Name of the Faculty : Discipline : Civil Engineering L T P

Subject : FLUID MECHANICS (PRACTICALS) Semester : 3<sup>rd</sup> - - 2

Week	Practical	Delivery Date of Practical		Whether the Lesson Plan Followed?
		Expected	Actual	Yes/No
1 <sup>st</sup>	To verify Bernoulli's Theorem			
2 <sup>nd</sup>	To verify Bernoulli's Theorem			
3 <sup>rd</sup>	To determine coefficient of velocity $(C_v)$ , Coefficient of discharge $(C_d)$ Coefficient of contraction $(C_c)$ of an orifice and verify the relation between them			
4 <sup>th</sup>	To determine coefficient of velocity $(C_v)$ , Coefficient of discharge $(C_d)$ Coefficient of contraction $(C_c)$ of an orifice and verify the relation between them			
5 <sup>th</sup>	Internal Viva Voce – 1			
$6^{ m th}$	To perform Reynold's experiment			
$7^{\mathrm{th}}$	To perform Reynold's experiment			
8 <sup>th</sup>	To verify loss of head in pipe flow due to  a. Sudden enlargement b. Sudden contraction c. Sudden bend			
9 <sup>th</sup>	To verify loss of head in pipe flow due to  a. Sudden enlargement  b. Sudden contraction  c. Sudden bend			
10 <sup>th</sup>	Internal Viva Voce – 2			
11 <sup>th</sup>	Demonstration of use of current meter and pitot tube			
12 <sup>th</sup>	Demonstration of use of current meter and pitot tube			
13 <sup>th</sup>	To determine coefficient of discharge of a rectangular notch and triangular notch			
14 <sup>th</sup>	To determine coefficient of discharge of a rectangular notch and triangular notch			
15 <sup>th</sup>	Internal Viva Voce – 3			

Name of the Faculty : Discipline : Civil Engineering L T P

Subject : APPLIED MECHANICS (PRACTICALS) Semester : 3<sup>rd</sup> - - 2

Week	Practical	Delivery Date of Practical		Whether the Lesson Plan Followed?
		Expected	Actual	Yes/No
1 <sup>st</sup>	Verification of the polygon law of forces using Gravesand's apparatus.			
$2^{\text{nd}}$	Verification of the polygon law of forces using Gravesand's apparatus.			
3 <sup>rd</sup>	To verify the forces in different members of jib crane.			
4 <sup>th</sup>	To verify the reaction at the supports of a simply supported beam.			
5 <sup>th</sup>	Internal Viva Voce – 1			
6 <sup>th</sup>	To find the mechanical advantage, velocity ratio and efficiency in case of an inclined plane.			
7 <sup>th</sup>	To find the mechanical advantage, velocity ratio and efficiency of a screw jack.			
8 <sup>th</sup>	To find the mechanical advantage, velocity ratio and efficiency of worm and worm wheel.			
9 <sup>th</sup>	To find mechanical advantage, velocity ratio and efficiency of single purchase crab.			
10 <sup>th</sup>	Internal Viva Voce – 2			
11 <sup>th</sup>	To find out center of gravity of regular lamina.			
12 <sup>th</sup>	To find out center of gravity of irregular lamina			
13 <sup>th</sup>	To determine coefficient of friction between three pairs of given surface.			
14 <sup>th</sup>	To determine coefficient of friction between three pairs of given surface.			
15 <sup>th</sup>	Internal Viva Voce – 3			

Name of the Faculty : Discipline : Civil Engineering L T P

Subject : SURVEYING – I (PRACTICALS) Semester : 3<sup>rd</sup> - - 5

Week	Practical	Delivery Date of Practical		Whether the Lesson Plan Followed?
		Expected	Actual	Yes/No
	Chain surveying:			
	i) a) Ranging a line			
1 <sup>st</sup>	b) Chaining a line and recording in the field book			
	c) Taking offsets - perpendicular and oblique (with a tape only)			
	d) Setting out right angle with a tape			
	Chain surveying:			
$2^{\text{nd}}$	ii) Chaining of a line involving reciprocal ranging			
_	iii) Chaining a line involving obstacles to ranging			
	iv) Chain Survey of a small area.			
	Compass Surveying:			
$3^{\rm rd}$	i) a) Study of prismatic compass			
	b) Setting the compass and taking observations			
	c) Measuring angles between the lines meeting at a point			
	Compass Surveying:  i) a) Study of prismatic compass			
$4^{th}$	<ul><li>i) a) Study of prismatic compass</li><li>b) Setting the compass and taking observations</li></ul>			
	c) Measuring angles between the lines meeting at a point			
<b>~</b> th				
5 <sup>th</sup>	Internal Viva Voce – 1			
	Levelling:			
41-	i) a) Study of dumpy level and levelling staff			
6 <sup>th</sup>	b) Temporary adjustments of various levels			
	c) Taking staff readings on different stations from the single setting and			
	finding differences of level between them			
	Levelling:			
$7^{\text{th}}$	ii) a) To find out difference of level between two distant points by shifting the			
	instrument			

