



# NATIONAL INSTITUTE OF TECHNOLOGY, TIRUCHIRAPPALLI

DEPARTMENT OF ARCHITECTURE

COURSE PLAN – PART I				
Name of the programme and specialization	B.ARCH (ARCHITECTURE)			
Course Title	MECHANICS OF SOLID			
Course Code	AR106	No. of Credits	3	
Course Code of Pre-requisite subject(s)	-			
Session	January 2023	Section (if, applicable)	-	
Name of Faculty	Dr.L.SAIKALA	Department	ARCHITECTURE	
Official Email	saikala@nitt.edu	Telephone No.	9443125061	
Course Type (please tick appropriately)	<input checked="" type="checkbox"/> Core course			
Syllabus (approved in BoS) : As Per Course curriculum.				
COURSE OBJECTIVES: To Make students to understand basics of mechanism, properties and loads on solids.				
MAPPING OF COs with POs				
Course Outcomes				Programme Outcomes (PO)
1.	To understand the mechanics of structural members and behavior, loads and their types			
2.	To study the types of materials and their properties with example problems- geometric properties			
3.	To study shear force and bending moments with types of loads on various beams.			
4.	To derive and apply simple bending theory on structural problems			
5.	To analyse the member forces for trusses-method of joints			
COURSE PLAN – PART II				
<b>COURSE OVERVIEW</b>				
This course imparts students to learn structures and their combination for the given loads. To also gives an idea of structures with their functional properties. It specifically explain the effects of loads on structural member with analysis.				
<b>COURSE TEACHING AND LEARNING ACTIVITIES</b> ( Add more rows)				
S.No.	Week/Contact Hours	Topic	Mode of Delivery	
1	1-2 weeks	Mechanics of structural elements ,types of beams and loads.	Lecture class	
2	3-5 weeks	Shear force and bending moment calculations for loads.	Lecture +Tutorial	
3	6-7 weeks	To study the theory of simple bending-problems	Lecture+ tutorial	
4	8-10 weeks	Test on concrete- cube test	Lecture + Tutorial	
5	11-14 weeks	Test on steel plate-deflection test	Lecture + Tutorial	
<b>COURSE ASSESSMENT METHODS</b> (shall range from 4 to 6)				
S.No.	Mode of Assessment	Week/Date	Duration	% Weightage
1	Assignment 1 (tutorials)	1-4	3week	10%
2	Assignment 2	5-8	3week	10%
3	Test1(excersie-individual)	4-6	1 hour	15%
4	Test2	10-14	1 hour	15%
CPA	Compensation Assessment*	End of 14 week	1 hour	15%
5	End semester examination	Final Exam	3 hours	50%
6	Final Assessment *	Total IA+EA	-	100%
*mandatory; refer to guidelines on page 4				



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<b>COURSE EXIT SURVEY</b> (mention the ways in which the feedback about the course shall be assessed)
Online Feedback and Suggestions-regarding teaching and learning process
<b>COURSE POLICY</b> (including compensation assessment to be specified)
<b>Attendance 75% mandatory, 65%-75% condonation is permitted for genuine medical reasons and events representations through college, if attendance requirements are not met 'V' grade will be awarded.</b>
<b>ATTENDANCE POLICY</b> (A uniform attendance policy as specified below shall be followed) <ul style="list-style-type: none"><li>➤ At least 75% attendance in each course is mandatory.</li><li>➤ A maximum of 10% shall be allowed under On Duty (OD) category.</li><li>➤ Students with less than 65% of attendance shall be prevented from writing the final assessment and shall be awarded 'V' grade.</li></ul>
<b>ACADEMIC DISHONESTY &amp; PLAGIARISM</b> <ul style="list-style-type: none"><li>➤ Possessing a mobile phone, carrying bits of paper, talking to other students, copying from others during an assessment will be treated as punishable dishonesty.</li><li>➤ Zero mark to be awarded for the offenders. For copying from another student, both students get the same penalty of zero mark.</li><li>➤ The departmental disciplinary committee including the course faculty member, PAC chairperson and the HoD, as members shall verify the facts of the malpractice and award the punishment if the student is found guilty. The report shall be submitted to the Academic office.</li><li>➤ The above policy against academic dishonesty shall be applicable for all the programmes.</li></ul>
<b>ADDITIONAL INFORMATION, IF ANY</b>
Course Coordinator may be contacted for any queries or discussion at their office or on mobile.
<b>FOR APPROVAL</b>
<p>L. Saikala <i>L. Saikala</i> 30/3/23 Course Faculty (DY. L. SAIKALA)</p> <p>K. Prabhakar Bharathi <i>K. Prabhakar Bharathi</i> CC- Chairperson</p> <p><i>[Signature]</i> HOD</p>

## Guidelines

- The number of assessments for any theory course shall range from 4 to 6.
- Every theory course shall have a final assessment on the entire syllabus with at least 30% weightage.
- One compensation assessment for absentees in assessments (other than final assessment) is mandatory. Only genuine cases of absence shall be considered.
- The passing minimum shall be as per the regulations.

B.Tech. Admitted in				P.G.
2018	2017	2016	2015	
35% or (Class average/2) whichever is greater.		(Peak/3) or (Class Average/2) whichever is lower		40%

- Attendance policy and the policy on academic dishonesty & plagiarism by students are uniform for all the courses.
- Absolute grading policy shall be incorporated if the number of students per course is less than 10.
- Necessary care shall be taken to ensure that the course plan is reasonable and is objective.