MIT Academy of Engineering

An autonomous institute affiliated to Savitribai Phule Pune University

CURRICULUM FRAMEWORK- (CIVIL ENGINEERING)

The B. Tech Program shall be based on the following types of courses

SL. NO.	TYPE OF COURSE	ABBREVIATION
1.	Natural Science	NSC
2.	Engineering Science	ESC
3.	Program Core	PC
4.	Discipline Core	DC
5.	Department Elective	DE
6.	Open Elective	OE
7.	Humanities and Social Science	HSS
8.	Skill Development and Project	SDP

The Course and Credit Distribution shall be as under,

SL NO	TYPE OF COURSE	NO. OF	TOTAL CREDITS		
02.110.		COURSES	NO.	%	
1.	Natural Science	4	18	10.96	
2.	Engineering Science	4	16	9.76	
3.	Program Core	5	19	11.59	
4.	Discipline Core	12	48	29.27	
5.	Department Elective	2	6	3.66	
6.	Open Elective	4	16	9.76	
7.	Humanities and Social Science	8/9	17	10.37	
8.	Skill Development and Project	10/9	24	14.63	
	TOTAL	49	164	100	

	COURSE DISTRIBUTION: SEMESTER WISE										
SL.		NO. OF COURSES/SEMESTER								TOTAL	
NO.	TTPE OF COURSE	1	2	3	4	5	6	7	8		
1.	Natural Science	2	2							4	
2.	Engineering Science	2	2							4	
3.	Program Core			3	2					5	
4.	Discipline Core			2	2	3	3	1	1	12	
5.	Department Elective							1	1	2	
6.	Open Elective					1	1	1	1	4	
7.	Humanities & Social Science	1	1		1	1	2	1/2	2	8/9	
8.	Skill Development & Project	1	1	1	1	1	1	2/3	1	9/10	
	TOTAL	6	6	6	6	6	7	5	6	49	

	CREDIT DISTRIBUTION: SEMESTER WISE									
1 Lecture hour = 1 Credit 2 Lab Hours = 1 Credit 1 Tutorial Hour = 1 Credit										
SL.		NO. OF CREDITS/SEMESTER								
NO.		1	2	3	4	5	6	7	8	TOTAL
1.	Natural Science	9	9							18
2.	Engineering Science	8	8							16
3.	Program Core			11	8					19
4.	Discipline Core			8	8	12	12	4	4	48
5.	Department Elective							3	3	6
6.	Open Elective					4	4	4	4	16
7.	Humanities & Social Science	2	2		3	2	3	2	3	17
8. Skill Development & Project			2	2	2	2	2	8	4	24
	TOTAL	21	21	21	21	20	21	22	18	164

Format No. : MITAOE/ACAD/ 001

Rev. Date : 01/12/2017

M (An	Academy of Engineering (An Autonomous Institute)			CURRICULUM STRUCTURE (2016 - 2020)				
SCH	SCHOOL OF MECHANICAL & CIVIL ENGINEERING			W. E. F	:	2016-17		
F	FIRST YEAR BACHELOR OF TECHNOLOGY			RELEASE DATE	:	01/06/20	16	
DEPA	RTMENT OF	CIVIL ENGIN	IEERING	REVISION NO.	:	0.0		
SEME	STER: I	I	I					
SL. No.				COURSE		TEA		CHEME
							P/T*	CREDIT
1.	NSC1	AS101	Mathemat	ics – I		4	1	5
2.	NSC2	AS102/ AS103	Physics/ C	Chemistry		3	2	4
3.	ESC1	EX101/ CV101	Electrical & Electronics Engg/ Applied Mechanics			3	2	4
4.	ESC2	ME101/ IT101	Engineering Graphics/ Computer Programming			2	4	4
5.	HSS1	HP101	Language & Communication – I			1	2	2
6.	SDP1	ME102/ ME103	Experimer Technique	Experimental Tools & Techniques/ Design Thinking			4	2
		TO	TAL			13	15	21
SEME	STER: II							
SI No	COURSE	COURSE		COURSE		TEACHING SCHEME		
3L. NO.	TYPE	CODE		COURSE		L	P/T	CREDIT
1.	NSC3	AS101	Mathemat	ics – II		4	1	5
2.	NSC4	AS103/ AS102	Chemistry	/ Physics		3	2	4
3.	ESC3	CV101/ EX101	Applied M Electronic	echanics/ Electrical a s Engg	&	3	2	4
4.	ESC4	IT101/ ME101	Computer Engineerin	Computer Programming/ Engineering Graphics			4	4
5.	HSS2	HP101	Language	& Communication -		1	2	2
6.	SDP2	ME103/ ME102	Design Thinking/ Experimental Tools & Techniques				4	2
		ТО	TAL			13	15	21

