



Education to Eternity

JAIDEV EDUCATION SOCIETY'S
J D COLLEGE OF ENGINEERING AND MANAGEMENT
KATOL ROAD, NAGPUR
Affiliated to Dr. Babasaheb Ambedkar Technological University, Lonere
 Website: www.jdcoem.ac.in E-mail: info@jdcoem.ac.in
An Autonomous Institute, with NAAC "A" Grade
Affiliated to DBATU, RTMNU, MSBTE, Mumbai
Department of Civil Engineering
Session 2018-19



॥ ज्ञानम् सर्वाधि साधनम् ॥

VISION

- ❖ To shape professional Leaders of Global Standards in Civil Engineering.

MISSION

- ❖ To provide quality Education and Excellent Learning Environment for the overall development of students.
- ❖ Making sustainable efforts for integrating academics with industry.

1.3.2 Details of value-added courses for imparting transferable and life skills offered during the year

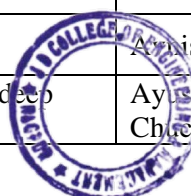
Name of the value-added courses (with 30 or more contact hours) offered	Course Code, if any	No. of times offered during the year	Duration of course (in hours)	Number of students enrolled during the year
Soft Skills Development	BTHM303	1	24	69
Basic Human Rights	BTHM3401	1	24	69

Value Added Courses	
Life Skills Courses	

1.3.3 Number of students enrolled in the courses under 1.3.2

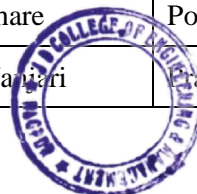
Name of the value-added course: Soft Skills Development
Course Code: BTHM303

Sr. No.	Name of the value-added course	List of students enrolled	List of students completing the course during the given year
1	Soft Skills Development	Abhay Jayendra Ohekar	Abhay Jayendra Ohekar
2	Soft Skills Development	Achal Raju Wadhai	Achal Raju Wadhai
3	Soft Skills Development	Adarsh Sanjay Kudkelwar	Adarsh Sanjay Kudkelwar
4	Soft Skills Development	Akash Ganpat Parate	Akash Ganpat Parate
5	Soft Skills Development	Akshay Fulchand Chakole	Akshay Fulchand Chakole
6	Soft Skills Development	Aman Dilip Rangari	Aman Dilip Rangari
7	Soft Skills Development	Aman Raju Chaure	Aman Raju Chaure
8	Soft Skills Development	Amogh Ravindra Bawankule	Amogh Ravindra Bawankule
9	Soft Skills Development	Aniruddha Jaypal Bambole	Aniruddha Jaypal Bambole
10	Soft Skills Development	Avinash Devidas Narnaware	Avinash Devidas Narnaware
11	Soft Skills Development	Avnish Surendra Gaure	Avnish Surendra Gaure
12	Soft Skills Development	Ayush Chuckerbutty Jaideep Chuckerbutty	Ayush Chuckerbutty Jaideep Chuckerbutty



