Department of Civil Engineering

NATIONAL INSTITUTE OF TECHNOLOGY, TIRUCHIRAPPALLI

Pre-requisites Course Code NIL Course Coordinator(s) (if, applicable) Other Course Teacher(s)/Tutor(s) E-mail Course Type Core course Elective course COURSE OVERVIEW This course emphasis on testing of a building materials in the loaboratory. COURSE OBJECTIVE To find the Young Modulus, torsional strength, hardness and tensile strength of given specimens. To find impact value and crushing value of coarse aggregates. To find stiffness of open coiled and closed coiled springs. To find the physical properties of given coarse aggregate, fine aggregate and cement samples. COURSE OUTCOMES (CO) Aligned Program		COURSE PLAN					
Department Civil Engineering Faculty Mr.Deendayal Pre-requisites Course Code NIL Course Coordinator(s) (if, applicable) Other Course Teacher(s)/Tutor(s) E-mail Course Type Core course Elective course COURSE OVERVIEW This course emphasis on testing of a building materials in the loaboratory. COURSE OBJECTIVE To find the Young Modulus, torsional strength, hardness and tensile strength of given specimens. To find impact value and crushing value of coarse aggregates. To find stiffness of open coiled and closed coiled springs. To find the physical properties of given coarse aggregate, fine aggregate and cement samples. COURSE OUTCOMES (CO) Aligned Program	Course Title STRENGTH OF MATERIALS AND CONCRETE LABORATORY						
Pre-requisites Course Code NIL Course Coordinator(s) (if, applicable) Other Course Teacher(s)/Tutor(s) E-mail Course Type Core course Elective course COURSE OVERVIEW This course emphasis on testing of a building materials in the loaboratory. COURSE OBJECTIVE To find the Young Modulus, torsional strength, hardness and tensile strength of given specimens. To find impact value and crushing value of coarse aggregates. To find stiffness of open coiled and closed coiled springs. To find the physical properties of given coarse aggregate, fine aggregate and cement samples. COURSE OUTCOMES (CO) Aligned Program	Course Code	CELR10	No. of Credits	2			
Course Coordinator(s) (if, applicable) Other Course Teacher(s)/Tutor(s) E-mail Course Type Core course Elective course COURSE OVERVIEW This course emphasis on testing of a building materials in the loaboratory. COURSE OBJECTIVE To find the Young Modulus, torsional strength, hardness and tensile strength of given specimens. To find impact value and crushing value of coarse aggregates. To find the compressive strength of concrete cubes and bricks. To find stiffness of open coiled and closed coiled springs. To find the physical properties of given coarse aggregate, fine aggregate and cement samples. COURSE OUTCOMES (CO) Aligned Program	Department	Civil Engineering	Faculty	Mr.Deendayal			
(if, applicable) Other Course Teacher(s)/Tutor(s) E-mail Course Type Core course Elective course COURSE OVERVIEW This course emphasis on testing of a building materials in the loaboratory. COURSE OBJECTIVE To find the Young Modulus, torsional strength, hardness and tensile strength of given specimens. To find impact value and crushing value of coarse aggregates. To find the compressive strength of concrete cubes and bricks. To find stiffness of open coiled and closed coiled springs. To find the physical properties of given coarse aggregate, fine aggregate and cement samples. COURSE OUTCOMES (CO) Aligned Program	Pre-requisites Course Code	NIL					
E-mail Course Type Core course Elective course COURSE OVERVIEW This course emphasis on testing of a building materials in the loaboratory. COURSE OBJECTIVE To find the Young Modulus, torsional strength, hardness and tensile strength of given specimens. To find impact value and crushing value of coarse aggregates. To find the compressive strength of concrete cubes and bricks. To find stiffness of open coiled and closed coiled springs. To find the physical properties of given coarse aggregate, fine aggregate and cement samples. COURSE OUTCOMES (CO) Aligned Program	0. 0	-					
COURSE OVERVIEW This course emphasis on testing of a building materials in the loaboratory. COURSE OBJECTIVE To find the Young Modulus, torsional strength, hardness and tensile strength of given specimens. To find impact value and crushing value of coarse aggregates. To find the compressive strength of concrete cubes and bricks. To find stiffness of open coiled and closed coiled springs. To find the physical properties of given coarse aggregate, fine aggregate and cement samples. COURSE OUTCOMES (CO) Aligned Program	Other Course Teacher(s)/Tutor(s)		_				
This course emphasis on testing of a building materials in the loaboratory. COURSE OBJECTIVE To find the Young Modulus, torsional strength, hardness and tensile strength of given specimens. To find impact value and crushing value of coarse aggregates. To find the compressive strength of concrete cubes and bricks. To find stiffness of open coiled and closed coiled springs. To find the physical properties of given coarse aggregate, fine aggregate and cement samples. COURSE OUTCOMES (CO) Aligned Program	Course Type	Core course	Elective course	e			
Aligned Program	This course emphasis on testing of a building COURSE OBJECTIVE To find the Young Modu given specimens. To find impact value and To find the compressive To find stiffness of open To find the physical property.	ulus, torsional strength, hardness and discrepance of coarse aggregates strength of concrete cubes and brick coiled and closed coiled springs.	s.				
A student would be able to do testing of a building materials (above) in the loaboratory.	Course Outcomes	building materials (above) in the lo		igned Programme Outcomes (PO)			

		COURSE TEACH	ING AND LEARNING	ACHVIILES	
0	Week		Topic		Mode of Delivery
	Week I	a) DEFLECTION OF b) DEFLECTION OF	Laboratory		
	Week 2	a) TEST ON CLOSED b) TEST ON OPEN C	Laboratory		
3	Week 3	a)TORSION TEST b) HARDNESS TEST	Laboratory		
4	Week 4	a) COMPRESSIVE S b) COMPRESSIVE S	Laboratory		
5	Week 5	a)STANDARD CON: b) INITIAL SETTING	Laboratory		
6	Week 6	TENSION TEST	Laboratory		
7	Week 7	a)CRUSHING TEST b) IMPACT TEST O	Laboratory		
		COUR	SE ASSESSMENT ME	THODS	
	14	e of Assessment	Week	Duration	% Weightage
S.No		nuous Assessment	All the weeks	3hour/week	75 marks
1	Final Assessment (Written test)		•	1/2 hour	25 marks
2	Final Asso	Total			100 marks

Text Book: STERNGTH OF MATERIALS by B.C. PUNMIA

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

1. Class committee meetings

2. Feedback (Onlinethrough MIS)

CC-Chairperson

Course Faculty Mr.