



## The ICFAI University, Tripura

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Campus Address : Kamalghat (Near Agartala), PIN - 799210, Tel : 0381-2865752/62, Fax : 0381-2865754

Website : www.iutripura.edu.in, Email : registrar@iutripura.edu.in

Ref: IUT/CE/2016-17/01

Date: 12/05/2017

### Minutes of the Meeting of the Board of Studies(BOS) held on 12<sup>th</sup> May, 2017 at 11:30 AM in Board Room regarding the programme of B.Tech in Civil Engineering

Members Present in the meeting -

1. Prof. Biplab Halder, Pro-Vice Chancellor, ICFAI University, Tripura (Chairperson).
2. Dr. Priyangshu Rana Borthakur(Coordinator, Faculty of Science and Technology, ICFAI University, Tripura).
3. Prof. Ashim Paul (HoD, Civil Engineering, ICFAI University, Tripura).
4. Prof. Bipul Sen (Internal member, Assistant Professor, Civil Engineering, ICFAI University, Tripura).
5. Dr. T. K. Basu (External member, Retired Professor, IIT Kharagpur), joined through video conferencing.

#### Agenda -


- I. Modification of Course Structure for 4<sup>th</sup> year, B.Tech in Civil Engineering (Programme Code – FST001).
- II. Any other with the approval of the chair.


#### Minutes of meeting -

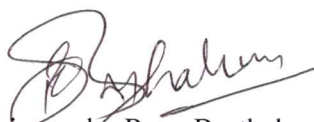
- I. The chairperson welcomed the members and introduced external BOS member to the board and further internal members introduced themselves.
- II. Chairperson advised the coordinator of FST to proceed with the meeting as per the agenda.
- III. Coordinator, FST verbally informed all the members present in the meeting about the main agenda i.e. to modify the B.Tech, Civil Engineering 4<sup>th</sup> year coursestructure and directed HoD, CE to elaborate all these modifications.
- IV. HoD, CE verbally informed the members about the proposed modifications for B.Tech, 4th year, Civil Engineering coursestructure.
- V. The following proposals were made during the presentation:
  - i. In 4<sup>th</sup> Year, 1<sup>st</sup> Semester Water Resource Engineering (CE408) will be replaced by Engineering Hydrology (CE431) and another subject named Irrigation and Water Recourses Engineering (CE433) will be incorporated in 4<sup>th</sup> year, 2<sup>nd</sup> Semester.


  
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- ii. In the current course structure Water Supply and Waste Water Engineering (CE418) covers some portion of Environmental Engineering. It is required to replace the subject by Environmental Engineering-I and Environmental Engineering-II with one Practical in 4<sup>th</sup> year Semester-I and Semester-II respectively.
- iii. This modification can be made effective from B.Tech 2014-18 and B.Tech (Lateral Entry) 2015-18 batches for upcoming semesters. The modified course structure of 4<sup>th</sup> year is given in Annexure-I.
- iv. In 4<sup>th</sup> year, 1<sup>st</sup> Semester the course named Design of Steel Structures-II Practical (CE323P) will be replaced by Computer Aided Design Practical (CE434) which will be applicable from the upcoming semester of AY 2017-18.
- v. Civil Engineering Estimation and Costing (CE475) course will be shifted from 4<sup>th</sup> year first semester to 2<sup>nd</sup> year second semester with New course code CE225 as students have to go for Internship Program after 2<sup>nd</sup> year in various Government & Private companies where they require the knowledge of estimation. This will be applicable from B.Tech 2016-20 (Regular) and B.Tech 2017-20 (Lateral Entry) onward batches as per Annexure-I.
- VI. After a detailed discussion on the above proposals, all the Board members mutually agreed to all the modifications to be made for B.Tech, 4<sup>th</sup> year, Civil Engineering Program Structure.
- VII. The meeting got successfully concluded with a Vote of Thanks from the chairperson.

  
Prof. Ashim Paul  
(HoD, CE, FST)

  
Prof. Bipul Sen  
(Internal Member, CE, FST)

  
Dr. Priyangshu Rana Borthakur  
(Coordinator, FST)

  
Chairperson  
Board of Studies  
Civil Engineering  
Faculty of Science and Technology  
ICFAI University, Tripura  
Pro-Vice Chancellor,  
ICFAI University, Tripura  
Kamalghat, West Tripura.

