

**MINUTES OF 12th MEETING
OF
BOARD OF STUDIES (BOS)**

**DEPARTMENT OF
CIVIL ENGINEERING
(INSTITUTE OF ENGINEERING &
TECHNOLOGY)**



JUNE 01, 2020

**CIVIL ENGINEERING DEPARTMENT
GLA UNIVERSITY MATHURA UTTAR PRADESH**

Minutes of the 12th Meeting of BOS 2020-21 held on Date: 01/06/2020

The Twelfth meeting of board of studies of the department of Civil Engineering was held on 01th of June 2020 in Room 121, Block VIII from 11 A.M. onwards. Member from other cities participated online.

Members present:

1. Prof. Sudhir Goyal
2. Mr. Arvind Mittal, Chief Engineer, NR, Baroda House, New Delhi
3. Dr. Sanjay Jain, Scientist G, National Institute of Hydrology, Roorkee
4. Dr. Nakul Gupta
5. Mr. Atul Soni
6. Mr. Mohit Verma

The Twelfth meeting for Academic Session 2020-21 was held on 01/06/20. The meeting was chaired by Prof Sudhir Goyal. The meeting started with welcome note to all members, especially to, Mr. Mittal and Dr. Jain and members from Civil Engineering Department by Prof Sudhir Goyal. The minutes were during the meeting were as follows

Agenda Item-12.1: To confirm the minutes of eleventh meeting of the board of studies held on May 4th, 2019.

The minutes of the meeting of 11th BOS held on May 4th, 2019 were implemented.

Agenda Item 12.2: To report the action taken on the minute of 11th meeting of Board of Studies held on May 4th, 2019

Approved by Academic Council and implemented. No action pending.

Agenda Item-12.3: To consider and approve the modification/ upgradation/ revision in syllabus of existing courses.

On the basis of feedback received from various stakeholders (students, faculty, alumni, employer) the revision /upgradation/ modification in syllabus of existing courses in various programmes is proposed as follows:

Programme	No. of courses under consideration for revision	Name of courses under consideration for revision
B.Tech (Civil Engineering)	8	<ul style="list-style-type: none"> • Introduction To Climate Change Studies • Solid And Hazardous Waste

		<ul style="list-style-type: none"> Management • Advanced Water Treatment Technologies • Air And Noise Pollution Control • Foundation Engineering • Ground Water Management • Railway Engineering • Ground Improvement Engineering
M.Tech (Structural Engineering)	7	<ul style="list-style-type: none"> • Advanced Mechanics Of Solids • Advanced Structural Analysis • Numerical Analysis & Computer Programming • Advanced Concrete Design • Earthquake Resistant Design • Advanced Concrete Technology • Concrete Technology Laboratory
M.Tech (Transportation Engineering)	5	<ul style="list-style-type: none"> • Highway Soil Mechanics • Transportation Economics And Evaluation • Ground Improvement Techniques • Tunnel Engineering • Urban Transportation Planning
MBA (Construction management)	6	<ul style="list-style-type: none"> • Building Management and Services • Repair, Retrofitting and Maintenance of Structures • Construction Economics • Quantity Surveying • Construction Methods and Techniques • Construction Materials Management

Members considered and approved the same.

Syllabus of the above courses are enclosed as annexure I

Agenda Item-12.3: To consider and approve introduction of new courses in the existing programmes.

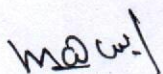
Based on the feedback of various stake holders (faculty, alumni, corporate and students) department presented details of new courses to be introduced as per CBCS. After thorough discussion board approves the same. (Annexure II)

Agenda Item-12.4: Research Cell of the University recommended modification in the Syllabus of "Research Methodology" Course as well as recommended to introduce "Research and Publication Ethics" course in PhD Programme from the Session 2020-21.