L: Lecture, P: Practical, T:Tutorial; *Applicable for FY BTech

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(An Autonomous Institute)		CURRICULUM STRUCTURE (2016 - 2020)						
SCH	SCHOOL OF MECHANICAL & CIVIL ENGINEERING			W. E. F	:	2017-18		
SE	SECOND YEAR BACHELOR OF TECHNOLOGY			RELEASE DATE	:	01/06/2017		
	PARTMEN	IT OF CIVIL E	GG	REVISION NO.	:	0.0		
SEM	ESTER: III							
SL.	COURSE	COURSE	COURSE			TEACI	HING S	CHEME
No.	TYPE	CODE				L	Р	CREDIT
1.	PC1	CH201	Environmental Science			2	2	3
2.	PC2	AS201	Applied Mathematics			3	2	4
3.	PC3	ET201	System Engineering			3	2	4
4.	DC1	CV201	Continuum Mechanics of Solids			3	2	4
5.	DC2	CV202	Geospatial Engineering Technology			3	2	4
6.	SDP3	ET206	Prototypi	ng			4	2
		то	TAL			14	14	21
SEM	ESTER: IV	r	1			-1		
SL.		COURSE		COURSE		TEACI	HING S	
NO.	ITPE	CODE				L	P	CREDIT
1.	PC4	IT201	Engineer	ing Informatics		3	2	4
2.	PC5	ME201	Materials	Engineering		3	2	4
3.	DC3	CV211	Building	Design & Construction	า	3	2	4
4.	DC4	CV212	Geotech	nical Engineering		3	2	4
5.	HSS3	HP201	Psychology			3		3
6.	SDP4	CV213	Minor Project				4	2
		ТО	TAL			15	12	21

Т

L: Lecture, P: Practical

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Academy of Engineering

CURRICULUM STRUCTURE (2016 - 2020)

(An Autonomous Institute)

SCHOOL OF MECHANICAL & CIVIL ENGINEERING	W. E. F	: 2018-19
THIRD YEAR BACHELOR OF TECHNOLOGY	RELEASE DATE	: 01/06/2018
DEPARTMENT OF CIVIL EGG	REVISION NO.	: 0.0

SEMESTER: V

SL.	COURSE	COURSE	COURSE	TEACHING SCHEME			
No.	TYPE	CODE		L	Р	CREDIT	
1.	DC5	CV301	Mechanics of Fluids	3	2	4	
2.	DC6	CV302	Structural Analysis	3	2	4	
3.	DC7	CV303	Concrete Technology	3	2	4	
4.	OE1	CV31#	Open Elective - Refer Annexure.	3	2	4	
5.	HSS4	HP301	Project Management	1	2	2	
6.	SDP5	CV30#	Skill Development Lab - Refer Annexure		4	2	
		13	14	20			

SEMESTER:VI

SL.	COURSE	COURSE	0011005	TEAC	HING S	ING SCHEME	
No.	TYPE	CODE	COURSE	L	Р	CREDIT	
1.	DC8	CV321	Design of Structures	3	2	4	
2.	DC9	CV322	Transportation Engineering	3	2	4	
3.	DC10	CV323	Water Resources Engineering	3	2	4	
4.	OE2	CV33#	Open Elective - Refer Annexure.	3	2	4	
5.	HSS5	HP302	Professional Skills		4	2	
6.	HSS6	HP303	Basics of Entrepreneurship		2	1	
7.	SDP6	CV324	Mini Project		4	2	
		12	18	21			