  
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### Annexure I

Existing Program Structure of B.Tech in Civil Engineering up to May, 2017

**B.Tech (Civil Engineering)**

**(Program Code – FST001)**

**Batch: 2014-2018**

Year	Semester-I					Semester-II					
	Course Code	Course Name	L	P	U	Course Code	Course Name	L	P	U	
<b>1st</b>	ES111	Thermodynamics	3	0	3	ENV122	Environmental Science	3	0	3	
	MA111	Mathematics I	3	0	3	ES121	Engineering Mechanics	3	0	3	
	PH111	Physics I	3	0	3	MA121	Mathematics II	3	0	3	
	CH111	Chemistry	3	0	3	PH121	Physics II	3	0	3	
	TA101	Engineering Graphics	2	4	4	TA105	Physical Sciences Lab II	0	2	1	
	TA104	Physical Sciences Lab I	0	2	1	TA102	Workshop Practice	2	4	4	
	TA111	Computer Programming I	2	2	3	TA121	Computer Programming II	2	2	3	
<b>Total No. of Credits</b>			<b>20</b>			<b>Total No. of Credits</b>			<b>20</b>		
Year	Course Code	Course Name	L	P	U	Course Code	Course Name	L	P	U	
<b>2nd</b>	MA211	Mathematics III	3	0	3	MG302	Principles of Economics	3	0	3	
	TA204	Technical Report Writing	3	0	3	TA221	Measurement Techniques	2	6	4	
	ES211	Electrical Science I	3	0	3	CE221T	Surveying II	3	0	3	
	CE211	Surveying I	3	4	5	CE221P	Surveying II Practical	0	3	2	
	ES212	Structure and Properties of Materials	3	0	3	CE223T	Mechanics of Solids	3	0	3	
	MA212	Probability & Statistics	3	0	3	CE223P	Mechanics of Solids Practical	0	3	2	
	CE214	Civil Engineering Drawing	0	6	2	CE222T	Fluid Mechanics	3	0	3	
						CE222P	Fluid Mechanics Practical	0	3	2	
						CE224	Building Materials and Construction	3	0	3	
<b>Total No. of Credits</b>			<b>22</b>			<b>Total No. of Credits</b>			<b>25</b>		
<b>Summer Term</b>	IP201	<b>Internship Program I</b>						<b>0</b>	<b>0</b>	<b>5</b>	
	Course Code	Course Name	L	P	U	Course Code	Course Name	L	P	U	

  
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3rd	MA309	Numerical Analysis	3	0	3	CE312	Design of Steel Structures I	3	0	3	
	CE315	Analysis of Structures I	3	0	3	CE324	Geotechnical Engineering-II	3	0	3	
	CE314T	Geotechnical Engineering I	3	0	3	CE326P	Transportation Engineering I Practical	0	3	2	
	CE314P	Geotechnical Engineering I Practical	0	3	2	CE326T	Transportation Engineering I	3	0	3	
	CE313	Design of Concrete Structures I	3	0	3	CE327P	Design of Concrete Structures II Practical	0	3	2	
	CE316T	Hydraulics & Hydraulic Machines	3	0	3	CE327T	Design of Concrete Structures II	3	0	3	
	CE316P	Hydraulics & Hydraulic Machines Practical	0	3	2	HS304	Dynamics of Social Changes	3	0	3	
	CE325T	Concrete Technology	3	0	3	SSU354	Soft Skills	2	0	2	
	CE325P	Concrete Technology Practical	0	3	2	CE328	Analysis of Structures II	3	0	3	
<b>Total No. of Credits</b>			<b>24</b>			<b>Total No. of Credits</b>			<b>24</b>		
<b>Summer Term</b>	IP301	<b>Internship Program II</b>							<b>0</b>	<b>0</b>	<b>5</b>
	<b>Course Code</b>	<b>Course Name</b>	<b>L</b>	<b>P</b>	<b>U</b>	<b>Course Code</b>	<b>Course Name</b>	<b>L</b>	<b>P</b>	<b>U</b>	
4th	CE323P	Design of Steel Structures II Practical	0	2	2	CEXXX	Elective	3	0	3	
	CE323T	Design of Steel Structures II	3	0	3	CE418	Water Supply and Waste Water Engineering	3	0	3	
	CE491	Special Project I	0	0	5	CE475	Civil Engineering Estimation and Costing	3	0	3	
	CE408	Water Resource Engineering	3	0	3	CE492	Special Project II	0	0	5	
	CE413	Construction Planning and Management	3	0	3	GV401	Grand Viva	0	0	3	
	CE419	Transportation Engineering II	3	0	3						
	<b>Total No. of Credits</b>			<b>19</b>			<b>Total No. of Credits</b>			<b>17</b>	

