YASHODA TECHNICAL CAMPUS, SATARA

Civil Engg.

Part A : Institutional Information

1 Name and Address of the Institution

YASHODA TECHNICAL CAMPUS, SATARA,
S. NO. 242, NH-4 WADHE PHATE SATARA

2 Name and Address of Affiliating University

SHIVAJI UNIVERSITY KOLHAPUR

3 Year of establishment of the Institution:

2011

4 Type of the Institution:

☐ University	☐ Autonomous
☐ Deemed University	☑ Affiliated
☐ Government Aided	

5 Ownership Status:

☐ Central Government	☐ Trust
☐ State Government	☐ Society
☐ Government Aided	☐ Section 25 Company
☑ Self financing	☐ Any Other(Please Specify)

6 Other Academic Institutions of the Trust/Society/Company etc., if any:

Name of Institutions	Year of Establishment	Programs of Study	Location
Yashoda Technical Campus, Faculty of Pharmacy	2011	Pharmacy	Wadhe, Satara
Yashoda College of Architecture	2015	Architecture	Wadhe, Satara
Yashoda Public School, Satara	2014	CBSE School	Wadhe, Satara

7 Details of all the programs being offered by the institution under consideration:

Name of Program	Program Applied level	Start of year	Year of AICTE approval	Initial Intake	Intake Increase	Current Intake	Accreditation status	From	To	Program for consideration	Program for Duration
Civil Engineering	UG	2011	2011	60	Yes	60	Applying first time	--	--	Yes	4

Sanctioned Intake for Last Five Years for the Civil Engineering

Academic Year	Sanctioned Intake
2021-22	60
2020-21	30
2019-20	30
2018-19	30
2017-18	30
2016-17	60

8 Programs to be considered for Accreditation vide this application:

S No	Level	Discipline	Program
1	Under Graduate	Engineering & Technology	Civil Engg.
2	Under Graduate	Engineering & Technology	Computer Science & Engg.
3	Under Graduate	Engineering & Technology	Electrical Engg.
4	Under Graduate	Engineering & Technology	Mechanical Engg.
5	Under Graduate	Engineering & Technology	Electronics And Telecommunication Engineering

9 Total number of employees in the institution:

A. Regular* Employees (Faculty and Staff):

Items	2021-22		2020-21		2019-20	
	MIN	MAX	MIN	MAX	MIN	MAX
Faculty in Engineering (Male)	22	22	21	25	25	32
Faculty in Engineering (Female)	6	8	6	11	9	11
Faculty in Maths, Science & Humanities (Male)	3	7	3	3	3	4
Faculty in Maths, Science & Humanities (FeMale)	2	3	2	3	3	4
Non-teaching staff (Male)	47	49	42	44	40	45
Non-teaching staff (FeMale)	9	12	5	8	6	10

B. Contractual* Employees (Faculty and Staff):

Items	2021-22		2020-21		2019-20	
	MIN	MAX	MIN	MAX	MIN	MAX
Faculty in Engineering (Male)	1	3	1	2	1	1
Faculty in Engineering (Female)	0	1	1	1	1	1
Faculty in Maths, Science & Humanities (Male)	1	1	1	1	1	1
Faculty in Maths, Science & Humanities (FeMale)	1	1	1	1	1	1
Non-teaching staff (Male)	2	2	2	2	1	2
Non-teaching staff (FeMale)	1	1	1	1	1	1

10 Total number of Engineering Students:

Engineering and Technology- UG	☑ Shift1	☐ Shift2
Engineering and Technology- PG	☐ Shift1	☐ Shift2
Engineering and Technology- Polytechnic	☐ Shift1	☐ Shift2
MBA	☐ Shift1	☐ Shift2
MCA	☐ Shift1	☐ Shift2

Engineering and Technology- UG Shift-1

Items	2021-22	2020-21	2019-20
Total no. of Boys	497	495	362
Total no. of Girls	220	261	234
Total	**717**	**756**	**596**

11 Vision of the Institution:

YTC, Satara looks forward to become a globally renowned institute of centre of excellence in technology and management education for rural community for technical and professional knowledge

12 Mission of the Institution:

1. To achieve the quality and an academic excellence in the frontier engineering areas and management relevant primarily to the nation.
2. To train and produce the highly skilled and globally competent professionals through quality technical education and to prepare them with industry ready engineers for immediate employment and entrepreneurship.
3. To inculcate and develop the research culture can be attributed to quality outputs in terms of research practices and products.
4. To develop the professionals having high values of ethics, lifelong learning, teamwork, leadership and social responsibility.
5. To enhance and empower the rural community by improving the productivity of the agricultural sector.

13 Contact Information of the Head of the Institution and NBA coordinator, if designated:

Head of the Institution	
Name	Prof. Dr. Duradundi Sawant. Badkar
Designation	PRINCIPAL
Mobile No.	8660919112
Email ID	principalengg_ytc@yes.edu.in

NBA Coordinator, If Designated

Name	Prof. Vasim. B. Maner
Designation	Assistant Professor
Mobile No.	8149002189
Email ID	vbm.mech@yes.edu.in

PART B: Criteria Summary

Critera No.	Criteria	Total Marks	Institute Marks
1	VISION, MISSION AND PROGRAM EDUCATIONAL OBJECTIVES	60	60.00
2	PROGRAM CURRICULUM AND TEACHING - LEARNING PROCESSES	120	120.00
3	COURSE OUTCOMES AND PROGRAM OUTCOMES	120	120.00
4	STUDENTS' PERFORMANCE	150	84.92
5	FACULTY INFORMATION AND CONTRIBUTIONS	200	163.72
6	FACILITIES AND TECHNICAL SUPPORT	80	80.00
7	CONTINUOUS IMPROVEMENT	50	50.00
8	FIRST YEAR ACADEMICS	50	45.51
9	STUDENT SUPPORT SYSTEMS	50	50.00
10	GOVERNANCE, INSTITUTIONAL SUPPORT AND FINANCIAL RESOURCES	120	120.00
	Total	**1000**	**895**

Part B

1 VISION, MISSION AND PROGRAM EDUCATIONAL OBJECTIVES (60)

Total Marks 60.00

1.1 State the Vision and Mission of the Department and Institute (5)

Total Marks 5.00

Institute Marks : 5.00

Vision of the institute	YTC, Satara looks forward to become a globally renowned institute of centre of excellence in technology and management education for rural community for technical and professional knowledge
Mission of the institute	1. To achieve the quality and an academic excellence in the frontier engineering areas and management relevant primarily to the nation. 2. To train and produce the highly skilled and globally competent professionals through quality technical education and to prepare them with industry ready engineers for immediate employment and entrepreneurship. 3. To inculcate and develop the research culture can be attributed to quality outputs in terms of research practices and products. 4. To develop the professionals having high values of ethics, lifelong learning, teamwork, leadership and social responsibility. 5. To enhance and empower the rural community by improving the productivity of the agricultural sector.
Vision of the Department	To become center of excellence by producing Civil engineers having research and development activity, sound technical knowledge, professional skills and social awareness to serve society.
Mission of the Department	

Mission No.	Mission Statements
M1	To impart quality technical education through interactive teaching learning methods.
M2	To promote research and development activity by encouraging creativity and exposure to real world problems.
M3	To mentor students for innovative thinking with relevance to entrepreneurship.
M4	To develop social awareness in graduates to serve society.

1.2 State the Program Educational Objectives (PEOs) (5)

Total Marks 5.00

Institute Marks : 5.00

PEO No.	Program Educational Objectives Statements
PEO1	Prepare students to become successful in Civil engineering by applying knowledge of mathematics, science and engineering fundamentals.
PEO2	Produce graduate who can analyze and design civil engineering system to the real life problem & develop attitude of lifelong learning for becoming successful civil engineers.
PEO3	Motivate students for professional level employment in public or private organizations

1.3 Indicate where the Vision, Mission and PEOs are published and disseminated among stakeholders (10)

Total Marks 10.00

Institute Marks : 10.00

Locations where the Vision, Mission, PEOs and PSOs are published:

Sr. No	Location	Institute		Department			
		Vision	Mission	Vision	Mission	PEO	PSO
1.	Institute Website/ Departmental Webpage	Yes	Yes	Yes	Yes	Yes	Yes
2.	Department News Letter & Notice Board	Yes	Yes	Yes	Yes	Yes	Yes
3.	Course file	Yes	Yes	Yes	Yes	Yes	Yes
4.	Lab Manual	Yes	Yes	Yes	Yes	Yes	Yes
5.	Conference workshop/ Brochures	Yes	Yes	Yes	Yes	Yes	Yes

Locations where the Vision, Mission, PEOs and PSOs are disseminated:

Sr. No	Location	Institute		Department			
		Vision	Mission	Vision	Mission	PEO	PSO
1.	Departmental Office	Yes	Yes	Yes	Yes	Yes	Yes
2.	HOD Room	Yes	Yes	Yes	Yes	Yes	Yes
3.	Class Rooms	Yes	Yes	Yes	Yes	Yes	Yes
4.	Laboratories	Yes	Yes	Yes	Yes		
5.	Department Notice Board	Yes	Yes	Yes	Yes		
6.	Seminar/ Conference Hall	Yes	Yes	Yes	Yes	Yes	Yes
7.	Corridor	Yes	Yes	Yes	Yes	Yes	Yes

Locations where the Vision, Mission are displayed, printed and circulated.

Sl. No	Media/Location	Remarks
1.	Institute website	http://yes.edu.in/b-tech/ (http://yes.edu.in/b-tech/)
2.	President’s Room	Displayed
3.	Principal Room	Displayed

4.	Administrative Office	Displayed
5.	Library	Displayed
6.	Central Computing Facility (CCF)	Displayed
7.	HOD Room	Displayed
8.	Laboratories/Workshops/Machine Shops	Displayed
9.	Class Rooms	Displayed
10.	Department Corridors	Displayed
11.	Lab Manuals	Printed
12.	Training Placement Officer (TPO)	Displayed
13.	Institute Magazine	Printed
14.	Newsletter	Printed
15.	Stakeholders (Internal & External)	Circulated
16.	Hostel	Displayed
17.	Canteen	Displayed
18.	Gymkhana	Displayed
19.	IQAC Cell	Displayed
20.	R&D/Innovation/IPR Cell	Displayed
21.	Hospital	Displayed

Apart from this Vision, Mission, PEOs and PSOs are disseminated to all the stakeholders of the programs through faculty meetings, student awareness workshops, student induction programs and placement and training activities at regular intervals.

List of stake holders of the program:

1. Students.
2. Alumni.
3. Parents of the Students
4. Faculty and Staff Members.

5. Industries and Research Organizations.

1.4 State the process for defining the Vision and Mission of the Department, and PEOs of the program (25) Total Marks 25.00

Institute Marks : 25.00

The department has defined the vision and mission of the department and PEOs of the program through a consultative process involving the core constituents such as students, alumni, industry persons, faculty and employers as shown in Figure 1. The Vision and Mission of the department and PEOs of the program are established by adopting following steps.

Step 1: Opinions of internal stakeholders like students, faculty, management as well as external stakeholders like industrial persons, parents, alumni, employers and academicians from other institutes are collected.

Step 2: The opinions are analyzed and reviewed to check the consistency with the vision and mission statements of the institute.

Step 3: After the conclusive deliberations on collected opinions, Head of Department and faculty drafted the vision, mission and PEOs and distributed to stake holders for suggestions.

Step 4: After receiving and incorporating the suggestions, drafts of vision, mission of the department and PEOs of the program are prepared and discussed by Head of Department in the Departmental Academic Advisory Committee (DAAC) meeting.

Step 5: Finally, the vision and mission and PEO statements are approved by Institute Academic Advisory Committee (IAAC).

Step 6: Approved vision and mission statements and PEOs are then disseminated at various locations as mentioned in previous section 1.3

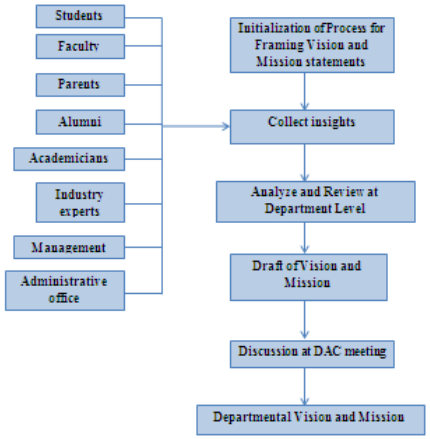


Figure.1. Flow diagram of the process of defining the vision, mission of the department

Process for establishing PEOs

The Program Educational Objectives (PEOs) of the Department were similarly substantiated through a exemplary procedure consisting of various stakeholders. The succeeding procedure was enforced for the establishment of the PEOs:

Step 1: Keeping in view the Departmental Vision and Mission, Institute Vision and Mission and Program Outcomes, the Program Educational Objectives (PEOs) of the department were deliberated upon by the committee formed by the Head of the Department.

Step 2: Proposed Program Educational Objectives (PEOs) were disseminated among the internal as well as external stakeholders.

Step 3: As per the feedback received from the various stakeholders including the students, the Program Educational Objectives (PEOs) were reviewed.

Step 4: Under the chairmanship of Head of the Department, the Departmental Academic Advisory Committee (DAAC) approved the PEOs.

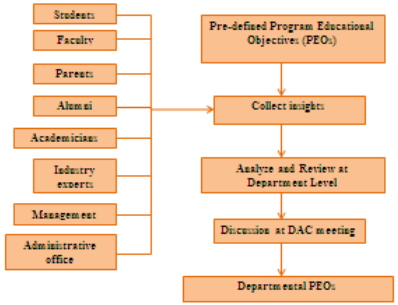


Figure.2. Flow diagram of the process of defining the PEOs of the department

The Mission-PEOs matrix of the program

PEO Statements	M1	M2	M3	M4
PEO1: Prepare students to become successful in Civil engineering by applying knowledge of mathematics, science and engineering fundamentals.	**3**	**2**	**2**	**-**
PEO2: Produce graduate who can analyze and design civil engineering system to the real life problem & develop attitude of lifelong learning for becoming successful civil engineers.	**3**	**3**	**2**	**-**
PEO3: Motivate students for professional level employment in public or private organizations.	**1**	**2**	**3**	**1**

1.5 Establish consistency of PEOs with Mission of the Department (15)

Total Marks 15.00

Institute Marks : 15.00

Note: 1: Slight (low) 2: Moderate (Medium) 3: Substantial (High)

Justification and Rationale of the mapping

PEO	M1	M2	M3	M4	Justification
PEO1	3	2	2	-	The quality technical education through interactive teaching learning methods will help students to acquire knowledge and to become successful Civil Engineer to tackle complex civil engineering problems. This makes substantially mapping with M1. Also this knowledge will applied in research and development fields so as to solve the real world problems. So moderately mapping with M2. Technical education will give students the innovative thinking to develop entrepreneurship qualities. So moderately mapping with M3.
PEO2	3	3	2	-	The quality technical education through interactive teaching learning methods will help students to analyze and design civil engineering systems. This makes substantially mapping with M1. Research and development activity will enhance attitude of lifelong learning to solve the real life problems. So substantially mapping with M2. Innovative thinking will develop the analysis and design capabilities in the students to become entrepreneur. So moderately mapping with M3.
PEO3	1	2	3	1	Mentoring for entrepreneurship for Students will develop professional skills, employment, which will help to succeed in public or private organizations. So PEO3 highly mapping with M3. Technical education and social awareness will be helpful to students for their professional growth. Promoting research and development activity among students will inculcate professional level employment in in public or private sector. This makes PEO3 moderate mapping with M2, and slightly mapping with M1 and M4.

PEO Statements	M1	M2	M3	M4
Prepare students to become successful in Civil engineering by applying knowledge of mathematics, science and engineering fundamentals.	3	2	2	-
Produce graduate who can analyze and design civil engineering system to the real life problem & develop attitude of lifelong learning for becoming successful civil engineers.	3	3	2	-
Motivate students for professional level employment in public or private organizations	1	2	3	1

2 PROGRAM CURRICULUM AND TEACHING - LEARNING PROCESSES (120)

Total Marks 120.00

2.1 Program Curriculum (20)

Total Marks 20.00

2.1.1 State the process used to identify extent of compliance of the University curriculum for attaining the Program Outcomes and Program Specific Outcomes as mentioned in AnnexureI. Also mention the identified curricular gaps, if any (10)

Institute Marks : 10.00

Department of Civil Engineering, Yashoda Technical Campus, Satara is affiliated to Shivaji University, Kolhapur and Dr.Babasaheb Ambedkar Technological University, Lonere (Maharashtra) India and the program curriculum is given by both universities. The curriculum maintains the balance in the composition of basic science,humanities,professional courses and their distribution in core and electives, the composition of DBATU curriculum for the program B.Tech.(Bachelor of Technology) in Civil Engineering is shown in table 2.1.a. The table 2.1.b shows the extent of mapping of the courses to program outcomes.

Table 2.1.a Composition of Courses in DBATU curriculum (2020-21)

SL. No.	Types of Course offered	No. of Subjects mapped	No. of hours allotted	Weightage in percentage	POs
1	Humanities & Social Sciences	05	09	3.83	PO1PO2PO3PO4PO5PO6PO7PO8PO9 PO10PO11PO12
2	Basic Sciences	07	24	10.21	PO1 PO2 PO3 PO6 PO7 PO12
3	Engineering Sciences	11	27	11.49	PO1 PO2 PO3 PO4 PO6 PO7 PO12
4	Professional Core	37	103	43.83	PO1PO2PO3PO4PO8PO9PO10PO11 PO12
5	Professional electives	02	21	8.94	PO1PO2PO3PO4PO6PO7PO9PO12
6	Project work	02	36	15.32	PO1PO2PO3PO4PO5PO6PO7PO8PO9PO10PO11PO12
7	Internship/Mini project/Seminar	10	15	6.38	PO1PO5PO6PO9 PO10PO12
	Total Hours		235		

Programs Curriculum (2020-21)

Teaching and Evaluation Scheme for First Year B. Tech. (All Branches)

Group A

Semester I									
Course Code	Course Title	Teaching Scheme			Evaluation Scheme				
		L	T	P	CA	MSE	ESE	Total	Credit
Mandatory	Induction Program	3-weeks duration in the beginning of semester.							
BTBS101	Engineering Mathematics- I	3	1	-	20	20	60	100	4
BTBS102	Engineering Physics	3	1	-	20	20	60	100	4
BTES103	Engineering Graphics	2	-	-	20	20	60	100	2
BTHM104	Communication Skills	2	-	-	20	20	60	100	2

BTES105	Energy and Environment Engineering	2	-	-	20	20	60	100	2
BTES106	Basic Civil and Mechanical Engineering	2	-	-	50	-	-	50	Audit
BTBS107L	Engineering Physics Lab	-	-	2	60	-	40	100	1
BTES108L	Engineering Graphics Lab	-	-	4	60	-	40	100	2
BTHM109L	Communication Skills Lab.	-	-	2	60	-	40	100	1
		14	2	8	330	100	420	850	18
Semester II									
BTBS201	Engineering Mathematics-II	3	1	-	20	20	60	100	4
BTBS202	Engineering Chemistry	3	1	-	20	20	60	100	4
BTES203	Engineering Mechanics	2	1	-	20	20	60	100	3
BTES204	Computer Programming in C	3	-	-	20	20	60	100	3
BTES205	Workshop Practices	-	-	4	60	-	40	100	2
BTES206	Basic Electrical and Electronics Engineering	2	-	-	50	-	-	50	Audit
BTBS207L	Engineering Chemistry Lab	-	-	2	60	-	40	100	1
BTES208L	Engineering Mechanics Lab	-	-	2	60	-	40	100	1
BTES210S	Seminar	-	-	2	60	-	40	100	1
BTES211P	Field Training / Internship/Industrial Training (minimum of 4 weeks which can be completed partially in first semester and second Semester or in at one time).	-	-	-	-	-	-	-	Credits To be evaluated in III Sem.
		13	3	10	430	80	440	950	19
		27							

Group B

Semester I									
Course Code	Course Title	Teaching Scheme			Evaluation Scheme				
		L	T	P	CA	MSE	ESE	Total	Credit
Mandatory	Induction Program	3-weeks duration in the beginning of semester.							
BTBS101	Engineering Mathematics- I	3	1	-	20	20	60	100	4
BTBS102	Engineering Chemistry	3	1	-	20	20	60	100	4

BTES103	Engineering Mechanics	2	1	-	20	20	60	100	3
BTES104	Computer Programming in C	3	-	-	20	20	60	100	2
BTES105L	Workshop Practices	-	-	4	60	-	40	100	2
BTES106	Basic Electrical and Electronics Engineering	2	-	-	50	-	-	50	Audit
BTBS107L	Engineering Chemistry Lab	-	-	2	60	-	40	100	1
BTES108L	Engineering Mechanics Lab	-	-	2	60	-	40	100	1
		13	03	8	370	80	400	850	18
		24							
Semester II									
BTBS201	Engineering Mathematics-II	3	1	-	20	20	60	100	4
BTBS202	Engineering Physics	3	1	-	20	20	60	100	4
BTES203	Engineering Graphics	2	-	-	20	20	60	100	2
BTHM204	Communication Skills	2	-	-	20	20	60	100	2
BTES205	Energy and Environment Engineering	2	-	-	20	20	60	100	2
BTES206	Basic Civil and Mechanical Engineering	2	-	-	50	-	-	50	Audit
BTBS207L	Engineering Physics Lab	-	-	2	60	-	40	100	1
BTES208L	Engineering Graphics Lab	-	-	3	60	-	40	100	2
BTHM209L	Communication Skills Lab.	-	-	2	60	-	40	100	1
BTES210S	Seminar	-	-	2	60	-	40	100	1
BTES211P	Field Training / Internship/Industrial Training (minimum of 4 weeks which can be completed partially in first semester and second Semester or in at one time)	-	-	-	-	-	-	-	Credits To be evaluate d in III Sem.
		14	02	09	390	100	460	950	19
		25							

Semester- III

Sr. No.	Subject Code	Subject	Contact Hours			Credit
			L	T	P	
Theory						

01	BTBSC301	Mathematics – III	3	1	-	4
02	BTCVC302	Mechanics of Solids	3	1	y	4
03	BTCVC303	Hydraulics I	2	1	y	3
04	BTCVC304	Surveying I	2	1	y	3
05	BTCVC305	Building Construction	2	-	y	2
06	BTCVC306	Engineering Geology	2	-	y	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**

Semester- IV

Sr. No.	**Subject Code**	**Subject**	**Contact Hours**			**Credit**
			L	**T**	**P**	
Theory						
01	BTCVC401	Hydraulics II	2	1	y	3
02	BTCVC402	Surveying – II	2	1	y	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		**30**		**22**
		Elective I				
	BTCVE404A BTCVE404B BTCVE404C	Numerical Methods in Engineering Planning for Sustainable Development Instrumentation & Sensor Technologies for Civil Engineering Applications	3	-	-	3

Semester- V

Sr. No	Subject Code	Subject	Contact Hours			Credit
			L	T	P	
		Theory				
01	BTCVC 501	Design of Steel Structures	2	2	-	4
02	BTCVC 502	Structural Mechanics-II	2	1	-	3
03	BTCVC 503	Soil Mechanics	3	1	y	4
04	BTCVC 504	Environmental Engineering	2	-	y	2
05	BTCVC 505	Transportation Engineering	2	-	y	2
06	CV E2	**Elective II**	3	-	-	3
07	BTHM507	Essence of Indian Traditional Knowledge	1	-	-	AU
		Practical / Drawing and/or Design				
08	BTCVL508	Soil Mechanics Laboratory	-	-	2	1
09	BTCVL509	Environmental Engineering Laboratory	-	-	2	1
10	BTCVL510	Transportation Engineering Laboratory	-	-	2	1
11	BTCVS511	Seminar on Topic of Field Visit to works related to Building Services	-	-	1	AU
		Sub-Total	**15**	**4**	**7**	
		Total		**26**		1
	BTCVE506A BTCVE506B BTCVE506C BTCVE506D	**Elective II** Materials, Testing & Evaluation Computer Aided Drawing Development Engineering Business Communication & Presentation Skills	3	-		3

