DEPARTMENT OF PRODUCTION ENGINEERING NATIONAL INSTITUTE OF TECHNOLOGY, TIRUCHIRAPPALLI

COURSE PLAN – PART I						
Name of the programme and specialization	B. Tech - Production Engineering					
Course Title	PRODUCTION DRAWING AND COST ESTIMATION					
Course Code	PRLR15	2				
Course Code of Pre- requisite subject(s)	Machine Drawing, Design of machine elements					
Session	Jan. 2018	n. 2018 Section (if, applicable)				
Name of Faculty	of Faculty D SIMSON Department		Production Engineering			
Email	Simson@nitt.edu	Telephone No.	9080972352			
Name of Course Coordinator(s) (if, applicable)						
E-mail	1	Telephone No.				
Course Type $$ Core course Elective course						
 Syllabus (approved in BoS) Review of Current international standards (ISO) and Indian Standards (IS) - Geometric Dimensioning and Tolerancing-Centrality Analysis-Compound Assembly. Process Sheet -Fundamentals-Contents -Preparation of process sheet for various components. Manufacturing Drawings: Surface texture indication on drawing-welds symbolic representation of drawings. Given a sub-assembly/assembly to prepare manufacturing drawings of components, Sample exercises on CAD-preparation of manufacturing Drawings. Re-dimensioning and Tolerance Charting: Introduction to re-dimensioning to suit manufacturing requirements-manufacturing datum-functional datum. Introduction to tolerance charting Cost Estimation: Preparation of Process chart for a given component-estimation of setting time and machining time-estimation of material cost, labour cost and overhead cost based on supplied data-Kaizen costing-Activity Based costing Lifecycle costing. COURSE OBJECTIVES To understand the fundamentals of manufacturing drawings To drawing the fundamentals of manufacturing drawings 						
To perform cost and time estimation						
COURSE OUTCOMES (CO)						
Course Outcomes Aligned Programm Outcomes (PO)						
1. Interpretation of contents of production drawing1,4,6						

2. Dev	elopment of process sheet and manufacturing drawings	1,3,6
3. Syst	tematic estimation of cost and time	1,4,6

COURSE PLAN - PART II

COURS	COURSE TEACHING AND LEARNING ACTIVITIES								
S.No.	Week	Торіс	Mode of Delivery						
1	1	Review of Current international standards (ISO) and Indian Standards (IS)	PPT/PRACTICAL						
2	2	Geometric Dimensioning and Tolerancing	PPT/PRACTICAL						
3	3	Centrality Analysis and Compound Assembly	PPT/PRACTICAL						
4	4	Process Sheet fundamentals	PPT/PRACTICAL						
5	5	Preparation of process sheet for various components	PPT/PRACTICAL						
6	6	Manufacturing Drawings	PPT/PRACTICAL						
7	7	sub-assembly/assembly to prepare manufacturing drawings of components	PPT/PRACTICAL						
8	8	Re-dimensioning and Tolerance Charting	PPT/PRACTICAL						
9	9	Re-dimensioning to suit manufacturing requirements							

10	10	Manufacturing datum and functional datum			PPT/PRACTICAL	
11	11	Preparation of Process chart for a given component			PPT/PRACTICAL	
12	12	Estimation of setting time and machining time			PPT/PRACTICAL	
13	13	Kaizen costing, Activity Based costing and Life cycle costing			PPT/PRACTICAL	
COURSE ASSESSMENT METHODS (shall range from 4 to 6)						
S.No.	Mode of Assessment		Week/Date	Durati	on	% Weightage
1	Regular practice		Every week	2 Hr		50
2	Assement		Week 10	3 Hr		25
СРА	Compensation Assessment*			2 Hr		
4	Final Assessment *		End semester	3 Hr		25

*mandatory; refer to guidelines on page 4

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

Course exit survey will be collected at the end of the semester before the start of semester examination. Student can give feedback anytime to improve the teaching learning process. Apart from this, students can share feedback during class committee meetings.

COURSE POLICY (preferred mode of correspondence with students, compensation assessment policy to be specified)

MODE OF CORRESPONDENCE (email/ phone etc) Simson@nitt.edu

COMPENSATION ASSESSMENT POLICY

If any students is not able to attend any of the assessments (regular lab work) due to genuine reason, student is permitted to attend ONE experiment/exercise as compensation assessment at the end of semester.

assessment and shall be awarded 'V' grade.

ACADEMIC DISHONESTY & PLAGIARISM

- Possessing a mobile phone, carrying bits of paper, talking to other students, copying from others during an assessment will be treated as punishable dishonesty.
- Zero mark to be awarded for the offenders. For copying from another student, both students get the same penalty of zero mark.
- 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.

The above policy against academic dishonesty shall be applicable for all the programmes.

ADDITIONAL INFORMATION

Students should refer more books and do more practice for in-depth knowledge about the course.

FOR APPROVAL

HOD CC-Chairperson **Course Facult**

Guidelines:

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

a) One compensation assessment for absentees in assessments (other than final assessment) is mandatory. Only genuine cases of absence shall be considered.

	P.G.			
2018	2017	2016	2015	
35% or class whichever is g	average/2 reater.	Peak/3 or o whichever is lo	class average/2 ower	40%

b) The passing minimum shall be as per the regulations.

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