<b>Batch: 2015-2019</b>										
Year	Semester-I					Semester-II				
	Course Code	Course Name	L	P	U	Course Code	Course Name	L	P	U

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<b>1st</b>	ES111	Thermodynamics	3	0	3	ENV122	Environmental Science	3	0	3	
	MA111	Mathematics I	3	0	3	ES121	Engineering Mechanics	3	0	3	
	PH111	Physics I	3	0	3	MA121	Mathematics II	3	0	3	
	CH111	Chemistry	3	0	3	PH121	Physics II	3	0	3	
	TA101	Engineering Graphics	2	4	4	TA105	Physical Sciences Lab II	0	2	1	
	TA104	Physical Sciences Lab I	0	2	1	TA102	Workshop Practice	2	4	4	
	EGL101	English Language Skills I	3	0	3	TA121T	C Programming II	3	0	3	
	TA111	Computer Programming I	2	2	3	TA121P	C Programming II Practical	0	2	2	
	<b>Total No. of Credits</b>			<b>23</b>			<b>Total No. of Credits</b>			<b>22</b>	
<b>Year</b>	<b>Course Code</b>	<b>Course Name</b>	<b>L</b>	<b>P</b>	<b>U</b>	<b>Course Code</b>	<b>Course Name</b>	<b>L</b>	<b>P</b>	<b>U</b>	
<b>2nd</b>	MA211	Mathematics III	3	0	3	ECN201	Principles of Economics	3	0	3	
	TA204	Technical Report Writing	3	0	3	MA212	Probability and Statistics	3	0	3	
	ES211T	Basic Electrical & Electronics Engineering	3	0	3	CE221T	Surveying II	3	0	3	
	ES211P	Basic Electrical & Electronics Engineering Practical	0	3	2	CE221P	Surveying II Practical	0	3	2	
	CE211T	Surveying I	3	0	3	CE223T	Mechanics of Solids	3	0	3	
	CE211P	Surveying I Practical	0	3	2	CE223P	Mechanics of Solids.Practical	0	3	2	
	CE214	Civil Engineering Drawing	0	6	2	CE222T	Fluid Mechanics	3	0	3	
	CE224	Building Materials and Construction	3	0	3	CE222P	Fluid Mechanics Practical	0	3	2	
<b>Total No. of Credits</b>			<b>21</b>			<b>Total No. of Credits</b>			<b>21</b>		
<b>Summer Term</b>	<b>IP201</b>	<b>Internship Program I</b>						<b>0</b>	<b>0</b>	<b>5</b>	
	<b>Course Code</b>	<b>Course Name</b>	<b>L</b>	<b>P</b>	<b>U</b>	<b>Course Code</b>	<b>Course Name</b>	<b>L</b>	<b>P</b>	<b>U</b>	
<b>3rd</b>	MA309	Numerical Analysis	3	0	3	CE312	Design of Steel Structures I	3	0	3	
	SSU354	Soft Skills	2	0	2	CE328	Analysis of Structures II	3	0	3	
	CE315	Analysis of Structures I	3	0	3	CE324	Geotechnical Engineering-II	3	0	3	
	CE314T	Geotechnical Engineering I	3	0	3	CE326P	Transportation Engineering I Practical	0	3	2	
	CE314P	Geotechnical Engineering I Practical	0	3	2	CE326T	Transportation Engineering I	3	0	3	
	CE313	Design of Concrete Structures I	3	0	3	CE327P	Design of Concrete Structures II Practical	0	3	2	
	CE316T	Hydraulics & Hydraulic Machines	3	0	3	CE327T	Design of Concrete Structures II	3	0	3	
	CE316P	Hydraulics & Hydraulic Machines Practical	0	3	2		Humanities & Social Sciences Elective	3	0	3	
	CE325T	Concrete Technology	3	0	3						

