

Kurigram Polytechnics Institute, Kurigram

Semester plan

Course name : 8871 **Construction Methodology-4**

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No. of week	No. of Class	General Objective	Remarks
1	1	1.1 State the necessity of different equipment in construction work. 1.2 List the equipment required for different construction works. 1.3 Mention the specific use of the each equipment required for construction work. .	
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2	1	2.1 Mention the purpose of pumping and dewatering. 2.2 Describe the operation and maintenance of different pumps used in construction works. 2.3 Describe the operation and maintenance of earth excavation machine. 2.4 Describe the operation and maintenance of earth excavation machine. 2.5 Describe the operation and maintenance of roller machine.	
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3	1	2.6 Describe the operation and maintenance of brick cutter. 2.7 Describe the operation and maintenance of crushing (stone/Brick) machine. 2.8 Describe the operation and maintenance of concrete mixture machine. 2.9 Describe the operation and maintenance of concrete mix plant and carrier machine. 2.10 Describe the operation and maintenance of concrete pump and compaction machine. 2.11 Describe the operation and maintenance of concrete hoisting equipment .	
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4	1	2.12 Describe the operation and maintenance of different coveyor used in construction work. 2.13 Describe the operation and maintenance of different types of vibrater machine. 2.14 Describe the operation and maintenance roof top hoisting equipment. 2.15 Building dismentling (Debris Removal and Transportalies). .	
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5	1	3.1 Mention the necessity of pre cast building components.	
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	3	3.2 Describe the construction procedure of pre cast building components. 3.3 Mention the uses of precast building component.	
6	1	4.1 State the necessity of low cost housing in Bangladesh.	
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	3	4.2 Describe the construction procedure of low cost house. 4.3 Mention the advantages and disadvantages of low cost house	
7	1	5.1 Define the Ferro Cement elements.	
	2	5.2 State the features of Ferro cement water tank.	
	3	5.3 Describe the construction procedure of Ferro cement plate. 5.4 State the assembling procedure of Ferro cement water tank. 5.5 Differentiate between Ferro cement water tank & RCC water tank. 5.6 Describe the advantages of Ferro cement water tank	
8	1	6.1 Mention the features of Ferro cement sloping roof.	
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	3	6.2 Describe the necessity of Ferro cement sloping roof. 6.3 Describe the advantages and disadvantages of Ferro cement sloping roof. 6.4 Mention different components of Ferro cement sloping roof. 6.5 Describe the construction procedure of Ferro cement sloping roof. 6.6 Describe the process of maintenance of Ferro cement sloping roof.	
9	1	7.1 Define the shell structure.	
	2	7.2 Describe different types of shell structure.	
	3	7.3 Mention different uses of shell structure. 7.4 Describe the steps of constructions of shell structure. 7.5 Describe the factors to be considered for inspection of shell structures.	
10	1	8.1 State the features Ferro cement roof channel.	
	2	8.2 Mention the necessity of Ferro cement roof channel.	
	3	8.3 Mention different structural drawing of Ferro cement roof channel. 8.4 Mention the structural stability of Ferro cement roof channel.	

		<p>8.5 Describe the pre stressing procedure of Ferro cement roof channel.</p> <p>8.6 Describe the construction procedure of Ferro cement roof channel.</p> <p>8.7 Describe the procedure setting in position of Ferro cement channel.</p> <p>8.8 Describe the stitching procedure with each other channel of Ferro cement roof channel.</p> <p>8.9 Mention the flange casting system with Ferro cement roof channel.</p> <p>8.10 Describe the factors to be considered during the inspection of Ferro cement roof channel costing and setting in position.</p> <p>8.11 Describe the process of maintenance of Ferro cement roof channel roof structure.</p> <ul style="list-style-type: none"> c. distemper d. snowcem (cement based paint) e. plastic emulsion paint f. synthetic enamel paint g. weather coat paint 	
11	1	<p>9.1 State the meaning of site development.</p> <p>9.2 Mention the purpose of site development.</p> <p>9.3 Mention the site development by manual.</p> <p>9.4 Mention the site development by mechanical equipment.</p> <p>9.5 Describe the construction procedure in both of manual and mechanical system.</p> <p>9.6 Mention the construction defects in site development</p> <p>.</p> <p>.</p>	
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12	1	<p>10.1 State the meaning of landscaping.</p> <p>10.2 Mention the components of landscape.</p> <p>10.3 Mention the factors to be considered to select the location for landscaping.</p> <p>10.4 Mention the comparison of the landscaping with land development.</p> <p>10.5 Explain the necessity of landscaping.</p> <p>10.6 Describe the process of land development</p> <p>11.1 Define fountains.</p> <p>11.2 Mention the components of fountains.</p> <p>11.3 Describe different types of fountains.</p> <p>11.4 Describe the mechanical components of fountains.</p>	
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13		11.5 Describe the installation of water supply pipe	

		<p>line.</p> <p>11.6 Describe the water re-cycling system for fountain.</p> <p>11.7 Describe the procedure of connection of pump with water supply line.</p> <p>11.8 Explain the fountain with sketch.</p> <p>11.9 Describe the maintenance system of a fountain.</p>	
13		<p>12.1 Define flower base.</p> <p>12.2 Mention different types of flower base. 12.3 Identify the location of flower base.</p> <p>12.4 Describe the construction procedure of a flower base</p> <p>13.1 Define ornamentals stairs.</p> <p>13.2 Mention the functions and location of ornamental stair.</p> <p>13.3 Define the technical terms used in ornamental stair.</p> <p>13.4 Mention the requirement of a ornamental stairs.</p> <p>13.5 List the suitable materials used in ornamental stair.</p> <p>13.6 Describe the construction procedure of a ornamental stair.</p> <p>13.7 Describe the finishing materials used in Railing, Trade, Steps and Skirting.</p> <p>13.8 Mention the Railing position and materials used in railing.</p>	
14 15 16		<p>Class test ,Quiz test, Extra class Solve problems of board question., and Semester Final Examination</p>	