Semester- VI

Sr. No.	Subject Code	Subject Title	Contact hours L	T	P	Credit
01	BTCVC601	Design of Concrete Structures I	3	1	-	3
02	BTCVC602	Foundation Engineering	2	1	-	3
03	BTCVC603	Concrete Technology	2	-	y	2
04	BTCVC604	Project Management	2	1	-	2
05	CVE3	**Elective III**	3	-	-	3
06	BTCVC606	Building Planning and Design	2	-	y	2
Practical / Drawing and/or Design						
07	BTCVL607	Concrete Technology Laboratory	-	-	2	1
08	BTCVL608	Building Planning, Design and Drawing Laboratory	-	-	4	2
09	BTCVM609	Community Project (Mini Project)	-	-	2	1
10	BTCVS610	Seminar on Topic of Field Visit Road Construction	-	-	1	AU
11	BTCVF611	Industrial Training$	-	-	2	--
		Sub-Total	**14**	**3**	**11**	
		Total	**28**			**19**
Elective III						
	BTCVE605A BTCVE605B BTCVE605C BTCVE605D BTCVE605E BTCVE605F	Air Pollution Control Operations Research Geographic Data Analysis and Applications Advanced Engineering Geology Advanced Soil Mechanics Design of Masonry and Timber Structures				

Semester VII

Course Code	Type of Course	Course Title	Weekly Teaching Scheme L	T	P	Evaluation Scheme CA	MSE	ESE	Total	Credits
BTCVC701	Core	Design of Concrete Structures - II	2	1	--	20	20	60	100	3
BTCVC702	Core	Infrastructure Engineering	3	--	--	20	20	60	100	3

BTCVC703	Core	Water Resources Engineering	3	1	--	20	20	60	100	4
BTCVC704	Core	Professional Practices	2	1	--	20	20	60	100	3
BTCVE705A	Elective IV	Construction Techniques	3	--	--	20	20	60	100	3
BTCVE705B		Engineering Economics								
BTCVE705C		Finite Element Method								
BTCVE705D		Limit State Design of Steel Structures								
BTCVE705E		Plastic Analysis and Design								
BTCVE705F		Water Power Engineering								
BTCVOE706A	Open Elective V	Advanced Structural Mechanics	3	--	--	--	--	--	--	Audit (AU/ NP)
BTCVOE706B		Air Pollution Control								
BTCVOE706C		Bridge Engineering								
BTCVOE706D		Introduction to Earthquake Engineering								
BTCVOE706E		Town and Urban Planning								
BTCVOE706F		Tunneling and Underground Excavations								
BTCVL707	Laboratory	Design & Drawing of RC & Steel Structures	--	--	2	30	--	20	50	1
BTCVL708	Laboratory	Professional Practices	--	--	2	30	--	20	50	1
BTCVT709	Training	Field Training /Internship/Industrial	--	--	--	--	--	50	50	1
BTCVS710	BTS	Seminar	--	--	2	--	--	50	50	1

BTCVP711	BTP	Project Stage-I**	--	--	6	--	50	50	100	3
		Total	16	3	12	160	150	490	800	23

Semester VIII

Course Code	Type of Course	Course Title	Weekly Teaching Scheme			Evaluation Scheme$				Credits
			L	T	P	CA	MSE	ESE	Total	
BTCVSS801A	(Self-Study Course) #	Characterization of Construction Materials	03**	--	--	20	20	60	100	3
BTCVSS801B		Geosynthetics and Reinforced Soil Structures								
BTCVSS801C		Higher Surveying								
BTCVSS801D		Maintenance and Repair of Concrete Structures								
BTCESS801E		Structural Dynamics								
BTCESS802A	(Self-Study Course) #	Energy Efficiency Acoustics and Day lighting in Building	03**	--	--	20	20	60	100	3
BTCESS802B		Environmental Remediation of Contaminated Sites								
BTCESS802C		Remote Sensing Essentials								
BTCESS802D		Mechanical Characterization of Bituminous Materials								
BTCESS802E		Soil Structure Interaction								
BTCEP803	Project Stage-II	In-house Project or Internship and Project in Industry*	--	--	30	50	--	100	150	15
		Total	04	--	30	90	40	220	350	21

Curriculum of the program is defined as per the courses offered by the University.

- The first year of the curriculum provides a foundation in mathematics, computers, and basic sciences in their practice of engineering.
- Second and third academic years provide a platform wherein the fundamentals of Survey and its properties, principles of fluid mechanics, Building Constructions and materials, Soil, Steel, Concrete and foundations characteristics. These fundamentals help in developing core courses such as Surveying and fluid mechanics, theory of structures, soil mechanics, Steel design, Foundations and Concrete properties.
- The fourth year explores the knowledge acquired during the first three years to develop industrial skills and apply in the areas such as Structural and Foundation engineering, planning, design and construction.
- The curriculum in civil engineering aims at preparing graduates to serve industrial needs with respect to civil construction and design by applying their skills and knowledge they have gained in the civil engineering program.
- Apart from university curriculum some of the curricula are identified to attain program outcomes (PO) and program specific outcomes (PSO).

Following processes are used to identify the curricular gaps in the attainment of the POs and PSOs.

- COs are defined for each course of the program.
- CO-PO mapping and course-PO mapping was completed for entire program by PAC.
- Weakly mapped POs were identified for discussion.
- Faculty meeting was organized for discussion and identifying curriculum gap.
- Feedback was taken from graduating students through program exit survey.
- Feedback was collected from alumni.
- Feedback was collected from employer.
- Curriculum gap was discussed in DAAC meeting.
- Course content for bridging the gap was developed for delivery.

Table: 2.1.b: Mapping of POs and Courses

Code	Course Code	Courses	POs	PSOs
C101	BTBS101	Engineering Mathematics- I	PO1 PO2 PO3 PO4 PO5	PSO1 PSO2 PSO3
C102	BTBS102	Engineering Physics	PO1 PO2 PO3 PO6 PO7 PO12	PSO1 PSO2 PSO3
C103	BTES103	Engineering Graphics	PO1PO2PO3PO4 PO12	PSO1 PSO2
C104	BTHM104	Communication Skills	PO1PO2PO3PO4PO5PO6PO7PO8PO9 PO10PO11PO12	PSO1 PSO2 PSO3
C105	BTES105	Energy and Environment Engineering	PO1PO2PO3PO4PO5PO6PO7PO9PO10 PO12	PSO1 PSO2
C106	BTES106	Basic Civil and Mechanical Engineering	PO1PO2PO3PO5 PO8PO12	PSO1PSO2PSO3
C107	BTBS107L	Engineering Physics Lab	PO2PO6PO7PO12	PSO3
C108	BTES108L	Engineering Graphics Lab	PO1PO2PO12	PSO1PSO2

C109	BTHM109L	Communication Skills Lab.	PO1PO2PO3PO4 PO5	PSO1PSO2
C110	BTBS201	Engineering Mathematics-II	PO1PO2PO3PO4 PO7PO12	PSO1
C111	BTBS102	Engineering Chemistry	PO1PO2PO3PO4 PO5PO12	PSO1PSO2PSO3
C112	BTES203	Engineering Mechanics	PO8PO9PO10PO11 PO12	PSO2
C113	BTES204	Computer Programming in C	PO1PO2PO3PO4 PO12	PSO1PSO2PSO3
C114	BTES205	Workshop Practices	PO1PO2PO3PO4PO6PO7PO12	PSO1PSO2PSO3
C115	BTES206	Basic Electrical and Electronics Engineering	PO1PO2PO9PO10PO12	PSO1
C116	BTBS207L	Engineering Chemistry Lab	PO1PO2PO32PO5PO12	PSO1PSO2PSO3
C117	BTES208L	Engineering Mechanics Lab	PO8PO9PO10PO11 PO12	PSO2
C118	BTES210S	Seminar	PO1PO3PO6PO7 PO8PO9PO10PO12	
C119	BTES211P	Field Training	PO1PO2PO3PO6 PO8PO11PO12	PSO1PSO2
C201	BTBSC301	Engineering Mathematics-III	PO1PO2PO3PO4 PO12	PSO1
C202	BTCVC302	Mechanics of Solids	PO1PO2PO3PO4 PO5PO10PO12	PSO1PSO2PSO3
C203	BTCVC303	Hydraulics-I	PO1PO2PO3PO4PO12	PSO1PSO2PSO3
C204	BTCVC304	Surveying-I	PO1PO2PO4PO6PO7PO8PO9PO10P O11PO12	PSO1PSO2PSO3
C205	BTCVC305	Building Construction	PO1PO4PO6PO7PO8PO9PO10PO11 PO12	PSO1PSO2PSO3
C206	BTCVC306	Engineering Geology	PO1PO2PO3PO4 PO6PO7PO12	PSO1PSO2PSO3
C207	BTCVL307	Hydraulics Laboratory-I	PO1PO2PO3PO4 PO12	PSO1PSO2PSO3
C208	BTCVL308	Surveying Laboratory-I	PO1PO2PO4PO7 PO8PO9PO10PO12	PSO1PSO2PSO3
C209	BTCVL309	Building Construction Drawings Laboratory	PO1PO2PO6PO7 PO8PO9PO10 PO12	PSO1PSO2PSO3
C210	BTCVL310	Engineering Geology Lab	PO1PO2PO3PO4 PO12	PSO1
C211	BTCVS311	Seminar on Topic of Field Visit to Foundation Work	PO1PO5PO6PO9 PO10PO12	PSO1PSO2PSO3
C212	BTCVF312	Field Training	PO1PO5PO6PO9 PO10PO12	PSO1PSO2PSO3
C213	BTHM303	Soft Skills Development	PO6PO9PO12	PSO1PSO3
C214	BTHM3401	Basic Human Rights	PO1PO7PO8PO12	PSO1PSO2
C215	BTCVC401	Hydraulics-II	PO1PO2PO3PO4 PO10PO12	PSO1PSO2PSO3
C216	BTCVC402	Surveying-II	PO1PO5PO8PO9PO10PO11PO12	PSO1PSO2PSO3
C217	BTCVC403	Structural Mechanics-I	PO1PO2PO3PO4 PO7PO12	PSO1PSO2PSO3
C218	BTCVE404B	Planning for Sustainable Development	PO1PO2PO4PO5PO6PO7PO8PO11 PO12	PSO1PSO2PSO3
C219	BTID405	Product Design Engineering	PO1PO2PO3PO4PO5PO8PO9PO10PO11PO12	PSO1PSO2PSO3
C220	BTCVC406	Engineering Management	PO1PO2PO3PO4PO8PO9PO10PO11PO12	PSO1PSO2PSO3
C221	BTCVL407	Hydraulics Laboratory-II	PO1PO2PO3PO4 PO12	PSO1PSO2PSO3
C222	BTCVL408	Surveying Laboratory-II	PO1PO2PO5PO8PO9PO10PO11PO12	PSO1PSO2PSO3

C223	BTCVL409	Mechanics of Solids Laboratory	PO1PO2PO4PO5PO7PO9PO10PO12	PSO1PSO2PSO3
C224	BTCVM410	Mini Project	PO1PO2PO3PO4 PO5PO9PO11PO12	PSO1PSO2PSO3
C225	BTCVF411	Seminar on Topic of Field Visit to works involving Superstructure Construction	PO1PO5PO6PO9 PO10PO12	PSO1PSO2
C301	BTCVC501	Design of Steel Structures	PO1PO2PO3PO4 PO7PO12	PSO1PSO2PSO3
C302	BTCVC502	Structural Mechanics-II	PO1PO2PO3PO4 PO7PO12	PSO1PSO2PSO3
C303	BTCVC503	Soil Mechanics	PO1PO2PO3PO12	PSO1PSO3
C304	BTCVC504	Environmental Engineering	PO1PO2PO4PO6 PO7PO8PO9PO11 PO12	PSO1PSO2PSO3
C305	BTCVC505	Transportation Engineering	PO1PO2PO3PO4 PO6PO7PO12	PSO1PSO2PSO3
C306	BTCVE506A	Materials, Testing & Evaluation	PO1PO2PO3PO4 PO7PO12	PSO1PSO2PSO3
C307	BTHM507	Essence of Indian Traditional Knowledge	PO1PO2PO4PO5 PO7PO9PO12	PSO2
C308	BTCVL508	Soil Mechanics Laboratory	PO1PO2PO3PO4 PO6PO7PO12	PSO1PSO2PSO3
C309	BTCVL509	Environmental Engineering Laboratory	PO1PO2PO7PO9 PO10PO12	PSO1PSO2PSO3
C310	BTCVL510	Transportation Engineering Laboratory	PO1PO2PO3PO4 PO9PO10PO12	PSO1PSO2PSO3
C311	BTCVL511	Seminar on Topic of Field Visit to works involving building services.	PO1PO2PO3PO5 PO9PO10PO12	PSO1PSO2PSO3
C312	BTCVC601	Design of Concrete Structures I	PO1PO2PO3PO4 PO5PO6PO7PO8PO9PO10PO11PO12	PSO1PSO2PSO3
C313	BTCVC602	Foundation Engineering	PO1PO2PO3PO4 PO7PO12	PSO1PSO3
C314	BTCVC60	Concrete Technology	PO1PO2PO3PO4PO5PO6PO7PO8PO9PO10PO11PO12	PSO1PSO2PSO3
C315	BTCVC604	Project Management	PO1PO2PO3PO4PO5PO8PO11PO12	PSO1PSO2PSO3
C316	BTCVE605D	Advanced Engineering Geology	PO1PO2PO3PO4PO5PO6PO7PO8PO9PO10PO11PO12	PSO1PSO2PSO3
C317	BTCVC606	Building Planning and Design	PO1PO2PO4PO5PO6PO7PO8PO11 PO12	PSO1PSO2PSO3
C318	BTCVL607	Concrete Technology Laboratory	PO1PO2PO3PO4PO5PO6PO7PO8PO9PO10PO11PO12	PSO1PSO2PSO3
C319	BTCVL608	Building Planning, Design and Drawing Laboratory	PO1PO2PO3PO5PO6PO9PO10PO12	PSO1PSO2PSO3
C320	BTCVM609	Community Project (Mini Project)	PO1PO2PO3PO4PO5PO9PO11PO12	PSO1PSO2PSO3
C321	BTCVS610	Seminar on Topic of Field Visit Road Construction	PO1PO2PO4PO5PO6PO7PO8PO9PO10PO11PO12	PSO1PSO2PSO3
C401	BTCVC701	Design of Concrete Structures - II	PO1PO2PO3PO4PO5PO7PO81PO12	PSO1PSO2PSO3
C402	BTCVC702	Infrastructure Engineering	PO1PO2PO3PO4PO5PO6PO7PO8PO9PO10PO11PO12	PSO1PSO2PSO3
C403	BTCVC703	Water Resources Engineering	PO1PO2PO3PO4PO6PO7PO8PO9PO11PO12	PSO1PSO2PSO3
C404	BTCVC704	Professional Practices	PO1PO2PO4PO5PO6PO7PO8PO9PO10PO11PO12	PSO1PSO2PSO3
C405	BTCVE705A	Construction Techniques	PO1PO2PO3PO4PO5PO6PO7PO9PO10PO12	PSO1PSO2PSO3
C406	BTCVOE706E	Town and Urban Planning	PO1PO2PO3PO4PO6PO7PO9PO12	PSO1PSO2PSO3
C407	BTCVL707	Design & Drawing of RC & Steel Structures	PO1PO2PO3PO4PO5PO6PO7PO8PO9PO10PO11PO12	PSO1PSO2PSO3
C408	BTCVL708	Professional Practices lab	PO1PO2PO3PO12	PSO1PSO2PSO3

C409	BTCVT709	Field Training /Internship/Industrial	PO1PO2PO3PO4PO5PO6PO7PO8PO9 PO10PO11PO12	PSO1PSO2PSO3
C410	BTCVS710	Seminar	PO1PO2PO4PO5PO6PO7PO8PO11 PO12	PSO1PSO2PSO3
C411	BTCVP711	Project Stage-I	PO1PO2PO3PO4PO5PO6PO7PO8PO9PO10PO11PO12	PSO1PSO2PSO3
C412	BTCVSS801B	Geosynthetics and Reinforced Soil Structures	PO1PO2PO4PO5PO6PO7PO8PO11 PO12	PSO1PSO2PSO3
C413	BTCESS802B Sites	Environmental Remediation of Contaminated Sites	PO1PO2PO3PO4PO5PO6PO7PO8 PO11PO12	PSO1PSO2PSO3
C414	BTCEP803	In-house Project or Internship and Project in Industry	PO1PO2PO3PO4PO5PO6PO7PO8PO9PO10PO11PO12	PSO1PSO2PSO3

2.1.2 State the delivery details of the content beyond the syllabus for the attainment of POs and PSOs (10)

Institute Marks : 10.00

Tables a, b and c show the delivery details of the content beyond syllabus imparted for the attainment of the POs and PSOs.

To give additional knowledge and impart skills to the students, content beyond syllabus is delivered relevant to the subject by the respective subject teaching faculty. The schedule for contents delivery is mentioned in the teaching plan and practical plan of corresponding subject.

2020-21

S.No	Gap	Action Taken	Date-Month-Year	Resource Person with Designation	% of students	Relevance to POs, PSOs
1	Inadequacy of syllabus	Presentation on Materials (Geological Rocks) and their uses in construction industry	18/09/2020	Prof.Borate P.G. (Assistant Prof.)	76	PO3, PSO1,2
2	Inadequacy of Syllabus to Industrial Need	Presentation on Analysis of unsymmetrical I Section Prestressed Beam	08/10/2020	Prof. Shah A S. (Assistant Prof.)	79	PO 3, PSO1,2,3
3	Inadequacy of syllabus	Presentation on Faecal Sludge Management	02/12/2020	Prof.Lembhe S .S. (Assistant Prof.)	75	PO2, PSO1
4	Inadequacy of syllabus	Practical demonstration for Aggregate Crushing Value video by NITTR,chandhigad	08/05/2021	Prof.Shaikh A.N. (Asst.Professor)	78	PO1,PO3 PSO,1,2
5	Inadequacy of Syllabus	NPTEL video lecture on Spatially varied flow by Dr. Suresh Kartha IIT Guwahati	22/5/2021	Prof. Pawar V.P. (Assistant professor)	76	PO 2,3, PSO2

2019-20

S.No	Gap	Action Taken	Date-Month-Year	Resource Person with Designation	% of students	Relevance to POs, PSOs
1	Advanced Technology Knowledge in construction Techniques	Class room lecture on Finishing equipment- Gradalls, trimmers, graders	17/10/2019	Prof. Pawar V.P. (Asst.Professor)	79	PO 2,3 PSO1,2
2	Recent development in the field of Industrial Structures	Practical on Testing of Tiles specimen	31/10/2019	Prof. Shah A S. (Assistant Prof.)	80	PO 6, PSO1,2
3	Inadequacy of Syllabus to Industrial Need	Design of Elevated water tanks	11/04/2020	Prof. Shah A S. (Assistant Prof.)	79	PO 6, PSO1
4	Inadequacy of syllabus	Presentation on Landscape	25/04/2020	Prof. Lembhe S .S. Assist. Prof	84	PO 2,3

2018-19

S.No	Gap	Action Taken	Date-Month-Year	Resource Person with Designation	% of students	Relevance to POs, PSOs
1	Recent development in the field of Structural Design	NPTEL Video on Matrix analysis to Space Frame	11/09/2018	Prof.Sutar Nikhil B. (Assistant Prof.)	76	PO6, PSO1,3
2	Inadequacy of Syllabus to reflected industry need	Presentation on new techniques in painting for residential building	29/09/2018	Prof.Sadawarte S.P. (Assistant Prof.)	79	PO3 ,PSO1,3

2.2 Teaching - Learning Processes (100) Total Marks 100.00

2.2.1 Describe processes followed to improve quality of Teaching & Learning (25)

Institute Marks : 25.00

a)Adherence to academic calendar:

- An academic calendar will be to schedule the institutional time and use time management .The institute and department prepare academic calendars in line with the calendar published by Dr. Babasaheb Ambedkar Technological University, Lonere (Maharashtra) India. The institution prepares the academic calendar every year in advance. The coverage of academic calendar covers the list of examination dates, seminars, conferences, guest lectures, workshops and industrial visits holidays, vacation dates, festivals, etc. Academic calendar provides the total effective working days available in a given semester. Then the Principal, Heads of Department and senior faculty prepare the time table by correlating the working days available and coverage of curriculum of the subjects. Thus the academic calendar monitors the effective delivery of the program with academic and business inputs. The Principal and HODs check the progress of each course and ensures timely and effective completion of course in the specified time frame with perfect blend of practical and theoretical inputs.
- Academic calendars are systems by which you define the landmark dates that drive much of the day-to-day business at the academic institution. The academic calendar provides date of commencement of the academic session, duration of semester, schedule of mid semester exams, unit tests, schedules of institute and departmental technical and project exhibition, technical events, expert lectures by industrial experts specifically from MOU organizations, dates of guest lectures, workshops, and seminars industrial visits, hands on training programmes, internship programmes, alumini meet, parents meet, date of end term, term work submission schedule, final semester examinations etc, important and special days and dates, features of the academic calendar highlight teaching days and holidays.
- The curricular and co-curricular activities like seminars, workshops, guest lectures, Industrial visits, mini projects etc. are planned in line with curriculum.
- Individual faculty prepares teaching plan and it is verified by head of the department for coverage of syllabus adequately.

●The program is aware of, and adheres to academic calendar prepared by Institution.

●The academic calendar is circulated to students well in advance to improve quality of teaching and learning process.

- Respective Faculty is required to prepare and submit the teaching plan based on the course syllabus. Teaching Plans are submitted to Dean Academics.