  
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	CE325P	Concrete Technology Practical	0	3	2						
	<b>Total No. of Credits</b>		<b>26</b>			<b>Total No. of Credits</b>			<b>22</b>		
<b>Summer Term</b>	<b>IP301</b>	<b>Internship Program II</b>							<b>0</b>	<b>0</b>	<b>5</b>
	<b>Course Code</b>	<b>Course Name</b>	<b>L</b>	<b>P</b>	<b>U</b>	<b>Course Code</b>	<b>Course Name</b>	<b>L</b>	<b>P</b>	<b>U</b>	
<b>4th</b>	CE323P	Design of Steel Structures II Practical	0	2	2	CEXXX	Elective	3	0	3	
	CE323T	Design of Steel Structures II	3	0	3	CE418	Water Supply and Waste Water Engineering	3	0	3	
	CE328	Analysis of Structures II	3	0	3	CE475	Civil Engineering Estimation and Costing	3	0	3	
	CE408	Water Resource Engineering	3	0	3	CE492	Special Project II	0	0	5	
	CE413	Construction Planning and Management	3	0	3	GV401	Grand Viva	0	0	3	
	CE419	Transportation Engineering II	3	0	3						
	CE491	Special Project I	0	0	5						
	<b>Total No. of Credits</b>		<b>22</b>			<b>Total No. of Credits</b>			<b>17</b>		

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**Batch: 2016-2020**

Year	Semester-I					Semester-II					
	Course Code	Course Name	L	P	U	Course Code	Course Name	L	P	U	
1st	ENV122	Environmental Science	3	0	3	ES111	Thermodynamics	3	0	3	
	MA111	Mathematics I	3	0	3	ES121	Engineering Mechanics	3	0	3	
	PH111	Physics I	3	0	3	MA121	Mathematics II	3	0	3	
	CH111	Chemistry	3	0	3	PH121	Physics II	3	0	3	
	TA101	Engineering Graphics	2	4	4	TA105	Physical Sciences Lab II	0	2	1	
	TA104	Physical Sciences Lab I	0	2	1	TA102	Workshop Practice	2	4	4	
	EGL101	English Language Skill	3	0	3	TA121T	C Programming	3	0	3	
						TA121P	C Programming Practical	0	3	2	
<b>Total No. of Credits</b>			<b>20</b>			<b>Total No. of Credits</b>			<b>22</b>		
Year	Course Code	Course Name	L	P	U	Course Code	Course Name	L	P	U	
2nd	MA211	Mathematics III	3	0	3	ECN201	Principles of Economics	3	0	3	
	TA204	Technical Report Writing	3	0	3	MA212	Probability and Statistics	3	0	3	
	ES211T	Basic Electrical & Electronics Engineering	3	0	3	CE221T	Surveying II	3	0	3	
	ES211P	Basic Electrical & Electronics Engineering Practical	0	3	2	CE221P	Surveying II Practical	0	3	2	
	CE211T	Surveying I	3	0	3	CE222T	Fluid Mechanics	3	0	3	
	CE211P	Surveying I Practical	0	3	2	CE222P	Fluid Mechanics Practical	0	3	2	
	CE214	Civil Engineering Drawing	0	6	2	CE223T	Mechanics of Solids	3	0	3	
	CE224	Building Materials & Construction	3	0	3	CE223P	Mechanics of Solids Practical	0	3	2	
<b>Total No. of Credits</b>			<b>21</b>			<b>Total No. of Credits</b>			<b>21</b>		
Summer Term	IP201	Internship Program I						0	0	5	
	Course Code	Course Name	L	P	U	Course Code	Course Name	L	P	U	
3rd	MA309	Numerical Analysis	3	0	3	CE312	Design of Steel Structures I	3	0	3	
	SSU354	Soft Skills	2	0	2	CE328	Analysis of Structures II	3	0	3	
	CE315	Analysis of Structures I	3	0	3	CE324	Geotechnical Engineering-II	3	0	3	
	CE314T	Geotechnical Engineering I	3	0	3	CE326P	Transportation Engineering I Practical	0	3	2	
	CE314P	Geotechnical Engineering I Practical	0	3	2	CE326T	Transportation Engineering I	3	0	3	

