Method to Fulfil the Basic Human Aspirations

Teaching-	Introduction to Value Education- Chalk and talk method, Discussion, Sharing of experiences,
Learning	Live Examples and videos
Process	

	Module-2	
Harmony in the	e Human Being (4 hours)	
Understanding Human being as the Co-existence of the Self and the Body, Distinguishing between		
the Needs o	f the Self and the Body, The Body as an Instrument of the Self, Understanding Harmony	
	Harmony of the Self with the Body, Programme to ensure self-regulation and Health	
Teaching- Learning Proces	Introduction to the concepts- Chalk and talk method, Discussion, Sharing of experiences, Live Examples and videos	
	Module-3	
Harmony in the	e Family and Society (4 hours)	
-	n the Family – the Basic Unit of Human Interaction, 'Trust' – the Foundational Value in	
-	ip, 'Respect' – as the Right Evaluation, Other Feelings, Justice in Human-to-Human	
Relationsh	ip, Understanding Harmony in the Society, Vision for the Universal Human Order	
Teaching-	Introduction to the concepts- Chalk and talk method, Discussion, Sharing of experiences,	
Learning	Live Examples and videos	
Process		
	Module-4	
-	e Nature/Existence (4 hours)	
	ding Harmony in the Nature, Interconnectedness, self-regulation and Mutual Fulfilment	
-	e Four Orders of Nature, Realizing Existence as Co-existence at All Levels, The Holistic	
	of Harmony in Existence	
Teaching- Learning	Introduction to the concepts- Chalk and talk method, Discussion, Sharing of experiences,	
Process	Live Examples and videos	
	Module-5	
Implications o	f the Holistic Understanding – a Look at Professional Ethics (4 hours)	
Humanistic Profession	cceptance of Human Values, Definitiveness of (Ethical) Human Conduct, A Basis for c Education, Humanistic Constitution and Universal Human Order, Competence in al Ethics Holistic Technologies, Production Systems and Management Models-Typical es, Strategies for Transition towards Value-based Life and Profession	
Teaching- Learning	Introduction to the concepts- Chalk and talk method, Discussion, Sharing of experiences, Live Examples and videos	
Process		
	(Course Skill Set)	
surroundings	of the course, students are expected to become more aware of themselves, and their (family, society, nature); they would become more responsible in life, and in handling h sustainable solutions, while keeping human relationships and human nature in mind.	
towards wha hoped that th	have better critical ability. They would also become sensitive to their commitment t they have understood (human values, human relationship and human society). It is ey would be able to apply what they have learnt to their own self in different day-to-day al life, at least a beginning would be made in this direction.	

Therefore, the course and further follow up is expected to positively impact common graduate attributes like:

- 1. Holistic vision of life
- 2. Socially responsible behaviour
- 3. Environmentally responsible work
- 4. Ethical human conduct
- 5. Having Competence and Capabilities for Maintaining Health and Hygiene
- 6. Appreciation and aspiration for excellence (merit) and gratitude for all

#### Assessment Details (both CIE and SEE)

The weightage of Continuous Internal Evaluation (CIE) is 50% and for Semester End Exam (SEE) is 50%. The minimum passing mark for the CIE is 40% of the maximum marks (20 marks). A student shall be deemed to have satisfied the academic requirements and earned the credits allotted to each subject/ course if the student secures not less than 35% (18 Marks out of 50) in the semester-end examination(SEE), and a minimum of 40% (40 marks out of 100) in the sum total of the CIE (Continuous Internal Evaluation) and SEE (Semester End Examination) taken together

#### **Continuous Internal Evaluation:**

#### Three Unit Tests each of 20 Marks (duration 01 hour)

- 1. First test at the end of 5<sup>th</sup> week of the semester
- 2. Second test at the end of the  $10^{th}$  week of the semester
- 3. Third test at the end of the  $15^{th}$  week of the semester

#### Two assignments each of 10 Marks

- 4. First assignment at the end of 4<sup>th</sup> week of the semester
- 5. Second assignment at the end of 9<sup>th</sup> week of the semester

Group discussion/Seminar/quiz any one of three suitably planned to attain the COs and POs for **20 Marks (duration 01 hours)** 

6. At the end of the 13<sup>th</sup> week of the semester

The sum of three tests, two assignments, and quiz/seminar/group discussion will be out of 100 marks and will be **scaled down to 50 marks** 

(to have less stressed CIE, the portion of the syllabus should not be common /repeated for any of the methods of the CIE. Each method of CIE should have a different syllabus portion of the course).

# CIE methods /question paper is designed to attain the different levels of Bloom's taxonomy as per the outcome defined for the course.

