

## Lesson Plan

Name of Institute : Ambala College of Engineering and Applied Research  
 Name of the Faculty member : Dr. S.K. Jain  
 Discipline : Mechanical Engineering& Biotechnology  
 Semester : 2<sup>nd</sup> Sem  
 Subject : Engineering Graphics& Design (ES-109)  
 Lesson Plan Duration : 15 weeks (from Jan 2020 to April 2020)  
 Work Load : L 1 T2

Week	Theory		Week	Practical
	Lecture day	Topic (including assignment/ test)		
1 <sup>st</sup>	1st	Principles of Engineering Graphics and their significance		
	2nd	usage of Drawing instruments		
	3rd	Lettering, Type of Lines		
2 <sup>nd</sup>	4th	Dimensioning		
	5th	Plain Scales		
	6th	Diagonal Sales		
3 <sup>rd</sup>	7th	Vernier Scales		
	8th	Conic sections (General method only)		
	9th	Rectangular Hyperbola (General method only)		
4 <sup>th</sup>	10th	Cycloid		
	11th	Epicycloid, Hypocycloid		
	12th	Involute		
5 <sup>th</sup>	13th	Sessional 1		
	14th	Sessional 1		
	15th	Sessional 1		
6 <sup>th</sup>	16th	Projection of points		
	17th	Projection of points		
	18th	Projection of Lines		
7 <sup>th</sup>	19th	Projection of Lines inclined to one plane		
	20th	Projection of Lines inclined to both plane		
	21st	Projection of Lines inclined to both plane		
8 <sup>th</sup>	22th	Projection of planes		
	23rd	Projection of planes		
	24th	Projection of inclined planes		
9 <sup>th</sup>	25th	Projection of solids		
	26th	Projection of solidsinclined to one planes		
	27th	Projection of solidsinclined to one planes		
10 <sup>th</sup>	28th	Projection of solidsinclined to both planes		
	29th	Projection of solidsinclined to both planes		
	30th	Projection of solidsinclined to both planes		
11 <sup>th</sup>	31st	Sessional 2		
	32nd	Sessional 2		
	33rd	Sessional 2		
12 <sup>th</sup>	34th	Section of Solids		
	35th	Section of Solids		
	36th	Section of Solids		
13 <sup>th</sup>	37th	Development of surfaces		

	38th	Development of surfaces		
	39th	Development of surfaces		
14 <sup>th</sup>	40th	Isometric projection		
	41st	Isometric projection		
	42nd	Isometric projection		
15 <sup>th</sup>	43rd	Conversion of Isometric Views to Orthographic Views		
	44th	Conversion of Isometric Views to Orthographic Views		
	45th	<b>Sessional 3</b>		

(Signature of the teacher concerned with date)