  
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	CE313	Design of Concrete Structures I	3	0	3	CE327P	Design of Concrete Structures II Practical	0	3	2	
	CE316T	Hydraulics & Hydraulic Machines	3	0	3	CE327T	Design of Concrete Structures II	3	0	3	
	CE316P	Hydraulics & Hydraulic Machines Practical	0	3	2		Humanities & Social Sciences Elective	3	0	3	
	CE325T	Concrete Technology	3	0	3						
	CE325P	Concrete Technology Practical	0	3	2						
	<b>Total No. of Credits</b>		<b>26</b>			<b>Total No. of Credits</b>		<b>22</b>			
<b>Summer Term</b>	<b>IP301</b>	<b>Internship Program II</b>							<b>0</b>	<b>0</b>	<b>5</b>
	<b>Course Code</b>	<b>Course Name</b>	<b>L</b>	<b>P</b>	<b>U</b>	<b>Course Code</b>	<b>Course Name</b>	<b>L</b>	<b>P</b>	<b>U</b>	
	CE323P	Design of Steel Structures II Practical	0	2	2	CEXXX	Elective	3	0	3	
	CE323T	Design of Steel Structures II	3	0	3	CE418	Water Supply and Waste Water Engineering	3	0	3	
	CE328	Analysis of Structures II	3	0	3	CE475	Civil Engineering Estimation and Costing	3	0	3	
<b>4th</b>	CE408	Water Resource Engineering	3	0	3	CE492	Special Project II	0	0	5	
	CE413	Construction Planning and Management	3	0	3	GV401	Grand Viva	0	0	3	
	CE419	Transportation Engineering II	3	0	3						
	CE491	Special Project I	0	0	5						
	<b>Total No. of Credits</b>		<b>22</b>			<b>Total No. of Credits</b>		<b>17</b>			

  
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Revised Program Structure of B.Tech in Civil Engineering with effect from January, 2016

**B.Tech (Civil Engineering)  
(Program Code – FST001)**

Batch: 2014-2018											
Year	Semester-I					Semester-II					
	Course Code	Course Name	L	P	U	Course Code	Course Name	L	P	U	
1st	ES111	Thermodynamics	3	0	3	ENV122	Environmental Science	3	0	3	
	MA111	Mathematics I	3	0	3	ES121	Engineering Mechanics	3	0	3	
	PH111	Physics I	3	0	3	MA121	Mathematics II	3	0	3	
	CH111	Chemistry	3	0	3	PH121	Physics II	3	0	3	
	TA101	Engineering Graphics	2	4	4	TA105	Physical Sciences Lab II	0	2	1	
	TA104	Physical Sciences Lab I	0	2	1	TA102	Workshop Practice	2	4	4	
	TA111	Computer Programming I	2	2	3	TA121	Computer Programming II	2	2	3	
<b>Total No. of Credits</b>			<b>20</b>			<b>Total No. of Credits</b>			<b>20</b>		
Year	Course Code	Course Name	L	P	U	Course Code	Course Name	L	P	U	
2nd	MA211	Mathematics III	3	0	3	MG302	Principles of Economics	3	0	3	
	TA204	Technical Report Writing	3	0	3	TA221	Measurement Techniques	2	6	4	
	ES211	Electrical Science I	3	0	3	CE221T	Surveying II	3	0	3	
	CE211	Surveying I	3	4	5	CE221P	Surveying II Practical	0	3	2	
	ES212	Structure and Properties of Materials	3	0	3	CE223T	Mechanics of Solids	3	0	3	
	MA212	Probability & Statistics	3	0	3	CE223P	Mechanics of Solids Practical	0	3	2	
	CE214	Civil Engineering Drawing	0	6	2	CE222T	Fluid Mechanics	3	0	3	
						CE222P	Fluid Mechanics Practical	0	3	2	
						CE224	Building Materials and Construction	3	0	3	
<b>Total No. of Credits</b>			<b>22</b>			<b>Total No. of Credits</b>			<b>25</b>		
Summer Term	IP201	Internship Program I						0	0	5	
	Course Code	Course Name	L	P	U	Course Code	Course Name	L	P	U	