L: Lecture, P: Practical

(An	(An Autonomous Institute)			CURRICUI (20	Ll)1	JM STR 6 - 2020	UCTU)	IRE
SCH	IOOL OF ME ENGI	ECHANICAL & NEERING	& CIVIL	W. E. F	:	2019-20		
I	FINAL YEAR TECH	BACHELOR	OF	RELEASE DATE	:	01/06/2019	I	
	DEPARTMEN	NT OF CIVIL E	EGG	REVISION NO.	:	0.0		
SEM	ESTER: VII							
SL.	COURSE	COURSE		COURSE		TEAC	HING S	CHEME
NO.	IYPE	CODE				L	Р	CREDIT
1.	DC11	CV401	Drinking \ Engineeri	Drinking Water & Sanitary Engineering			2	4
2.	DE1	CV41#	Discipline Elective - Refer Annexure.			3		3
3.	OE3	CV42#	Open Elective - Refer Annexure.			3	2	4
4.	HSS7	HP401	Engineeri	Engineering Economics				2
5.	HSS9/ SDP7	HP403/ CV403	Business Town Pla	Strategies / Urban & nning			2	1
6.	SDP8	CV402	Project - I				8	4
7.	SDP9	CV404	Summer	Internship				4
		то	TAL			11	14	22
SEM	ESTER: VIII		1			-		
SL.	COURSE	COURSE		COURSE		TEAC	HING S	CHEME
No.	ТҮРЕ	CODE				L	Р	CREDIT
1.	DC12	CV431	Estimatio	n & Costing		3	2	4
2.	DE2	CV44#	Discipline Annexure	Elective - Refer		3		3
3.	OE4	CV45#	Open Ele	ctive - Refer Annexur	е	3	2	4
4.	HSS8	HP402	Sociology	1		2		2
5.	5. SDP10 CV432 Project - II					8	4	
		то	TAL			11	12	17

L: Lecture, P: Practical

CREDITS									
1 Lecture hour = 1 Credit 2 Lab Hours = 1 Credit 1 Tutorial Hour = 1 Credit									
	YEAR	SEME	τοται						
3L. NO.		1	2	TOTAL					
1.	First Year	21	21	42					
2.	Second Year	21	21	42					
3.	Third Year	20	21	41					
4.	Final Year	22	17	39					
	164								

CONTACT HOURS								
SI No	VEAD	SEME	STER	ΤΟΤΑΙ				
3L. NO.		1	2	TOTAL				
1.	First Year	28	28	56				
2.	Second Year	28	27	55				
3.	Third Year	28	29	57				
4.	Final Year	25	23	48				
	216							

ANNEXURE

Natural Science (NSC): 4 Courses				
SI. No.	Course Code	Name of Course		
1.	AS101	Mathematics – 1		
2.	AS104	Mathematics – 2		
3.	AS102	Physics		
4.	AS103	Chemistry		

Engineering Science (ESC): 4 Courses				
SI. No.	Course Code	Course Code Name of Course		
1.	EX101	Electrical and Electronics Engineering		
2.	ME101	Engineering Graphics		
3.	CV101	Applied Mechanics		
4.	IT101	Computer Programming		

Program Core (PC): 5 Courses				
SI. No.	Course Code	Name of Course		
1.	CH201	Environmental Science		
2.	AS201	Applied Mathematics		
3.	ET201	System Engineering		
4.	IT201	Engineering Informatics		
5.	ME201	Materials Engineering		

Discipline Core (DC): 12 Courses				
SI. No.	Course Code	Name of Course		
1.	CV201	Continuum Mechanics of Solids		
2.	CV202	Geospatial Engineering		
3.	CV211	Buildings Design and Construction		
4.	CV212	Geotechnical Engineering		
5.	CV301	Mechanics of Fluids		
6.	CV302	Structural Analysis		
7.	CV303	Concrete Technology		
8.	CV321	Design of Structures		
9.	CV322	Transportation Engineering		
10.	CV323	Water Resources Engineering		
11.	CV401	Drinking Water & Sanitary Engineering		
12.	CV431	Estimation & Costing		

Department Elective (DE): 2 Courses				
	Course Code	Name of Course		
	CV411	Building Services		
1.	CV412	Advanced Design of Structures		
	CV413	Railway Engineering		
	CV414	Hydro Power Engineering		
2.	CV441	Foundation Engineering		
	CV442	Engineering Geology		