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13	Soft Skills Development	Boaz Sanjay Barve	Boaz Sanjay Barve
14	Soft Skills Development	Chandan Girish Masaram	Chandan Girish Masaram
15	Soft Skills Development	Deepika Sanjay Kathoute	Deepika Sanjay Kathoute
16	Soft Skills Development	Dhanjyoti Ramesh Kangali	Dhanjyoti Ramesh Kangali
17	Soft Skills Development	Diksha Tejram Chandanbatve	Diksha Tejram Chandanbatve
18	Soft Skills Development	Dipak Kishor Kurzekar	Dipak Kishor Kurzekar
19	Soft Skills Development	Ekta Arun Meshram	Ekta Arun Meshram
20	Soft Skills Development	Firdos Jamil Khan Pathan	Firdos Jamil Khan Pathan
21	Soft Skills Development	Harsh Rajesh Satpude	Harsh Rajesh Satpude
22	Soft Skills Development	Harshika Sunil Somkuwar	Harshika Sunil Somkuwar
23	Soft Skills Development	Hitesh Ashok Urkude	Hitesh Ashok Urkude
24	Soft Skills Development	Jaya Dhaniram Mourya	Jaya Dhaniram Mourya
25	Soft Skills Development	Jayash Hiralal Bawane	Jayash Hiralal Bawane
26	Soft Skills Development	Kajal Arun Madavi	Kajal Arun Madavi
27	Soft Skills Development	Kaveri Dhakeshwar Raut	Kaveri Dhakeshwar Raut
28	Soft Skills Development	Krunal Kailas Nikose	Krunal Kailas Nikose
29	Soft Skills Development	Krushna Pralhad Jadhav	Krushna Pralhad Jadhav
30	Soft Skills Development	Lavkesh Narendra Dapurkar	Lavkesh Narendra Dapurkar
31	Soft Skills Development	Laxman Adku Kulsange	Laxman Adku Kulsange
32	Soft Skills Development	Manish Santoshrao Pachare	Manish Santoshrao Pachare
33	Soft Skills Development	Nikhil Anil Naitam	Nikhil Anil Naitam
34	Soft Skills Development	Nikhil Ashokrao Gahukar	Nikhil Ashokrao Gahukar
35	Soft Skills Development	Nikil Dudhram Kotangale	Nikil Dudhram Kotangale
36	Soft Skills Development	Nikita Karu Budhe	Nikita Karu Budhe
37	Soft Skills Development	Nikita Prakash Tembhurne	Nikita Prakash Tembhurne
38	Soft Skills Development	Nikita Tejram Janbandhu	Nikita Tejram Janbandhu
39	Soft Skills Development	Ninad Charandas Wakde	Ninad Charandas Wakde
40	Soft Skills Development	Nitish Thakurdas Roy	Nitish Thakurdas Roy
41	Soft Skills Development	Pintu Rushi Tembhurne	Pintu Rushi Tembhurne
42	Soft Skills Development	Pooja Devidas Bansod	Pooja Devidas Bansod
43	Soft Skills Development	Pooja Mukunda Gavhare	Pooja Mukunda Gavhare
44	Soft Skills Development	Pramod Rajkumar Wanjari	Pramod Rajkumar Wanjari



45	Soft Skills Development	Pranay Ravidas Borkar	Pranay Ravidas Borkar
46	Soft Skills Development	Puja Rupchand Gadekar	Puja Rupchand Gadekar
47	Soft Skills Development	Rohit Narendra Khobragade	Rohit Narendra Khobragade
48	Soft Skills Development	Rohit Sanjay Tumane	Rohit Sanjay Tumane
49	Soft Skills Development	Rohit Sunil Pingale	Rohit Sunil Pingale
50	Soft Skills Development	Roshani Rajesh Dhurve	Roshani Rajesh Dhurve
51	Soft Skills Development	Rupali Satish Ramteke	Rupali Satish Ramteke
52	Soft Skills Development	Sanat Sunil Kale	Sanat Sunil Kale
53	Soft Skills Development	Sandeep Nattu Naitam	Sandeep Nattu Naitam
54	Soft Skills Development	Sandhya Praful Suryawanshi	Sandhya Praful Suryawanshi
55	Soft Skills Development	Sandhya Suresh Ilame	Sandhya Suresh Ilame
56	Soft Skills Development	Satyafulesh Rakesh Rangari	Satyafulesh Rakesh Rangari
57	Soft Skills Development	Saurabh Laxman Kinnake	Saurabh Laxman Kinnake
58	Soft Skills Development	Saurabh Santosh Baghmare	Saurabh Santosh Baghmare
59	Soft Skills Development	Shubham Hiralal Humane	Shubham Hiralal Humane
60	Soft Skills Development	Shubham Sachin Shevde	Shubham Sachin Shevde
61	Soft Skills Development	Sonam Sunil Kale	Sonam Sunil Kale
62	Soft Skills Development	Sonu Shankar Chichghare	Sonu Shankar Chichghare
63	Soft Skills Development	Supriya Milind Meshram	Supriya Milind Meshram
64	Soft Skills Development	Suraj Purnachandra Sarkar	Suraj Purnachandra Sarkar
65	Soft Skills Development	Swapnil Sharadrao Rane	Swapnil Sharadrao Rane
66	Soft Skills Development	Udaykumar Bhaskarrao Guttal	Udaykumar Bhaskarrao Guttal
67	Soft Skills Development	Ujjwal Anil Choudhary	Ujjwal Anil Choudhary
68	Soft Skills Development	Vijay Bhimrao Mujmule	Vijay Bhimrao Mujmule
69	Soft Skills Development	Vikas Suresh Rathod	Vikas Suresh Rathod