Syllabi of both the courses were duly considered by the board and subsequently approved. (Annexure III)

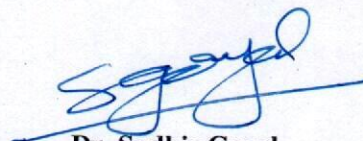
Agenda Item-12.5: To Consider & approve the list of courses having focuses on Skill development/ Entrepreneurship/ Employability.

The members Considered & approved the list of courses having focuses on Skill development/ Entrepreneurship/ Employability in relevant programme. (Annexure IV)



Mohit Verma

Module Coordinator: MBA Construction Management



Dr. Sudhir Goyal

Head of Department

Enclosures.: As above

CC : PA to Chancellor for kind information of the Chancellor
PA to Pro-Chancellor for kind information of the Chancellor
PA to Vice Chancellor for kind information of the Vice- Chancellor
PA to Pro-Vice Chancellor for kind information of the Pro-Vice Chancellor
Registrar
Dean Academics
Controller of Examination
Members of the Board of Studies

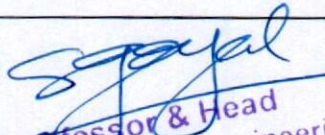
ANNEXURE IV

GLA University, Mathura
Department of Civil Engineering

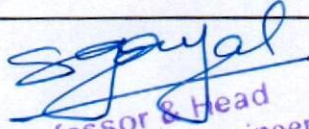
Annexure -IV

List of courses having focus on employability/ entrepreneurship/ skill development offered by the

S.No.	Name of the Course	Focus on Employability/ Entrepreneurship/ Skill development
1	Engineering Mathematics I	Skill development
2	Engineering Chemistry	Skill development
3	Engineering Physics	Skill development
4	English Language Skills for Communication - I	Skill development
5	Basic Mechanical Engineering	Skill development
6	Engineering Mathematics II	Skill development
7	English Language Skills for Communication - II	Skill development
8	Basic Electrical Engineering	Skill development
9	Fundamental of Mechanics	Skill development
10	Engineering Physics Laboratory	Skill development
11	English Language Laboratory - I	Skill development
12	Engineering Workshop Practice Laboratory	Skill development
13	Engineering Chemistry Laboratory	Skill development
14	English Language Laboratory - II	Skill development
15	Electronics Laboratory	Skill development
16	Electrical Engineering Laboratory	Skill development
17	Computer Programming	Skill development
18	Computer Programming Laboratory	Skill development
19	English for Professional Purposes -I	Skill development
20	Engineering Mathematics	Skill development
21	Soft Skills-I	Skill development
22	English for Professional Purposes -II	Skill development
23	Soft Skills-II	Skill development
24	Soft Skills – III	Skill development
25	Soft Skills – IV	Entrepreneurship
26	Basic Surveying	Entrepreneurship
27	Surveying Laboratory	Skill development
28	Geoinformatics Laboratory	Entrepreneurship
29	Basic CAD Laboratory	Skill development
30	Mechanics of solids	Skill development
31	Structural analysis	Employability
32	Design of Reinforced Concrete Structures	Skill development
33	Design of Steel Structures	Skill development
34	Quantity Surveying and Estimation	Skill development
35	Air and Noise Pollution Control	Employability
36	Building Materials and Geology	Employability
37	Construction Management and Equipments	Employability
38	Mechanics of fluid	Employability
39	Open channel hydraulics	Employability
40	Water Resources Engineering	Employability
41	Geotechnical Engineering	Employability
42	Transportation Engineering	Employability
43	Environmental Engineering	Employability
44	Fluid Mechanics Laboratory	Employability
45	Structural analysis Laboratory	Employability


