

COURSE TITLE	TE142304: Scientific Writing Credits: 2 Semester: II
LEARNING OBJECTIVES	<ul style="list-style-type: none"> • To give comprehension to students about scientific research and its problems, how to create survey plan, and understanding survey models. • To give students the methods to design an experiment, to collect and analyze data. • To explain about the structure of scientific writing, how to create a scientific writing, how to make poster for scientific writing, how to make presentation for scientific writing, how to present scientific writing, and how to read a scientific writing. • To introduce how to work in a research team, to introduce research fields and to give guidance about how to choose a research field.
COMPETENCY	<ul style="list-style-type: none"> • Students have perception about scientific research and its problems, they can create survey plan and understand survey models. • Students can design an experiment, collect and analyze data. • Students understand the structure of scientific writing and they can write one. • Students can create poster for scientific writing. • Students can read scientific writing. • Students can make presentation of scientific writing and they can present it. • Students can work in research team and choose one of research fields.
SUBJECTS	<ul style="list-style-type: none"> • Perception about a research and its problems. • Research stage: literature study, the assesment of related research, hypothesis building, research planning, and data collection. • Survey methods: historical based, philosophy, experiment, case study, genetics. • Experiment design, research tools, data collection, data analysis, and report writing. • Scientific writiing: structure and guidance. • Making poster for scientific writing. • Making presentation for scientific writing and how to present it. • How to read scientific writing. • How to work in research team, and how to choose research field.
MAIN REFERENCES	Geoffrey Marczyk, <u>Essentials of research design and methodology</u> , John Wiley & Sons LTD., New Jersey, 2005.
OPTIONAL REFERENCES	<ul style="list-style-type: none"> • Ann M. Korner, <u>Guide to Publishing a Scientific Paper</u>, Routledge, Oxon, 2008. • Yogesh Kumar Singh, <u>Fundamental of Research Methodology and Statistics</u>, New Age International, New Delhi, 2006.
PREREQUISITE	-