Dr. BABASAHEB AMBEDKAR TECHNOLOGIOCAL UNIVERSITY, LONERE

(Established by Government of Maharashtra and Governed by Dr. Babasaheb Ambedkar Technological University Act No. XXIII of 2014)

Vidyavihar, Lonere – Raigad 402 103 (Maharashtra) Website : www.dbatu.ac.in

Table-1 Academic Calendar 2020-21 (Odd Semester)

Sl. No.	Activity	Commencement Date	Concluding Date	Total Days	Pharmacy	Engineering	Architecture
1	Admissions for Second, Third and Final Year **(By ONLINE MODE only)**	August 05, 2020	August 16, 2020	12	UG, PG & Pharm. D.	UG and PG	UG and PG
2	Commencement of Classes of Second, Third and Final Year **(By ONLINE MODE only)**	August 17, 2020	December 5, 2020	120	UG, PG & Pharm. D.	UG & PG	UG & PG
3	Dissertation Submission of the Academic Year 2019-2020	July 31, 2020	August 31, 2020	15	PG	PG	PG
4	Dissertation Examination of the Academic Year 2019-2020	September 01, 2020	September 05, 2020	5	PG	PG	PG
5	First Periodic Test	October 05, 2020	October 10, 2020	6	UG, PG & Pharm. D	--	--
6	Mid-Semester Examinations	October 08, 2020	October 16, 2020	9	--	UG and PG	UG & PG
7	Submission of Dissertation Proposal to University	October 09, 2020	October 12, 2020	4	PG	PG	PG
8	Display of Mid-Semester Examination Marks	October 17, 2020	October 20, 2020	4	--	UG and PG	UG & PG
9	Display of Marks at College and Filling of Marks Online on University Portal	October 19, 2020	October 21, 2020	3	UG & PG	UG & PG	UG & PG
10	Scrutiny of Master's Level Dissertation Work Proposal	October 19, 2020	October 21, 2020	3	PG	PG	PG
11	Exam Form Filling for Regular & Supplementary Examinations	October 19, 2020	October 22, 2020	4	UG, PG & Pharm. D.	UG and PG	UG & PG
12	Exam Form Filling for Regular & Supplementary Examinations with Late Fee	October 23, 2020	October 27, 2020	5	UG, PG & Pharm. D.	UG and PG	UG & PG
13	University Tech Fest 2021 **(By Online mode only)**	November 09, 2020	November 11, 2020	3	UG, PG & Pharm. D.	UG and PG	UG & PG
14	End of Classes	--	November 21, 2020		UG & PG	UG &: PG	UG & PG
15	Second Periodic Test	November 23, 2020	November 28, 2020	6	UG PG & Pharm. D.	--	--
16	Practical/Project/Seminar Examinations	December 01, 2020	December 03, 2020	3	--	UG and PG	--
17	Display of Final Continuous Evaluation Marks at College and Filling of Marks online on University Portal Uploading of Practical, Project and CA Marks on University portal	December 01, 2020	December 03, 2020	3	UG & PG	UG &: PG	UG & PG
18	End Semester Regular & Supplementary Examination Theory and Practical	December 05, 2020	January 05, 2021	32	UG PG & Pharm. D.	UG and PG	UG & PG

Table 3 : Following Holidays fall on Sunday

Sl. No.	Festivals / Holidays	Date
1	Parsi New Year (Shahenshahi)	August, 16, 2020
2	Moharum	August 30, 2020
3	Dasara	October 25, 2020
4	Mahavir Jayanti	April 25, 2021

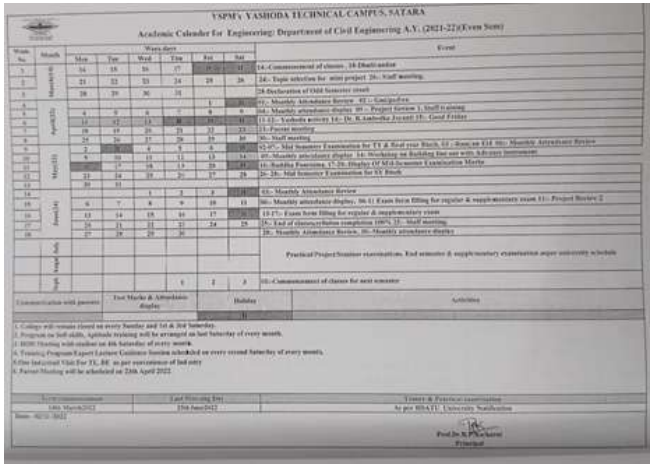
Dr. S. L. Nalbalwar
Dean (Academics – F o E & T)

Copy submitted to Hon. Vice-Chancellor for kind information

Copy to:

1. All Deans
2. Registrar
3. All Head of the Departments
4. Principals of all affiliated institutes
5. Controller of Examinations
6. Student Section

Fig.no.2.2.1a University Academic Calendar



VSPM's VASHODA TECHNICAL CAMPUS, SATARA

Academic Calender for Engineering: Department of Civil Engineering A.Y. (2021-22)(Even Sem)

Week No.	Month	Week days						Event
		Mon	Tue	Wed	Thu	Fri	Sat	
1	March(4)	14	15	16	17	18	19	14:-Commencement of classes. 18:Dhuli-vandan
2		21	22	23	24	25	26	24:- Topic selection for mini project 26:- Staff meeting.
3		28	29	30	31			28:Declaration of Odd Semester result
4						1	2	01:- Monthly Attendance Review 02:- Gudipadva
5	April(5)	4	5	6	7	8	9	06:- Monthly attendance display 09:- Project Review 1, Staff training
6		11	12	13	14	15	16	11:12:- Vadtala activity 14:- Dr. B.Ambedkar Jayanti 15:- Good Friday
7		18	19	20	21	22	23	23:-Parent meeting
8		25	26	27	28	29	30	30:- Staff meeting
9		2	3	4	5	6	7	02:4th:- Mid Semester Examination for TY & Real-year Batch, 03:- Basic,on ESE 06:- Monthly Attendance Review
10		9	10	11	12	13	14	09:-Monthly attendance display 14:-Workshop on Building Inst.ent with Advance Instrument
11	May(11)		17	18	19	20	21	16:- Buddha Poornima, 17-20:- Display Of Mid-Semester Examination Marks
12		23	24	25	26	27	28	24- 28:- Mid Semester Examination for SY Btech
13		30	31					
14				1	2	3	4	02:- Monthly Attendance Review
15	June(4)	6	7	8	9	10	11	06:- Monthly attendance display, 08-11 Exam form filling for regular & supplementary exam 11:- Project Review 2
16		13	14	15	16	17	18	13-17:- Exam form filling for regular & supplementary exam
17		20	21	22	23	24	25	25:- End of classes/Syllabus completion 100% 23:- Staff meeting.
18		27	28	29	30			28:- Monthly Attendance Review, 30:-Monthly attendance display
	July(4)							Practical/Project/Seminar examinations. End semester & supplementary examination as per university schedule
	August(4)				1	2	3	01:-Commencement of classes for next semester

Communication with parents	Test Marks & Attendance display	Holiday	Activities
		11	

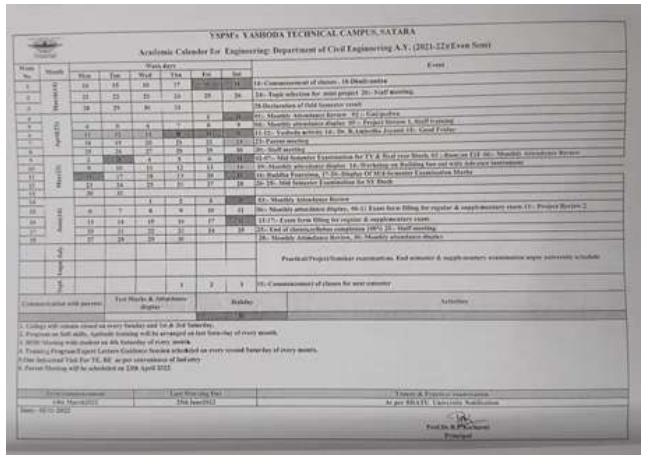
1. College will remain closed on every Sunday and 1st & 3rd Saturday.
2. Program on Soft skills, Aptitude training will be arranged on last Saturday of every month.
3. HOD/ Meeting with student on 4th Saturday of every month.
4. Training Program/Expert Lecture Guidance Session scheduled on every second Saturday of every month.
5.One Industrial Visit For TE, BE as per convenience of Ind.ustry
6. Parent Meeting will be scheduled on 23th April 2022.

Term commencement	Last Working Day	Theory & Practical examination
14th March2022	25th June2022	As per SBATU University Notification

Date:- 02/12/2022

Prof.Dr. S.P.Pachare
Principal

Fig.no.2.2.1b Institute Academic Calendar



VSPM's VASHODA TECHNICAL CAMPUS, SATARA

Academic Calender for Engineering: Department of Civil Engineering A.Y. (2021-22)(Even Sem)

Week No.	Month	Week days						Event
		Mon	Tue	Wed	Thu	Fri	Sat	
1	March(4)	14	15	16	17	18	19	14:-Commencement of classes. 18:Dhuli-vandan
2		21	22	23	24	25	26	24:- Topic selection for mini project 26:- Staff meeting.
3		28	29	30	31			28:Declaration of Odd Semester result
4						1	2	01:- Monthly Attendance Review 02:- Gudipadva
5	April(5)	4	5	6	7	8	9	06:- Monthly attendance display 09:- Project Review 1, Staff training
6		11	12	13	14	15	16	11:12:- Vadtala activity 14:- Dr. B.Ambedkar Jayanti 15:- Good Friday
7		18	19	20	21	22	23	23:-Parent meeting
8		25	26	27	28	29	30	30:- Staff meeting
9		2	3	4	5	6	7	02:4th:- Mid Semester Examination for TY & Real-year Batch, 03:- Basic,on ESE 06:- Monthly Attendance Review
10		9	10	11	12	13	14	09:-Monthly attendance display 14:-Workshop on Building Inst.ent with Advance Instrument
11	May(11)		17	18	19	20	21	16:- Buddha Poornima, 17-20:- Display Of Mid-Semester Examination Marks
12		23	24	25	26	27	28	24- 28:- Mid Semester Examination for SY Btech
13		30	31					
14				1	2	3	4	02:- Monthly Attendance Review
15	June(4)	6	7	8	9	10	11	06:- Monthly attendance display, 08-11 Exam form filling for regular & supplementary exam 11:- Project Review 2
16		13	14	15	16	17	18	13-17:- Exam form filling for regular & supplementary exam
17		20	21	22	23	24	25	25:- End of classes/Syllabus completion 100% 23:- Staff meeting.
18		27	28	29	30			28:- Monthly Attendance Review, 30:-Monthly attendance display
	July(4)							Practical/Project/Seminar examinations. End semester & supplementary examination as per university schedule
	August(4)				1	2	3	01:-Commencement of classes for next semester

Communication with parents	Test Marks & Attendance display	Holiday	Activities
		11	

1. College will remain closed on every Sunday and 1st & 3rd Saturday.
2. Program on Soft skills, Aptitude training will be arranged on last Saturday of every month.
3. HOD/ Meeting with student on 4th Saturday of every month.
4. Training Program/Expert Lecture Guidance Session scheduled on every second Saturday of every month.
5.One Industrial Visit For TE, BE as per convenience of Ind.ustry
6. Parent Meeting will be scheduled on 23th April 2022.

Term commencement	Last Working Day	Theory & Practical examination
14th March2022	25th June2022	As per SBATU University Notification

Date:- 02/12/2022

Prof.Dr. S.P.Pachare
Principal

Fig.no.2.2.1c Departmental Academic Calendar

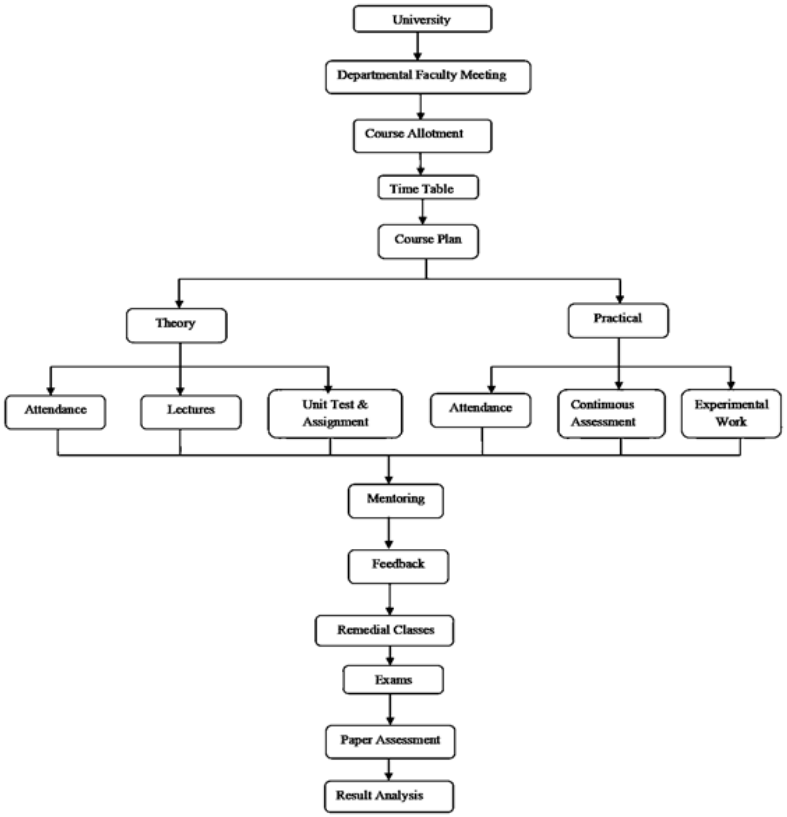


Fig.no.2.2.1d Teaching Learning Process

b)Instruction methods using Pedagogical Initiatives:

- The Pedagogical Model describes what effective teachers do in their classrooms to engage students in intellectually challenging work. It provides an overview of the learning cycle and breaks it down into five domains or phases of instruction: Engage, Explore, Explain, Elaborate and Evaluate.
- Usage of Liquid Crystal Display (LCD) Projectors, Audio and Video methods, Case studies, previous year project models, Moodle based activities, working physical model, Courses delivered through SWAYAM, National Programme on Technology Enhanced Learning (https://www.google.co.in/url?sa=t&rct=j&q=&esrc=s&source=web&cd=1&cad=rja&uact=8&ved=0ahUKEwja4-XEzJPRAhXQNVAKHWcgBKQQFggZMAA&url=https%3A%2F%2Fen.wikipedia.org%2Fwiki%2FNational_Programme_on_Technology_Enhanced_Learning&usg=AFQjCNHLqWtUy9Fx5hrUgxJzU0P26qqH_g) (NPTEL) videos, Quality Enhancement In Engineering Education (QEEE) videos, use of MIT open courseware, animations, etc. to improve quality of teaching and learning. (https://ksrct.ac.in/center-of-excellence/quality-enhancement-in-engineering-educationqeee/)
- Following Table shows the various measures taken to improve the quality of Teaching & Learning Process

Sr.No.	Day	Class Attended	Activity
3	Every Alternative Saturday	Second, Third and Final Year	NPTEL Videos (Smart Board/LCD Projector)

c. **Collaborative Learning:**

- One effective learning strategy for active learners in the college level is collaborative learning. “Collaborative learning” is a collective term for various educational approaches involving joint intellectual effort by students, or students and faculty together, where students work in groups of two or more, mutually searching for understanding, solutions, or meanings, or creating a product. The collaborative learning enables students to develop their abilities in working in teams. Collaborative learning improves not only academic performance of students, but also encourages attainment of goals through enhanced group processes.
- All the faculty and students continuously involve in collaborative learning.
- Mini project and Projects are allotted for continuous improvement in collaborative learning.
- Industrial visits are arranged to improve Teaching–Learning process.
- MOU’s are signed with industries to bridge the gap between Teaching–Learning processes and practical world. MOUs with industries and industrial visits help students to become familiar with industrial environments. It also improves actual working knowledge other than curriculum. It builds collaboration between learners and industry. MOUs also assist for industrial visits, industrial lab testing and industrial expert lectures to meet industrial requirements.

d. **Quality of Laboratory:**

- To be useful, our laboratory results must be as accurate as possible, all aspects of the laboratory operations must be reliable, and reporting must be timely.
- State-of-the-art laboratories are the back bone of our Institute and department. Practical exposure brings real value to an engineering degree.
- Our Institute believes in imparting strong practical exposure to its students.

- In our department, all the laboratories are well equipped as per university curriculum requirements.
- Department maintains its specialized labs, equipped with modern equipment of industry standards.
- Other than university curriculum, some experiments are added to give better practical knowledge to the students such as virtual labs (V-Labs).
- In laboratory log book, dead stock register, and lab maintenance register are maintained.
- Modern laboratories are an integral part of the various departments of the college.
- Apart from regular experiments, department conducts additional experiments in all laboratories to train the students in the cutting edge technologies.
- The Civil Engineering computer lab had the software on Computer Aided Design (Auto CAD).
- The department is well equipped with lab facilities for the students, which includes test on Basic Engineering materials properties on CTM& UTM machine.
- Department has separate project lab for doing project work for students.

e. **Methodologies to assist weak students and encourage bright students:**

For weak and bright students following methodologies are adopted by our department.

- One to one discussion, interaction between Professors and Students has increased confidence levels of the students.
- All subjects in charge conduct remedial lecture for their concern subject and provide subject notes and material to weak student.
- Adopted group student study method to improve the performance of student.
- All faculty members identify weak students through term test, one to one communication with student and class interaction.
- Invited talks and seminars on the current trends are done regularly from the industry experts.
- Tutorial/Remedial classes are conducted for the slow learners based on their performance in external examination and after the first internal examination.
- Motivating and guiding students for higher studies and to get university ranks.
- Technical quiz is conducted for the students and are incorporate in activities like poster presentation, debate and project competitions.
- All faculty members maintain attendance registers, course files and academic dairy.
- Industrial visits are conducted at least once or twice in a year to reduce the gap between industry and institute.
- Technical workshops are organized to help the students to understand concepts beyond curriculum.
- Identifying bright and weak students and to motivate the weak students to attend tutorials and help them solve more problems. Encourage the bright students to attend more workshops and technical talks.
- Class Toppers have been provided with certificate at PTM.
- The bright students are identified based on their overall performance and their orientation towards academics.
- Bright students are encouraged to attend conferences; workshops and publish papers or attend appear for technical paper presentations.
- Bright students are encouraged to take up innovative projects and apply for funding.
- Bright students are encouraged to participate in professional activities.
- Bright students are encouraged to participate in various national level competitions.
- The bright students having high academic track records are encouraged and guided by faculty member to achieve University ranks, also encouraged to take up competitive examinations like GATE, GRE etc.,
- The bright students having orientation to research are encouraged by faculty member to publish their work in National and International conferences and Journals.
- Identifying and counseling weak students for the usual mistakes.
- Special attention during class hours

- Communicating with their parents frequently regarding attendance and performance
- Motivating the weak and bright students to attend conferences, workshops and deliver talks.
- Availability of faculty during and beyond working hours.
- Books are issued from department library in addition to main library.
- Encouraging bright students by giving prizes as an appreciation and giving book bank facility through departmental library.
- Weak students are identified as students score less than 60% marks in internal assessment, DSE students having lack of mathematics knowledge and students who fails in end semester examination.
- Care is taken by the faculty member in monitoring the performance of slow learners, the students deviations from studies is observed by the respective section coordinators, proctor and corrective measures are suggested.
- The faculty members also go a step ahead and have periodic interaction with the parents about the performance of slow learners.
- A blended motivation and responsibility from both parents and faculty will create a positive mind-set and will help to overcome the inabilities and hurdles faced by the slow learners.
- In PTM every parent is informed about the Internal Assessment marks and the attendance by a system.
- Additional coaching is given to slow learners through Remedial classes, simplified exam oriented coaching and materials are provided to them.
- A special counseling and tutorial classes are conducted by the faculty for those students who have failed in any subject. The observable impact of assisting weak students is reduced number of identifiable weak students.
- Improved results and less number of failures in each subjects.

f. **Quality of class room teaching:**

- Department including ICT tools in lessons makes them more relevant and fun for your students and, as a consequence, it helps them to achieve better learning outcomes.
- Our Traditional classroom involves a standard curriculum delivered by a teacher in-person. Standardized tests are administered at regular intervals to test students comprehension. This model is where students time, place and pace of learning remain constant.
- Our departmental successful classroom management based on the concepts of the Process Communication Model are: (1) Know Yourself; (2) Know Your Students; (3) Examine Current Strategies; (4) Motivate by Type; (5) Develop Intervention Strategies; and (6) Create a Multifaceted Environment.
- Creating positive impressions and inductive environment in the class room.
- Use the flipped classroom model, encourage cooperative learning, ensure you communicate with students' parents, create a welcoming environment, and use language that promotes diversity or deconstructs.
- Departmental faculty are able to create an inclusive learning environment for students from any background is to talk with them, get to know them, and care about them, for instance, integrating their hobbies in the classroom is usually a good way to increase their interest.
- Online feedback from students for betterment of teaching quality.
- Motivating the students for up-gradation of knowledge and skills which helps in improving their results and placements.

Class room teaching process

g. **Impact Analysis:**

Ways of assessment of students and impact analysis is done as follows:

- Knowledge and understanding are assessed through a combination of unseen examinations and assessed in-course assignments including quizzes, essays, presentations, reports and problem solving-based assessments.
- Intellectual skills are assessed through a combination of unseen written examinations, coursework related to engineering, which requires analysis and problem solving.
- Practical skills are assessed through a combination of continuous formative assessment, summative assessments, and objective structured and/or practical examinations.
- Transferable skills are assessed through a range of assignments built into the curriculum, including coursework reports, oral presentations and research exercises.

- Improvement in attendance of students.
- From above initiatives which are taken for weak students it is observed that the number of weak students identified are reduced.
- Better insight of theory concepts in students.
- From the above initiatives which are taken for collaborative learning it is seen that better learning among students through discussion and analysis of problem is taking place. Also students learned working in teams to accomplish.
- Improved coordination among students and faculty.
- Appreciation from the parents.
- Improvement in academic result of students.
- Based on students' performance assessment and impact analysis, students were divided into two categories: advanced learners and potential learners. To achieve the quality improvement in the performance of potential learners and to further support fast learners. Therefore, institute guidance cell is constituted.

2.2.2 Quality of internal semester Question papers, Assignments and Evaluation (20)

Institute Marks : 20.00

a) Initiatives taken at quality of internal semester question papers:

Internal Assessment Test:

The institute conducts mid semester assessment tests after completing 16th week respectively as per the university syllabus. Each test covers half of the syllabus. The tests are conducted for a maximum of 40 marks. (No minimum marks criteria from the university). The duration of the test is one and half hour and question paper is set to make the student to learn time management. Program Coordinator along with test coordinator is responsible for the conduction of the test. The department has a Scrutinizing Committee, comprising of HoD and two senior faculty members to check the quality of the question paper, Revised Blooms Taxonomy (RBT) levels and Cos, PO, PEOs, and PSOs compliance.

For each subjects, question bank is prepared. While setting the question paper all previous university exam papers are taken into consideration. According to level of toughness the questions are prepared (viz., analyzing the problems, implementation of modern tools, formulating the problems etc), which is termed as Bloom's Taxonomy.

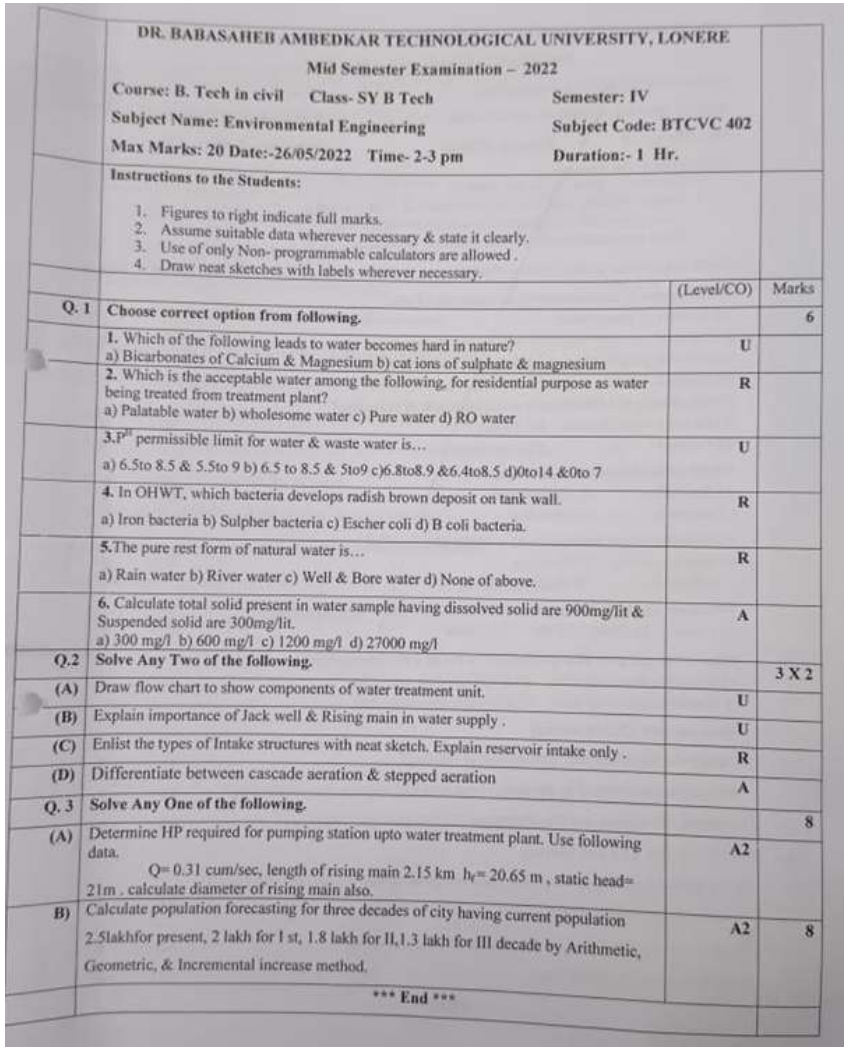
The questions will be of three categories:

• One third of the questions is straight and can be answered by all students.

• One third of the questions need analysis and use of content covered as per syllabus.

• Remaining one third of the questions is not straight. Certain amount of thinking, analysis and mathematical knowledge are required to resolve.

- Internal question papers are set by concerned faculty by considering Course Outcomes.
- Question bank is given to students before test which is based on previous university question papers.
- Question papers are set in accordance with syllabus, university question paper, GATE examination, competitive exams and aptitude exams.
- Tests are conducted on the schedule mentioned in academic calendar.
- Evaluation of answer booklets are done on the basis of scheme of evaluation prepared by concerned faculty.
- Solution of test paper is displayed on notice board.
- Solution is discussed in the classroom.
- Tests Marks are recorded by individual faculty and department.
- For every semester and for each subject two unit tests are conducted. The total marks secured by the student in each unit test are evaluated for 5 marks.
- Also, test marks average is considered in internal term-work marks.



