

**NATIONAL INSTITUTE OF TECHNOLOGY, TIRUCHIRAPPALLI**

This course outline template acts as a guide for writing your course outline. As every course is different, please feel free to amend the template/ format to suit your requirements.

<b>COURSE OUTLINE TEMPLATE</b>			
<b>Course Title</b>	<b>MECHANICS OF SOLIDS</b>		
<b>Course Code</b>	<b>AR106</b>	<b>No. of Credits</b>	<b>3</b>
<b>Department</b>	<b>ARCHITECTURE</b>	<b>Faculty</b>	<b>L.SAIKALA</b>
<b>Pre-requisites Course Code</b>	<b>NIL</b>		
<b>Course Coordinator(s) (if, applicable)</b>	<b>L.SAIKALA</b>		
<b>Other Course Teacher(s)/Tutor(s) E-mail</b>	<b>saikala@nitt.edu</b>	<b>Telephone No.</b>	<b>9443125061</b>
<b>Course Type</b>	<input type="checkbox"/> Core course <input checked="" type="checkbox"/> Core course		

**COURSE OVERVIEW**

This subject is introduced to study the fundamental properties and behavior of building materials and structural members which are very much important for architectural students.

**COURSE OBJECTIVES**

- To know and study the basic properties of vaerious kinds of building materials and their behavior on application of loads designed.
- To study the kinds of loads and their effects on structural elements in terms of moments and shears.
- To go through the relationship of various properties of materials and structural components for design purpose.
- To have basic types of both horizontal and vertical strctural members and also special structures like trusses.
- To analyse the structural members for the given loads and their combinations.

<b>COURSE OUTCOMES (CO)</b>				
<b>Course Outcomes</b>			<b>Aligned Programme Outcomes (PO)</b>	
1. To understand the basics of structures and materials. 2. To know the properties of building materials. 3. To be trained in analyzing the types of problems given and come out with solutions.			Better understanding of structural properties and applications which is essential for architects to design and plan buildings.	
<b>COURSE TEACHING AND LEARNING ACTIVITIES</b>				
<b>S.No.</b>	<b>Week</b>	<b>Topic</b>	<b>Mode of Delivery</b>	
1.	8-10 weeks approximately from the starting of semester. Each week having 3 hours duration of class.	All topics as per syllabus which is divided into five sections. Each topic will be for two weeks duration approximately.	Class room teaching both by Lectures and Power Point Presentations.	
<b>COURSE ASSESSMENT METHODS</b>				
<b>S.No.</b>	<b>Mode of Assessment</b>	<b>Week/Date</b>	<b>Duration</b>	<b>% Weightage</b>
1.	Internals	At the the end of each topic completion class room exercises will be given and assessed.	NA	Each topic exercises which is done during class hours like tutorial at the end of completion of topic is having 10%weightage. Total internal %weightage is 50%.
2.	External Examinations	At the end of the semester.	Three hours.	50% for external examinations. Total 100% both IM+EM.
<b>ESSENTIAL READINGS : Textbooks, reference books Website addresses, journals, etc</b>				
Textbooks by various authors as prescribed in the syllabus. Reference books are mentioned and updated every year. For getting training and knowledge web sites are used.				

**COURSE EXIT SURVEY (mention the ways in which the feedback about the course is assessed and indicate the attainment also)**

Since it is basic subject and its importance has been understood and the essential of the subject will be assessed with the point scale feedback system.

**COURSE POLICY (including plagiarism, academic honesty, attendance, etc.)**

Attendance is mandatory and overall attendance should not be less than 75%.

**ADDITIONAL COURSE INFORMATION**

eg.: The Course Coordinator is available for consultation at times that are displayed on the coordinator's office notice board. Queries may also be emailed to the Course Coordinator directly at department or in person at faculty room.

**FOR SENATE'S CONSIDERATION**

  
Course Faculty 04/12/2017

  
CC-Chairperson 04/01/2017

  
HOD 4/1/17