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DEPARTMENT OF METALLURGICAL and MATERIALS ENGINEERING NATIONAL INSTITUTE OF TECHNOLOGY, TIRUCHIRAPPALLI

		PLAN - PART I			
Course Title	METALLIC MATER	RIALS			
Course Code	MT 656	No. of Credits	03		
Course Code of Pre- requisite subject(s)	NIL				
Session	Jan 2019	Section (if, applicable)	NA		
Name of Faculty	B.Ravisankar	Department	MME		
Email	brs@nitt.edu	Telephone No.	9443578303		
Name of Course Coordinator(s) (if, applicable)	NA				
E-mail		Telephone No.			
Course Type	Core				
COURSE OBJECTIVES	3	curriculum/MTech-MSE-			
COURSE OUTCOMES	(CO)	talia - Citta	,		
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Course Outcomes Understand major ty Dual and Tool steels	pes of special steels s and cast-irons	such as HSLA, TRIP, f nonferrous metals and	Aligned Programme Outcomes (PO) Materials Science and Engineering post graduates are attaining knowledge of materials and their science & Engineering Materials Science and Engineering post graduates are attaining knowledge of materials		
2. Understand the structure alloys	pes of special steels s and cast-irons cture and properties o	LANGE VALUE OF STREET	Aligned Programme Outcomes (PO) Materials Science and Engineering post graduates are attaining knowledge of materials and their science & Engineering Materials Science and Engineering post graduates are		

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COURSE OVERVIEW

The course covers the microstructure, propertoies and applications of metallic materials procedure for selecting materials for specific applications.

COURSE TEACHING AND LEARNING ACTIVITIES

S.No.	Week/Contact Hours	Topic	Mode of Delivery
1	1-111	Classification of Materials – Ferrous metals and alloys	l.
2	IV-V	Types, properties and applications of aluminium and its alloys	
3	Vi-VII	Types, properties and applications of copper and its alloys	Class room lecture with both calk & tag and power point-
4	VIII-IX	Types, properties and applications of titanium & magnesium and its alloys	guest lectures
5	X-XII	Types, properties and applications of lead, tin, zinc, antimony, silver, gold, platinum and its alloys	

COURSE ASSESSMENT METHODS (shall range from 4 to 6)

S.No.	Mode of Assessment	Week/Date	Duration (min)	% Weightage
1	Cycle Test I (objective)	Mary II Washing	45	20
2	Cycle Test II	IV	45	20
3	Seminar	VIII	10	10
4	Assignment	X	Individual	10
СРА	Compensation Assessment	IX	45	20
5	End semester Examination	XIII	180	40

COURSE EXIT SURVEY (mention the ways in which the feedback about the course shall be assessed)

The exit survey will be assessed based on the questionnaire prepared by the class teacher and expected attainment is 75% on 1-10 scale basis

COURSE POLICY (preferred mode of correspondence with students, policy on attendance, compensation assessment,, academic honesty and plagiarism etc.)

MODE OF CORRESPONDENCE (email/ phone etc)

Email/Mobile

ATTENDANCE

Minimum 75% excluding ODs. Medical certificate for genuine cases is permitted

COMPENSATION ASSESSMENT

It will be given during IX week for those who are absent on genuine grounds for any one of the cycle tests.

ACADEMIC HONESTY & PLAGIARISM

Plagiarism will be checked for assignments.

ADDITIONAL INFORMATION

The Course faculty is available for consultation at any time. Students can also contact him at any time through phone or by mail. The phone number and mail id will be given to the students at the beginning of the course

FOR APPROVAL

Course Faculty _

(B.Ravisankar)

CC-Chairperson_

(Dr.S.Natarajan)

HOD

(Prof.V.Muthupandi)