SCHEME OF COURSE WORK

Course Title	English for Research Paper Writing					
Course Code	19HE21A1	L T P C		: 3	0 0	0
Program:	M.Tech.					
Specialization:	Free elective common to all specializations					
Semester	III					

Course Outcomes (COs):
At the end of the course, the student will be able to

1	demonstrate writing meaningful sentences and coherent paragraphs
2	show conciseness, clarity and avoid redundancy in writing
3	summarize, evaluate literature, and write methodology, results and conclusion
4	describe how to develop title, write abstract and introduction
5	apply correct style of referencing and use punctuation appropriately

Program Outcomes (POs)

At the end of the program, the students in English for Research Paper Writing will be able to

PO Code	Program Outcome (PO)
PO1	exhibit in-depth knowledge in thermal engineering specialization
PO2	think critically and analyse complex engineering problems to make creative advances in theory and practice
PO3	solve problem, think originally and arrive at feasible and optimal solutions with due consideration to public health and safety of environment
PO4	use research methodologies, techniques and tools, and will contribute to the development of technological knowledge
PO5	apply appropriate techniques, modern engineering tools to perform modeling of complex engineering problems with knowing the limitations
PO6	understand group dynamics, contribute to collaborative multidisciplinary scientific research
PO7	demonstrate knowledge and understanding of engineering and management principles and apply the same with due consideration to economical and financial factors
PO8	communicate complex engineering problems with the engineering community and society, write and present technical reports effectively
PO9	engage in life-long learning with a high level of enthusiasm and commitment to improve knowledge and competence continuously
PO10	exhibit professional and intellectual integrity, ethics of research and scholarship and will realize the responsibility towards the community
PO11	examine critically the outcomes of actions and make corrective measures

Teaching-Learning and Evaluation

Week	Topic / Contents	Course Out Comes	Teaching-Learning Strategy
1	Why publish a research paper, choosing an appropriate journal, following author guidelines, choosing a model research paper	CO1	Lectures, PPT
2	Order of various sections of the paper, creating separate files for each section, giving mini presentations, gap finding-your contribution to research, keeping referees in mind	CO1	
3	Basic word order, choosing the most relevant subject to begin a sentence, Not beginning the sentence with impersonal *it* .	CO1	
4	Putting the subject before the verb, To avoid inserting parenthetical information between the subject and the verb, Locating an adverb, Putting the adjectives before the noun	CO1	
5	Writing short sentences, linking words- Using an infinitive when expressing an aim, redundancy versus conciseness	CO2	Lectures, PPT
6	Structuring paragraphs and sentences, breaking up long paragraphs, being concise and removing redundancy	CO2	
7	Avoiding ambiguity and vagueness, uncountable nouns, pronouns, which/who vs that , ing form vs that, being precise	CO2	
8	How to structure – begin – review of literature, focus or authors or their ideas, what tense to use	CO3	
9	How to structure the methods- how to begin the methods, what tense to use , use of definite and indefinite articles in methods	CO-3	Lectures, PPT
10	How to structure a Discussion section, how to begin a discussion section, comparing your work with work of others, discuss limitations of your research, how to structure a conclusions – begin a conclusions , differentiate between an abstract and a conclusions	CO3	
11	How to generate a title, how to punctuate a title, what words should you capitalize, types of words to include, prepostions, articles	CO4	
12	what is an abstract, structure of an abstract, how to begin an abstract, length of an characteristics of a good abstract, structured and unstructured abstract	CO4	
13	Using right tenses for different sections of the paper, nouns, pronouns, adjectives and adverbs	CO4	
14	How to structure an introduction, typical phrases to avoid in introduction, difference between an abstract and an introduction	CO4	
15	References and in-text citations, writing the bibliography – MLA/APA styles	CO5	
16	Useful phrases to structure specific sections of the paper	CO5	