#### Semester End Examination:

Theory SEE will be conducted by University as per the scheduled timetable, with common question papers for the subject (**duration 01 hours**)

- 1. The question paper will have 50 questions. Each question is set for 01 marks.
- 2. The students have to answer all the questions, selecting one full question from each module

# Suggested Learning Resources: Books

#### -READINGS:

#### **Text Book and Teachers Manual**

a. The Textbook

A Foundation Course in Human Values and Professional Ethics, R R Gaur, R Asthana, G P Bagaria, 2<sup>nd</sup> Revised Edition, Excel Books, New Delhi, 2019. ISBN 978-93-87034-47-1

b. The Teacher"s Manual

Teachers" Manual for *A Foundation Course in Human Values and Professional Ethics*, R R Gaur, R Asthana, G

#### **Reference Books**

- 1. JeevanVidya: EkParichaya, A Nagaraj, JeevanVidyaPrakashan, Amarkantak, 1999.
- 2. Human Values, A.N. Tripathi, New Age Intl. Publishers, New Delhi, 2004.
- 3. The Story of Stuff (Book).
- 4. The Story of My Experiments with Truth by Mohandas Karamchand Gandhi
- 5. Small is Beautiful E. F Schumacher.
- 6. Slow is Beautiful Cecile Andrews
- 7. Economy of Permanence J C Kumarappa
- 8. Bharat Mein Angreji Raj Pandit Sunderlal
- 9. Rediscovering India by Dharampal
- 10. Hind Swaraj or Indian Home Rule by Mohandas K. Gandhi
- 11. India Wins Freedom Maulana Abdul Kalam Azad
- 12. Vivekananda Romain Rolland (English)
- 13. Gandhi Romain Rolland (English)
- 14. Sussan George, 1976, How the Other Half Dies, Penguin Press. Reprinted 1986, 1991
- 15. Donella H. Meadows, Dennis L. Meadows, Jorgen Randers, William W. Behrens III, 1972, Limits to Growth Club of Rome's report, Universe Books.
- 16. A Nagraj, 1998, Jeevan Vidya Ek Parichay, Divya Path Sansthan, Amarkantak.
- 17. P L Dhar, RR Gaur, 1990, Science and Humanism, Commonwealth Publishers.
- 18. A N Tripathy, 2003, Human Values, New Age International Publishers.
- 19. SubhasPalekar, 2000, How to practice Natural Farming, Pracheen (Vaidik) KrishiTantraShodh, Amravati.
- 20. E G Seebauer & Robert L. Berry, 2000, Fundamentals of Ethics for Scientists & Engineers , Oxford University Press
- 21. M Govindrajran, S Natrajan & V.S. Senthil Kumar, Engineering Ethics (including Human Values), Eastern Economy Edition, Prentice Hall of India Ltd.
- 22. B P Banerjee, 2005, Foundations of Ethics and Management, Excel Books.
- 23. B L Bajpai, 2004, Indian Ethos and Modern Management, New Royal Book Co., Lucknow. Reprinted 2008.

#### Web links and Video Lectures (e-Resources):

- 1. Value Education websites, https://www.uhv.org.in/uhv-ii, http://uhv.ac.in, http://www.uptu.ac.in
- 2. Story of Stuff, <u>http://www.storyofstuff.com</u>
- 3. Al Gore, An Inconvenient Truth, Paramount Classics, USA
- 4. Charlie Chaplin, Modern Times, United Artists, USA
- 5. IIT Delhi, Modern Technology the Untold Story
- 6. Gandhi A., Right Here Right Now, Cyclewala Productions
- 7. https://www.youtube.com/channel/UCQxWr5QB\_eZUnwxSwxXEkQw
- 8. https://fdp-si.aicte-india.org/8dayUHV download.php
- 9. https://www.youtube.com/watch?v=8ovkLRYXIjE
- 10. <u>https://www.youtube.com/watch?v=OgdNx0X9231</u>
- 11. <u>https://www.youtube.com/watch?v=nGRcbRpvGoU</u>
- 12. https://www.youtube.com/watch?v=sDxGXOgYEKM

Activity Based Learning (Suggested Activities in Class)/ Practical Based learning

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#### V Semester

	Environmental Studies		
Course Code	21CIV57	CIE Marks	50
Teaching Hours/Week (L:T:P: S)	1+2+0+0	SEE Marks	50
Total Hours of Pedagogy	15	Total Marks	100
Credits	01	Exam Hours	01

#### **Course objectives:**

- To create environmental awareness among the students.
- To gain knowledge on different types of pollution in the environment.

#### **Teaching-Learning Process (General Instructions)**

These are sample Strategies; which teacher can use to accelerate the attainment of the various course outcomes.

- 1. Apart from conventional lecture methods various types of innovative teaching techniques through videos, and animation films may be adopted so that the delivered lesson can progress the students in theoretical, applied and practical skills.
- 2. Environmental awareness program for the in house campus
- 3. Encourage collaborative (Group Learning) Learning in the class.
- **4**. Seminars, surprise tests and Quizzes may be arranged for students in respective subjects to develop skills.