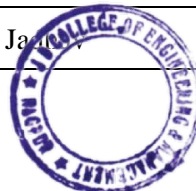


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Name of the value-added course: Basic Human Rights

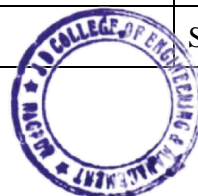
Course Code: BTHM3401

Sr. No.	Name of the value-added course	List of students enrolled	List of students completing the course during the given year
1	Basic Human Rights	Abhay Jayendra Ohekar	Abhay Jayendra Ohekar
2	Basic Human Rights	Achal Raju Wadhai	Achal Raju Wadhai
3	Basic Human Rights	Adarsh Sanjay Kudkelwar	Adarsh Sanjay Kudkelwar
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HoD, Civil

JDCOEM, Nagpur




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Department of Civil Engineering
"Building Better Development"
Session 2018-19

1.3.2 Details of value-added courses for imparting transferable and life skills offered during the year

Sr. No.	Name of Course	Course code	Semester
1	Soft Skills Development	BTHM303	III
2	Basic Human Rights	BTHM3401	IV

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HoD/B.O.S. Chairman
H.O.D.

Department of Civil Engineering
J.D.C O.E.M., Nagpur



18-19

Semester- III

Sr. No.	Subject Code	Subject	Contact Hours			Credi
			L	T	P	
Theory						
01	BTBSC301	Mathematics – III	3	1	-	4
02	BTCVC302	Mechanics of Solids	3	1	✓	4
03	BTCVC303	Hydraulics I	2	1	✓	3
04	BTCVC304	Surveying I	2	1	✓	3
05	BTCVC305	Building Construction	2	-	✓	2
06	BTCVC306	Engineering Geology	2	-	✓	2
07	BTHM303	Soft Skills Development	2	-	-	AU
Practical / Drawing and/or Design						
08	BTCVL307	Hydraulics Laboratory I	-	-	2	1
09	BTCVL308	Surveying Laboratory I	-	-	2	1
10	BTCVL309	Building Construction - Drawings Laboratory	-	-	2	1
11	BTCVL310	Engineering Geology Lab	-	-	2	1
12	BTCVS311	Seminar on Topic of Field Visit to Foundation Work	-	-	1	AU
13	BTCVF312	Field Training / Internship/Industrial Training Evaluation (from semester II)	-	-	-	1
Sub-Total			16	4	09	
Total			29			23





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Semester- IV

Sr. No.	Subject Code	Subject	Contact Hours			Credit
			L	T	P	
Theory						
01	BTCVC401	Hydraulics II	2	1	✓	3
02	BTCVC402	Surveying – II	2	1	✓	3
03	BTCVC403	Structural Mechanics-I	3	1	-	4
04	BTID405	Product Design Engineering	1	2	-	3
05	CV E1	Elective I	3	-	-	3
06	BTCVC406	Engineering Management	1	-	-	AU
07	BTHM3401	Basic Human Rights	2	-	-	AU
Practical / Drawing and/or Design						
08	BTCVL407	Hydraulics Laboratory II	-	-	2	1
09	BTCVL408	Surveying Laboratory II	-	-	4	2
10	BTCVL409	Mechanics of Solids Laboratory	-	-	2	1
11	BTCVM410	Mini Project	-	-	2	1
12	BTCVF411	Seminar on Topic of Field Visit to works involving Superstructure Construction	-	-	1	1
Sub-Total			14	5	11	
Total			31			22
Elective I						
	BTCVE404A BTCVE404B BTCVE404C	Numerical Methods in Engineering Planning for Sustainable Development Instrumentation & Sensor Technologies for Civil Engineering Applications	3	-	-	3




