



# The ICFAI University, Tripura

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Ref: IUT/CE/2015-16/01

Date: 18/07/2015

## Minutes of the Meeting of the Board of Studies(BOS) held on 18<sup>th</sup> July, 2015 at 11:00 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. Lopamudra Halder (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 syllabus for B.Tech in Civil Engineering (Programme Code – FST001).
- II. List of elective papers to be included in the aforesaid programme.
- III. Credit distribution for B.Tech in Civil Engineering.
- IV. 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 agendas.
- 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 programme structure and directed HoD, CE to elaborate all these modifications.
- IV. HoD, CE made a presentation on the proposed curriculum for B.Tech in CE and discussed the new courses which need to be introduced in the programme.
- V. The following proposals were made during the presentation:
  - a) From the upcoming semester i.e. 2nd Semester, 2015-16 onwards, for all the batches courses containing practical classes will be segregated as separate theory and practical courses.

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- b) For B.Tech, 2012-16 batch (8th Sem); there should be four (4) compulsory papers including Special Project along with One Elective course.
- c) For B.Tech, 2013-17 batch; Internship Program II (IP401) should be omitted. Instead of the existing curriculum, students will be sent for 2 months Summer Internship Program after completion of 3rd year, 2nd Semester. There will be two elective courses in each semester of the final year.
- d) From B.Tech, 2013-17 batch onwards, Analysis of Structures II will be there in B.Tech Civil Course structure as well as for the final year students, there will be two projects in each semester of their final year named as 'Special Project I' and 'Special Project II'.
- e) From B.Tech, 2014-18 batch onwards; Electrical Science II (ES221) will be removed from 2nd year, 2nd Semester. Instead of Electrical Science II (ES221) Building Materials and Construction should be incorporated.
- f) Concrete Technology (Theory & Practical) both will be shifted to 3rd year, 1st Semester from 3rd year, 2nd Semester.
- g) For B.Tech, 2015-19 batch; Principles of Economics will be considered as Humanities Elective Course. From the same batch onwards; Electrical Science (ES211) will be redesigned as Basic Electrical and Electronics Engineering with Practical in 2nd Year, 1st Semester. Meanwhile, Measurement Techniques (TA221) will be removed from 2nd Year, 2nd Semester and Probability & Statistics (MA212) will be transferred to 2nd Year, 2nd Semester from 2nd Year, 1st Semester.
- h) From B.Tech, 2015-19 batch onwards; Soft Skills will be in the 3rd Year, 1st Semester instead of 3rd Year, 2nd Semester.
- i) From B.Tech, 2016-20 batch onwards, Thermodynamics (ES111) will be shifted to 1st Year, 2nd Semester from 1st Year, 1st Semester whereas Environmental Science (ENV122) will be shifted to 1st Year, 1st Semester from 1st Year, 2nd Semester. Computer Programming I and Computer Programming II (Theory & Practical) will be merged into one course named as C Programming (Theory & Practical) in the 1st year, 2nd Semester.
- VI. After a detailed discussion on the above proposals, it was unanimously resolved that the modification (refer Annexure I) of the syllabus in the existing programme was approved by the members of BOS and it was decided that the said revision (marked in yellow) will be sent to the Academic Council of the university for the final approval.
- VII. It was also resolved that the course-specific outcome and program outcome should be well defined and should get integrated into the current syllabus.
- VIII. Regarding the list of elective courses, the list of elective courses was produced by the HoD, CE which would be offered for the programme.

**Elective Courses for B.Tech in CE programme:**

Sl No	Course Code	Course Name	L	P	U
1	CE403	Design and Drawing of Hydraulic Structures	3	0	3
2	CE404	Design of Bridge Structures	3	0	3
3	CE406	Finite Element Methods in Civil Engineering	3	0	3

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4	CE407	Ground Improvement Techniques	3	0	3
5	CE409	Pavement Analysis and Design	3	0	3
6	CE410	Advanced Structural Analysis	3	0	3
7	CE414	Prestressed Concrete	3	0	3
8	CE416	Soil Dynamics and Machine Foundations	3	0	3
9	CE417	Structural Dynamics	3	0	3

