

Course Code	Course Title	L	T	P	C
BACSE191	Basic Multidisciplinary Project	0	0	4	2
Pre-requisite	Nil	Syllabus Version			
		1			
Course Objectives					
Enable students to collaborate effectively in diverse groups by integrating multidisciplinary engineering knowledge to develop practical solutions. Enhance students' skills in project planning, execution, documentation, and technical communication through hands-on engineering activities. Encourage ethical and innovative practices to design sustainable solutions for society and environmental challenges.					
Course Outcomes					
Apply multidisciplinary engineering concepts and techniques to design a sustainable working model. Utilize appropriate technological tools, effective time management to design and document the prototype as an individual or team member. Demonstrate the societal impact, and cost-effectiveness of the developed product with ethics.					
Module:1	Project Duration First and Second Semesters	20 hours			
Projects can be an experimental setup/model to realize the conceptual prototype, and validate its performance. Each project team should have 3 to 5 students from at least three different disciplines. The team must submit both the prototype and a technical report that explains each member's individual contribution.					
Total Lecture Hours:				20 hours	
Text Book(s)					
Reference Books					
YouTube , "https://www.youtube.com/watch?v=y4drM0vz3us ", University of Sydney, 1st Edition, 2020 YouTube, "https://uwaterloo.ca/engineering-ideas-clinic/about/engineering-design-days/first-year-design-days ", Waterloo Engineering, 1st Edition, 2017 YouTube, "https://www.youtube.com/watch?v=et6E7hWyS0g", University of UTAH, 1st Edition, 2015					

YouTube, " <https://www.youtube.com/watch?v=hbNTI1NGQ40>", Johns Hopkins University, 1st Edition, **2017**
 YouTube, "<https://www.youtube.com/watch?v=lnxl84LBRd0> ", University of Colorado Boulder, 1st Edition, **2017**
 YouTube, "<https://www.youtube.com/watch?v=uljTK226rsU> ", Olin College of Engineering, 2nd Edition, **2021**
 YouTube, " <https://www.youtube.com/watch?v=rHAzpXiO1bg>", Olin College of Engineering , 1st Edition, **2019**

Mode of Evaluation :

Recommended by Board of Studies :

23-05-2025

Approved by Academic Council : No. 78

12-06-2025