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20/18-19

Rashtrasant Tukdoji Maharaj Nagpur University, Nagpur
Faculty of Engineering & Technology
CIVIL ENGINEERING
Scheme of Examination & Evaluation
Semester: Fifth

Subject Code	Course	Teaching Scheme (Clock Hours/ Week)				Assessment of Marks for Theory						Assessment of Marks for Practicals				Duration of University Theory Exam (Hrs)
		Theory hrs/week	Tutorial hrs/week	Practical hrs/week	Total hrs/week	Credits	College Assessment (CA)	University Exam	Total Marks	Min. Marks	Internal	External	Total Marks	Min. Marks		
BECVE501T	Structural Analysis -II	3	1	2	4	4	20	80	100	40	25	25	50	25	3	
BECVE501P	Structural Analysis -II			2	2	1					25	25	50			
BECVE502T	Reinforced Cement Concrete (RCC) Structures	3	1		4	4	20	80	100	40					4	
BECVE502P	Reinforced Cement Concrete (RCC) Structures			2	2	1					25	25	50	25		
BECVE503T	Fluid Mechanics -I	3	1		4	4	20	80	100	40					3	
BECVE503P	Fluid Mechanics -I			2	2	1				25	25	50	25			
BECVE504T	Geotechnical Engineering -II	3	1		4	4	20	80	100	40					3	
BECVE505T	Hydrology & Water Resources (HWR)	4			4	4	20	80	100	40					3	
BECVE506P	Communicative English & Technical Writing			3	3	2					25	25	50	25		
Total		16	4	9	29	25	100	400	500		100	100	200			

Note: 1. "Technical Writing" shall consist of detailed report on Summer Training- I (ST-1) undertaken after 4th Semester.
 2. Equal weightage shall be given to the components of "Communicative English" and "Technical Writing"

Rashtrasant Tukdoji Maharaj Nagpur University, Nagpur
Faculty of Engineering & Technology
CIVIL ENGINEERING
Scheme of Examination & Evaluation
Semester: Sixth

Subject Code	Course	Teaching Scheme (Clock Hours/ Week)				Evaluation Scheme						Duration of University Theory Exam (Hrs)			
		Theory hrs/week	Tutorial hrs/week	Practical hrs/week	Total hrs/week	Credits	Assessment of Marks for Theory		Assessment of Marks for Practicals		Total Marks		Min. Marks		
							College Assessment (CA)	University Exam	Total Marks	Min. Marks	Internal	External	Total Marks	Min. Marks	
BECVE601T	Steel Structures	3	1		4	4	20	80	100	40					4
BECVE601P	Steel Structures			2	2	1					25	25	50	25	
BECVE602T	Surveying-II	3	1		4	4	20	80	100	40					3
BECVE602P	Surveying-II			4	4	2					25	25	50	25	
BECVE603T	Fluid Mechanics -II	3	1		4	4	20	80	100	40					3
BECVE603P	Fluid Mechanics -II			2	2	1					25	25	50	25	
BECVE604P	Building Design and Drawing			4	4	4					50	50	100	50	
BECVE605T	Environmental Engineering-II	3	1		4	4	20	80	100	40					3
BECVE606P	Site Visit & Mini Project			3	3	3					25	25	50		
Total		12	4	15	31	27	80	320	400		150	150	300		

Note: Summer Training - 2 (ST-2) of 2-4 Weeks duration during Summer Vacation is mandatory and will be evaluated in Seventh Semester.

