Course Code	CP411
Course Title	Process Engineering Research Project II
No. of Credits	3
Pre-requisites	CP407
Compulsory/Optional	Compulsory

Aim(s): To develop skills required to successfully execute a research project even under resource constrained environment.

Intended Learning Outcomes:

On successful completion of the course, the students should be able to;

ILO1: Generate new results with scientific rigor within the stipulated time frame.

ILO2: Draw conclusions by critically analyzing the results.

ILO3: Communicate scientific and technical information effectively with confidence in verbal and written forms.

Topics	**Time Allocation/Hours**			
	L	**T**	**P**	**A**
• **Research execution and dissemination of scientific information** Verification of research hypothesis or address research questions by experimental data analysis or numerical simulation; Dissemination of scientific information in oral and written forms.			90	
Total equivalent hours			**45**	

Recommended Texts:

- Berger, P., Maurer, R., Giovana, C. B., Experimental Design-With Application in Management, Engineering and the Sciences, (2 Ed), Springer, 2018.
- Lawson, J. Erjavec. J., Basic Experimental Strategies and Data Analysis for Science and Engineering, (1 Ed), CRC Press, 2016.
- Zanders, E., Macleod, L., Presentation Skills for Scientists, (2 Ed), Cambridge University Press, 2018.
- Alley. M., The Craft of Scientific Writing, (4 Ed), Springer, 2018.
- Davis. M., Scientific Papers and Presentations, (2 Ed), Elsevier Academic Press, 2015.

Assessment	**Percentage Mark**	
In-course Oral presentation and Viva-voce examination Presentation of scientific findings in a supervisor-specified journal paper format	 60 40	100
End-semester		