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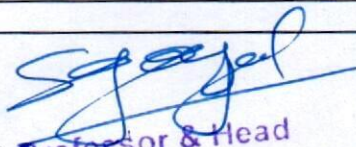
46	Structural Detailing Laboratory	Employability
47	CAD Laboratory	Employability
48	Geotechnical Engineering Laboratory	Employability
49	Transportation Engineering Laboratory	Skill development
50	Environmental Engineering Laboratory	Skill development
51	Channel Hydraulics Laboratory	Skill development
52	Advanced Design of Steel Structure	Skill development
53	Bridge Engineering	Skill development
54	Advanced Design of Concrete Structure	Skill development
55	Matrix Analysis of Structure	Skill development
56	Plastic Analysis of Structure	Skill development
57	Introduction to Earthquake Engineering	Employability
58	Construction Engineering	Employability
59	Advanced Construction Engineering	Employability
60	Earthquake Resistant Design	Employability
61	Structural Dynamics	Employability
62	Construction Engineering Laboratory	Employability
63	Computational Laboratory for Seismic Analysis	Employability
64	Advanced Construction Engineering laboratory	Employability
65	Construction Engineering Project	Employability
66	Earthquake Resistant Design Project	Employability
67	Foundation Engineering	Skill development
68	Ground Improvement Engineering	Skill development
69	Earth and Earth Retaining structure	Skill development
70	Geotechnical Exploration & Measurement Technique	Employability
71	Advanced Foundation Design	Employability
72	Advanced Foundation Engineering	Employability
73	Geosynthetic and Reinforced Soil Structures	Employability
74	Geosynthetics Testing Laboratory	Employability
75	Foundation Engineering Project	Employability
76	Geosynthetic And Reinforced Soil Structures Project	Employability
77	Engineering Hydrology	Employability
78	Ground Water Management	Employability
79	Hydro Power Engineering	Skill development
80	Hydraulic Structures	Employability
81	Introductory Rural Water Supply	Employability
82	Introduction to Climate Change studies	Employability
83	Advanced Geoinformatics	Employability
84	Applied Hydrology	Employability
85	Advanced Climate Change and Modelling	Employability
86	Advanced Water Treatment Technologies	Employability
87	Applied Hydrology Laboratory	Employability
88	Experimental Analysis of Climate	Employability
89	Advanced Water Treatment Technologies Laboratory	Employability
90	Applied Hydrology Project	Employability
91	Climate Change Modelling Project	Employability
92	Water Treatment Project	Skill development
93	Railway Engineering	Employability
94	Basics of Transportation System and Planning	Skill development
95	Airport Planning and design	Employability
96	Basics of Traffic Engineering	Employability
97	Construction Technology & Management	Employability
98	Transportation System and Planning	Employability
99	Advanced Traffic Engineering	Employability


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100	Traffic Engineering	Employability
101	Computer Aided Estimation & Planning Laboratory	Employability
102	Traffic Simulation And Analysis Laboratory	Employability
103	Traffic Engineering Laboratory	Employability
104	Transportation System and Planning Project	Employability
105	Advanced Traffic Engineering Project	Employability
106	Industrial Training	Skill development
107	Mini Project – I	Skill development
108	Mini Project - II	Skill development
109	Project I	Employability
110	Project II	Employability
111	Finite Element Analysis	Employability
112	Environmental Impact Assessment	Employability
113	Solid and Hazardous waste Management	Employability
114	Environmental Sustainable Technologies	Employability
115	Advanced Mechanics of Solids	Employability
116	Advanced Structural Analysis	Employability
117	Numerical Analysis & Computer Programming	Skill development
118	Structural Dynamics	Employability
119	Design of Prestress Concrete Structures	Employability
120	Cad Laboratory-I	Employability
121	Advance Structure Lab	Employability
122	Finite Element Method	Employability
123	Advanced Concrete Design	Employability
124	Earthquake Resistant Design	Employability
125	Advanced Concrete Technology	Employability
126	Concrete Technology Laboratory	Employability
127	Dissertation-I	Employability
128	Advance CAD Lab	Skill development
129	Dissertation –II	Employability
130	Advanced Design of Bridges	Employability
131	Non-Conventional Construction Materials & Elements	Employability
132	High Rise Structures	Employability
133	Durability Assessment and Structural Strengthening of Reinforced Concrete	Employability
134	Experimental Stress Analysis	Employability
135	Soft Computing Methods for Civil Engineering	Skill development
136	Optimization Methods in Civil Engineering	Employability
137	Soil Structure Interaction	Employability
138	Theory of Plates and Shells	Skill development
139	Retrofitting of Structures	Employability
140	Construction Management and Equipment	Employability
141	Advanced Design of Metal Structures	Employability
142	Design of Offshore and Marine Structures	Employability
143	Pavement Analysis and Design	Employability
144	Highway Soil Mechanics	Employability
145	Numerical Methods and Applied Statistics	Employability
146	Transportation Economics and Evaluation	Employability
147	Advanced Railway Engineering	Employability
148	Advanced Traffic Engineering	Employability
149	Infrastructure Project Management	Employability
150	Urban Transportation Planning	Employability
151	Environmental Impact and Risk Assessment	Employability
152	Ground Improvement Techniques	Employability
153	Introduction to Remote Sensing and GIS	Employability