1. External Practical Evaluation of Building Design and Drawing shall be performance based by drawing assigned problem given jointly by the Internal & External Examiners on AutoCAD
2. "Site Visit" shall cover minimum Five Site Visits.
3. "Mini Project" shall include report on Site Visits and Assigned Mini Project/Software Training, etc.
4. Equal weightage shall be given for components of "Site Visits" and "Mini Project".

Rashtrasant Tukadoji Maharaj Nagpur University, Nagpur
Faculty of Engineering & Technology
CIVIL ENGINEERING
Scheme of Examination & Evaluation
Absorption Scheme for Students of Semester Pattern to Credit Based Semester Pattern

V Semester			
Code No.	Name of Subject in Semester Pattern	Code No.	Name of Equivalent Subject in Credit Based Semester Pattern
SCE01	Steel Structures (T)	BECVE601T	Steel Structures
SCE01	Steel Structures (P)	BECVE601P	Steel Structures
SCE02	Environmental Engineering - II	BECVE605	Environmental Engineering - II
SCE03	Surveying - II (T)	BECVE602T	Surveying - II
SCE03	Surveying - II (P)	BECVE602P	Surveying - II
SCE04	Transportation Engineering - I (T)	BECVE403T	Transportation Engineering - I
SCE04	Transportation Engineering - I (P)	BECVE403P	Transportation Engineering - I
SCE05	Building Design and Drawing (T)	BECVE604P	Building Design and Drawing
SCE05	Building Design and Drawing (P)	BECVE604P	Building Design and Drawing
SCE06	Project Management	BECVE704	Construction Management and Law
SCE07	Site Visit	BECVE606P	Site Visit and Mini Project
VI Semester			
Code No.	Name of Subject in Semester Pattern	Code No.	Name of Equivalent Subject in Credit Based Semester Pattern
6CE01	Structural Analysis - II (T)	BECVE501T	Structural Analysis - II
6CE01	Structural Analysis - II (P)	BECVE501P	Structural Analysis - II
6CE02	RCC Structures (T)	BECVE502T	Reinforced Cement Concrete (RCC) Structures
6CE02	RCC Structures (P)	BECVE502P	Reinforced Cement Concrete (RCC) Structures
6CE03	Geotechnical Engineering - II	BECVE504T	Geotechnical Engineering - II
6CE04	Fluid Mechanics - II (T)	BECVE603T	Fluid Mechanics - II
6CE04	Fluid Mechanics - (P)	BECVE603P	Fluid Mechanics - II
6CE05	Computer Applications in Civil Engineering	Semester - I, Serial No. 8	Computational Skills
6CE06	Technical Writing	BECVE506	Communicative English and Technical Writing

Note: Any student willing to opt for CBS Semester pattern shall be absorbed as per the RTMNU's relevant ordinance.

Rashtrasant Tukdoji Maharaj Nagpur University, Nagpur

Faculty of Engineering & Technology

CIVIL ENGINEERING

Scheme of Examination & Evaluation - CBS

Semester: Seventh

Teaching Scheme (Clock Hours/Week)

Evaluation Scheme

Subject Code	Course	Teaching Scheme (Clock Hours/Week)				Evaluation Scheme								Duration of University Examination (Semester)				
		Theory hrs/week	Tutorial hrs/week	Practical hrs/week	Total hrs/week	Credits	College Assessment (CA)	University Exam	Total Marks	Min. Marks	Internal	External	Total Marks		Min. Marks			
BECVE701T	Advanced Concrete Structures	3	1		4	4	20	80	100	40								
BECVE701P	Advanced Concrete Structures			2	2	1							25	25	50	25		
BECVE702T	Estimating and Costing	3	1		4	4	20	80	100	40							4	
BECVE702P	Estimating and Costing			2	2	1						50	50	100	50			
BECVE703T	Elective - I	3	1		4	4	20	80	100	40							3	
BECVE704T	Construction Management and Law	4			4	4	20	80	100	40							3	
BECVE705T	Transportation Engineering - II	3	1		4	4	20	80	100	40							3	
BECVE706P	Industrial Case Study and Project Seminar			3	3	3						50	50	100	50			
Total		16	4	7	27	25	100	400	500			125	125	250				




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Note: 1. External Practical Evaluation of "Estimating & Costing" shall be performance based (Manual or using suitable Software) on assigned problem by the External Examiner
 2. Evaluation of Summer Training - 2 (ST-2) shall be done as Industrial Case Study Component & minimum two seminar should be delivered as continuous college assessment for project seminar component.