- IX. With regards to the number of credits for courses, all members of the board agreed that each Theory course offered by the Civil Engineering should be worth 3 credits and each Practical course should be worth 2 credits.
- X. It was resolved that the modifications will be implemented from the upcoming semester i.e. 2<sup>nd</sup> Semester, 2015-16.
- XI. 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. Lopamudra Halder  
(Coordinator, FST)



Chairperson  
Board of Studies  
Civil Engineering  
Faculty of Science and Technology  
ICFAI University, Tripura  
Pro-Vice Chancellor,  
ICFAI University, Tripura  
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**Annexure I**

Existing Program Structure of B.Tech in Civil Engineering up to December, 2015

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

<b>Batch: 2012-2016</b>											
<b>Year</b>	<b>Semester-I</b>					<b>Semester-II</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>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 Units</b>			<b>20</b>			<b>Total No. of Units</b>			<b>20</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	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	CE221	Surveying II	2	4	4	
	ES212	Structure and Properties of Materials	3	0	3	CE223	Mechanics of Solids	3	2	4	
	CE211	Surveying I	3	4	5	CE222	Fluid Mechanics	3	4	5	
	MA212	Probability & Statistics	3	0	3	ES221	Electrical Science II	3	0	3	
	<b>Total No. of Units</b>			<b>20</b>			<b>Total No. of Units</b>			<b>23</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	CE323	Design of Steel Structures II	3	2	4	
	CE315	Analysis of Structures	3	0	3	CE324	Geotechnical Engineering-II	3	0	3	
	CE314	Geotechnical Engineering I	3	2	4	CE325	Concrete Technology	3	2	4	


  
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	CE313	Design of Concrete Structures I	3	0	3	CE326	Transportation Engineering I	3	2	4	
	CE316	Hydraulics & Hydraulic Machines	3	2	4	CE327	Design of Concrete Structures II	3	2	4	
	CE312	Design of Steel Structures I	3	0	3	HS304	Dynamics of Social Change	3	0	3	
	OC311	Soft Skills	2	0	2						
	CE214	Civil Engineering Drawing	0	6	2						
	<b>Total No. of Units</b>		<b>24</b>			<b>Total No. of Units</b>			<b>22</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>	CE402	Environmental Engineering	3	0	3	IP403	Internship Program III	0	0	15	
	CE412	Geotechnical Earthquake Engineering	3	0	3	GV401	Grand Viva				
	CEXXX	Elective	3	0	3						
	CE432	Concrete Technology	3	0	3						
	CE441	Water Resources Development	3	0	3						
	CE475	Civil Engineering Estimation and Costing	3	0	3						
	<b>Total No. of Units</b>		<b>18</b>			<b>Total No. of Units</b>			<b>15</b>		

<b>Batch: 2013-2017</b>											
<b>Year</b>	<b>Semester-I</b>					<b>Semester-II</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>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>		
<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	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	CE221	Surveying II	2	4	4	
	ES212	Structure and Properties of Materials	3	0	3	CE223	Mechanics of Solids	3	2	4	
	CE211	Surveying I	3	4	5	CE222	Fluid Mechanics	3	4	5	
	CE214	Civil Engineering Drawing	0	6	2	ES221	Electrical Science II	3	0	3	
	MA212	Probability & Statistics	3	0	3						
	<b>Total No. of Credits</b>			<b>22</b>			<b>Total No. of Credits</b>			<b>23</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	CE323	Design of Steel Structures II	3	2	4	
	CE315	Analysis of Structures	3	0	3	CE324	Geotechnical Engineering-II	3	0	3	
	CE314	Geotechnical Engineering I	3	2	4	CE325	Concrete Technology	3	2	4	
	CE313	Design of Concrete Structures I	3	0	3	CE326	Transportation Engineering I	3	2	4	
	CE316	Hydraulics & Hydraulic Machines	3	2	4	CE327	Design of Concrete Structures II	3	2	4	
	CE312	Design of Steel Structures I	3	0	3	HS305	Principles of Management	3	0	3	
						OC311	Soft Skills	2	0	2	
<b>Total No. of Credits</b>			<b>20</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>	IP401	Internship Program II	0	0	20	CEXXX	Elective	3	0	3
						CE418	Water Supply and Waste Water Engineering	3	0	3