DR. BABASAHEB AMBEDKAR TECHNOLOGICAL UNIVERSITY, LONERE

Mid Semester Examination – 2022

Course: B. Tech in civil Class- SY B Tech Semester: IV

Subject Name: Environmental Engineering Subject Code: BTCVC 402

Max Marks: 20 Date:-26/05/2022 Time- 2-3 pm Duration:- 1 Hr.

Instructions to the Students:

1. Figures to right indicate full marks.
2. Assume suitable data wherever necessary & state it clearly.
3. Use of only Non- programmable calculators are allowed .
4. Draw neat sketches with labels wherever necessary.

		(Level/CO)	Marks
Q. 1	**Choose correct option from following.**		6
	1. Which of the following leads to water becomes hard in nature? a) Bicarbonates of Calcium & Magnesium b) cat ions of sulphate & magnesium	U	
	2. Which is the acceptable water among the following, for residential purpose as water being treated from treatment plant? a) Palatable water b) wholesome water c) Pure water d) RO water	R	
	3. P^{H} permissible limit for water & waste water is… a) 6.5to 8.5 & 5.5to 9 b) 6.5 to 8.5 & 5to9 c)6.8to8.9 &6.4to8.5 d)0to14 &0to 7	U	
	4. In OHWT, which bacteria develops radish brown deposit on tank wall. a) Iron bacteria b) Sulpher bacteria c) Escher coli d) B coli bacteria.	R	
	5.The pure rest form of natural water is… a) Rain water b) River water c) Well & Bore water d) None of above.	R	
	6. Calculate total solid present in water sample having dissolved solid are 900mg/lit & Suspended solid are 300mg/lit. a) 300 mg/l b) 600 mg/l c) 1200 mg/l d) 27000 mg/l	A	
Q.2	**Solve Any Two of the following.**		3 X 2
(A)	Draw flow chart to show components of water treatment unit.	U	
(B)	Explain importance of Jack well & Rising main in water supply .	U	
(C)	Enlist the types of Intake structures with neat sketch. Explain reservoir intake only .	R	
(D)	Differentiate between cascade aeration & stepped aeration	A	
Q. 3	**Solve Any One of the following.**		8
(A)	Determine HP required for pumping station upto water treatment plant. Use following data. Q= 0.31 cum/sec, length of rising main 2.15 km h_f= 20.65 m , static head= 21m . calculate diameter of rising main also.	A2	
B)	Calculate population forecasting for three decades of city having current population 2.5lakhfor present, 2 lakh for I st, 1.8 lakh for II,1.3 lakh for III decade by Arithmetic, Geometric, & Incremental increase method.	A2	8
	*** End ***		

Fig.no.2.2.2a MID SEM Paper with Blooms Taxonomy Levels

b) Assignments and Evaluation:

- Assignments are given to students to enhance the knowledge and speedup the writing in examination.
- Assignments include additional problems, applications, case studies, recent topics etc.
- It is ensured that student submits assignments on or before last date and the faculty evaluates the assignment and returns it to students for their reference.

c) Initiatives taken to address learning levels in terms of quality of question papers/assignments:

- The question paper/assignments are set mapped with the course outcomes (COs).This addresses learning levels of the students.
- Students are asked to refer the various reference books and E resources for writing assignments.
- Faculties concerned are requested to maintain the record of the results.
- Faculties are requested to inform students about the various rewarding schemes.

2.2.3 Quality of student projects (25)

Institute Marks : 25.00

a. **Formation of Project Review Committee (PRC)**

- PRC of department consists of Head of the department as Chairman, two senior faculties as experts and the project coordinator.
- PRC conducts periodic meetings and ensures smooth execution of projects and evaluations.

b) Formation of Batches:

- Project batches are formed as per guidelines given by Board of studies Shivaji University Kolhapur, Dean (Academics) and project review committee (PRC).
- It consists of one topper having at least First Class with Distinction/First Class and choice given by students as per their interest to accommodate in particular batch.

c. **Guide Allotment**

- All faculties having minimum experience of 02 years are given at least one project batch and maximum of two batches.
- Guide allotment is done impartially. Lots are drawn to choose the guide by students in the classroom.
- Guides having equal experience in terms of years and specializations like Heat Power, Design, Production and Interdisciplinary are distributed in the batches of respective class.

a. **Identification of Projects and Allocation Methodology**

- The student's projects are selected in line with department mission, vision and program outcomes (POs).
- Students are given brief idea of various fields for selecting the project ideas.
- The list of previous year projects is displayed at notice board which ensures no repetition of project work and also encourages students to improve earlier works.
- Every faculty member suggests at least four topics of project to the group allotted to him.
- The group members are asked to collect ideas from industrial and social problems to boost innovations and creativity.
- From above topics preference is given to the vital issues in industries and societies to solve it and to achieve POs
- Project is undertaken in the college under the supervision of Head of the Department & Two Senior Faculty and the work is monitored by the project review committee.
- This work meets the course outcomes COs which in turn meet the corresponding POs.

b. **Assessment and Outcome of Project**

- Project review is conducted for every month.
- Based on the reviews suggestions or modifications are given to the students.
- Projects are reviewed based on the outputs or results of the projects.
- Project rubrics are developed to ensure attainment of course outcomes and to assess individual and team performance. It includes identification of problem and title of project, literature review, schematic design of work, complexity level, use of modern engineering tool, applications, result interpretation and conclusion, individual contribution, team work, leadership, confidence, presentation, periodic progress and interactions, overall contribution etc. Each student is monitored by research guide for the same. This adds in quality of assessment and monitoring.
- For term-work marks allotment, suitable breakup of marks for guide and PRC is taken.
- Students are encouraged for paper publications based on projects.
- Projects exhibitions are conducted.
- Best projects and prize winning projects are encouraged.

Table no.2.2.2 a List of some quality projects in CAY: 2021-22

Sr.	Name of Students- Project leader	Title of project	Name and place of competition/conference and sponsored by	Prize
1	Arjun Avinash S Hakim Mohammad Sabir N Khade Sagar S Desai Sayali S Mane Neha S	Suitability of Kinetic Energy from footstep for Vadjai Devi Temple at Patkhal Tal. Dist Satara	Yasho Tech Fest2022 Project Exhibition YSPMs YTC,Satara	1st

2	Gaikwad Girish S Patankar Sarang P Nikam Siddhant A Shinde Arjun M Saste Rohan N Chavan Nikhil S	Comparative study of Behavior of framed structure under seismic zone III and IV	Yasho Tech Fest2022 Project Exhibition YSPMs YTC,Satara	2nd
3	Shaikh Sohel M Sawant Akshay U Tamboli Huzefa F Kotwal Saddamhusen S More Rohit S Kambale Rohit S	Performance evaluation of Convectional brick with sludge brick	Yasho Tech Fest2022 Project Exhibition YSPMs YTC,Satara	3rd
4	Mane Namrata R Pawar Vaishali V Patil Omkar S Savant Nishant D	Repair and Improving strength of flexible pavement Potholes by using Lignin	Yasho Tech Fest2022 Poster Presentation YSPMs YTC,Satara	1st
5	Arjun Avinash S Hakim Mohammad Sabir N Khade Sagar S Desai Sayali S Mane Neha S	Suitability of Kinetic Energy from footstep for Vadjai Devi Temple at Patkhal Tal. Dist Satara	Yasho Tech Fest2022 Poster Presentation YSPMs YTC,Satara	2nd

Summary of Projects:

Academic year	Total project batches	Sponsored projects	In house projects
2021-22	6	00	6

- **Project summery according to type of application for 2021-22:**

Sr.No.	Type of Application	No of Projects
1	Societal	03
2	Product	02
3	Domestic	01

	Total	**6**

- **Project summery according to research type for 2021-22:**

Sr.No.	Research Type	No of Projects
1	Development	3
2	Design	1
3	Analysis	2
	Total	**6**

c. **Impact analysis:**

- Project work undertaken in the college under the supervision of Head of the Department and Faculty help to meet the course outcomes COs which in turn meet the corresponding POs.
- Due to initiatives undertaken in students projects, POs and PSOs such as PO3,PO4,PO5,PO9,PO10,PO11,PO12,PSO1,PSO2,PSO3 are achieved.

2.2.4 Initiative related to industry interaction (15)

Institute Marks : 15.00

Better interaction between technical institution and industry is the need of the hour. This will have great bearing on the Engineering Curriculum, exposure of industrial atmosphere to engineering students and subsequent placement of young graduating engineers in industries across the country. With the advent of globalization and opening up of Indian economy to outside world, competition among industries has become stiff. So initiatives are required to be taken for the industry interaction.

Following initiatives are taken for the industry interaction:

- Program constantly maintains its association with the engineering industry through industrial visits and MOUs with them.
- Departmental Academic Advisory Committee (DAAC) committee is formed which includes representative from industries.
- Industrial visits are arranged to improve practical knowledge of students.
- Experts from various industries give guidance to the students.

a. **Department data regarding Memorandum of Understanding (MOU) with industries**

Sr. No.	Company Name	MOU Date
1	Vedanta Consultants	25/06/2019
2	Builders Association of Satara District - Satara	14/06/2022
3	Z.K. Associates, Satara	11/06/2022
4	Indian Institutions of Valuers, India	25/06/2022

b. **Summary of Expert lectures arranged to increase interaction of industry persons with students**

Academic year 2021-22:

Sr. No.	Name of topic	Name and organization of the expert	No. of Hours	Conducted date
1	Building Line out with Advanced Instrument	Zhambre Shankar S (Z.K Associates)	2	11/6/2022
		Total Hours	2	

c. **Summary of Training arranged to increase interaction of industry with students**

Academic year 2021-22:

Sr. No.	Name of topic	Organization	Class Attended
1	Building Line out with Advanced Instrument	Z.K Associates	SY, TY, B Tech
2	Stadd Pro v8i Software Analysis	Mr. Vaibhav S. Nikam (Vedanta Consultants)	TY, B Tech

Academic year 2019-20:

Sr. No.	Name of topic	Organization	Class Attended
1	Stadd Pro v8i Software Analysis	Mr. Vaibhav S. Nikam (Vedanta Consultants)	TY, B Tech

d. **Impact analysis:**

- The initiatives undertaken to bridge the gap between institute and industry have great bearing on the Engineering Curriculum, exposure of industrial atmosphere to engineering students and subsequent placement of young graduating engineers in industries across the country. Following table shows the improvement in the placements of the students.

Sr.No.	Year of passing	Number of students placed
1	2021-22	19/33
2	2020-21	30/64
3	2019-20	24/38

2.2.5 Initiative related to industry internship/summer training (15)

Institute Marks : 15.00

- As per the university curriculum at least 15 days industrial field training is undergone by Second, Third and Final students.
- Department assists students in selecting industries for summer training.
- Also assistance regarding things to be done in training is provided.
- After successful completion of training, student performance is evaluated along with their individual report and power point presentation by guide and expert.
- Analysis is done based on understanding of students about industry, term work assessment and their further interest and application for sponsored project.

a. **Summary of Industrial training for academic year 2021-22:**

Sr. No.	Name of Industry	No. of students	Duration in days
1	Vighnaharta Builders and Developers, Satara	1	30
2	SATAV, Architects and Interior Designers at Satara,	1	28
3	A. V. Infracon, Enkul, Khatav, Satara	1	28
4	S.S. Shinde Engineers and Contractors, Satara	3	30
5	Shree Developers, Satara	3	31
6	Enshrine Infrastructure Pvt.Ltd.	1	30
7	Raj Dilip Gaikwad	1	22
8	Samarth Construction, Bibwewadi,Pune	1	22
9	Swamiraj Construction, Kawathe, Satara	3	30
10	Varad Constructions, Satara	6	30
11	Rhishikesh Prakash Mane	1	30
12	Kadam Associates, Satara	2	30
13	Kunal Desai & Associates	1	30
14	N. D. Barge and Associates, Satara	4	30
15	Abhijeet Sambhaji Bhise Govt. Contractor, Patan	2	30
16	B.G.Shirke Construction Technologies Pvt. Ltd	1	30
17	Shubham Project Pvt. Ltd., Pune	2	30

b. **Summary of industry internship for academic year 2020-21:**

Sr.No.	Company Name	No of Students
1	Swara Consulting Civil Engineers, Sidhanath Wadi, Wai	2

c. **Summary of industry internship for academic year 2019-20:**

Sr.No.	Company Name	No of Students

1	Shree Ganesh Construction(SGC) Company, Satara	4
2	Sark Construction,Umbraj	2

a. **Summary of Industrial Visits:**

Sr. No	Class	Subject To Be Covered During Industrial Visit	Name of Industry Visited	Date Of Visit
1	S.Y.B.Tech.	Environmental Engineering	Water Treatment Plant ,ETP unit at Malkapur Karad	01/07/2022
2	S.Y.B.Tech.	Building planning and Drawing	Site visit Shahunagar Satara	05/07/2022
3	TY.B.Tech.Civil	Environmental Engineering	Water Treatment Plant ,STP unit at Malkapur Karad	31/12/2021

a. **Student Feedback:**

- Student feedback on initiatives in the prescribed format is collected at the end of year and is analyzed and appropriate action is taken.
- Students demanded more number of industrial visits. Accordingly, more number of industrial visits was conducted.

Sr.No.	Academic year	Number of industrial visits arranged
1	2021-22	03
2	2020-21	Nil
3	2019-20	01

- Students also demanded for visits to large scale industries. Accordingly such visits will be arranged in next academic year.
- Students requested for some guidelines to be followed during industrial visits. Accordingly industrial visit guideline format is circulated to students.

b. **Impact analysis:**

The industrial training which is taken by the students has helped them to improve actual knowledge. It has also helped to improve student's placements in industries. The improvement in student's placement is as shown in the table for 2.2.4 (d-Impact Analysis).

3 COURSE OUTCOMES AND PROGRAM OUTCOMES (120)

Total Marks 120.00

Define the Program specific outcomes

3.1 Establish the correlation between the courses and the Program Outcomes (POs) and Program Specific Outcomes (PSOs) (20)

Total Marks 20.00

:

PSO1	Apply modern engineering tools in civil engineering industries
PSO2	Purse their higher studies and research towards sustainability in the field of civil engineering
PSO3	Apply their knowledge to accomplish various competitive examinations

3.1.1 Course Outcomes(COs)(SAR should include course outcomes of one course from each semester of study, however, should be prepared for all courses and made available as evidence, if asked) (5)

Institute Marks : 5.00

Note : Number of Outcomes for a Course is expected to be around 6.

Course Name :	C2 05	Course Year :	2020-2021

Course Name	Statements
C2 05.1	To understand the types of masonry structures.
C2 05.2	To Understand composition of concrete & effect of various parameters affecting strength.
C2 05.3	To comprehend components of building and their purposes.
C2 05.4	To comprehend the precast and pre-engineered building construction techniques

Course Name :	C2 16	Course Year :	2020-2021

Course Name	Statements
C2 16.1	Understand basics different types of curves on roads and their preliminary survey.
C2 16.2	Perform setting of curves, buildings, culverts and tunnels.
C2 16.3	Comprehend different geodetic methods of survey such as triangulation, trigonometric leveling.
C2 16.4	Comprehend modern advanced surveying techniques.

Course Name :	C3 05	Course Year :	2020-2021

Course Name	Statements
C3 05.1	Comprehend various types of transportation systems and their history of the development
C3 05.2	Design highway geometrics
C3 05.3	Comprehend to various types of pavements
C3 05.4	Design the pavements by considering various aspects associated with traffic safety measures.

Course Name :	C3 14	Course Year :	2020-2021

Course Name	Statements
C3 14.1	Understand the various types and properties of ingredients of concrete.
C3 14.2	Examine the properties of fresh and hardened Concrete.
C3 14.3	Design the concrete mix by IS code method.
C3 14.4	Understand concept of Non-destructive Test.

Course Name :	C4 01	Course Year :	2020-2021

Course Name	Statements
C4 01.1	Able to identify the behavior, analyze and design of the beam sections subjected to torsion.
C4 01.2	Able to analyze and design of axially and eccentrically loaded column and construct the interaction diagram for them.
C4 01.3	Understand various concepts, systems and losses in pre-stressing.
C4 01.4	Able to analyze and design the rectangular and symmetrical I-section pre-stressed beam/girders.

Course Name :	C4 12	Course Year :	2020-2021

Course Name	Statements
C4 12.1	Understand the different types Geo-synthetics and applications.
C4 12.2	Analysis and Design of Reinforced Soil Structures.
C4 12.3	Analyse the Slopes, Pavements, retaining walls for Soil Reinforcement.
C4 12.4	Applications of Soil Geo-synthetics in Drainage, Erosion, Landfills.

3.1.2 CO-POmatrices of courses selected in 3.1.1(Six matrices to be mentioned; one per semester from 3rd to 8th semester) (5)

Institute Marks : 5.00

1 . course name : C205

Course	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12
C205.1	2	-	-	2	-	2	2	2	1	1	2	2
C205.2	2	-	-	2	-	2	2	2	1	1	2	2
C205.3	2	-	-	2	-	2	2	2	1	1	2	2
C205.4	2	-	-	2	-	2	2	2	1	1	2	2
Average	**2.00**	**0.00**	**0.00**	**2.00**	**0.00**	**2.00**	**2.00**	**2.00**	**1.00**	**1.00**	**2.00**	**2.00**

2 . course name : C216

Course	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12
C216.1	3	-	-	-	1	-	-	1	2	2	-	2
C216.2	2	-	-	-	-	-	-	-	2	2	-	2
C216.3	2	-	-	-	1	-	-	-	2	-	-	2
C216.4	1	-	-	-	2	-	-	1	2	2	2	2
Average	**2.00**	**0.00**	**0.00**	**0.00**	**1.33**	**0.00**	**0.00**	**1.00**	**2.00**	**2.00**	**2.00**	**2.00**

3 . course name : C305

Course	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12
C305.1	2	2	-	2	-	-	-	-	-	-	-	1
C305.2	3	3	3	3	-	2	2	-	-	-	-	2
C305.3	2	2	2	2	-	1	-	-	-	-	-	2
C305.4	3	3	3	3	-	2	2	-	-	-	-	2
Average	**2.75**	**2.50**	**2.67**	**2.50**	**0.00**	**1.67**	**2.00**	**0.00**	**0.00**	**0.00**	**0.00**	**1.75**

4 . course name : C314

Course	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12
C314.1	2	-	-	-	-	-	-	-	2	1	-	3
C314.2	3	2	-	2	-	1	1	1	2	2	2	3
C314.3	3	1	2	2	2	1	1	1	2	2	-	3

C314.4	3	1	-	1	2	-	-	1	2	2	1	2
Average	**2.75**	**1.33**	**2.00**	**1.67**	**2.00**	**1.00**	**1.00**	**1.00**	**2.00**	**1.75**	**1.50**	**2.75**

5 . course name : C401

Course	**PO1**	**PO2**	**PO3**	**PO4**	**PO5**	**PO6**	**PO7**	**PO8**	**PO9**	**PO10**	**PO11**	**PO12**
C401.1	3	2	2	-	1	-	1	1	-	1	-	2
C401.2	3	2	1	-	2	-	1	1	-	1	-	2
C401.3	2	2	2	1	1	-	1	-	-	1	-	1
C401.4	3	2	2	2	2	-	1	-	-	1	-	1
Average	**2.75**	**2.00**	**1.75**	**1.50**	**1.50**	**0.00**	**1.00**	**1.00**	**0.00**	**1.00**	**0.00**	**1.50**

6 . course name : C412

Course	**PO1**	**PO2**	**PO3**	**PO4**	**PO5**	**PO6**	**PO7**	**PO8**	**PO9**	**PO10**	**PO11**	**PO12**
C412.1	2	1	-	-	-	-	2	1	-	-	1	2
C412.2	2	2	-	2	2	2	2	1	-	-	2	2
C412.3	2	1	-	-	-	2	2	-	-	-	1	2
C412.4	2	1	-	-	-	2	2	-	-	-	1	2
Average	**2.00**	**1.25**	**0.00**	**2.00**	**2.00**	**2.00**	**2.00**	**1.00**	**0.00**	**0.00**	**1.25**	**2.00**

1 . Course Name : C205

Course	PSO1	PSO2	PSO3
C205.1	2	2	1
C205.2	2	2	1
C205.3	2	2	1
C205.4	2	2	1
Average	**2.00**	**2.00**	**1.00**

2 . Course Name : C216

Course	PSO1	PSO2	PSO3
C216.1	1	-	1
C216.2	1	-	1
C216.3	1	2	2
C216.4	2	2	2
Average	**1.25**	**2.00**	**1.50**

3 . Course Name : C305

Course	PSO1	PSO2	PSO3
C305.1	2	2	1
C305.2	2	2	2
C305.3	2	2	1
C305.4	2	2	1
Average	**2.00**	**2.00**	**1.25**

4 . Course Name : C314

Course	PSO1	PSO2	PSO3
C314.1	2	2	2
C314.2	2	2	2
C314.3	2	2	2
C314.4	2	2	1

Average	**2.00**	**2.00**	**1.75**

5 . Course Name : C401

Course	PSO1	PSO2	PSO3
C401.1	1	1	2
C401.2	2	1	1
C401.3	1	-	2
C401.4	1	-	1
Average	**1.25**	**1.00**	**1.50**

6 . Course Name : C412

Course	PSO1	PSO2	PSO3
C412.1	2	2	-
C412.2	2	2	-
C412.3	3	2	-
C412.4	2	2	2
Average	**2.25**	**2.00**	**2.00**

3.1.3 - A Program level Course-PO matrix of all courses INCLUDING first year courses (10)

Institute Marks : 10.00

Course	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12
C101	3	2.4	1	1	1	0	0	0	0	0	0	0
C102	2	1	1	0	0	2	2	0	0	0	0	1.8
C103	3	3	2.4	2.6	0	0	0	0	0	0	0	3
C104	1.5	1.8	1.7	1.3	2	1.3	2	1.3	2	2	2	1.6
C105	2	2	2	1	3	2	2	0	2	2	0	2
C106	2.5	1	1	0	1	0	0	1	0	0	0	1
C107	0	1.5	0	0	0	2	1.8	0	0	0	0	2
C108	3	3	0	0	0	0	0	0	0	0	0	3
C109	2.6	1.6	1	1	1	0	0	0	0	0	0	0
C110	2	2	1	2	0	0	1	0	0	0	0	1.4
C111	2.5	2	1	2	2	0	0	0	0	0	0	1.3

C112	0	0	0	0	0	0	0	1	1.3	3	1.3	2.3
C113	3	2.8	2.5	2.5	0	0	0	0	0	0	0	3
C114	2	1.3	1.3	2	0	2	1	0	0	0	0	2.8
C115	2	2	0	0	0	0	0	0	1	1	0	2
C116	2.8	2	1.7	2	1	0	0	0	0	0	0	1
C117	0	0	0	0	0	0	0	1	1.3	3	1.3	2
C118	2	0	1	0	0	1.7	1.3	1.7	2.3	2	0	1.6
C119	3	1	1	0	0	2	0	1	0	0	3	2.5
C201	2	2	1	1	0	0	0	0	0	0	0	1
C202	2.5	1.3	1.7	1.3	1.5	0	0	0	0	1	0	1
C203	3	2.3	2.3	2	0	0	0	0	0	0	0	2.3
C204	3	1.8	0	2	0	2	2	2	2	1	2	2
C205	2	0	0	2	0	2	2	2	1	1	2	2
C206	3	2	2	2	0	1	3	0	0	0	0	3
C207	3	2.3	2.3	2	0	0	0	0	0	0	0	2.3
C208	3	3	0	1	0	0	1	3	3	2	0	3
C209	3	3	0	0	0	3	1	3	3	2	0	3
C210	2.8	2	2	2	0	0	0	0	0	0	0	2.3
C211	2.4	0	0	0	1	2.6	0	0	1	3	0	3
C212	2	0	0	0	1	2.8	0	0	1	3	0	3
C213	0	0	0	0	0	2.2	0	0	3	0	0	3
C214	1	0	0	0	0	0	3	3	0	0	0	3
C215	3	2	2.3	2.8	0	0	0	0	0	1	0	2.5
C216	2	0	0	0	1.3	0	0	1	2	2	2	2
C217	2.5	2	2	1	0	0	1	0	0	0	0	1.3
C218	3	1.3	0	2	2	2	2	1	0	0	1.3	2
C219	3	1.8	1	2	2	0	0	1	2	2	1	2
C220	2.5	1.8	1.5	2.3	0	0	0	1	1	1	2.5	2.8
C221	3	2	2.3	2.8	0	0	0	0	0	0	0	1.8
C222	2	1	0	0	2	0	0	1.3	2	2	1	2
C223	3	1.8	0	2	2	0	1	0	2	2	0	2