Rashtrasant Tukdoji Maharaj Nagpur University, Nagpur
Faculty of Engineering & Technology
CIVIL ENGINEERING
Scheme of Examination & Evaluation - CBS
Semester: Eighth

Subject Code	Course	Teaching Scheme (Clock Hours/Week)				Evaluation Scheme						Duration of University Theory Exam (Hrs)				
		Theory hrs/week	Tutorial hrs/week	Practical hrs/week	Total hrs/week	Credits	College Assessment (CA)	University Exam	Total Marks	Min. Marks	Internal		External	Total Marks	Min. Marks	
BECVE801T	Irrigation Engineering	3	2		5	5	20	80	100	40						3
BECVE802T	Elective - II	3	1		4	4	20	80	100	40						3
BECVE803T	Elective - III	4			4	4	20	80	100	40						3
BECVE803P	Elective - III			2	2	1					25	25	50	25		
BECVE804T	Construction Economics and Finance	3	1		4	4	20	80	100	40						3
BECVE805P	Project			6	6	6					75	75	150	75		
	Total	13	4	8	25	24	80	320	400		100	100	200			

Note: Internal Evaluation of Project shall be based on the academic contribution of a student and delivery of minimum one seminar on the project work.

BECVE804T - Construction Economics and Finance subject shall be dealt by Board of Basic Science and Humanities.

Rashtrasant Tukdoji Maharaj Nagpur University, Nagpur
Faculty of Engineering & Technology
CIVIL ENGINEERING

Absorption Scheme for Students of Semester Pattern to Credit Based Semester Pattern

VII Semester

Code No.	Name of Subject in Semester Pattern	Code No.	Name of Equivalent Subject in Credit Based Semester Pattern
7CE01	Structural Analysis – III (T)	BECVE501T	Structural Analysis – II
7CE02	Advanced Concrete Structures (T)	BECVE701T	Advanced Concrete Structures
7CE02	Advanced Concrete Structures (P)	BECVE701P	Advanced Concrete Structures
7CE03	Irrigation Engineering (T)	BECVE801T	Irrigation Engineering
7CE03	Irrigation Engineering (P)	BECVE801T	Irrigation Engineering
7CE04	Maintenance and Rehabilitations of Civil Engineering Structures (T)	BECVE802T	Elective – II (Maintenance and Rehabilitations of Civil Engineering Structures)
7CE05	Elective – I (T)	BECVE703T	Elective – I
7CE06	Industrial Case Study (P)	BECVE706P	Industrial Case Study & Project Seminar
7CE07	Project and Seminar (P)	BECVE706P	Industrial Case Study & Project Seminar

VIII Semester

Code No.	Name of Subject in Semester Pattern	Code No.	Name of Equivalent Subject in Credit Based Semester Pattern
8CE01	Estimating and Costing (T)	BECVE702T	Estimating and Costing
8CE01	Estimating and Costing (P)	BECVE702P	Estimating and Costing
8CE02	Transportation Engineering – II (T)	BECVE705T	Transportation Engineering – II
8CE03	Elective – II (T)	BECVE802T	Elective – II
8CE04	Elective – III (T)	BECVE803T	Elective – III
8CE04	Elective – III (P)	BECVE803P	Elective – III
8CE05	Project (P)	BECVE805P	Project

Note: Any student willing to opt for CBS Semester pattern shall be absorbed as per the RTMNU's relevant ordinance.



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