  
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					CE475	Civil Engineering Estimation and Costing	3	0	3
					CE491	Special Project	0	0	5
					GV401	Grand Viva	0	0	3
					CE413	Construction Planning and Management	3	0	3
					CE419	Transportation Engineering II	3	0	3
<b>Total No. of Credits</b>				<b>20</b>	<b>Total No. of Credits</b>				<b>23</b>

<b>Batch: 2014-2018</b>											
<b>Year</b>	<b>Semester-I</b>					<b>Semester-II</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>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>	
<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	CE221	Surveying II	2	4	4	
	CE211	Surveying I	3	4	5	CE223	Mechanics of Solids	3	2	4	
	ES212	Structure and Properties of Materials	3	0	3	CE222	Fluid Mechanics	3	4	5	
	MA212	Probability & Statistics	3	0	3	ES221	Electrical Science II	3	0	3	
	CE214	Civil Engineering Drawing	0	6	2						
	<b>Total No. of Credits</b>			<b>22</b>			<b>Total No. of Credits</b>			<b>23</b>	
<b>Summer Term</b>	IP201	<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>	

  
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3rd	MA309	Numerical Analysis	3	0	3	CE312	Design of Steel Structures I	3	0	3	
	CE315	Analysis of Structures	3	0	3	CE324	Geotechnical Engineering-II	3	0	3	
	CE314	Geotechnical Engineering I	3	2	4	CE326P	Transportation Engineering I Practical	0	3	2	
	CE313	Design of Concrete Structures I	3	0	3	CE326T	Transportation Engineering I	3	0	3	
	CE316	Hydraulics & Hydraulic Machines	3	2	4	CE327P	Design of Concrete Structures II Practical	0	3	2	
						CE327T	Design of Concrete Structures II	3	0	3	
						HS304	Dynamics of Social Changes	3	0	3	
						SSU354	Soft Skills	2	0	2	
						CE325P	Concrete Technology Practical	0	2	2	
						CE325T	Concrete Technology	3	0	3	
<b>Total No. of Credits</b>			<b>17</b>			<b>Total No. of Credits</b>			<b>26</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>	
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	
	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>	

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

  
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	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>		
<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
	ES211	Electrical Science I	3	0	3	CE221T	Surveying II	3	0	3
	CE211T	Surveying I	3	0	3	CE221P	Surveying II Practical	0	3	2
	CE211P	Surveying I Practical	0	3	2	CE223T	Mechanics of Solids	3	0	3
	CE214	Civil Engineering Drawing	0	6	2	CE223P	Mechanics of Solids Practical	0	3	2
	CE224	Building Materials and Construction	3	0	3	CE222T	Fluid Mechanics	3	0	3
						CE222P	Fluid Mechanics Practical	0	3	2
						TA221	Measurement Techniques	2	6	4
	<b>Total No. of Credits</b>		<b>19</b>			<b>Total No. of Credits</b>		<b>25</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
	CE315	Analysis of Structures I	3	0	3	CE328	Analysis of Structures II	3	0	3
	CE314T	Geotechnical Engineering I	3	0	3	CE324	Geotechnical Engineering-II	3	0	3
	CE314P	Geotechnical Engineering I Practical	0	3	2	CE326P	Transportation Engineering I Practical	0	3	2
	CE313	Design of Concrete Structures I	3	0	3	CE326T	Transportation Engineering I	3	0	3
	CE316T	Hydraulics & Hydraulic Machines	3	0	3	CE327P	Design of Concrete Structures II Practical	0	3	2
	CE316P	Hydraulics & Hydraulic Machines Practical	0	3	2	CE327T	Design of Concrete Structures II	3	0	3
	CE325T	Concrete Technology	3	0	3		Humanities & Social Sciences Elective	3	0	3
	CE325P	Concrete Technology Practical	0	3	2	SSU354	Soft Skills	2	0	2
	<b>Total No. of Credits</b>		<b>24</b>			<b>Total No. of Credits</b>		<b>24</b>		

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Summer Term	IP301	Internship Program II									0	0	5
	Course Code	Course Name	L	P	U	Course Code	Course Name	L	P	U			
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			
	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>			