C224	3	2.4	2.3	2.5	2	0	0	0	3	0	2.3	3
C225	2	0	0	0	1	2.6	0	0	1	3	0	3
C301	1.8	2	2.3	1	0	0	1	0	0	0	0	1.8
C302	1.7	2.3	2.5	1	0	0	1	0	0	0	0	1.7
C303	2.5	2.5	2.5	0	0	0	0	0	0	0	0	3
C304	3	2	0	2	0	2	2	2	3	0	1	2
C305	2.8	2.5	2.7	2.5	0	1.7	2	0	0	0	0	1.8
C306	3	2.3	2.3	2.5	0	0	2	0	0	0	0	2.8
C307	2	1.3	0	1.5	1	0	2	0	1.8	0	0	1.5
C308	2.8	2	2	2	0	1	2	0	0	0	0	2.3
C309	3	3	0	0	0	0	1.7	0	2	2	0	2
C310	2.5	2	2	2	0	0	0	0	1	1	0	2
C311	2.3	2	1	0	2	0	0	0	2.3	2	0	2
C312	2.5	2	2	1.3	1	0	1	1	0	1	1	1.5
C313	3	3	3	2	0	0	2	0	0	0	0	3
C314	2.3	2.3	2	2	2	2	2	1	2	1.8	2	2
C315	2.8	2.5	2	2	1	0	0	1	0	0	1	1.8
C316	2.5	2.5	2.5	2.8	0	0	2	0	0	0	0	3
C317	2	1.3	0	2	2	2	2	1	0	0	1.3	2
C318	2.8	1.3	2	1.7	2	1	1	1	2	1.8	1.5	2.8
C319	2.8	2	2	0	1	1	0	0	2	1	0	2.3
C320	3	2.4	2.3	2.5	2	0	0	0	3	0	2.3	3
C321	2	1.7	0	1	2	2.3	1	1	1.5	2.5	1.3	2.5
C401	2.8	2	1.8	1.5	1.5	0	1	1	0	1	0	1.5
C402	2.2	1.6	1.8	2	1.7	2	2	2	2	2	2	2
C403	2.5	2.5	2.5	3	0	3	3	1	2	0	2.5	3
C404	3	1.3	0	2	2	2	2	1.5	1	1	1.3	2
C405	2	1.8	2	1.8	1	1	1	0	1	1	0	2
C406	1	1.7	1	1	0	1	1	0	1	0	0	2
C407	3	2.7	2.3	1.7	1.3	1.5	1	1.5	2.5	2	1.5	2.3
C408	2.8	2	2	0	0	0	0	0	0	0	0	2

C409	2	1.7	1	1	1	1	1	2	1.7	1.3	2	2
C410	2	1	0	2	2	2	2	1	0	0	1	2
C411	1.7	1.7	2	2	2.3	1	2	2	2.4	2.3	2.8	2
C412	2	1.3	0	2	2	2	2	1	0	0	1.3	2
C413	2	1.3	1	2	2	2	2	1	0	0	1.3	2
C414	1.7	1.7	2	2	2	1	2	2	2.3	2	2	2.8

3.1.3 - B Program level Course-PSO matrix of all courses INCLUDING first year courses :

Course	PSO1	PSO2	PSO3
C101	1	1	1
C102	1	1	1
C103	3	2	0
C104	1	1	1
C105	2	1	0
C106	2.5	1	1
C107	0	0	2
C108	2	2	0
C109	1	1	0
C110	1	0	0
C111	1.5	1.5	1
C112	0	1	0
C113	2.5	2	2.8
C114	1.6	2	1
C115	2	0	0
C116	1.5	1.5	2
C117	0	1	0
C118	0	0	0
C119	2	1	0
C201	1	0	0
C202	1.3	1.3	1.7
C203	2.5	2	2

C204	3	3	2
C205	2	2	1
C206	3	2	1
C207	1.3	1	1
C208	3	3	2
C209	3	3	2
C210	2	0	0
C211	3	2	1
C212	2	2.3	1.8
C213	2.6	0	1
C214	2	2	0
C215	1.8	1.3	1
C216	1.3	2	1.5
C217	1.5	1.5	1.8
C218	2	2	1
C219	1	1.5	1
C220	2.5	1	1
C221	1.8	1.3	1
C222	1.3	1.7	1.3
C223	1	2	1
C224	3	1	2
C225	3	2	0
C301	2	1.5	2
C302	1.5	1.7	2
C303	2	0	2
C304	3	2	2
C305	2	2	1.3
C306	2	2	2
C307	0	1	0
C308	2	2	2
C309	2	2	2

C310	2.5	1.5	1
C311	2	1	1
C312	2	2	1
C313	2	0	2
C314	2	2	1.5
C315	3	1.3	1
C316	2	0	2
C317	2.8	1.3	1
C318	2	2	1.8
C319	1	1	1
C320	3	1	2
C321	2.3	2.3	2
C401	1.3	1	1.5
C402	1.5	1	2
C403	2.2	2	2
C404	1.8	1.5	1.3
C405	3	1.5	1.5
C406	1.7	1	1
C407	2.3	1.3	1
C408	2	3	2
C409	2.5	1.5	1.3
C410	2	3	1
C411	2.4	1.8	1.8
C412	2.3	2	2
C413	1.5	2	1
C414	2.5	2	1.7

3.2 Attainment of Course Outcomes (50) Total Marks 50.00

3.2.1 Describe the assessment processes used to gather the data upon which the evaluation of Course Outcome is based (10)

Institute Marks : 10.00

3.2.1 Course Outcome Assessment Process

The Key aspects in Outcome-Based Education (OBE) are the assessment of Course Outcomes. At the initial stage of OBE implementation, the Course Outcomes (COs) for each course are defined by University curriculum based on the Program Outcomes (POs) and other requirements. At the end of each course, the COs needs to be assessed and evaluated to check whether they have been attained or not.

The process of attainment of COs, POs and PSOs starts from collecting details of COs from University/ Maharashtra State Board of Technical Education (MSBTE), Mumbai curriculum for each course of the program from first year to fourth year in a four-year engineering degree program. The course outcomes are written by the respective faculty member using action verbs of learning levels suggested by Bloom and Anderson. Then, a correlation is established between COs and POs in the scale of 1 to 3, 1 being the slight (low), 2 being moderate (medium) and 3 being substantial (high). A mapping matrix is prepared in this regard for every course in the program including the elective subjects. The course outcomes written and their mapping with POs are reviewed frequently by a committee of senior faculty members before they are finalized.

Assessment is one or more processes carried out by the department, which identify, collect and prepare data to evaluate the achievement of POs and Program Specific Outcomes (PSOs). Attainment is the action or fact of achieving a standard result towards accomplishment of desired goals. Primarily attainment is the standard of academic attainment as observed by examination results.

Course Outcomes (COs): Statements indicating what a student can do after the successful completion of a course. Every Course leads to some Course Outcomes. The CO statements are defined by considering the course content covered in each module of a course. For every course there may be 4 or 6 COs. The keywords used to define COs are based on Bloom's Taxonomy

Attainment of the COs can be measured directly and indirectly. Direct attainment displays the student's knowledge and skills from their performance. It can be determined from the performance of the students in all the relevant assessment instruments like continuous internal assessments, mid semester exams, and assignments, quiz and final university examinations. These methods provide a sampling of what students know and/or can do and provide strong evidence of student learning.

Indirect methods such as Course End Surveys ask the students to reflect on their learning. They access opinions or thoughts about the graduate's knowledge or skills. Indirect measures can provide information about graduate's perception of their learning and how this learning is valued by different stakeholders. The entire assessment process is depicted in the following Figure.

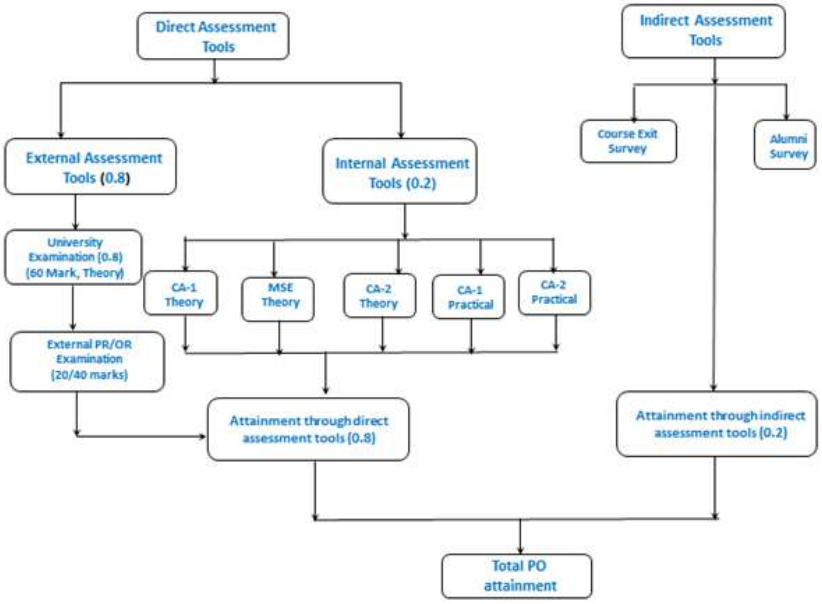


FIGURE1. PROCESS METHODOLOGY FOR CO-ATTAINMENT

3.2.1.1 Assessment Process Details

The department carried out assessment processes to gather and prepare data to evaluate the attainment of course outcomes and program outcomes. Attainment is the action of attaining a standard result towards achievement of expected goals. Direct and indirect assessment tools are used to calculate CO attainment of the course. 80% weightage is given to direct assessment tools and 20% weightage is given to indirect assessment tool.

3.2.1.2 Direct Assessment Tool

Course Outcomes COs are evaluated based on the performance of students in internal assessments and in external assessment (university examination) of a course. Internal assessment contributes 20% and external assessment contributes 80% to the total attainment of a CO using direct assessment tools.

3.2.1.1A Theory:

Continuous Assessments: Each course is divided in to five units. One assignment on each unit is assigned to evaluate students' performance. Student's performance is evaluated based on timely completion of assignment and mock test conducted at the time of evaluation of each assignment. These assignments encourage students to keep up with course content covered in class. The questions are framed in such a way that it should satisfy Bloom's Taxonomy,

Mid Semester Examination: Mid semester examination is conducted at college level as per guidelines provided by university. It covers 2 units out of five hence satisfy 2 to 3 COs. In Mid semester paper, questions are framed in such a way that they satisfy Blooms Taxonomy wherein each question is mapped to the respective course outcome of the course, which is evaluated based on the set attainment levels by the department. Elaborate question bank is provided to students for practice.

University Examination: These end semester examinations are conducted by university. It covers the entire syllabus of the course. Hence End- semester examination would satisfy all course outcomes for a particular course.

3.2.1.1B Practical:

Lab courses provide students direct knowledge with course concepts and the opportunity to explore methods used in their discipline. All the students are expected to learn the practical aspects of the course and develop the necessary skills to become professionals. Students' performance is evaluated using Continuous Assessment (CA). Parameters used in CA are Regularity, Experiment write up and his/her Performance during each experiment.

University Examination: The end semester examination in the form of Term Work/Oral/Practical is conducted with an external examiner and the internal examiner.

3.2.1.1C CO Assessment Tools:

Direct assessment method i.e., using internal and external assessment tools is considered for evaluation of CO.

For the evaluation and assessment of CO's, different tools as defined above are used. Course Outcome is evaluated based on the performance of students with internal assessments and external assessment (university examination) tools for respective course. Following table shows details of assessment process

Sr. No.	Assessment Tool	Description	Evaluation of Course Outcomes	Related POs/PSOs	Frequency of assessment per term
Internal Assessment Tools for Theory Subject					
1	Continuous Assessment CA1	Contains two assignments on two units	Questions in assignment are set according to Blooms Taxonomy level and mapped against one or two CO	Corresponding mapped POs/PSOs with the CO	one (one for Two COs)
2	Mid Semester Examination	Written examination	Questions in examination are framed to satisfy Blooms Taxonomy level and mapped with corresponding Cos	Corresponding mapped POs/PSOs with the Cos	one (in the Mid of Semester)
3	Continuous Assessment CA2	Contains three assignments on remaining three units	Questions in assignment are set according to Blooms Taxonomy level and mapped against one or two CO	Corresponding mapped POs/PSOs with the CO	one (one for remaining three COs)
External Assessment Tools for Theory Subjects					
4	End Semester Examination	Written Examination	Question Paper is set by university mapping all COs of the corresponding course	Corresponding mapped POs/PSOs with the CO	One (at the end of Semester)
Internal Assessment Tools for Laboratory					

5	Continuous Assessment CA1	Contains half of the experiments (5 nos)	Assessment of students during practical with respect to CO mapped regarding regularity, experimental write up and performance of student during practical.	Corresponding mapped POs/PSOs with the CO	one (one for half of LOs)
6	Continuous Assessment CA2	Contains remaining half of the experiments (5 nos)	Assessment of students during practical with respect to CO mapped regarding regularity, experimental write up and performance of student during practical.	Corresponding mapped POs/PSOs with the CO	one (one for remaining half of LOs)
External Assessment Tools for Laboratory					
7	End Semester Examination	Practical/ Oral Examination	Based on Practicals & Assignments performed.	Corresponding mapped POs/PSOs with the CO	One (at the end of Semester)
Assessment Tools for Audit Subject					
8	Continuous Assessment CA1	Based on continuous assessment during semester	Based on COs Mapped	Corresponding mapped POs/PSOs with the CO	one (one for Two COs)
9	Continuous Assessment CA2	Based on continuous assessment during semester	Based on COs Mapped	Corresponding mapped POs/PSOs with the CO	one (one for remaining COs)
Assessment Tools for Seminar					
10	Seminar	Based on continuous assessment during practical and rubric designed by department.	Based on COs Mapped	Corresponding mapped POs/PSOs with the CO	one at the end of semester
Assessment Tools for Mini Project					
11	Mini Project	Based on continuous assessment during practical as per university guidelines and rubric designed by department.	Based on COs Mapped	Corresponding mapped POs/PSOs with the CO	one at the end of semester
Assessment Tools for Project					
12	Project	Based on continuous assessment during internal review as per university guidelines, rubric designed by department and university examination	Based on COs Mapped	Corresponding mapped POs/PSOs with the CO	External: One at the end of semester Internal: two reviews

TABLE 2: DETAILS OF ACCESSMENT PROCESS WITH FREQUENCY OF ACCESSMENT

3.2.1.1D Indirect CO Assessment Tool: Course Exit Survey

Course Exit Surveys are invited at the end of term to get the course to awareness of students regarding the implementation of academic activity. It also calls the students for feasible suggestions for improvement.

Course Exit Survey provides valuable feedback to the faculty. This feedback is quite helpful in improving the quality of the teaching learning. Based on the feedback, faculty can design the essential enhancements for next time to improve the quality.

For each course, a specific course exit survey form is designed. The questions are related to the course and mapped with the COs. Responses were collected through forms on the scale of 3 – 1 (High to Low). This data is used for computing the indirect CO attainment. Weightage for indirect CO attainment is 20%.

3.2.2 Record the attainment of Course Outcome of all courses with respect to set attainment levels (40)

Institute Marks : 40.00

3.2.2.1 Process of the setting Attainment Levels

The attainment level of each course is evaluated and assessed with the help of assessment tools. The target of Course outcome is stated in term of percentage of students getting more than the average class marks.

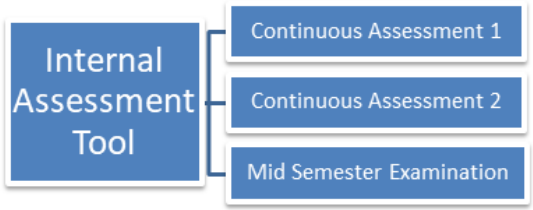
Attainment level 1: 40% to 49 % students scoring more than class average mark to set the attainment level in the internal assessment.

Attainment level 2: 50% to 59% students scoring more than class average mark to set the attainment level in the internal assessment.

Attainment level 3: 60% and above students scoring more than class average mark to set the attainment level in the internal assessment.

3.2.2.2A Evaluation of CO Attainment by Internal Assessment Tool-

Internal assessment tool such as CA1, CA2, MSE are used to evaluate CO attainment level for each subject.

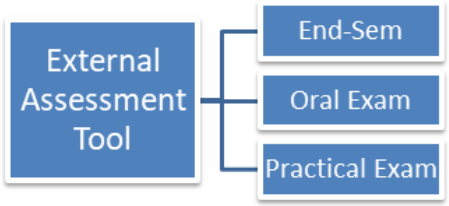


For this internal assessment tools are mapped with COs. As multiple tools are used for assessment of each CO, final attainment will be taken as average of attainments of each tool for respective CO. Mapping of sample subject is shown below.

Assessment Tool	**CA1**			**CA2**			**MSE**
	Assig-1	Assig-2	Assig-3	Assig-4	Assig-5	Assig-6	
Co Mapped	CO1	CO1	CO2	CO3	CO4	CO4	CO1, CO2
% of Students above avg. mark	%A1	%A2	%A3	%A4	%A5	%A6	%MSE
CO Attainment	AA1	AA2	AA3	AA4	AA5	AA6	AMSE

3.2.2.2B CO Attainment Level by External Assessment Tools:-

CO attainment level by external assessment tools in university syllabus structure.



We define the students' performance in terms of CO attainment. Each external assessment tool is mapped with Cos.

CO Mapped	Practical Exam	Oral Exam	End-Sem Exam
CO1	Yes	Yes	Yes
CO2	Yes	Yes	Yes
CO3	Yes	Yes	Yes
CO4	Yes	Yes	Yes
CO5	Yes	Yes	Yes
CO6	Yes	Yes	Yes

Table-A: 3.2.2a CO- External Assessment tool mapping

End semester examination is for 60 marks and weightage of each CO is same as mark allocated for each in examination. Considering mapping of each external assessment tool and average marks are allocated for each assessment tool. Average method is used to calculate final attainment of each CO.

3.2.2.2C CO Attainment Level by Indirect Assessment Tool.

Course exit survey is used as indirect assessment tool for CO attainment 6 question are framed to address all the COs of the course. Responses are Average of responses is considered as Course outcome attainment on the scale of 1 to 3. Sample CO Attainment using Indirect Assessment tool i.e. Course exit Survey is shown in table below

A. Student Information

Name: Email ID:

Class: Contact No:

B. Educations Experience

Please answer the following questions that best describes your experiences as a student at Civil Engineering Department, YTC, COE, Satara.

Sr. No.	Statement	CO	Strongly Agree (3)	Agree (2)	Neutral (1)
1	I can identify various landforms which are formed by different geological agents like river, wind, volcano etc	BTCVC 306.1	32	3	2
2	I can identify different types of minerals and rocks	BTCVC 306.2	29	4	4
3	I can identify & mark fault, fold unconformity on geological map	BTCVC 306.3	31	3	3
4	I can highlight importance of geological exploration from civil structures point of view.	BTCVC 306.4	30	4	3

Please give your specific comment/suggestions if any:

Indirect Attainment: Course Exit Survey

Sr. No.	CO	Strongly Agree (3)	Agree (2)	Neutral (1)	Total points	No. of Students	Average	CO Attainment

1	BTCVC 306.1	32	3	2	104	37	2.81	3
2	BTCVC 306.2	29	4	4	99	37	2.68	3
3	BTCVC 306.3	31	3	3	102	37	2.76	3
4	BTCVC 306.4	30	4	3	101	37	2.73	3

3.2.2.2D Co Attainment Level for Course

Multiple tools are used for the evaluation and assessment of Course outcome.

Following table shows tools of final Course outcome attainment along with weightage.

Assessment tool	Direct Assessment tool (80%)		Indirect Assessment Tool
	Internal Assessment	External Assessment	
Weightage	20%	80%	20%

The final attainment process considering internal and external assessment tools along with weightage is illustrated in table below.

CO Attainment for Course

Sr. No.	CO→ Assessment Method↓	CO1	CO2	CO3	CO4	CO5
	Direct methods (80%)					
	Internal Assessment (20% of Direct)					
1	CA-1	$(CA1)_{CO1}$	$(CA1)_{CO2}$	$(CA1)_{CO3}$	$(CA1)_{CO4}$	(CA1)CO5
2	MSE	$(MSE)_{CO1}$	$(MSE)_{CO2}$	$(MSE)_{CO3}$	$(MSE)_{CO4}$	(MSE)CO5
3	CA-II	$(CA2)_{CO1}$	$(CA2)_{CO2}$	$(CA2)_{CO3}$	$(CA2)_{CO4}$	(CA2)CO5
	Average of Internal Assessment (A)	**A1 = AVG [(CA1)CO1, (MSE)CO1, (CA2)CO1)]**	**A2 = AVG [(CA1)CO2, (MSE)CO2, (CA2)CO2]**	**A3 = AVG [(CA1)CO3, (MSE)CO3, (CA2)CO]**	**A4 = AVG [(CA1)CO4, (MSE)CO4, (CA2)CO4]**	**A5 = AVG [(CA1)CO5, (MSE)CO53, (CA2)CO5]**
	External Assessment (80% of Direct)					
1	University exams (ESE)	(ESE)CO1	(ESE)CO2	(ESE)CO3	(ESE)CO4	(ESE)CO5
2	Practical/Oral Exam(POE)	(POE)CO1	(POE)CO2	(POE)CO3	(POE)CO4	(POE)CO5
	Average of External Assessment (B)	**B1 = AVG [(ESE)CO1, (POE)CO1]**	**B2 = AVG [(ESE)CO2, (POE)CO2]**	**B3 = AVG [(ESE)CO3, (POE)CO3]**	**B4 = AVG [(ESE)CO4, (POE)CO4]**	**B5 = AVG [(ESE)CO5, (POE)CO5]**

Indirect methods (20%)

1	**Course Exit Survey**	**CES1**	**CES2**	**CES3**	**CES4**	**CES5**
	Final CO Attainment	**(A1 X 0.2 + B1 X 0.8) X 0.8 + 0.2 X CES1**	**(A2 X 0.2 + B2 X 0.8) X 0.8 + 0.2 X CES2**	**(A3 X 0.2 + B3 X 0.8) X 0.8 + 0.2 X CES3**	**(A4 X 0.2 + B4 X 0.8) X 0.8 + 0.2 X CES4**	**(A5 X 0.2 + B5 X 0.8) X 0.8 + 0.2 X CES5**

TABLE 3: CO ATTAINMENT PROCESS

Course Outcome CO for all courses including first year are listed below:-

CODE	COURSE CODE	COURSE	CO1	CO2	CO3	CO4	CO5	CO6
		First Year Engineering						
C101	BTBS101	Engineering Mathematics- I	0.90	1.00	1.20	1.00	1.20	-
C102	BTBS102	Engineering Chemistry	1.00	1.08	0.76	1.08	1.08	-
C103	BTES103	Engineering Mechanics	1.66	1.28	1.42	1.18	-	-
C104	BTES104	Computer Programming in C	3.00	3.00	3.00	3.00	-	-
C105	BTES105	Workshop Practices	2.20	2.24	2.34	2.28	-	-
C106	BTES106	Basic Electrical and Electronics Engineering	3.00	3.00	3.00	1.40	3.00	-
C107	BTBS107L	Engineering Chemistry Lab	2.52	2.52	2.84	2.84	-	-
C108	BTES108L	Engineering Mechanics Lab	2.14	2.14	2.16	2.16	1.98	-
C109	BTBS201	Engineering Mathematics-II	3.00	3.00	3.00	3.00	-	-
C110	BTBS202	Engineering Physics	2.12	2.20	2.36	2.20	2.20	-
C111	BTES203	Engineering Graphics	3.00	2.84	3.00	2.84	3.00	-
C112	BTHM204	Communication Skills	1.72	1.72	1.72	1.72	1.72	-
C113	BTES205	Energy and Environment Engineering	2.84	2.84	2.84	2.84	2.84	-
C114	BTES206	Basic Civil and Mechanical Engineering	2.66	2.62	2.80	2.82	-	-
C115	BTBS207L	Engineering Physics Lab	2.52	2.52	2.84	2.84	-	-
C116	BTES208L	Engineering Graphics Lab	2.52	2.52	2.52	2.68	-	-
C117	BTHM209L	Communication Skills Lab.	1.72	1.72	1.72	1.72	-	-
C118	BTES210P	Seminar	2.84	2.84	3.00	3.00	3.00	-
C119	BTES211P	Field Training	2.30	2.96	-	-	-	-
		Second Year Engineering						
C201	BTBSC301	Engineering Mathematics-III	2.28	2.36	2.04	2.36	2.36	-
C202	BTCVC302	Mechanics of Solids	3.00	2.92	3.00	3.00	-	-
C203	BTCVC303	Hydraulics-I	2.12	2.04	2.20	2.20	-	-
C204	BTCVC304	Surveying-I	2.92	2.92	3.00	2.84	-	-
C205	BTCVC305	Building Construction	1.72	1.72	1.72	1.72	-	-