Module-1		
Ecosystems (Structure and Function): Forest, Desert, Wetlands, River, Oceanic and Lake.		
Biodiversity: Types, Value; Hot-spots; Threats and Conservation of biodiversity, Forest Wealth,		
and Deforestation.		
Teaching-Learning Process	Chalk and talk, PowerPoint presentation and animation tools	
	Module-2	
Advances in Energy Systems (Merits, Demerits, Global Status and Applications): Hydrogen,		
Solar, OTEC, Tidal and	Wind.	
Natural Resource Management (Concept and case-studies): Disaster Management, Sustainable		
Mining,case studiesng, and Carbon Trading.		
Teaching-Learning Process	Chalk and talk, powerpoint presentation and animation tools	
Module-3		
<b>Environmental Pollu</b>	tion (Sources, Impacts, Corrective and Preventive measures, Relevant	
Environmental Acts, Case-studies): Surface and Ground Water Pollution; Noise pollution; Soil		
Pollution and Air Pollution.		
Waste Management & Public Health Aspects: Bio-medical Wastes; Solid waste; Hazardous		
wastes; E-wastes; Industrial and Municipal Sludge.		
Teaching-Learning	Chalk and talk nowerpoint presentation and animation tools	

Teaching-Learning	Chalk and talk, powerpoint presentation and animation tools	
Process		
Module-4		
<b>Global Environment</b>	al Concerns (Concept, policies and case-studies): Ground water	
depletion/recharging, Climate Change; Acid Rain; Ozone Depletion; Radon and Fluoride problem		
in drinking water; Resettlement and rehabilitation of people, Environmental Toxicology.		
Teaching-Learning	Chalk and talk, powerpoint presentation and animation tools	
Process		

**Module-5** 

Latest Developments in Environmental Pollution Mitigation Tools (Concept and Applications): G.I.S. & Remote Sensing, Environment Impact Assessment, Environmental Management Systems, ISO14001; Environmental Stewardship- NGOs. Field work: Visit to an Environmental Engineering Laboratory or Green Building or Water Treatment Plant or Waste water treatment Plant; ought to be Followed by understanding of process and its brief documentation.

Teaching-Learning	Chalk and talk, power point presentation and animation tools	
Process		

#### Course outcome (Course Skill Set)

At the end of the course the student will be able to :

- CO1: Understand the principles of ecology and environmental issues that apply to air, land, and water issues on a global scale,
- CO2: Develop critical thinking and/or observation skills, and apply them to the analysis of a problem or question related to the environment.
- CO3: Demonstrate ecology knowledge of a complex relationship between biotic and a biotic components.
- • CO4: Apply their ecological knowledge to illustrate and graph a problem and describe the realities that managers face when dealing with complex issues.

# Assessment Details (both CIE and SEE)

The weightage of Continuous Internal Evaluation (CIE) is 50% and for Semester End Exam (SEE) is 50%. The minimum passing mark for the CIE is 40% of the maximum marks (20 marks out of 50). A student shall be deemed to have satisfied the academic requirements and earned the credits allotted to each subject/ course if the student secures not less than 35% (18 Marks out of 50)in the semester-end examination(SEE), and a minimum of 40% (40 marks out of 100) in the sum total of the CIE (Continuous Internal Evaluation) and SEE (Semester End Examination) taken together

#### **Continuous Internal Evaluation:**

#### Three Unit Tests each of 20 Marks (duration 01 hour)

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- 2. Second test at the end of the  $10^{th}$  week of the semester
- 3. Third test at the end of the  $15^{th}$  week of the semester

#### Two assignments each of 10 Marks

- 4. First assignment at the end of 4<sup>th</sup> week of the semester
- 5. Second assignment at the end of 9<sup>th</sup> week of the semester

Group discussion/Seminar/quiz any one of three suitably planned to attain the COs and POs for **20 Marks** (duration 01 hours)

6. At the end of the  $13^{th}$  week of the semester

The sum of three tests, two assignments, and quiz/seminar/group discussion will be out of 100 marks and will be scaled down to 50 marks

(to have less stressed CIE, the portion of the syllabus should not be common /repeated for any of the methods of the CIE. Each method of CIE should have a different syllabus portion of the course).

CIE methods /question paper is designed to attain the different levels of Bloom's taxonomy as per the outcome defined for the course.

# Semester End Examination:

Theory SEE will be conducted by University as per the scheduled timetable, with common question papers for the subject (**duration 01 hours**)

Question paper pattern:

1. The Question paper will have 50 objective questions.

- 2. Each question will be for 01 marks
- 3. Students will have to answer all the questions on an OMR Sheet.
- **4**. The Duration of the Exam will be 01 hour

# Suggested Learning Resources:

# Books

• .

- Environmental studies, Benny Joseph, Tata Mcgraw-Hill 2<sup>nd</sup> edition 2012
- Environmental studies, S M Prakash, pristine publishing house, Mangalore 3<sup>rd</sup> edition-2018

# **Reference Books: -**

- Benny Joseph, Environmental studies, Tata Mcgraw-Hill 2<sup>nd</sup> edition 2009
- M.Ayi Reddy Textbook of environmental science and Technology, BS publications 2007
- Dr. B.S Chauhan, Environmental studies, university of science press 1<sup>st</sup> edition

Web links and Video Lectures (e-Resources):

Activity-Based Learning (Suggested Activities in Class)/ Practical Based learning