	CV443			Design of Hydraulic Structures		
	CV444	CV444		Air & Noise Pollution and Control measures		
	CV445			Advances in Geospatial Engineering		
Open Electi	ve (OE): 4 C	ourse	es			
Construction	SI. No.	Cou	ırse C	Code	Name of Course	
Project Management	1.	CV3	311		Construction Planning & Management	
Management	2.	CV3	331		Operation Research	
	3.	CV4	121		Financial Management	
	4.	CV4	151		Statistical Methods in Construction	
	(List of	Ope f cour	n Electiv ses for A	ve (OE): Term - I Academic Year 2018-19)	
Chemical						
1	CH31	1	Pro	cess Mo	deling and Simulation.	
2	CH31	2	Pipi	Piping Engineering		
Civil			•			
3	CV31	CV311 Constru		nstructior	n Planning & Management	
Computer			1			
4	IT311	IT311 Cr		ptograph	y & System Security	
5	CS31	CS311 De		scriptive /	Analytics	
6	CS31	CS312 Ar		ficial Inte	lligence & Neural Network	
Electronics			1			
7	EX31	EX311 Fundamenta		ndamenta	als of Robotics	
E & TC			1			
8	ET31	1	Em	Embedded System Programming (ESP)		
9	ET31	2	loT	Architec	ture and Protocols	
IT			r			
10	IT311	IT311 Cry		Cryptography & System Security		
11	CS31	CS311 Desc		escriptive Analytics		
12	CS31	2	Artificial Inte		lligence & Neural Network	
Mechanical						
13	ME31	1	Geo	ometric N	lodeling & Design	
14	ME31	2	Fun	ndamenta	als of Robotics	
15	ME31	ME313 W		ork Process Assessment		

Open Elective (OE): Term - II (List of courses for Academic Year 2018-19)				
Chemical				
1	CH331	Process Engineering.		
2	CH332	Piping Layout		
Civil				
3	CV331	Operation Research		
Computer				
4	IT331	Cyber Security		
5	CS331	Data Science-I		
6	CS332	Machine Learning		
Electronics				
7	EX331	Kinematics and Dynamics of Robotics		
E & TC				
8	ET331	Embedded Processor		
9	ET332	IoT Network & Protocols		
IT		-		
10	IT331	Cyber Security		
11	CS331	Data Science-I		
12	CS332	Machine Learning		
Mechanical				
10	ME331	Finite Element Analysis		
11	ME332	Kinematics & Dynamics of Robots		
12	ME333	Facility Planning & Design		

Open Elective (OE): Term - I (List of courses for Academic Year 2019-20)

Chemical		
1	CH421	Process Optimization
2	CH422	Piping Design & Engineering
Civil		
3	CV421	Financial Management
Computer		
4	IT421	Ethical Hacking & Cyber Laws
5	CS421	Data Science-II
6	CS422	Pattern Recognition
Electronics		
7	EX421	Robotics Vision and Control
E & TC		
8	ET421	Low-Power SoC Architecture & Applications (SoC&A)
9	ET422	Privacy and Security in IoT
IT		
10	IT421	Ethical Hacking & Cyber Laws
11	CS421	Data Science-II
12	CS422	Pattern Recognition
Mechanical		
13	ME421	Computational Fluid Dynamics
14	ME422	Robotics Vision and Control
15	ME423	Operations Management

Open Elective (OE): Term - II (List of courses for Academic Year 2019-20)				
Chemical				
1	CH451	Process Intensification & Integration		
2	CH452	Pipeline Engineering		
Civil				
3	CV451	Visualization & Information Exchange		
Computer				
4	IT451	Cyber Forensics		
5	CS451	Practitioner's approach for Data analytics		
6	CS452	Reinforcement Learning		
Electronics				
7	EX451	Intelligent and High Performance Robotics		
E & TC				
8	ET451	Real-Time Embedded System (RES)		
9	ET452	Energy Management for IoT Devices		
IT		-		
10	IT451	Cyber Forensics		
11	CS451	Practitioner's approach for Data analytics		
12	CS452	Reinforcement Learning		
Mechanical				
13	ME451	Advanced Analysis		
14	ME452	Intelligent and High Performance Robotics		
15	ME453	Supply Chain Management		

Humanities and Social Science (HSS): 9 Courses				
SI. No.	Course Code	Name of Course		
1.	HP101	Language & Communication – I		
2.	HP102	Language & Communication – II		
3.	HP201	Psychology		
4.	HP301	Project Management		
5.	HP302	Professional Skills		
6.	HP303	Basics of Entrepreneurship		
7.	HP401	Engineering Economics		
8	HP402	Sociology		
9	HP403	Business Strategies		

Skill Development and Project (SDP): 10 Courses				
SI. No.	Course Code	Name of Course		
1.	ME102	Engineering Tools and Techniques		
2.	ME103	Design Thinking		
3.	ET206	Prototyping		
4.	CV213	Minor Project		
5.	CV304	ETABS (Extended Three-Dimensional analysis of building system)		
6.	CV403	Urban & Town Planning		
7.	CV324	Mini Project		
8.	CV402	Project - I		
9.	CV404	Summer Internship		
10.	CV432	Project - II		