Batch: 2016-2020											
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	

  
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	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							
	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>25</b>			<b>Total No. of Credits</b>			<b>19</b>

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

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

<b>Batch: 2012-2016</b>											
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	CE221	Surveying II	2	4	4	
	ES212	Structure and Properties of Materials	3	0	3	CE223	Mechanics of Solids	3	2	4	
	CE211	Surveying I	3	4	5	CE222	Fluid Mechanics	3	4	5	
	MA212	Probability & Statistics	3	0	3	ES221	Electrical Science II	3	0	3	
	<b>Total No. of Credits</b>			<b>20</b>			<b>Total No. of Credits</b>			<b>23</b>	
Summer Term	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	
3rd	MA309	Numerical Analysis	3	0	3	CE323	Design of Steel Structures II	3	2	4	
	CE315	Analysis of Structures	3	0	3	CE324	Geotechnical Engineering-II	3	0	3	
	CE314	Geotechnical Engineering I	3	2	4	CE325	Concrete Technology	3	2	4	

	CE313	Design of Concrete Structures I	3	0	3	CE326	Transportation Engineering I	3	2	4
	CE316	Hydraulics & Hydraulic Machines	3	2	4	CE327	Design of Concrete Structures II	3	2	4
	CE312	Design of Steel Structures I	3	0	3	HS304	Dynamics of Social Change	3	0	3
	OC311	Soft Skills	2	0	2					
	CE214	Civil Engineering Drawing	0	6	2					
	<b>Total No. of Credits</b>		<b>24</b>			<b>Total No. of Credits</b>		<b>22</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>	IP401	Internship Program II	0	0	20	CEXXX	Elective	3	0	3
						CE418	Water Supply and Waste Water Engineering	3	0	3
						CE475	Civil Engineering Estimation and Costing	3	0	3
						CE491	Special Project	0	0	5
						GV401	Grand Viva	0	0	3
						CE413	Construction Planning and Management	3	0	3
						CE419	Transportation Engineering II	3	0	3
		<b>Total No. of Credits</b>		<b>20</b>			<b>Total No. of Credits</b>		<b>23</b>	

<b>Batch: 2013-2017</b>										
<b>Year</b>	<b>Semester-I</b>					<b>Semester-II</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>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>	
<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	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	CE221	Surveying II	2	4	4

	ES212	Structure and Properties of Materials	3	0	3	CE223	Mechanics of Solids	3	2	4	
	CE211	Surveying I	3	4	5	CE222	Fluid Mechanics	3	4	5	
	CE214	Civil Engineering Drawing	0	6	2	ES221	Electrical Science II	3	0	3	
	MA212	Probability & Statistics	3	0	3						
	<b>Total No. of Credits</b>		<b>22</b>			<b>Total No. of Credits</b>		<b>23</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	3	0	3	
	CE315	Analysis of Structures	3	0	3	CE324	Geotechnical Engineering-II	3	0	3	
	CE314	Geotechnical Engineering I	3	2	4	CE325P	Concrete Technology Practical	0	2	2	
	CE313	Design of Concrete Structures I	3	0	3	CE325T	Concrete Technology	3	0	3	
	CE316	Hydraulics & Hydraulic Machines	3	2	4	CE326P	Transportation Engineering I Practical	0	2	2	
						CE326T	Transportation Engineering I	3	0	3	
						CE327P	Design of Concrete Structures II Practical	0	2	2	
						CE327T	Design of Concrete Structures II	3	0	3	
						HS305	Principles of Management	3	0	3	
						OC311	Soft Skills	2	0	2	
	<b>Total No. of Credits</b>		<b>17</b>			<b>Total No. of Credits</b>		<b>26</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	
	CEXXX	Elective	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>			

**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	<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	
	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	

  
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	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>	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>										
<b>Year</b>	<b>Semester-I</b>					<b>Semester-II</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>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

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	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					
	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>

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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	
	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>	

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	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	

  
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	Total No. of Credits		21			Total No. of Credits		16			
<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						
	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						

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	Total No. of Credits	22	Total No. of Credits	17
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Kamalghat, Tripura (West).