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<b>3rd</b>	MA309	Numerical Analysis	3	0	3	CE312	Design of Steel Structures I	3	0	3	
	CE315	Analysis of Structures I	3	0	3	CE324	Geotechnical Engineering-II	3	0	3	
	CE314T	Geotechnical Engineering I	3	0	3	CE326P	Transportation Engineering I Practical	0	3	2	
	CE314P	Geotechnical Engineering I Practical	0	3	2	CE326T	Transportation Engineering I	3	0	3	
	CE313	Design of Concrete Structures I	3	0	3	CE327P	Design of Concrete Structures II Practical	0	3	2	
	CE316T	Hydraulics & Hydraulic Machines	3	0	3	CE327T	Design of Concrete Structures II	3	0	3	
	CE316P	Hydraulics & Hydraulic Machines Practical	0	3	2	HS304	Dynamics of Social Changes	3	0	3	
	CE325T	Concrete Technology	3	0	3	SSU354	Soft Skills	2	0	2	
	CE325P	Concrete Technology Practical	0	3	2	CE328	Analysis of Structures II	3	0	3	
	<b>Total No. of Credits</b>			<b>24</b>			<b>Total No. of Credits</b>			<b>24</b>	
<b>Summer Term</b>	<b>IP301</b>	<b>Internship Program II</b>							<b>0</b>	<b>0</b>	<b>5</b>
	<b>Course Code</b>	<b>Course Name</b>	<b>L</b>	<b>P</b>	<b>U</b>	<b>Course Code</b>	<b>Course Name</b>	<b>L</b>	<b>P</b>	<b>U</b>	
<b>4th</b>	CE434	Computer Aided Design Practical	0	3	2	CEXXX	Elective	3	0	3	
	CE323	Design of Steel Structures II	3	0	3	CE452P	Environmental Engineering II Practical	0	3	2	
	CE451	Environmental Engineering I	3	0	3	CE452T	Environmental Engineering II	3	0	3	
	CE431	Engineering Hydrology	3	0	3	CE492	Special Project II	0	0	5	
	CE413	Construction Planning and Management	3	0	3	GV401	Grand Viva	0	0	3	
	CE419	Transportation Engineering II	3	0	3	CE433	Irrigation and Water Resource Engineering	3	0	3	
	CE475	Civil Engineering Estimation and Costing	3	0	3						
	CE491	Special Project I	0	0	5						
<b>Total No. of Credits</b>			<b>25</b>			<b>Total No. of Credits</b>			<b>19</b>		

