

# SYNERGY POLYTECHNIC, BBSR

## The Lesson Plan

Discipline: <i>Mechanical Engg</i>	Semester: <i>4th</i>	Name of the Teaching Faculty: <i>Soumikh Roy</i>
Subject: <i>Manufacturing Technology</i>	No of Days/per week class allotted:	Semester from Date: <i>16.1.24</i> to Date: <i>26.4.24</i> No of Weeks:
Week	Class Day	Theory/Practical Topics
1st	1st	<i>Auto able feed mechanism</i>
	2nd	<i>Construction of tool head &amp; construction</i>
	3rd	<i>Study quick return mechanism</i>
	4th	<i>Specification of a shaping machine</i>
	5th	
2nd	1st	<i>Introduction to planner Machine</i>
	2nd	<i>Major components and their function</i>
	3rd	<i>The table drive mechanism</i>
	4th	<i>Working of tool and tool support</i>
	5th	
3rd	1st	<i>Study of Milling machine</i>
	2nd	<i>Construction of Milling machine</i>
	3rd	<i>Procedure of simple indexing</i>
	4th	<i>Procedure of compound indexing</i>
	5th	
4th	1st	<i>Study of Simple dividing head</i>
	2nd	<i>Introduction to Slotter machine</i>
	3rd	<i>Major components of Slotter machine</i>
	4th	<i>Working of Slotter machine</i>
	5th	
5th	1st	<i>Function of Slotter machine</i>
	2nd	<i>Tools used in Slotter machine</i>
	3rd	
	4th	
	5th	

*Soumikh Roy*  
Sign of Faculty

*SR*  
HOD

*Soumikh Roy*  
Principal  
16/1/24

**SYNERGY POLYTECHNIC, BBSR**

**The Lesson Plan**

Discipline: <i>Mechanical</i>	Semester: <i>4th</i>	Name of the Teaching Faculty: <i>Soumik Roy</i>
Subject: <i>Manufacturing Technology</i>	No of Days/per week class allotted:	Semester from Date: _____ to Date: _____ No of Weeks: _____
Week	Class Day	Theory/Practical Topics
1st	1st	<i>Composition of various tool materials</i>
	2nd	<i>Physical properties &amp; uses of such tool</i>
	3rd	<i>Cutting action of chisel, hacksaw blade</i>
	4th	<i>Cutting action of dies and reamer</i>
	5th	
2nd	1st	<i>Turning tool geometry &amp; tool angle</i>
	2nd	<i>Machining process parameters (speed, feed, Doc)</i>
	3rd	<i>Coolant and lubricants in machining</i>
	4th	<i>Introduction to lathe machine</i>
	5th	
3rd	1st	<i>Major components of lathe &amp; their functions</i>
	2nd	<i>Turning, thread, taper, parting off</i>
	3rd	<i>Safety measures during machining</i>
	4th	<i>Study of capstan lathe</i>
	5th	
4th	1st	<i>Study of capstan lathe</i>
	2nd	<i>Different components of capstan</i>
	3rd	<i>Define multiple tool holders</i>
	4th	<i>Study of turret lathe</i>
	5th	
5th	1st	<i>Introduction to shaper machine</i>
	2nd	<i>Application of shaper machine</i>
	3rd	
	4th	
	5th	

*Soumik Roy*  
Sign of Faculty


*SR*  
HOD

*Soumik Roy*  
Principal 16/11/24

# SYNERGY POLYTECHNIC, BBSR

## The Lesson Plan

Discipline: <i>Mechanical Engg</i>	Semester: <i>4th</i>	Name of the Teaching Faculty: <i>Soumikh Roy</i>
Subject: <i>Manufacturing Technology</i>	No of Days/per week class allotted:	Semester from Date: _____ to Date: _____ No of Weeks: _____
Week	Class Day	Theory/Practical Topics
1st	1st	<i>Introduction of Grinding operation</i>
	2nd	<i>Manufacturing of Grinding wheel</i>
	3rd	<i>Working of Grinding wheel</i>
	4th	
	5th	
2nd	1st	<i>Criteria for select of grinding wheel</i>
	2nd	<i>Specification of Grinding wheel</i>
	3rd	<i>Study Cylinder Grinder</i>
	4th	<i>Study Surface Grinders</i>
	5th	
3rd	1st	<i>Study of Centreless Grinders</i>
	2nd	<i>Introduction to Drilling Machine</i>
	3rd	<i>Working of Bench Drilling Machine</i>
	4th	<i>Working of Pillar Drilling Machine</i>
	5th	
4th	1st	<i>Study of Boring machine</i>
	2nd	<i>Different parts of Boring Machine</i>
	3rd	<i>Working of Boring Machine</i>
	4th	<i>Difference between Boring &amp; Drilling</i>
	5th	
5th	1st	<i>Study of Broaching operation</i>
	2nd	<i>Types of Broaching</i>
	3rd	<i>Pull type Broaching operation</i>
	4th	<i>Push type Broaching operation</i>
	5th	

  
Sign of Faculty

  
HOD

  
Principal

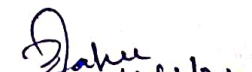
# SYNERGY POLYTECHNIC, BBSR

## The Lesson Plan

Discipline:	Semester:	Name of the Teaching Faculty:
Subject:	No of Days/per week class allotted:	Semester from Date: _____ to Date: _____ No of Weeks:
Week	Class Day	Theory/Practical Topics
1st	1st	Advantages of Broaching operation
	2nd	Applications of Broaching operation
	3rd	Understanding concept of surface finish
	4th	Effect of surface roughness of machining
	5th	
2nd	1st	Definition of surface finish
	2nd	Description of lapping
	3rd	Explain lapping's specific cutting
	4th	Effect of speed, feed & Doc on Ra
	5th	
3rd	1st	Revision of Important topics
	2nd	— Do —
	3rd	— Do —
	4th	— Do —
	5th	
4th	1st	Revision of Important machining operations
	2nd	— Do —
	3rd	Discussion of previous semesters
	4th	Practice of Last 5 year question paper
	5th	Paper
5th	1st	Practice of Last 5 years semester exam question papers
	2nd	— Do —
	3rd	— Do —
	4th	— Do —
	5th	

  
Sign of Faculty

  
HOD

  
Principal (6/1/24)