1. ELIGIBILITY:

- I. No live backlogs
- II. CGPA of 8.50 and above
- III. If Recruiter/s (MNCs) have asked for semester long internship to the selected student/s (before joining the organization after his / her graduation), then in special case recruited students can apply for the same. (Only criteria-I should be satisfied by the student)

Only students satisfying the above criteria can be permitted for semester-long internship in any MNCs / R&D laboratories such as DRDO, NCL, NEERI, CDAC and Institutions like IITs/ NITs / International institutes of repute.

2. <u>DEADLINES:</u>

For the current batch, the applications must be submitted by 30, November 2019 by all students desired to go for the semester long internship.

3. <u>APPLICATION PROCEDURE:</u>

The student must submit a proposal of the semester-long internship including details of the organization along with the details of the project in brief, copy of their CV and copies of mark sheet to the respective school Corporate Relations (CR) coordinator. The application must be as per the format given below.

Application for Internship Program

Sr. No.	Particulars	
1	Name of the applicant (in bold letters)	
2	Gender	
3	School	
4	Date of Birth & Age (as on date)	
5	Roll Number & PRN	
6	Address for correspondence with mobile	
0	/ telephone number and email-id	
7	Name & address of the Institute /	
1	Industry	
8	Core Domain of Institute / Industry	
0	Contact details Supervisor / HR Mobile /	
9	Telephone number and email-id	
10	Period of internship	24-26 weeks
11	Details of the Project proposed	

Signatures

Student	School Internship Coordinator
Approved by:	
No. of credits proposed	6 / 10
Dean – School of Engineering	MIT AOE Seal
Date:	

4. <u>RULES AND CONDITIONS:</u>

- I. Sponsored project should be along the same track of the minor (Open Elective) chosen by the student. (desirable)
- II. Semester long internship is applicable only in the 8th semester. The distribution of credits for the VIII semester is as follows

DC	Department Core	4 Credits
DE	Department Elective	3 Credits
OE	Open Elective	4 Credits
HSS	Humanities & Social science	2 Credits
SDP	Skill development and Project	4 Credits

- III. For a student who are opting for a semester long internship, 10 credits (OE, HSS and SDP) will be awarded if OE is part of the internship otherwise 6 credits will be awarded.
- IV. The equivalence courses for the DC, DE and OE are floated by the Schools.
- V. The credits of DC, DE and OE should be earned through MOOC courses.
- VI. If a student is not able to successfully earn the credits of the DC / DE / OE within the stipulated time, they will not be eligible for graduation in the same academic year.

5. ASSESSMENT METHOD:

Credits for the semester-long internship need to be earned by the students by the following assessment in front of the panel.

- I. The Panel for the evaluation should be 3 members (if 3 credits) or 4 members (if 5 credits). The composition of the team would be as follows.
 - a. Dean, Respective School
 - b. Project Guide
 - c. CR Coordinator / Project Coordinator
 - **d.** Project Guide (Industry)
 - e. The domain expert (In case of 5 credits, as per the minor specialization)
- II. Presentation I at the end of 45th day and presentation II at the end of 90th day from the start of the project combined to a total weightage of 5 credits (3 credits if OE is exempted). It can be possible to do through Skype, if acceptable to the panel. In Grade card it will be mentioned as SLIP Project Design.
- III. Presentation at the end of the Internship Work and Final Internship Report after the completion of the Internship Work combined for a total weightage of 5 credits (3 credits if OE is exempted) and should be as per the template). In Grade card it will be mentioned as SLIP – Project Implementation.

5.2 ASSESSMENT METHOD FOR OTHER COURSES RUN THROUGH INSTITUTE LMS:

Credits for the courses run through Go-Webinar will be assessed using the following methods.

- I. There will be SIX assignments (one per unit) to be submitted through the moodle. This will have a weightage of 30% of the total score. This contributes to the IA for the course.
- II. There will be SIX quizzes (one per unit) to be conducted through moodle. This will have a weightage of 30% of the total score. This contributes to the ISE for the course.
- III. One FINAL presentation to be done at the end and evaluated by a team of THREE members including the Course Champion, Instructor and any other nominated member by the respective School Dean. This will have a weightage of 40% of the total score. This contributed for the ESE of the course.