  
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**Batch: 2015-2019**

Year	Semester-I					Semester-II					
	Course Code	Course Name	L	P	U	Course Code	Course Name	L	P	U	
1st	ES111	Thermodynamics	3	0	3	ENV122	Environmental Science	3	0	3	
	MA111	Mathematics I	3	0	3	ES121	Engineering Mechanics	3	0	3	
	PH111	Physics I	3	0	3	MA121	Mathematics II	3	0	3	
	CH111	Chemistry	3	0	3	PH121	Physics II	3	0	3	
	TA101	Engineering Graphics	2	4	4	TA105	Physical Sciences Lab II	0	2	1	
	TA104	Physical Sciences Lab I	0	2	1	TA102	Workshop Practice	2	4	4	
	EGL101	English Language Skills I	3	0	3	TA121T	C Programming II	3	0	3	
	TA111	Computer Programming I	2	2	3	TA121P	C Programming II Practical	0	2	2	
<b>Total No. of Credits</b>			<b>23</b>			<b>Total No. of Credits</b>			<b>22</b>		
Year	Course Code	Course Name	L	P	U	Course Code	Course Name	L	P	U	
2nd	MA211	Mathematics III	3	0	3	ECN201	Principles of Economics	3	0	3	
	TA204	Technical Report Writing	3	0	3	MA212	Probability and Statistics	3	0	3	
	ES211T	Basic Electrical & Electronics Engineering	3	0	3	CE221T	Surveying II	3	0	3	
	ES211P	Basic Electrical & Electronics Engineering Practical	0	3	2	CE221P	Surveying II Practical	0	3	2	
	CE211T	Surveying I	3	0	3	CE223T	Mechanics of Solids	3	0	3	
	CE211P	Surveying I Practical	0	3	2	CE223P	Mechanics of Solids Practical	0	3	2	
	CE214	Civil Engineering Drawing	0	6	2	CE222T	Fluid Mechanics	3	0	3	
	CE224	Building Materials and Construction	3	0	3	CE222P	Fluid Mechanics Practical	0	3	2	
<b>Total No. of Credits</b>			<b>21</b>			<b>Total No. of Credits</b>			<b>21</b>		
<b>Summer Term</b>	<b>IP201</b>	<b>Internship Program I</b>							<b>0</b>	<b>0</b>	<b>5</b>
	Course Code	Course Name	L	P	U	Course Code	Course Name	L	P	U	
3rd	MA309	Numerical Analysis	3	0	3	CE312	Design of Steel Structures I	3	0	3	
	SSU354	Soft Skills	2	0	2	CE328	Analysis of Structures II	3	0	3	
	CE315	Analysis of Structures I	3	0	3	CE324	Geotechnical Engineering-II	3	0	3	
	CE314T	Geotechnical Engineering I	3	0	3	CE326P	Transportation Engineering I Practical	0	3	2	
	CE314P	Geotechnical Engineering I Practical	0	3	2	CE326T	Transportation Engineering I	3	0	3	

  
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	CE313	Design of Concrete Structures I	3	0	3	CE327P	Design of Concrete Structures II Practical	0	3	2	
	ES311T	Hydraulics & Hydraulic Machines	3	0	3	CE327T	Design of Concrete Structures II	3	0	3	
	ES311P	Hydraulics & Hydraulic Machines Practical	0	3	2		Humanities & Social Sciences Elective	3	0	3	
	CE325T	Concrete Technology	3	0	3						
	CE325P	Concrete Technology Practical	0	3	2						
	<b>Total No. of Credits</b>		<b>26</b>			<b>Total No. of Credits</b>			<b>22</b>		
<b>Summer Term</b>	<b>IP301</b>	<b>Internship Program II</b>							<b>0</b>	<b>0</b>	<b>5</b>
	<b>Course Code</b>	<b>Course Name</b>	<b>L</b>	<b>P</b>	<b>U</b>	<b>Course Code</b>	<b>Course Name</b>	<b>L</b>	<b>P</b>	<b>U</b>	
<b>4th</b>	CE434	Computer Aided Design Practical	0	3	2	CEXXX	Elective	3	0	3	
	CE323	Design of Steel Structures II	3	0	3	CE452P	Environmental Engineering II Practical	0	3	2	
	CE451	Environmental Engineering I	3	0	3	CE452T	Environmental Engineering II	3	0	3	
	CE431	Engineering Hydrology	3	0	3	CE492	Special Project II	0	0	5	
	CE413	Construction Planning and Management	3	0	3	GV401	Grand Viva	0	0	3	
	CE419	Transportation Engineering II	3	0	3	CE433	Irrigation and Water Resource Engineering	3	0	3	
	CE475	Civil Engineering Estimation and Costing	3	0	3						
	CE491	Special Project I	0	0	5						
		<b>Total No. of Credits</b>		<b>25</b>			<b>Total No. of Credits</b>			<b>19</b>	