C206	BTCVC306	Engineering Geology	2.76	2.76	2.84	2.68	-	-
C207	BTCVL307	Hydraulics Laboratory-I	1.40	1.40	1.08	-	-	-
C208	BTCVL308	Surveying Laboratory-I	2.04	2.36	2.04	2.36	-	-
C209	BTCVL309	Building Construction Drawings Laboratory	2.04	2.36	2.20	2.20	-	-
C210	BTCVL310	Engineering Geology Lab	3.00	3.00	2.84	3.00	-	-
C211	BTCVS311	Seminar on Topic of Field Visit to Foundation Work	3.00	3.00	3.00	3.00	2.84	-
C212	BTCVF312	Field Training	3.00	2.52	3.00	3.00	-	-
C213	BTHM303	Soft Skills Development	2.52	1.24	2.52	1.24	2.52	-
C214	BTHM3401	Basic Human Rights	2.20	1.40	2.20	1.40	-	-
C215	BTCVC401	Hydraulics-II	3.00	3.00	2.68	2.68	-	-
C216	BTCVC402	Surveying-II	3.00	2.80	2.76	2.95	-	-
C217	BTCVC403	Structural Mechanics-I	1.72	1.64	1.72	1.72	-	-
C218	BTCVE404B	Planning for Sustainable Development	2.92	2.92	2.84	2.84	-	-
C219	BTID405	Product Design Engineering	2.84	2.64	3.00	2.80	-	-
C220	BTCVC406	Engineering Management	2.20	2.20	2.20	2.20	-	-
C221	BTCVL407	Hydraulics Laboratory-II	2.04	2.04	2.04	2.04	-	-
C222	BTCVL408	Surveying Laboratory-II	3.00	3.00	3.00	2.80	2.68	3.00
C223	BTCVL409	Mechanics of Solids Laboratory	2.68	2.68	2.52	2.68	-	-
C224	BTCVM410	Mini Project	3.00	1.40	2.20	3.00	3.00	-
C225	BTCVF411	Seminar on Topic of Field Visit to works involving Superstructure Construction	2.20	2.20	2.20	1.40	2.20	-
		Third Year Engineering						
C301	BTCVC501	Design of Steel Structures	2.92	2.92	2.84	3.00	-	-
C302	BTCVC502	Structural Mechanics-II	2.76	2.84	3.00	-	-	-
C303	BTCVC503	Soil Mechanics	2.84	2.76	2.52	2.52	-	-
C304	BTCVC504	Environmental Engineering	2.76	2.92	3.00	2.24	-	-
C305	BTCVC505	Transportation Engineering	2.92	2.76	3.00	2.84	-	-
C306	BTCVE506A	Materials, Testing & Evaluation	1.40	1.48	1.56	1.56	-	-
C307	BTHM507	Essence of Indian Traditional Knowledge	1.40	2.20	1.40	1.40	-	-
C308	BTCVL508	Soil Mechanics Laboratory	1.56	1.56	1.72	1.56	-	-
C309	BTCVL509	Environmental Engineering Laboratory	3.00	3.00	3.00	-	-	-
C310	BTCVL510	Transportation Engineering Laboratory	1.56	1.56	-	-	-	-
C311	BTCVS511	Seminar	1.56	1.36	1.56	0.92	-	-
C312	BTCVC601	Design of Concrete Structures I	3.00	3.00	3.00	3.00	-	-
C313	BTCVC602	Foundation Engineering	2.76	2.84	2.84	2.84	-	-

C314	BTCVC603	Concrete Technology	2.84	2.64	3.00	2.95	-	-
C315	BTCVC604	Project Management	2.68	3.00	2.76	2.52	2.68	-
C316	BTCVE605D	Advanced Engineering Geology	0.92	0.84	0.92	0.92	-	-
C317	BTCVC606	Building Planning and Design	2.84	2.76	3.00	3.00	-	-
C318	BTCVL607	Concrete Technology Laboratory	2.28	2.36	2.20	2.16	-	-
C319	BTCVL608	Building Planning, Design and Drawing Laboratory	1.08	0.92	1.08	1.08	-	-
C320	BTCVM609	Community Project (Mini Project)	3.00	3.00	3.00	3.00	3.00	-
C321	BTCVS610	Seminar on Topic of Field Visit Road Construction	1.40	2.20	2.20	1.80	-	-
		Fourth Year Engineering						
C401	BTCVC701	Design of Concrete Structures - II	2.36	2.36	2.36	2.20	-	-
C402	BTCVC702	Infrastructure Engineering	3.00	2.92	2.80	2.80	3.00	2.80
C403	BTCVC703	Water Resources Engineering	2.28	2.28	2.20	2.20	-	-
C404	BTCVC704	Professional Practices	2.28	2.28	2.36	2.36	-	-
C405	BTCVE705A	Construction Techniques	1.96	2.12	2.04	2.40	-	-
C406	BTCVOE706E	Town and Urban Planning	2.20	2.60	3.00	-	-	-
C407	BTCVL707	Design & Drawing of RC & Steel Structures	2.36	2.36	2.36	2.36	-	-
C408	BTCVL708	Professional Practices	2.60	2.60	2.60	2.76	-	-
C409	BTCVT709	Field Training /Internship	1.56	1.72	1.72	1.72	-	-
C410	BTCVS710	Seminar	1.72	1.72	1.72	1.72	1.72	-
C411	BTCVP711	Project Stage-I	1.72	1.72	1.72	1.72	1.56	-
C412	BTCVSS801B	Geosynthetics and Reinforced Soil Structures	2.92	2.84	3.00	2.84	-	-
C413	BTCESS802B	Environmental Remediation of Contaminated Sites	3.00	3.00	3.00	3.00	-	-
C414	BTCEP803	Project Stage-II	3.00	3.00	3.00	3.00	3.00	-

3.3 Attainment of Program Outcomes and Program Specific Outcomes (50) Total Marks 50.00

3.3.1 Describe the assessment tools and processes used for measuring the attainment of each of the Program Outcomes and Program Specific Outcomes (10)

Institute Marks : 10.00

3.3.1 Assessment tools and Processes used for measuring the attainment of each program outcome and program specific outcome.

Program outcomes (POs) and program specific outcomes (PSOs) both are assessed considering direct and indirect assessment tools. Direct assessment tools are used considering students' performance in internal assessment as well as university examinations through courses. Indirect assessment of PO/PSO is done through Program Exit Survey & Alumni Survey. Weightage of 80% is given to direct assessment which is based on CO attainment and weightage of 20% is given to indirect assessment which is based on exit survey.

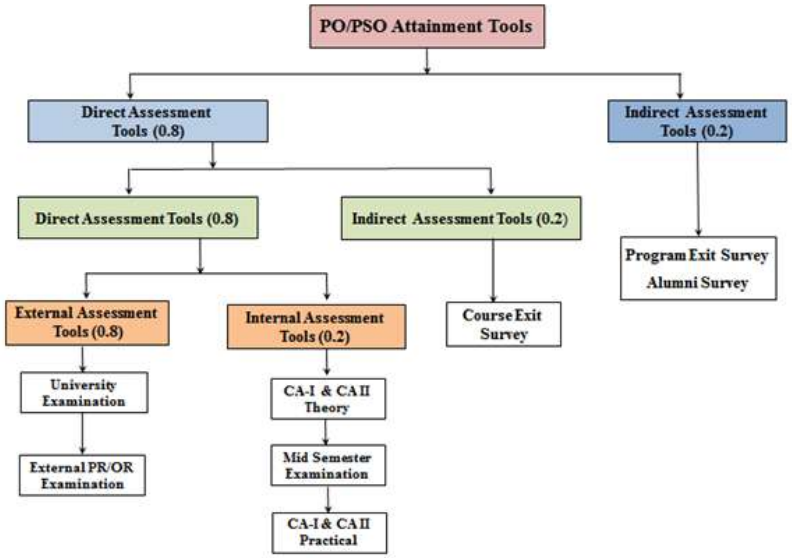


FIGURE 2: PROCESS METHODOLOGY PO/PSO ATTAINMENT

3.3.1.A Attainment level of POs & PSOs

Attainment level of POs & PSOs for a particular course depends on course outcome attainment and mapping of different course outcomes. Course Outcomes of particular subject are mapped to relevant POs and PSOs in the scale of 3, 2 and 1. Attainment of particular program outcome is calculated by taking weighted average of all coarse outcomes attainment addressing to particular PO. Direct assessment sample calculations are described as follows.

1. CO attainment and PO/PSO mapping is defined for every CO of a particular Coarse in the scale of 3, 2 and 1 (i.e. high to low)

Course Outcomes	CO Attainment	Program Outcomes												Program Specific Outcomes		
		PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12	PSO1	PSO2	PSO3
BTCVC 503.1	2.84	2	2	2									3	2		2
BTCVC 503.2	2.76	2	2	2									3	2		2
BTCVC 503.3	2.52	3	3	3									3	2		2
BTCVC 503.4	2.52	3	3	3									3	2		2

2. Direct PO/PSO attainment is calculated using following formula

Course Outcomes	CO Attainment	Program Outcomes												Program Specific Outcomes		
		PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12	PSO1	PSO2	PSO3
BTCVC 503.1	2.84	=2.84X2/3	=2.84X2/3	=2.84X2/3									=2.84X3/3	=2.84X2/3		=2.84X2/3
BTCVC 503.2	2.76	=2.76X2/3	=2.76X2/3	=2.76X2/3									=2.76X3/3	=2.76X2/3		=2.76X2/3
BTCVC 503.3	2.52	=2.52X3/3	=2.52X3/3	=2.52X3/3									=2.52X3/3	=2.52X2/3		=2.52X2/3
BTCVC 503.4	2.52	=2.52X3/3	=2.52X3/3	=2.52X3/3									=2.52X3/3	=2.52X2/3		=2.52X2/3

3. Direct PO/PSO attainment of particular course is calculated by taking average of PO/PSO attainments corresponding to mapped COs.

Course Outcomes	CO Attainment	Program Outcomes												Program Specific Outcomes		
		PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12	PSO1	PSO2	PSO3
BTCVC 503.1	2.84	1.89	1.89	1.89									2.84	1.89		1.89
BTCVC 503.2	2.76	1.84	1.84	1.84									2.76	1.84		1.84
BTCVC 503.3	2.52	2.52	2.52	2.52									2.52	1.68		1.68
BTCVC 503.4	2.52	2.52	2.52	2.52									2.52	1.68		1.68
Average POPSO Attainment		2.19	2.19	2.19									2.66	1.77		1.77

3.3.1B Indirect PO/PSO attainment

Indirect attainment of PO/PSOs is evaluated from Program Exit Survey conducted at the end of Program and Alumni Survey. 20% weightage is given to indirect PO/PSO attainment. A set of questions will be asked to final year students graduating from the department and their responses are recorded and tabulated to get indirect attainment. Similar questionnaire is prepared to collect record and tabulate information regarding PO attainment from alumni. Every Question has a weightage of 3, 2 and 1. Here 3. Excellent, 2. Good, 1. Poor.

A. Program Exit Survey Questionnaire:

Q. No	Parameter
Q1	Are you capable to applying knowledge of mathematics, science, engineering fundamentals and engineering specialization to solve complex engineering problems?
Q2	Are you able to Identify/formulate/analyze complex engineering problems from basic knowledge of engineering, mathematics & science?
Q3	Will you be able to design/develop solutions to complex civil engineering problems considering public health and safety and benefit of society?
Q4	Are you capable of using research-based knowledge and methods to provide valid conclusions to civil engineering problems?
Q5	Can you select and apply appropriate techniques, resources and modern engineering tools for prediction and modeling of complex engineering activities?
Q6	Are you able to understand impact of professional engineering solutions contextual to societal, legal and cultural issues?
Q7	Are you able to understand the impact of the professional engineering solutions for sustainable development of society?
Q8	Are you trained enough about ethical principles commitments responsibilities and norms of your engineering practice?
Q9	Are you able to lead a team or work as an individual in a multidisciplinary team?
Q10	Are you confident of writing effective reports and designing documentation for making effective presentation?
Q11	Are you confident of managing finances, deadlines and human resources using project management techniques when working on real time project?
Q12	Are you prepared to enhance your knowledge and engage in lifelong learning?
Q13	Are you confident about finding employment in competitive world?
Q14	Are you motivated enough to opt for doing research work and higher studies?
Q15	Are you motivated enough to opt for competitive examinations?

B. Relation of POs & PSOs with questionnaire

Question	Q1	Q2	Q3	Q4	Q5	Q6	Q7	Q8
PO/PSO	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8
Question	Q9	Q10	Q11	Q12	Q13	Q14	Q15	
PO/PSO	PO9	PO10	PO11	PO12	PSO1	PSO2	PSO3	

C. Alumni Survey Questionnaire:

Q1 Are you able to apply knowledge of analyse and design of Civil Engineering field to achieve desired requirement?

Q2 Are value added courses, workshops and Training Programs that conducted during your course useful?

Q3 Are you able to use Skills, different techniques, and Modern Engineering tools, necessary for Engineering Practices?

Q4 Are you able to get benefits from Communication skill, presentation skill, leadership skill gained during your course

Q5 Are you able to engage in or solve the issues/problems and acquire lifelong learning?

Q6 Are you able to select and apply appropriate knowledge, techniques, resources and modern engineering and IT Tools for development of project?

Q7 Extent of Ethical, Environmental, and Social values helping you to relate Civil Engineering issues with society?

Q8 Able to handle the industrial requirement?

D. Relation of POs and PSOs with Questionnaire

Question	Q1	Q2	Q3	Q4
PO/PSO	PO1, PO3	PO1, PO5	PO5, PO11	PO9,PO10
Question	Q5	Q6	Q7	Q8
PO/PSO	PO12	PO2, PO4	PO6, PO7, PO8	PSO1, PSO2, PSO3

3.3.2 Provide results of evaluation of PO&PSO (40)

Institute Marks : 40.00

PO Attainment

Course	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12
C101	1.04	0.84	0.36	0.36	0.36	0	0	0	0	0	0	0
C102	1.96	1	0.95	0	0	1.96	1.92	0	0	0	0	1.56

C103	1.72	1.38	1.49	0	0	0	0	0	0	0	0	1.72
C104	1.73	1.41	1.18	1.32	1.21	1.45	1.44	0.85	1.16	1.59	1.10	1.56
C105	1.84	1.84	1.84	0.92	2.76	1.84	0.45	0	2	1.84	0	1.84
C106	2.83	1	1	0	1	0	0	1	0	0	0	1
C107	0	1.27	0	0	0	1.71	1.48	0	0	0	0	1.71
C108	1.72	1.72	0	0	0	0	0	0	0	0	0	1.72
C109	2.02	1.24	0.63	0.77	0.77	0	0	0	0	0	0	0
C110	1.44	1.44	0.72	1.44	0	0	0.72	0	0	0	0	0.91
C111	1.34	1.07	0.54	1.10	0.79	0	0	0	0	0	0	0.67
C112	0	0	0	0	0	0	0	1	1.25	3	1.25	2.25
C113	2.27	2.08	1.89	1.9	0	0	0	0	0	0	0	2.27
C114	1.36	1.16	0.98	0.93	0	1.33	1	0	0	0	0	2
C115	1.79	1.79	0	0	0	0	0	0	0.89	0.89	0	1.79
C116	2.04	1.48	1.12	1.48	0.73	0	0	0	0	0	0	0.74
C117	0	0	0	0	0	0	0	1	1.25	3	1.25	2
C118	1.96	0	1	0	0	1.63	1.3	1.63	2.3	1.96	0	1.58
C119	2.63	0.88	0.88	0	0	1.75	0	0.88	0	0	2.63	2.14
C201	1.52	1.52	0.76	0.76	0	0	0	0	0	0	0	0.76
C202	2.5	1.24	1.65	1.24	1.47	0	0	0	0	1	0	0.99
C203	2.16	1.6	1.6	1.43	0	0	0	0	0	0	0	1.60
C204	2.92	1.7	0	1.95	0	1.95	1.95	1.95	1.95	0.97	1.95	1.95
C205	1.15	0	0	1.15	0	1.15	1.15	1.15	0.57	0.57	1.15	1.15
C206	2.76	1.84	1.84	1.84	0	0.92	2.76	0	0	0	0	2.76
C207	1.29	0.98	1.02	0.86	0	0	0	0	0	0	0	0.98
C208	2.2	2.2	0	0.73	0	0	0.73	2.2	2.2	1.47	0	2.2
C209	2.2	2.2	0	0	0	2.2	0.73	2.2	2.2	1.47	0	2.2
C210	2.71	1.97	1.89	2	0	0	0	0	0	0	0	2.22
C211	2.38	0	0	0	0.99	2.58	0	0	0.99	2.97	0	2.97
C212	1.92	0	0	0	0.96	2.63	0	0	0.96	2.88	0	2.88
C213	0	0	0	0	0	1.51	0	0	2.01	0	0	2.01
C214	0.6	0	0	0	0	0	1.80	1.8	0	0	0	1.8
C215	2.84	1.89	2.10	2.62	0	0	0	0	0	0.95	0	2.37
C216	1.92	0	0	0	1.29	0	0	0.99	1.92	1.98	1.96	1.92

C217	1.41	1.33	1.33	0.56	0	0	0.57	0	0	0	0	0.76
C218	2.88	1.26	0	1.92	1.92	1.91	1.92	0.96	0	0	1.26	1.92
C219	2.82	1.63	0.97	1.88	1.87	0	0	0.93	1.88	1.87	0.93	1.88
C220	1.83	1.28	1.10	1.65	0	0	0	0.72	0.72	0.73	1.83	2.02
C221	2.04	1.36	1.59	1.87	0	0	0	0	0	0	0	1.19
C222	1.94	0.95	0	0	2	0	0	1.33	1.94	2	1	1.94
C223	2.64	1.55	0	1.73	1.76	0	0.89	0	1.79	1.79	0	1.76
C224	2.52	2.08	2.33	2.50	1.73	0	0	0	2.52	0	1.85	2.52
C225	1.36	0	0	0	0.68	1.80	0	0	0.68	2.04	0	2.04
C301	1.70	1.93	2.26	0.97	0	0	0.96	0	0	0	0	1.70
C302	1.59	2.24	2.45	1	0	0	0.96	0	0	0	0	1.60
C303	2.19	2.19	2.19	0	0	0	0	0	0	0	0	2.66
C304	2.73	1.82	0	1.82	0	1.82	1.82	1.82	2.73	0	0.91	1.82
C305	2.68	2.39	2.53	2.39	0	1.58	1.92	0	0	0	0	1.68
C306	1.5	1.13	1.13	1.24	0	0	1	0	0	0	0	1.38
C307	1.07	0.65	0	0.70	0.53	0	0.93	0	0.88	0	0	0.77
C308	1.47	1.07	1.07	1.07	0	0.53	1.07	0	0	0	0	1.20
C309	3	3	0	0	0	0	1.67	0	2	2	0	2
C310	1.3	1.04	1.04	1.04	0	0	0	0	0.52	0.52	0	1.04
C311	0.98	1.04	0.52	0	0.83	0	0	0	0.98	0.90	0	0.90
C312	2.50	2	2	1.33	1	0	1	1	0	1	1	1.50
C313	2.82	2.82	2.82	1.88	0	0	1.88	0	0	0	0	2.82
C314	2.17	2.15	1.98	1.98	2	1.96	1.95	0.95	1.95	1.67	1.76	1.90
C315	2.53	2.31	1.87	1.85	0.89	0	0	0.89	0	0	0.94	1.60
C316	0.75	0.75	0.75	0.82	0	0	0.60	0	0	0	0	0.90
C317	1.93	1.20	0	1.84	1.84	1.95	1.93	0.93	0	0	1.20	1.93
C318	2.06	1.01	1.47	1.25	1.45	0.76	0.76	0.75	1.50	1.31	1.15	2.07
C319	0.96	0.69	0.72	0	0.34	0.34	0	0	0.69	0.34	0	0.78
C320	3	2.40	2.33	2.50	2	0	0	0	3	0	2.25	3
C321	1.27	1.18	0	0.69	1.20	1.45	0.73	0.6	0.97	1.57	0.93	1.60
C401	2.67	2	1.67	1.50	1.67	0	1	1	0	1	0	1.33
C402	2.09	1.54	1.72	1.91	1.61	1.94	1.92	1.94	1.92	1.96	1.93	1.92
C403	1.86	1.86	1.86	2.24	0	2.24	2.24	0.76	1.49	0	1.83	2.24

C404	2.32	0.96	0	1.52	1.52	1.56	1.55	1.14	0.76	0.76	0.96	1.55
C405	1.33	1.20	1.36	1.20	0	0.69	0.67	0	0.69	0.71	0	1.36
C406	0.87	1.44	0.73	0.80	0	0.87	0.93	0	0.93	0	0	1.73
C407	2.36	2.10	1.84	1.31	1.05	1.18	0.79	1.18	1.97	1.57	1.18	1.77
C408	2.42	1.76	1.79	0	0	0	0	0	0	0	0	1.76
C409	1.11	0.92	0.57	0.52	0.55	0.56	0.56	1.11	0.92	0.75	1.09	1.11
C410	1.15	0.57	0	1.15	1.15	1.15	1.15	0.57	0	0	0.57	1.15
C411	0.96	0.96	1.15	1.11	1.28	0.55	1.15	1.09	1.34	1.25	1.12	1.57
C412	1.93	1.20	0	1.89	1.89	1.93	1.93	0.96	0	0	1.20	1.93
C413	2	1.25	1	2	2	2	2	1	0	0	1.25	2
C414	1.67	1.67	2	2	2	1	2	2	2.25	2	2	2.75

PO Attainment Level

Course	**PO1**	**PO2**	**PO3**	**PO4**	**PO5**	**PO6**	**PO7**	**PO8**	**PO9**	**PO10**	**PO11**	**PO12**
CO Attainment	2.12	1.78	1.70	1.71	1.65	1.77	1.62	1.50	1.76	1.80	1.67	1.95
Direct Attainment	1.94	1.52	1.43	1.44	1.33	1.51	1.32	1.18	1.50	1.51	1.38	1.73
InDirect Attainment	2.82	2.81	2.78	2.79	2.92	2.82	2.81	2.8	2.78	2.95	2.82	2.81

PSO Attainment

Course	**PSO1**	**PSO2**	**PSO3**
C101	0.35	0.33	0.34
C102	0.99	0.97	1
C103	1.72	1.15	0
C104	1.37	1.14	1.04
C105	1.84	0.92	0
C106	2.83	1	1
C107	0	0	1.71
C108	1.10	1.10	1.10
C109	0.78	0.79	0
C110	0.72	0	0
C111	0.78	0.78	0.78
C112	0	1	0
C113	1.89	1.52	2.08