(An Autonomous Institute)		CURRICULUM STRUCTURE (2016 - 2020)						
SCHOOL OF MECHANICAL & CIVIL ENGINEERING		W. E. F	:	2019-20 (PART B)				
FINAL YEAR BACHELOR OF TECHNOLOGY CIVIL ENGINEERING		RELEASE DATE	:	01/12/2018				
		REVISION NO.	:	0.0				
SEM	ESTER: VII	_	-					
SL.	COURSE	COURSE		COURSE		TEACHING SCHEME		
No.	TYPE	CODE				L	Р	CREDIT
1.	DC11	CV401	Drinking W Engineerin	/ater & Sanitary		3	2	4
2.	DE1	CV41#	Discipline Elective - Refer Annexure.			3		3
3.	OE3	CV42#	Open Elective - Refer Annexure.			3	2	4
4.	HSS7	HP401	Engineering Economics			2		2
5.	HSS9/ SDP7	HP403/ CV403	Business Strategies / Urban & Town Planning				2	1
6.	SDP8	CV402	Project - I				8	4
7.	SDP9	CV404	Summer Internship					4
	TOTAL			11	14	22		
SEMES	SEMESTER: VIII (SLIP not Online with the Open elective)							
SL.	COURSE	COURSE		COURSE		TEACHING SCHEME		
No.	TYPE	CODE				L	Р	CREDIT
1.	DC12	CV431	Estimation & Costing			3	2	4
2.	DE2	CV44#	Discipline Elective - Refer Annexure			3		3
3.	OE4	CV45#	Open Elective - Refer Annexure			3	2	4
4.	4. SEMESTER LONG INTERNSHIP – Project Design				6	3		
5. SEMESTER LONG INTERNSHIP – Project Implementation				6	3			
		то	TAL			7	20	17

L: Lecture, P: Practical

(An Autonomous Institute)		CURRICULUM STRUCTURE (2016 - 2020)						
SCHOOL OF MECHANICAL & CIVIL ENGINEERING		W. E. F	:	2019-20 (PART C)				
FINAL YEAR BACHELOR OF TECHNOLOGY CIVIL ENGINEERING		RELEASE DATE	:	01/12/2018				
		REVISION NO.	:	0.0				
SEM	ESTER: VII				•			
SL.	COURSE	COURSE		COURSE		TEACH	HING S	СНЕМЕ
No.	TYPE	CODE				L	Р	CREDIT
1.	DC11	CV401	Drinking Water & Sanitary Engineering			3	2	4
2.	DE1	CV41#	Discipline Elective - Refer Annexure.			3		3
3.	OE3	CV42#	Open Elective - Refer Annexure.			3	2	4
4.	HSS7	HP401	Engineering Economics			2		2
5.	HSS9/ SDP7	HP403/ CV403	Business Strategies / Urban & Town Planning				2	1
6.	SDP8	CV402	Project - I				8	4
7.	SDP9	CV404	Summer Internship				4	
		то	TAL			11	14	22
SEMES	STER: VIII (S	LIP not Onlin	e with the C	pen elective)				
SL.	COURSE	COURSE	COURSE	TEACHING SCHEME				
No.	TYPE	CODE		COOKSE		L	Р	CREDIT
1.	DC12	CV431	Estimation	& Costing		3	2	4
2.	DE2	CV44#	Discipline Annexure	Discipline Elective - Refer Annexure				3
3. SEMESTER LONG INTERNSHIP – Project Design				10	5			
4. SEMESTER LONG INTERNSHIP – Project Implementation				10	5			
TOTAL			6	22	17			

L: Lecture, P: Practical

@ - Courses run through institute LMS.

DEPARTMENT ELECTIVE ON MOOCS PLATFORM						
SR. NO.	COURSE DETAILS	MOOC DETAILS	NO. OF WEEKS			
1	Geotechnical Engineering II Foundation	SW/AVANA 12				
1.	EngineeringBy Prof. Dilip Kumar Baidya, IIT KGP	SWATAW	12			
2.	Maintenance and Repair of Concrete Structuresby	SWAVANA	17			
	Prof. Radhakrishna G. Pillai, IIT Madras	SWATAN	12			
3.	Plastic Waste Managementby Prof. Brajesh Kumar	SWAVANA	Q			
	Dubey, IIT KGP	SWATAW	0			
4.	Higher Surveying by Prof. Ajay Dashora, Behdad,	COLIRSERA	12			
	IITG	COUNSERA				