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154	Modelling, Analysis and Simulation Lab	Employability
155	Application of Remote Sensing & GIS in Transportation Engineering	Employability
156	Seminar	Employability
157	Dissertation – I	Employability
158	Dissertation - II	Employability
159	Highway Construction, Quality Control and Maintenance	Skill development
160	Intelligent Transportation System	Employability
161	Airport Planning and Design	Employability
162	Advanced Concrete Technology	Employability
163	Tunnel Engineering	Employability
164	Design of Reinforced Concrete Bridges	Employability
165	Soil Structure Interaction	Employability
166	Road Materials and New Innovations in Pavement Engineering	Employability
167	Highway Construction Practice	Employability
168	Finite Element Method	Employability
169	Computer Aided Transportation Engineering Laboratory	Employability
170	Pavement Materials Laboratory	Employability
171	Project Management	Employability
172	Construction Economics	Employability
173	Quantity Surveying	Employability
174	Marketing Management	Skill development
175	Construction Methods and Techniques	Skill development
176	Research Methodology	Employability
177	Safety and Health Management	Employability
178	Construction Equipment Management	Entrepreneurship
179	Business Communication-I	Employability
180	Construction Materials Management	Employability
181	Human Resource Management	Employability
182	Building Science and Services	Employability
183	Financial Management	Entrepreneurship
184	Conventional Construction Materials and Technology	Employability
185	Tendering and Bidding	Entrepreneurship
186	Value Engineering and Lean Construction	Employability
187	Contract Management	Entrepreneurship
188	Special Construction Techniques	Employability
189	Operations Management	Employability
190	Valuation of Properties and its Strategies	Employability
191	Infrastructure Development and Operations	Employability
192	Summer Training	Employability
193	Major Project	Employability
194	Ground Improvement and Foundation Engineering	Employability
195	Port Engineering and Construction	Employability
196	Infrastructure Development and Operations Management	Employability
197	Urban Transport Planning Design and Management	Employability
198	Construction Methods in Geo-Technical Engineering	Employability
199	Urban Water and Waste Water Management	Employability
200	Principles and Practices of Real Estate Management	Entrepreneurship
201	Urban Planning and Design	Employability
202	Highway Project Development	Employability
203	Environment Management System	Employability
204	Airport Construction Management	Employability
205	Technology and Management of High- Rise Structures and Special Building	Employability
206	Repair, Retrofitting and Maintenance of Structure	Employability
207	Green Building	Employability


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208	Arbitration, Contracts and Claims Management	Employability
209	Business and Project Communications	Employability
210	Management of Public Private Partnership	Employability
211	E-Business for Construction	Employability
212	Business Communication-II	Employability
213	Numerical Methods and Applied Statistics	Employability
214	Environmental Impact and Risk Assessment	Entrepreneurship
215	Non Conventional Construction Materials & Elements	Employability
216	Advanced Concrete Technology	Entrepreneurship
217	Research Methodology	Employability
218	Research And Publication Ethics	Employability

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