C114	1.17	1.47	0.73
C115	1.79	0	0
C116	1.08	1.08	1.08
C117	0	1	0
C118	0	0	0
C119	1.75	0.77	0
C201	0.76	0	0
C202	1.33	1.24	1.65
C203	1.8	1.43	1.43
C204	2.92	2.92	1.95
C205	1.15	1.15	0.57
C206	2.76	1.84	0.89
C207	0.55	0.43	0.43
C208	2.2	2.2	1.47
C209	2.2	2.2	1.47
C210	1.97	0	0
C211	2.97	1.98	0.99
C212	1.92	2.17	1.71
C213	1.76	0	0.67
C214	1.2	1.2	0
C215	1.64	1.2	0.95
C216	1.2	1.9	1.43
C217	0.85	0.85	1
C218	1.93	1.93	0.96
C219	0.97	1.4	0.96
C220	1.83	0.73	0.73
C221	1.19	0.85	0.68
C222	1.23	1.67	1.23
C223	0.87	1.73	0.88
C224	2.52	0.84	1.68
C225	2.04	1.36	0
C301	1.96	1.47	1.96
C302	1.38	1.58	1.91

C303	1.77	0	1.77
C304	2.73	1.82	1.82
C305	1.95	1.92	1.19
C306	1	1	1
C307	0	0.53	0
C308	1.07	1.07	1.07
C309	2	2	2
C310	1.5	0.78	0.52
C311	0.9	0.49	0.50
C312	2	2	1
C313	1.88	0	1.88
C314	1.94	1.92	1.43
C315	2.74	1.16	0.91
C316	0.6	0	0.6
C317	2.65	1.2	0.96
C318	1.5	1.5	1.32
C319	0.35	0.35	0.35
C320	3	1	2
C321	1.48	1.42	1.27
C401	1.33	1	1.33
C402	1.45	0.96	1.92
C403	1.68	1.49	1.47
C404	1.35	1.16	0.97
C405	2	1.03	1.03
C406	1.4	0.87	0.87
C407	1.77	0.98	0.79
C408	1.76	2.64	1.76
C409	1.39	0.83	0.69
C410	1.15	1.72	0.57
C411	1.35	1.02	0.98
C412	2.18	1.93	1.89
C413	1.5	2	1
C414	2.5	2	1.67

PSO Attainment Level

Course	PSO1	PSO2	PSO3
CO Attainment	1.85	1.61	1.51
Direct Attainment	1.61	1.32	1.18
InDirect Attainment	2.8	2.78	2.81

4 STUDENTS' PERFORMANCE (150) Total Marks 84.92

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Table 4.1

Item (Information to be provided cumulatively for all the shifts with explicit headings, wherever applicable)	2021-22 (CAY)	2020-21 (CAYm1)	2019-20(CAYm2)	2018-19(CAYm3)	2017-18(CAYm4)	2016-17 (CAYm5)	2015-16 (CAYm6)
Sanctioned intake of the program(N)	60	30	30	30	30	60	60
Total number of students admitted in first year minus number of students migrated to other programs/ institutions plus No. of students migrated to this program (N1)	8	9	4	16	27	10	6
Number of students admitted in 2nd year in the same batch via lateral entry (N2)	19	25	30	17	12	61	11
Separate division students, If applicable (N3)	0	0	0	0	0	0	0
Total number of students admitted in the programme(N1 + N2 + N3)	27	34	34	33	39	71	17

Table 4.2

Year of entry	Total No of students admitted in the program (N1 + N2 + N3)	Number of students who have successfully graduated without backlogs in any semester/ year of study (Without Backlog means no compartment or failures in any semester/ year of study)			
		I year	II year	III year	IV year
2021-22 (CAY)	27	0	0	0	0
2020-21 (CAYm1)	34	8	0	0	0
2019-20 (CAYm2)	34	3	28	0	0
2018-19 (CAYm3)	33	9	9	9	0
2017-18 (LYG)	39	13	20	9	9
2016-17 (LYGm1)	71	0	2	2	2
2015-16 (LYGm2)	17	1	1	1	1

Table 4.3

Year of entry	Total No of students admitted in the program (N1 + N2 + N3)	Number of students who have successfully graduated in stipulated period of study) [Total of with Backlog + without Backlog]			
		I year	II year	III year	IV year
2021-22 (CAY)	27	0	0	0	0
2020-21 (CAYm1)	34	8	0	0	0
2019-20 (CAYm2)	34	4	32	0	0
2018-19 (CAYm3)	33	14	30	30	0
2017-18 (LYG)	39	21	33	33	33
2016-17 (LYGm1)	71	6	37	33	33
2015-16 (LYGm2)	17	5	6	6	5

4.1 Enrolment Ratio (20)

Total Marks 0.00

Institute Marks : 0.00

	N (From Table 4.1)	N1 (From Table 4.1)	Enrollment Ratio [(N1/N)*100]
2021-22 (CAY)	60	8	13.33
2020-21 (CAYm1)	30	9	30.00
2019-20 (CAYm2)	30	4	13.33

Average [(ER1 + ER2 + ER3) / 3] : 18.89

Assessment : 0.00

4.2 Success Rate in the stipulated period of the program (40)

Total Marks 10.75

4.2.1 Success rate without backlogs in any semester / year of study (25)

Institute Marks : 2.75

Item	Latest Year of Graduation, LYG (2017-18)	Latest Year of Graduation minus 1, LYGm1 (2016-17)	Latest Year of Graduation minus 2 LYGm2 (2015-16)
X Number of students admitted in the corresponding First year + admitted in 2nd year via lateral entry and seperated division, if applicable	39.00	71.00	17.00
Y Number of students who have graduated without backlogs in the stipulated period	9.00	2.00	1.00
Success Index [SI = Y / X]	0.23	0.03	0.06

Average SI [(SI1 + SI2 + SI3) / 3] : 0.11

Assessment [25 * Average SI] : 2.75

4.2.2 Sucess rate in stipulated period (15)

Institute Marks : 8.00

Item	Latest Year of Graduation, LYG (2017-18)	Latest Year of Graduation minus 1, LYGm1 (2016-17)	Latest Year of Graduation minus 2 LYGm2 (2015-16)
X Number of students admitted in the corresponding First year + admitted in 2nd year via lateral entry and seperated division, if applicable	39.00	71.00	17.00
Y Number of students who have graduated in the stipulated period	33.00	33.00	5.00
Success Index [SI = Y / X]	0.85	0.46	0.29

Average SI[(SI1 + SI2 + SI3) / 3]: 0.53

Assessment [15 * Average SI] : 8.00

Note : If 100% students clear without any backlog then also total marks scored will be 40 as both 4.2.1 & 4.2.2 will be applicable simultaneously.

4.3 Academic Performance in Third Year (15)

Total Marks 9.80

Institute Marks : 9.80

Academic Performance	CAYm3 (2018-19)	LYG (2017-18)	LYGm1 (2016-17)
Mean of CGPA or mean percentage of all successful students(X)	7.90	7.07	5.20
Total number of successful students(Y)	30.00	33.00	33.00
Totalnumber of students appeared in the examination(Z)	30.00	33.00	37.00
API [X*(Y/Z)]:	7.90	7.07	4.64

Average API [(AP1 + AP2 + AP3)/3] : 6.54

Assessment [1.5 * AverageAPI] : 9.80

4.4 Academic Performance in Second Year (15)

Total Marks 10.77

Institute Marks : 10.77

Academic Performance	CAYm2 (2019-20)	CAYm3 (2018-19)	LYG (2017-18)
Mean of CGPA or mean percentage of all successful students(X)	7.22	7.21	7.76
Total number of successful students (Y)	32.00	30.00	33.00
Total number of students appeared in the examination (Z)	34.00	31.00	33.00
API [X * (Y/Z)]	6.80	6.98	7.76

Average API [(AP1 + AP2 + AP3)/3] : 7.18

Assessment [1.5 * AverageAPI] : 10.77

4.5 Placement, Higher Studies and Entrepreneurship (40)

Total Marks 33.60

Institute Marks : 33.60

Item	LYG (2017-18)	LYGm1 (2016-17)	LYGm2 (2015-16)
Total No of Final Year Students(N)	33.00	33.00	6.00
No of students placed in the companies or government sector(X)	14.00	14.00	2.00
No of students admitted to higher studies with valid qualifying scores(GATE or equivalent State or National Level tests, GRE, GMAT etc.) (Y)	2.00	3.00	0.00
No of students turned entrepreneur in engineering/technology (Z)	9.00	8.00	4.00
x + y + z =	25.00	25.00	6.00
Placement Index [(X+Y+Z)/N] :	0.76	0.76	1.00

Average Placement [(P1 + P2 + P3)/3] : 0.84

Assessment [40 * Average Placement] : 33.60

Program Name : Electrical Engg.

Assessment Year Name : CAYm1

S.No	Student Name	Enrollment No	Employee Name	Appointment No
1	More Amit P	51675720171119110007	Infosys, Bangalore, Karnataka	HRD/3T/1004648186/22-23
2	Kale Dinesh S	51675720171119110002	Shivdhan Constructions, Hinjawadi, Pune	07/2022/SC/AO/36
3	Ubale Shubham P	51675720181119110025	Capgemini	Offer/2500955
4	Chavan Smita S	51675720171119110008	Yashoda College of Polytechnic, Yashoda Shikshan Prasarak Mandal, Satara	YSPM/YTC/EST/58/2021-22
5	Hingmire Shivtej B	51675720171119110013	Tata Consulting Services, Hyderabad, Telangana	TCSL/DT20218585304/1656695/HYD
6	Gaikwad Abhijeet A	51675720171119110015	Capgemini	Offer/46179724
7	Magar Sourabh M	51675720171119110016	Millennium Engineers & Contractors, Balewadi, Pune	MECL/HR&A/OFL/2022
8	Nalawade Snehal R	51675720171119110018	Tata Consulting Services, Lucknow	TCSL/DT20219007518/LUCKNOW
9	Shinde Vikas B	51675720171119110019	RCON Pune Pvt. Ltd, Pimpri, Pune	RPPL/VS/2022/27
10	Sabale Shivraj S	51675720171119110020	Capgemini, Pune	5829856L/1286588
11	Ugale Arati R	51675720171119110022	Nanasaheb Mahadik Polytechnic, Institute, Sangali	SVSS/NMPL/8341-1/2021-22
12	Dekhane Siddhesh P	51675720171119110025	OSource Global Pvt. Ltd., Lower Parel, Mumbai 13	OSource/2022-01/HR-21
13	Kolape Swapnali D	51675720181119110016	Capgemini	5875198/1243496
14	Bagwan Saad S	51675720181119110022	Munisa A Bagwan	Letter/06-2022/13

Assessment Year Name : CAYm2

S.No	Student Name	Enrollment No	Employee Name	Appointment No
1	Katte Kajal R	2016097031	Infosys,Pune	HRD/3T/21-22/1003203619
2	Shelar Udayan S	2017109212	Infosys, Mysore, Karnataka	HRD/1003083247/2021-22
3	Kadam Roshan R	2017108389	Piramal Capital & Housing Finance Ltd, Lower Parel, Mumbai	611717
4	Mulla Amin A	2017106396	Synergy Sky Infra development Pune	SI/06-2022/OL/55
5	Pawar Akshay M	2017106379	V S Services, Warunji Karad	VSS/07-2021/OL/35
6	Magdum Omkar M	2017097966	Shree Electrical Pvt Ltd, Jaysingpur, Sangli	SE/2021-10/LO/58
7	Darshane Viraj S	2017106076	SEMAC Costruction Technologies India LLP, Banglore, Karnataka	SCTILLP/12-21/HR&A/806
8	Sutar Gitanjali B	2017109208	BG Shirke Construction Technology Pvt. Ltd, Pune	OL/BGS/HR/09-2022/90
9	Pawar Dhanashree A	2017106649	Perfect Valuation & Consultants, Mumbai	PVC/AL/2021-11/61
10	Patil Yogesh K	2017106378	Vedan Infra & Projects Pvt. Ltd, Hydrabad, Telangana	2022/05/VIP/HR-26
11	Mahangade Abhijit P	2017106248	J K Infraprojects Ltd, Andheri West, Mumbai	Letter/11-2022/JKIL/HR-72
12	Patil Nikhil V	2016097030	D.S. Associates, Satara	DSA/Satara/06-2022/39
13	Salunkhe Saurabh M	2017106235	J.K. Infraproducts ltd, Andheri West, Mumbai	Letter/06-2022/JKIL/HR-96
14	Vidhate Shubham H	2017105704	S.J.Contracts pvt.ltd, Baner, Pune	SJCPL-HR-FR-06

Assessment Year Name : CAYm3

S.No	Student Name	Enrollment No	Employee Name	Appointment No
1	Jagtap Aniket Arjun	2015016223	Birlasoft, Pune	BSL/HR/APPT/2022-836634
2	Pawar Jeevan Arun	2016104247	Bharat Reality / Nuleaf Lifespace, Andheri West Mumbai 53	Mail dated – 30/09/2022

4.6 Professional Activities (20) Total Marks 20.00

4.6.1 Professional socities/ chapters and organizing engineering events (5)

Institute Marks : 5.00

Sr. No	Contents.
1	ISTE (Indian Society for Technical Education)
2	CESA (Civil Engineering Student Association)

Summary of program organized by Civil Engineering Student Association (CESA) and Indian Society for Technical Education (ISTE)

1. In the academic year 2021-22 Department of Civil Engineering has organized 12 events related to curriculum and beyond curriculum. These events covered technical and nontechnical activities. These events are helpful for their personality development.
2. In the academic year 2020-21 Department of Civil Engineering has organized 03 events related to curriculum and beyond curriculum. These events cover technical and nontechnical activities. This is helpful for students to manifest their hidden talent.
3. In the academic year 2019-20 Department of Civil Engineering has organized 07 events related to curriculum and beyond curriculum. These events cover technical and nontechnical activities. This is helpful for students to improve their skills.

Academic Year 2021-22

Sr. No	Event name	Period/Date
1	Stadd Pro v8i Software Analysis by Mr. Vaibhav S. Nikam	1/09/2021 to 14/09/2021
2	Celebration of Engineer’s Day	15/09/2021
3	Swachhata Abhiyan and Mahatma Gandhi and Lal Bhadur Shastri Jyanti	02/10/2021
4	National Constitution Day	16/11/2021
5	Industrial Visit at Fecal Treatment Plant, Malkapur, Tal. Karad, Dist. Satara	31/12/2021
6	National Youth Day	12/01/2022
7	National Voters Day	25/01/2022
8	International Women’s Day	08/03/2022
9	Bridge Tech 2022	12/04/2022
10	STTP on “Building Lineout” under the guidance of Mr. Shamkar Zambare.	11/06/2022
11	Industrial Visit at Water and Sewage Treatment Plant, Malkapur, Tal. Karad, Dist. Satara	01/07/2022
12	ISTE sponsored faculty development program on “Advancement in Civil Engineering” from August 23 to August 27,2022	23/08/2022 to 28/08/2022

All Participants and Examiners Team

Academic Year 2020-21

Sr. No	Event name	Period/Date
1	**Basic Civil Engineering Quiz Competition**	28/05/2020
2	**International Yoga Day** by Mr. Dnyaneshwar Chavan	21/06/2020
3	Celebration of **Engineer's Day**	15/09/2020

Students and Faculty attending programme of Art of Living

Academic Year 2019-20

Sr. No	Event name	Period/Date

1	Estimating & Costing Guest Lecture Report in association with CESA	22/08/2019
2	A one day workshop on STAAD Pro Software	24/08/2019
3	Event of “Engineer’s Day Photo-Contest Event "	15/09/2019
4	Preparation of Civil competitive exam & after joining work culture in Govt. Organization	23/09/2019
5	GATE 2020 Exam- Awareness Lecture	24/09/2019
6	Stadd Pro v8i Software Analysis by Mr. Vaibhav S. Nikam	20/11/2019 to 02/12/2019
7	Marathi Rajbhasha Din	27/02/2020

Photographs at Activity Place at Civil department Activity Wall

4.6.2 Publication of technical magazines, newsletters, etc. (5)

Institute Marks : 5.00

Departmental magazines / newsletters :

One magazine, called “**CIVIL-FRESH**”, is published annually and one newsletter named "**CIVIL -ABHIYANTA**" is published quaterly by the Department of Civil Engineering. The magazine is published in the department. One hard copy of the magazine is available in the department and electronic copy is circulated to the stakeholders.

The description of the magazine/newsletter is given below.

CIVIL-FRESH / CIVIL -ABHIYANTA:

This **magazines / newsletters** contains the following points.

- Vision and Mission of the Institute and the department.
- Program Educational Objectives (PEOs).
- Program Outcomes (POs).
- Different activities conducted in the department.
- Faculty achievements (Summary of Workshops Attended and Papers Published, etc).
- Students Achievements (Prizes won by students in co-curricular and extracurricular activities, etc).
- Summary of industrial visits conducted by the department.

Institutional magazines / newsletters :

One magazine, called “**YASHODA**”, is published annually and one newsletter named "**YASHODA- NEWSLETTER**" is published monthly by the Institute. One hard copy of the magazine is available in the centrelly and electronic copy of magazines / newsletters is circulated to the stakeholders.

The description of the magazine/newsletter is given below.

YASHODA magazines / newsletters:

This **magazines / newsletters** contains the following points.

- Vision and Mission of the Institute.
- Different activities conducted in the various departments.
- Faculty achievements (Summary of Workshops Attended and Papers Published, etc).
- Students Achievements (Prizes won by students in co-curricular and extracurricular activities, etc).
- Summary of industrial visits conducted by various departments.

4.6.3 Participationinter-institute events by students of the program of study (10)

Institute Marks : 10.00

Sr. No.	Student Name	Event	Organized By
1	Desai Sayali Shankar, Second prize	Quiz on IS Code Cracking	KITS, Kakinada
2	Arjun Avinash Shivaji, Second prize	Quiz on IS Code Cracking	KITS, Kakinada
3	Mane Neha Satish, Participant	Quiz on IS Code Cracking	KITS, Kakinada
4	Kenjale Rutuja, Participant	Quiz on IS Code Cracking	KITS, Kakinada
5	Nikam Shweta ,Participant	Quiz on IS Code Cracking	KITS, Kakinada
6	Gole Pranav, Participant	Quiz on IS Code Cracking	KITS, Kakinada
7	Mr. Patil Omkar Sunil	Recent Trendsin Engineering and Technology	KBP COE Satara
8	Ms. Mane Namrata Ravindra	Recent Trendsin Engineering and Technology	KBP COE Satara
9	Ms. Pawar Vaishali Vinayak	Recent Trendsin Engineering and Technology	KBP COE Satara
10	Desai Sayali Shankar	PROJECT COMPETITION	Yashoda Technical Campus
11	Arjun Avinash Shivaji	PROJECT COMPETITION	Yashoda Technical Campus
12	Mane Neha Satish	PROJECT COMPETITION	Yashoda Technical Campus
13	Gaikwad Girish Sampat	PROJECT COMPETITION	Yashoda Technical Campus
14	Saste Rohan Navanath	PROJECT COMPETITION	Yashoda Technical Campus
15	Tamboli Huzefa Faruk	PROJECT COMPETITION	Yashoda Technical Campus
16	Gaikwad Girish Sampat	PAPER PRESENTSTION	Yashoda Technical Campus
17	Saste Rohan Navanath	PAPER PRESENTSTION	Yashoda Technical Campus
18	Patil Omkar Sunil	PAPER PRESENTSTION	Yashoda Technical Campus
19	Sawant Akshay Uday	PAPER PRESENTSTION	Yashoda Technical Campus
20	Tamboli Huzefa Faruk	PAPER PRESENTSTION	Yashoda Technical Campus
21	Yewale Sourabh S	PAPER PRESENTSTION	Yashoda Technical Campus
22	Mr. Chand Omkar	Bridge Tech Event	Yashoda Technical Campus
23	Mr. Deshmukh Mahendra P	Bridge Tech Event	Yashoda Technical Campus
24	Mr. Kambale Shivshankar	Bridge Tech Event	Yashoda Technical Campus
25	Mr. Lankeshwar Dhampal Y	Bridge Tech Event	Yashoda Technical Campus
26	Mr. Raut Prashant B	NPTEL	SWAYAM / NPTEL

27	Mr. Wagh Raj Pramod	Kabbadi	Inter D BATU University Selection at Krida Mahostav 2019
28	Mr.Shinde Mayur Amrutrao	Marathi Rajyabhasha Day	Yashoda Technical Campus

Summary of Students Participation and achivements:

Item	CAY 2021-22	CAYm1 2020-21	CAYm2 2019-20
In house No. of Participants	**19**	**00**	**15**
In house No. of Achievements	**12**	**00**	**00**
Inter-Institute No. of Participants	**09**	**02**	**01**
Inter-Institute No. of Achievements	**02**	**01**	**01**

5 FACULTY INFORMATION AND CONTRIBUTIONS (200)

Total Marks 163.72

Institute Marks :

Name	PAN No.	University Degree	Date of Receiving Degree	Area of Specialization	Research Paper Publications	Ph.D Guidance	Faculty receiving Ph.D during the assessment year	Current Designation	Date (Designated as Prof/Assoc. Prof.).	Initial Date of Joining	Association Type	At present working with the Institution(Yes/No)	In case of NO, Date of Leaving	IS HOD?
Mr. Borate Prashant Gajanan	BFJPB3810C	M.E/M.Tech	27/07/2015	Civil & Water Management Engineering	1	0	0	Assistant Professor		01/06/2015	Regular	Yes		Yes
Mr. Lembhe Sunil Shivajirao	AHXPL7527M	M.E/M.Tech	28/06/2014	Environment Engineering	1	0	0	Assistant Professor		05/06/2018	Regular	Yes		No
Mr. Shah Ajinkya Subhasg	DEOPS5711D	M.E/M.Tech	20/10/2016	Structural Engineering	4	0	0	Assistant Professor		01/01/2018	Regular	Yes		No
Mr. Pharande Shailesh Baliram	AZLPP6649N	M.E/M.Tech	15/11/2014	Structure	1	0	0	Assistant Professor		09/12/2019	Regular	No	18/07/2020	No
Ms. Sadawarte Sayali Shishir	GMZPS3363D	M.E/M.Tech	30/05/2020	WREE	0	0	0	Assistant Professor		22/09/2020	Regular	No	31/03/2021	No
Mr. Lohana Yash Kanhaiya	AMVPL1033B	M.E/M.Tech	30/05/2020	Constriction Engineering & Management	1	0	0	Assistant Professor		22/09/2020	Regular	No	01/11/2021	No
Mr. Shaikh Alfaj Najir	CAHPS3176A	M.E/M.Tech	10/09/2020	Constrction & Mangement	4	0	0	Assistant Professor		03/02/2020	Regular	Yes		No
Mrs. Pawar Vijaya Pralhad	ANHPP5722G	M.E/M.Tech	09/11/2017	Constrction & Mangement	0	0	0	Assistant Professor		01/07/2017	Regular	Yes		No
Mrs. Jadhav Sayali Sachin	AGDPJ0932F	M.E/M.Tech	10/10/2013	Structural Engineering	0	0	0	Assistant Professor		01/07/2017	Regular	Yes		No
Dr. Amar R. Chougule	APBPC1481R	ME/M. Tech and PhD	30/12/2019	Civil Engineering	0	0	0	Associate Professor		15/07/2019	Regular	Yes		No

5.1 Student-Faculty Ratio (20)

Total Marks 20.00

Institute Marks : 20.00

UG

No. of UG Programs in the Department 1

Civil Engineering						
Year of Study	**CAY (2021-22)**		**CAYm1 (2020-21)**		**CAYm2 (2019-20)**	
	Sanction Intake	**Actual admitted through lateral entry students**	**Sanction Intake**	**Actual admitted through lateral entry students**	**Sanction Intake**	**Actual admitted through lateral entry students**
2nd Year	30	5	30	4	30	3
3rd Year	30	3	30	1	30	3
4th Year	30	0	30	0	60	0
Sub-Total	**90**	**8**	**90**	**5**	**120**	**6**
Total	**98**		**95**		**126**	

Grand Total	98	95	126

PG

No. of PG Programs in the Department 0

Grand Total			

SFR

No. of UG Programs in the Department 1

No. of PG Programs in the Department 0

Description	**CAY(2021-22)**	**CAYm1 (2020-21)**	**CAYm2 (2019-20)**
Total No. of Students in the Department(S)	98 **Sum total of all (UG+PG) students**	95 **Sum total of all (UG+PG) students**	126 **Sum total of all (UG+PG) students**
No. of Faculty in the Department(F)	7 **F1**	8 **F2**	7 **F3**
Student Faculty Ratio(SFR)	14.00 **SFR1=S1/F1**	11.88 **SFR2=S2/F2**	18.00 **SFR3=S3/F3**
Average SFR	14.63 **SFR=(SFR1+SFR2+SFR3)/3**		
F=Total Number of Faculty Members in the Department (excluding first year faculty)			

Note: All the faculty whether regular or contractual (except Part-Time), will be considered. The contractual faculty (doing away with the terminology of visiting/adjunct faculty, whatsoever) who have taught for 2 consecutive semesters in the corresponding academic year on full time basis shall be considered for the purpose of calculation in the Faculty Student Ratio. However, following will be ensured in case of contractual faculty:

1. Shall have the AICTE prescribed qualifications and experience.
2. Shall be appointed on full time basis and worked for consecutive two semesters during the particular academic year under consideration.
3. Should have gone through an appropriate process of selection and the records of the same shall be made available to the visiting team during NBA visit

5.1.1. Provide the information about the regular and contractual faculty as per the format mentioned below:

	Total number of regular faculty in the department	**Total number of contractual faculty in the department**
CAY(2021-22)	7	0
CAYm1(2020-21)	8	0
CAYm2(2019-20)	7	0

Average SFR for three assessment years : 14.63

Assessment SFR : 20

5.2 Faculty Cadre Proportion (25)

Total Marks 17.00

Institute Marks : 17.00

Year	**Professors**		**Associate Professors**		**Assistant Professors**	
	Required F1	**Available**	**Required F2**	**Available**	**Required F3**	**Available**
CAY(2021-22)	1.00	0.00	1.00	1.00	3.00	6.00
CAYm1(2020-21)	1.00	0.00	1.00	1.00	3.00	7.00
CAYm2(2019-20)	1.00	0.00	1.00	1.00	4.00	6.00
Average Numbers	1.00	0.00	1.00	1.00	3.33	6.33

Cadre Ratio Marks [(AF1 / RF1) + [(AF2 / RF2) * 0.6] + [(AF3 / RF3) * 0.4]] * 12.5 : 17.00

5.3 Faculty Qualification (25)

Total Marks 19.72

Institute Marks : 19.72

	X	Y	F	FQ = 2.5 x [(10X + 4Y) / F)]
2021-22(CAY)	1	6	4.00	21.25
2020-21(CAYm1)	1	7	4.00	23.75
2019-20(CAYm2)	1	6	6.00	14.17

Average Assessment : 19.72

5.4 Faculty Retention (25)

Total Marks 20.00

Institute Marks : 20.00

Description	2020-21	2021-22
No of Faculty Retained	6	6
Total No of Faculty	7	7
% of Faculty Retained	86	86

Average : 86.00

Assessment Marks : 20.00

5.5 Innovations by the Faculty in Teaching and Learning (20)

Total Marks 20.00

Institute Marks : 20.00

- Faculty of the department use innovative techniques like demonstration using Working models, Group discussion, role play, quiz, video lectures, manuals.
- Power point presentations are available for all subjects.
- Interaction with industrial experts is done by faculty.
- Simulation software has been used for students advance understanding like RCC, 2D-3D Building modelling, Flow studies etc.
- Industrial visits in every semester for students' practical knowledge enhancement.
- Using working models, cut sections of Foundation strata components like Engineering Geology and Strength of material lab, Concrete Technology lab, Transportation Engineering lab, Fluid Mechanics lab, Geotechnical Engineering lab, Environmental Engineering lab.
- Analyzing and solving the problems using application softwares.
- Workshops -1. A 60 hours Workshop on Stadd Pro v8i Software Analysis by Industrial Expert in A.Y. 2019-2020 and A.Y. 2021-2022.