  
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**Batch: 2016-2020**

Year	Semester-I					Semester-II					
	Course Code	Course Name	L	P	U	Course Code	Course Name	L	P	U	
1 <sup>st</sup>	ENV122	Environmental Science	3	0	3	ES111	Thermodynamics	3	0	3	
	MA111	Mathematics I	3	0	3	ES121	Engineering Mechanics	3	0	3	
	PH111	Physics I	3	0	3	MA121	Mathematics II	3	0	3	
	CH111	Chemistry	3	0	3	PH121	Physics II	3	0	3	
	TA101	Engineering Graphics	2	4	4	TA105	Physical Sciences Lab II	0	2	1	
	TA104	Physical Sciences Lab I	0	2	1	TA102	Workshop Practice	2	4	4	
	EGL101	English Language Skill	3	0	3	TA121T	C Programming	3	0	3	
						TA121P	C Programming Practical	0	3	2	
<b>Total No. of Credits</b>			<b>20</b>			<b>Total No. of Credits</b>			<b>22</b>		
Year	Course Code	Course Name	L	P	U	Course Code	Course Name	L	P	U	
2 <sup>nd</sup>	MA211	Mathematics III	3	0	3	ECN201	Principles of Economics	3	0	3	
	TA204	Technical Report Writing	3	0	3	MA212	Probability and Statistics	3	0	3	
	ES211T	Basic Electrical & Electronics Engineering	3	0	3	CE221T	Surveying II	3	0	3	
	ES211P	Basic Electrical & Electronics Engineering Practical	0	3	2	CE221P	Surveying II Practical	0	3	2	
	CE211T	Surveying I	3	0	3	ES223T	Fluid Mechanics	3	0	3	
	CE211P	Surveying I Practical	0	3	2	ES223P	Fluid Mechanics Practical	0	3	2	
	CE214	Civil Engineering Drawing	0	6	2	ES222T	Mechanics of Solids	3	0	3	
	CE224	Building Materials & Construction	3	0	3	ES222P	Mechanics of Solids Practical	0	3	2	
						CE225	Civil Engineering Estimation and Costing	3	0	3	
<b>Total No. of Credits</b>			<b>21</b>			<b>Total No. of Credits</b>			<b>16</b>		
<b>Summer Term</b>	<b>IP201</b>	<b>Internship Program I</b>						<b>0</b>	<b>0</b>	<b>5</b>	
Year	Course Code	Course Name	L	P	U	Course Code	Course Name	L	P	U	
3 <sup>rd</sup>	MA309	Numerical Analysis	3	0	3	CE312	Design of Steel Structures I	3	0	3	
	SSU354	Soft Skills	2	0	2	CE328	Analysis of Structures II	3	0	3	
	CE315	Analysis of Structures I	3	0	3	CE324	Geotechnical Engineering-II	3	0	3	

  
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	CE314T	Geotechnical Engineering I	3	0	3	CE326P	Transportation Engineering I Practical	0	3	2
	CE314P	Geotechnical Engineering I Practical	0	3	2	CE326T	Transportation Engineering I	3	0	3
	CE313	Design of Concrete Structures I	3	0	3	CE327P	Design of Concrete Structures II Practical	0	3	2
	ES311T	Hydraulics & Hydraulic Machines	3	0	3	CE327T	Design of Concrete Structures II	3	0	3
	ES311P	Hydraulics & Hydraulic Machines Practical	0	3	2		Humanities & Social Sciences Elective	3	0	3
	CE325T	Concrete Technology	3	0	3					
	CE325P	Concrete Technology Practical	0	3	2					
	<b>Total No. of Credits</b>		<b>26</b>			<b>Total No. of Credits</b>		<b>22</b>		
<b>Summer Term</b>	<b>IP301</b>	<b>Internship Program II</b>						<b>0</b>	<b>0</b>	<b>5</b>
	<b>Course Code</b>	<b>Course Name</b>	<b>L</b>	<b>P</b>	<b>U</b>	<b>Course Code</b>	<b>Course Name</b>	<b>L</b>	<b>P</b>	<b>U</b>
	CE434	Computer Aided Design Practical	0	3	2	CEXXX	Elective	3	0	3
	CE323	Design of Steel Structures II	3	0	3	CE452P	Environmental Engineering II Practical	0	3	2
	CE451	Environmental Engineering I	3	0	3	CE452T	Environmental Engineering II	3	0	3
	CE431	Engineering Hydrology	3	0	3	CE492	Special Project II	0	0	5
<b>4th</b>	CE413	Construction Planning and Management	3	0	3	GV401	Grand Viva	0	0	3
	CE419	Transportation Engineering II	3	0	3	CE433	Irrigation and Water Resource Engineering	3	0	3
	CE475	Civil Engineering Estimation and Costing	3	0	3					
	CE491	Special Project I	0	0	5					
	<b>Total No. of Credits</b>		<b>25</b>			<b>Total No. of Credits</b>		<b>19</b>		

  
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