8 <sup>th</sup>	Levelling: iii) Longitudinal and cross sectioning of a road/railway/canal		
9 <sup>th</sup>	Levelling: iv) Setting a gradient by dumpy and auto-level		
10 <sup>th</sup>	Internal Viva Voce – 2		
11 <sup>th</sup>	Plane Table Surveying:  i) a) Study of the plane table survey equipment b) Setting the plane table c) Marking the North direction d) Plotting a few points by radiation method		
12 <sup>th</sup>	Plane Table Surveying:  ii) a) Orientation by  Trough compass  Back sighting  b) Plotting few points by intersection, radiation and resection method		
13 <sup>th</sup>	Plane Table Surveying: iii) Traversing an area with a plane table (at least five lines)		
14 <sup>th</sup>	Layout of Buildings (from given drawing of two room residential building) by use of surveying instruments.		
15 <sup>th</sup>	Internal Viva Voce – 3		

Name of the Faculty : Semester : 3<sup>rd</sup> L T P

Subject : CM (PRACTICALS) Discipline : Civil Engineering - - 2

Week	Practical	Delivery Date of Practical		Whether the Lesson Plan Followed?	
WCCK	Tractical	Expected	Actual	Yes/No	
1 <sup>st</sup>	To identify the stones used in building works by visual examination	-			
2 <sup>nd</sup>	To identify the stones used in building works by visual examination				
3 <sup>rd</sup>	To determine the crushing strength of bricks				
4 <sup>th</sup>	To determine the crushing strength of bricks				
5 <sup>th</sup>	Internal Viva Voce – 1				
6 <sup>th</sup>	To determine the water absorption of bricks and efflorescence of bricks				
$7^{\text{th}}$	To determine the water absorption of bricks and efflorescence of bricks				
8 <sup>th</sup>	To identify various types of timbers such as: Teak, Sal, Chir, Shisham, Deodar, Kail & Hollock by visual examination only				
9 <sup>th</sup>	To identify various types of timbers such as: Teak, Sal, Chir, Shisham, Deodar, Kail & Hollock by visual examination only				
10 <sup>th</sup>	To identify various types of timbers such as: Teak, Sal, Chir, Shisham, Deodar, Kail & Hollock by visual examination only				
$11^{\rm th}$	Internal Viva Voce – 2				
12 <sup>th</sup>	The students should submit a report work on the construction materials, covering water proofing material, cements, steel, paints and timber products available in the local market. They will also show the competitive study based upon the cost, brand name, sizes available in the local market.				
13 <sup>th</sup>	The students should submit a report work on the construction materials, covering water proofing material, cements, steel, paints and timber products available in the local market. They will also show the competitive study based upon the cost, brand name, sizes available in the local market.				
14 <sup>th</sup>	The students should submit a report work on the construction materials, covering water proofing material, cements, steel, paints and timber products available in the local market. They will also show the competitive study based upon the cost, brand name, sizes available in the local market.				
15 <sup>th</sup>	Internal Viva Voce – 3				

Name of the Faculty : Semester : 3<sup>rd</sup> L T P

Subject: BC (PRACTICALS) Discipline: Civil Engineering - - 2

Week	Practical	Delivery Date of Practical		Whether the Lesson Plan Followed?
		Expected	Actual	Yes/No
1 <sup>st</sup>	Demonstration of tools and plants used in building construction			
$2^{\text{nd}}$	Demonstration of tools and plants used in building construction			
3 <sup>rd</sup>	Demonstration of tools and plants used in building construction			
4 <sup>th</sup>	To prepare Layout of a building: two rooms building with front verandah			
5 <sup>th</sup>	To prepare Layout of a building: two rooms building with front verandah			
6 <sup>th</sup>	Internal Viva Voce – 1			
$7^{\mathrm{th}}$	To construct brick bonds (English bond only) in one, one and half and two brick thick: (a) Walls for L, T and cross junction (b) Columns			
8 <sup>th</sup>	To construct brick bonds (English bond only) in one, one and half and two brick thick: (a) Walls for L, T and cross junction (b) Columns			
9 <sup>th</sup>	Demonstration of following items of work at construction site by:  a) Timbering of excavated trenching b) Laying damp proof courses			
10 <sup>th</sup>	Demonstration of following items of work at construction site by:  c) Construction of masonry walls  Internal Viva Voce – 2			
11 <sup>th</sup>	Demonstration of following items of work at construction site by:  d) Laying of tile flooring on an already prepared lime concrete base			
12 <sup>th</sup>	Demonstration of following items of work at construction site by:  e) Plastering and pointing exercise f) Constructing RCC work			
13 <sup>th</sup>	Demonstration of following items of work at construction site by:  g) Pre-construction and post construction termite treatment of building and woodwork			
14 <sup>th</sup>	Demonstration of following items of work at construction site by:  h) Interlocking tiles			
15 <sup>th</sup>	Internal Viva Voce – 3			

Name of the Faculty : Semester : 3<sup>rd</sup> L T P

Subject : BUILDING DRAWING Discipline : Civil Engineering - - 5

Week	Practical	Delivery Date of Practical		Whether the Lesson Plan Followed?
		Expected	Actual	Yes/No
	Drawing No. 1 (2 sheets)			
1 <sup>st</sup>	Details of spread footing foundations, load bearing and non-load bearing wall for given			
1	thickness of walls with the help of given data or rule of the thumb, showing offsets, position of			
	DPC. The details of the concrete and brick apron have to be shown in the drawing.			
- nd	Drawing No. 2 (one sheet)			
2 <sup>nd</sup>	Plans of 'T' and Corner junction of walls of 1 Brick, 1-1/2 Brick and 2 brick thick in English bond			
3 <sup>rd</sup>	<b>Drawing No. 3</b> (one sheet)			
<i>J</i>	Drawing plan, elevation of arches: circular arch, segmental arch			
4la	<b>Drawing No. 4</b> (3 sheets)			
4 <sup>th</sup>	Elevation, sectional plan and sectional side elevation of flush door, glazed door, panelled door			
+la	with wire gauge shutter.			
5 <sup>th</sup>	Internal Viva Voce – 1			
th	Drawing No. 5 (2 sheet)			
6 <sup>th</sup>	Drawing plan, elevation of a small building by measurement and foundation detail and sectional elevation.			
.1	<b>Drawing No. 6</b> : (4 sheets)			
$7^{\text{th}}$	Drawing detailed plan, elevation and section of a two room residential building from a given line			
	plan, showing details of foundations, roof and parapet			
o th	Drawing No. 6: (4 sheets)			
$8^{th}$	Drawing detailed plan, elevation and section of a two room residential building from a given line			
	plan, showing details of foundations, roof and parapet			
	Drawing No. 7 (one sheet)			
9 <sup>th</sup>	Drawings of following floors Cement concrete floors on ground and at first floor			
9	i) Wooden flooring			
	ii) Bonded cement concrete flooring			

	iii) Ceramic/vitrified tile flooring	
10 <sup>th</sup>	Drawing No. 8 (one sheet)	
10	Drawing of flat roof, showing the heat/thermal insulation provisions.	
11 <sup>th</sup>	Internal Viva Voce – 2	
	Drawing No. 9 (one sheet)	
12 <sup>th</sup>	Drawing details of damp proofing arrangement of roofs and walls as per BIS Code. Show the	the
	rain water drainage arrangement also.	
13 <sup>th</sup>	Drawing No 10	
13	Drawing Damp Proofing details in basement of buildings.	
14 <sup>th</sup>	Drawing No.11	
14	Drawing Damp proofing details in water/soil retaining structures.	
15 <sup>th</sup>	Internal Viva Voce – 3	

Name of the Faculty : Semester : 3<sup>rd</sup> L T P

Subject : SOFT SKILLS Discipline : Civil Engineering - - 2

Week	Practical	Delivery I Practi		Whether the Lesson Plan Followed?
		Expected	Actual	Yes/No
1 <sup>st</sup>	Soft Skills - Concept and Importance			
2 <sup>nd</sup>	Soft Skills - Concept and Importance			
3 <sup>rd</sup>	Communication Skills- Improving verbal communication			
4 <sup>th</sup>	Communication Skills- Improving verbal communication			
5 <sup>th</sup>	Communication Skills- Improving verbal communication			
6 <sup>th</sup>	Internal Viva Voce – 1			
7 <sup>th</sup>	Report Writing			
8 <sup>th</sup>	Report Writing			
9 <sup>th</sup>	Method to enhance memory and concentration			
10 <sup>th</sup>	Method to enhance memory and concentration			
11 <sup>th</sup>	Internal Viva Voce – 2			
12 <sup>th</sup>	Component of overall personality- Dressing sense/etiquettes/body language etc.			
13 <sup>th</sup>	Component of overall personality- Dressing sense/etiquettes/body language etc.			
14 <sup>th</sup>	Component of overall personality- Dressing sense/etiquettes/body language etc.			
15 <sup>th</sup>	Internal Viva Voce – 3			