  2. One day Workshop for civil engg. students on Building Lineout by Total Station on 11th June 2022.

- Staff using NPTEL videos for teaching purpose.
- Innovations by the faculty are online available for students.

I. **Different innovative techniques used by the Faculty in Teaching and Learning :**

A.Y. 2021-2022

Sr. No.	Faculty Name	Activity	Students
1.	Prof.Shaikh A.N.	Quiz, PPT on Touchless Technology Sensor Tap and Group discussion	SY Civil
2.	Prof.Shaikh A.N.	Powerpoint Presentation on Test on Aggregates for Road Construction and Group discussion	TY Civil
3.	Prof. Shah A S.	Quiz, Powerpoint Presentation on Design of Water Tank and Group discussion	B Tech Civil
4.	Prof.Lembhe S .S.	Powerpoint Presentation on Faecal Sludge Management and Group discussion	SY Civil
5.	Prof.Pawar V.P. (Assistant Prof.)	Powerpoint Presentation on Six sigma method for total quality management and Group discussion	TY Civil
6.	Prof.Pawar V.P. (Assistant Prof.)	Quiz, Practical Performed in Laboratory and Group discussion	SY Civil
7.	Prof.Borate P.G. (Assistant Prof.)	Presentation on Materials (Geological Rocks) and their uses in construction industry and Group discussion	SY Civil
8	Prof.Borate P.G. (Assistant Prof.)	Working models of Advanced Geological Rocks and their uses in construction industry and Group discussion	TY Civil
9	Prof.Lembhe S .S. (Assist.Prof.)	Demonstration of Hume Pipe Culvert and Group discussion	B Tech Civil
10	Prof.Shah A S. (Assistant Prof.)	Powerpoint Presentation on Thin and Thick Cylinder and Group discussion	B Tech Civil
11	Prof. Shah A S. (Assistant Prof.)	Powerpoint Presentation on Design of Chimney and Group discussion	TY Civil

12	Prof. Shah A S. (Assistant Prof.)	Quiz, Powerpoint Presentation on Retaining Wall and Group discussion	B Tech Civil
13	Prof.Pawar V.P. (Assistant Prof.)	Powerpoint Presentation on Land Reclamation and Group discussion	TY Civil
14	Prof.Pawar V.P. (Assistant Prof.)	Powerpoint Presentation on concept of RERA and Group discussion	TY Civil
15	Prof.Borate P.G. (Assistant Prof.)	Advanced Geological Rocks and their uses in construction industry and Group discussion	TY Civil
16	Prof.Borate P.G. (Assistant Prof.)	Quiz, Recent Micro Irrigation Methods and Group discussion	SY Civil
17	Prof.Lembhe S .S. (Assist.Prof.)	Drafting e-Tender notice and Group discussion	B Tech Civil
18	Prof.Borate P.G. (Assistant Prof.)	Quiz, Recent Micro Irrigation Methods and Group discussion	B Tech Civil
19	Prof. Shah A S. (Assistant Prof.)	Role Play, Kanis Method and Group discussion	SY Civil

A.Y. 2020-2021

Sr. No.	Faculty Name	Activity	Students
1.	Prof.Lembhe S .S.	Quiz, Presentation on Faecal Sludge Management and Group discussion	TY Civil
2.	Prof. Jadhav S. S. (Asst. Prof. Civil)	taxshila: Great Seat of Learning in Ancient India and Group discussion	TY Civil
3.	Prof. Borate P.G. (Asst. Prof)	PPT on Important Indian Rocks and Industry need and Group discussion	SY Civil
4.	Prof. Shah A S. (Assistant Prof.)	Quiz, Powerpoint Presentation Shell Structures and Group discussion	TY Civil
5.	Prof. Shah A S. (Assistant Prof.)	Working models Powerpoint Presentation on Combined Footing and Group discussion	SY Civil
6	Prof. Pawar V.P. (Assistant professor)	Quiz, Power Point Presentation on SOLAR ROADWAYS CONCEPT and Group discussion	B Tech Civil
7	Prof. Shah A S. (Assistant Prof.)	Quiz, of Three Moment Theorem and Group discussion	TY Civil
8	Prof.Shaikh A.N. (Asst.Professor)	Municipal GIS for assessment of property Tax. and Group discussion	TY Civil
9	Prof.Borate P.G. (Assistant Prof.)	Quiz, on Materials (Geological Rocks) and their uses in construction industry and Group discussion	TY Civil

10	Prof.Lembhe S S.(assit.Prof)	Quiz, on new techniques in painting for residential building and Group discussion	SY Civil
11	Prof. Borate P.G. (Asst. Prof)	PPT on Soil and its Advanced Engg. Properties and Group discussion	TY Civil
12	Prof. Borate P.G. (Asst. Prof)	PPT on Important Indian Rocks and Foundation and Group discussion	TY Civil
13	Prof.Borate P.G. (Assistant Prof.)	Working models on Materials (Geological Rocks) and their uses in construction industry and Group discussion	TY Civil
14	Prof. Shah A S. (Assistant Prof.)	Quiz, NPTEL Video on Matrix analysis to Space Frame and Group discussion	B Tech Civil
15	Prof. Pawar V.P. (Assistant professor)	Quiz, NPTEL video lecture on Spatially varied flow by Dr. Suresh Kartha IIT Guwahati and Group discussion	SY Civil
16	Prof. Pawar V.P. (Assistant professor)	PPT on dynamic planning and control methodology and Group discussion	TY Civil
17	Prof. Shah A S. (Assistant Prof.)	Analysis of unsymetric I Section Prestressed Beam and Group discussion	B Tech Civil
18	Prof. Shah A S. (Assistant Prof.)	Quiz, PPT on Stresses in Thick cylinder and Group discussion	TY Civil

A.Y.-2019-20

Sr. No.	Faculty Name	Activity	Students
1.	Prof.Lembhe S .S.	Quiz, Presentation on Landscape and Group discussion	SY Civil
2.	Prof.Borate P.G.	Working models on Materials (Geological Rocks) and their uses in construction industry and Group discussion	TY Civil
3.	Prof. Pawar V.P. (Asst.Professor)	Quiz, NPTEL video lecture on circular poiseuille flow by Prof. Sumesh Thampi IIT Madras and Group discussion	SY Civil
4	Prof. Borate P.G. (Asst. Prof)	PPT on Modern Construction Equipments used in Constructions and Group discussion	B Tech Civil
5	Prof. Jadhav S. S. (Asst. Prof. Civil)	Quiz, powerpoint Presentation on Earthquake Safety and Group discussion	SY Civil
6	Prof. Pawar V.P. (Asst.Professor)	NPTEL video lecture on Pavement evalution andRehabilitation by Prof. K. Sudhakar Reddy IIT Kharagpur and Group discussion	B Tech Civil

7	Prof. Shah A S. (Assistant Prof.)	Quiz, Powerpoint Presentation on Types of Footing and Group discussion	SY Civil
8	Prof. Shah A S. (Assistant Prof.)	Research paper on FRP Bridge Deck and Group discussion	TY Civil
9	Prof. Shah A S. (Assistant Prof.)	Quiz, Powerpoint Presentation on Pre Engineered Building and Group discussion	B Tech Civil
10	Prof. Jadhav S. S. (Asst. Prof. Civil)	Quiz, powerpoint Presentation on Influence Surfaces and Group discussion	SY Civil
11	Prof. Borate P.G. (Asst. Prof)	PPT on Modern Materials used in Constructions and Group discussion	TY Civil
12	Prof. Borate P.G. (Asst. Prof)	Quiz, PPT on Modern Foundation Technologies used in Constructions and Group discussion	TY Civil
13	Prof. Borate P.G. (Asst. Prof)	PPT on Modified Soil Engg. Properties and Group discussion	TY Civil

List of industrial visits arranged by department during year 2021-22

Sr. No	Class	Subject To Be Covered During Industrial Visit	Visited Company	Date Of Visit
1.	SY Civil	Water Treatment	Water Treatment Plant, Malkapur	01/07/2022
2.	SY Civil	Sevarage Treatment	Sevarage Treatment Plant, Malkapur	01/07/2022
3.	SY Civil	Fecal Treatment	Fecal Treatment Plant, Malkapur	01/07/2022
4.	SY Civil	Dry & Wet Garbage Process	Dry & Wet Garbage Process Plant, Malkapur	01/07/2022

List of industrial visits arranged by department during year 2019-20

Sr. No	Class	Subject To Be Covered During Industrial Visit	Visited Company	Date Of Visit
1	TY Civil	Water Treatment	Water Treatment Plant, Malkapur	16/10/2019
2	TY Civil	Sevarage Treatment	Sevarage Treatment Plant, Malkapur	16/10/2019
3	TY Civil	Fecal Treatment	Fecal Treatment Plant, Malkapur	16/10/2019
4	TY Civil	Dry & Wet Garbage Process	Dry & Wet Garbage Process Plant, Malkapur	16/10/2019

Sample Photo of Industrial Visit:

Visit to Malkapur Sewarage Treatment Plant (1/7/2022)

5.6 Faculty as participants in Faculty development/training activities/STTPs (15)

Total Marks 15.00

Institute Marks : 15.00

Name of the faculty	Max 5 Per Faculty		
	2020-21 (CAYm1)	2019-20 (CAYm2)	2018-19 (CAYm3)
Mr. Borate Prashant Gajanan	5.00	3.00	0.00
Mr. Shah Ajinkya Subhash	5.00	3.00	0.00
Mr. Lembhe Sunil Shivajirao	5.00	3.00	0.00
Mr. Shaikh Alfaj Najir	5.00	5.00	0.00
Mrs. Pawar Vijaya Pralhad	3.00	0.00	0.00
Mrs. Jadhav Sayali Sachin	3.00	0.00	0.00
Mr. Pharande Shailesh Baliram	5.00	5.00	0.00
Ms. Sadawarte Sayali Shishir	0.00	0.00	0.00
Mr. Lohana Yash Kanhaiya	0.00	0.00	0.00
Sum	31.00	19.00	0.00
RF = Number of Faculty required to comply with 20:1 Student Faculty Ratioas per 5.1	4.90	4.75	6.30
Assessment [3*(Sum / 0.5RF)]	37.96	24.00	0.00

Average assessment over 3 years: 20.65

5.7 Research and Development (30)

Total Marks 15.00

5.7.1 Academic Research (10)

Institute Marks : 5.00

List of publications in national and international journals (Last three years)

CAYm1: AY: 2021-22								
Sr. No	Title of paper	Name of the author/s	Name of Journal	Voume (Issue), pp	Year of publication	ISSN number	Link to the recognition in UGC enlistment of the Journal /Digital Object Identifier (dc	
							Link to website of the Journal	Link to article/paper/abstract of the article
1	SUITABILITY OF KINETIC ENERGY FROM FOOTSTEPS FOR VADJAIDEVI TEMPLE AT PATKHAL, TALUKA, DISTRICT SATARA	Prof. Shah. Ajinkya S, Mr. Arjun Avinash S, Mr. Khade Sagar S, Mr. Hakim Mohammadsabir N, Ms. Desai Sayali S, Ms. Mane Neha S	International Research Journal of Modernization in Engineering Technology and Science	04 (05) 5889-5893	2022	2582-5208	www.irjmets.com (http://www.irjmets.com/)	https://www.irjmets.com/uploadedfiles/paper//issue_5_may_2022/25161/final/fin_irjmets165441 (https://www.irjmets.com/uploadedfiles/paper/issue_5_may_2022/25161/final/fin_irjmets165441
2	PERFORMANCE EVALUATION OF SLUDGE BRICKWITH CONVENTIONAL BRICK	Mr. Sohel M. Shaikh, Mr. Huzefa F. Tamboli, Mr. Akshay U. Sawant, Mr. Rohit S. Kamble, Mr. Rohit S. More, Mr. Saddam S. Kotwal, Mr. P.G. Borate	International Research Journal of Modernization in Engineering Technology and Science	04 (06) 1743-1747	2022	2582-5208	www.irjmets.com (http://www.irjmets.com/)	https://www.irjmets.com/uploadedfiles/paper/issue_6_june_2022/25995/final/fin_irjmets165521 (https://www.irjmets.com/uploadedfiles/paper/issue_6_june_2022/25995/final/fin_irjmets165521
3	Analysis of G+4 building structure for Seismic Retrofitting using Cross Bracing	Mr. Ajay P. Shinde, Mr. Shubham S. Khomane, Mr. Shubham M. Khade,Mr. Aniket A. Shelar, Mr. Heramb S. Chavan, Mr. Shubham H. Pisal, Mr. A. S. Shah	International Journal of Research in Engineering and Science	10 (07) 430-435	2022	2320-9356	www.ijres.org (http://www.ijres.org/)	http://www.ijres.org/papers/Volume-10/Issue-7/1007430435.pdf (http://www.ijres.org/papers/V 10/Issue-7/1007430435.pdf)
4	Comparative Study of Behavior of Framed Structure Under Seismic Zone III & IV Using STAAD Pro	Mr. Girish S. Gaikwad , Mr. Sarang P. Patankar , Mr. Arjun M. Shinde , Mr. Rohan N. Saste , Mr. Siddhant A. Nikam , Mr. A. N. Shaikh	International Journal of Research in Engineering and Science (IJRES)	10 (6) 1195-1200	2022	ISSN-(P) 2320-9356	www.ijres.org (http://www.ijres.org/)	www.ijres.org/papers/Volume-10/Issue-6/100611951200.pdf (http://www.ijres.org/papers/Vol 10/Issue-6/100611951200.pdf)
5	Characterization & removal of Water Hyacinth from Krishna River At Wai Tal-Wai Dist.Satara by effective & economic equipment	Prof.Lembhe Sunil S,Ms.Kenjale Rutuja Vikas,Ms.Nikam Sweta Anil,Ms.Khatmode PallaviPandurangMr.Pawar Vinayak Anil Mr.Chavan Arun Dashrath Mr. Gole Pranav Ganpat	International Research Journal of Modernization in Engineering Technology and Science	04 (05) 5073-5078	2022	2582-5208	www.irjmets.com (http://www.irjmets.com/)	https://www.irjmets.com/uploadedfiles/paper//issue_5_may_2022/24845/final/fin_irjmets165398 (https://www.irjmets.com/uploadedfiles/paper/issue_5_may_2022/24845/final/fin_irjmets165398

CAYm1: AY: 2020-21

Sr. No	Title of paper	Name of the author/s	Name of Journal	Voume (Issue), pp	Year of publication	ISSN number	Link to website of the Journal	Link to the recognition in UGC enlistment of the Journal /Digital Object Identifier (Link to article/paper/abstract of the article
1	SUITABILITY OF RECYCLED PLASTIC WASTE IN PRODUCTION OF PAVER BLOCKS	Prof. Shah. Ajinkya.S, Mr. Anpat Vineet Vijay, Mr. Bhosale Suraj Balu, Mr. Botalji Suhas Suresh, Mr. Surve. Ajinkya. Sanjay, Mr. Bagwan. Saad. Salim, Mr. Bhosale. Pranay Dattatray	International Research Journal of Modernization in Engineering Technology and Science	03 (07) 1863-1867	2021	2582-5208	www.irjmets.com (http://www.irjmets.com/)	https://www.irjmets.com/uploadedfiles/paper/volume3/issue_7_july_2021/15172/162808358 (https://www.irjmets.com/uploadedfiles/paper/volume3/issue_7_july_2021/15172/162808358
2	To Study Effect of Gray Water on The Properties of Concrete	AKSHAY SANJAY INGALE, DHULDEV GULAB NARALE, AMOL SOPAN KOLHEKAR, PRANITA CHANDRAKANAT KAMBLE, PROF. SHAH AJINKYA.S	INTERNATIONAL JOURNAL OF INNOVATIVE RESEARCH IN TECHNOLOGY	08 (03) 226-229	2021	2349-6002	https://ijirt.org (https://ijirt.org/)	https://ijirt.org/master/publishedpaper/IJIRT152329_PAPER.pdf (https://ijirt.org/master/publishedpaper/IJIRT152329_PAPER.pdf)
3	Implementation of New Water Distribution Network In Village Saigaon (Rahimatpur)	Kunal Holkar , Dipika Mane , Vivek Yadav , Nivas Madane , Mrudulla Shellar , Shardulla Saudagar , Mr. Alfaj N. Shaikh	International Journal of Research in Engineering and Science (IJRES)	9 (8) 53-58	2021	ISSN-(P) 2320-9356	www.ijres.org (http://www.ijres.org/)	www.ijres.org/papers/Volume-9/Issue-8/Series-1/J09085358.pdf (http://www.ijres.org/papers/Volume-9/Issue-8/Series-1/J09085358.pdf)
4	Analysis and Design of Sand Filter by using Capped Coconut Shell and Coal	Amey Ramesh Shinde , Deepa Yashwant Gosavi , Shivani Padmakar Jadhav , Sudarshan Sanjay Chougule , Dnyaneshwari Prashant Kamane , Alfaj N. Shaikh	International Journal of Research in Engineering, Science and Management	4 (7) 364-366	2021	ISSN-online 2581-5792	www.ijresm.com (http://www.ijresm.com/)	www.journals.resaim.com/ijresm/article/view/1114 (http://www.journals.resaim.com/ijresm/article/view/1114)

CAYm1: AY: 2019-20

Sr. No	Title of paper	Name of the author/s	Name of Journal	Voume (Issue), pp	Year of publication	ISSN number	Link to website of the Journal	Link to the recognition in UGC enlistment of the Journal /Digital Ob Link to article/paper/abstract of the article	Is it lis

1	Utilization of Press mud for Improvement of Strength of Interlocking Bricks	Mr. Shaikh. A. N. , Miss.Deshmukh P.S. , Mr. Shelar V.E.	International Journal of Scientific Research in Engineering and Management	03 (11)	1-4	2019	2582-3930	https://ijsrem.com/ (https://ijsrem.com/)	http://ijsrem.com/volume-3-issue-11/ (http://ijsrem.com/volume-3-issue-11/)

Summary of Last Three Years Paper Publications:

Sr. No.	Name of staff	Total Publications (Last Three Years)
1.	Mr. Borate PG	01
2.	Mr. Shah A.S.	04
3.	Mr. Lembhe S.S.	01
4.	Mr. Shaikh A N	04

List of Ph.D. registered faculty

Sr. no.	Faculty name	Year of Registration
1	Mrs. Jadhav S.S.	2016

The Details of patent filed (applied) are as below:

1. Application NO.	Apllied
Applicant name	Mr. SHAIKH SOHEL M, Mr. SAWANT AKSHAY U Mr. TAMBOLI HUZEFA F, Mr. KOTWAL SADDAMHUSEN S Mr. MORE ROHIT S, Mr. KAMBALE ROHIT S, Mr. Borate P.G.
Title of invention	Performance evaluation of Convectional brick with sludge brick
2. Application NO.	Apllied
Applicant name	Mr. ARJUN AVINASH S, Mr.HAKIM MOHAMMADSABIR N, Mr. KHADE SAGAR S, Ms. DESAI SAYALI S Ms. MANE NEHA S, Mr. SHAH A.S.
Title of invention	Suitability of Kinetic Energy from footstep for VadjaiDevi Temple at Patkhal Tal. Dist Satara
3. Application NO.	Apllied

Applicant name	Ms. KENJALE RUTUJA V, Ms. NIKAM SHWETA A Ms. KHATMODE PALLAVI P, Mr PAWAR VINAYAK A, Mr CHAVAN ARUN D, Mr GOLE PRANAV G Mr. LEMBHE S.S.
Title of invention	Characterization and removal of water Hyacinth at 0.5 km downstream of Dhom dam Tal - wai, Dist - Satara by effective and economic equipment
4. Application NO.	Apllied
Applicant name	Ms PAWAR VAISHALI V, Mr. PATIL OMKAR S, Ms MANE NAMRATA R, Mr SAVANT NISHANT D, Mr. Shaikh A.N.
Title of invention	Repair and Improving strength of flexible pavement Potholes by using Lignin

5.7.2 Sponsored Research (5)

Institute Marks : 0.00

2020-21 (CAYm1)

Project Title	Duration	Funding Agency	Amount
0	0	0	0.00
			Total Amount(X): 0.00

2019-20 (CAYm2)

Project Title	Duration	Funding Agency	Amount
0	0	0	0.00
			Total Amount(Y): 0.00

2018-19 (CAYm3)

Project Title	Duration	Funding Agency	Amount
0	0	0	0.00
			Total Amount(Z): 0.00

Cumulative Amount(X + Y + Z) = 0.00

5.7.3 Development Activities (10)

Institute Marks : 10.00

1. **Product Development-**

Sr. No.	Faculty Name	Topic name
1.	Mr. Borate PG	Performance evaluation of Convectional brick with sludge brick
2.	Mr. Shah A.S.	Suitability of Kinetic Energy from footstep for VadjaiDevi Temple at Patkhal Tal. Dist Satara
3.	Mr. Lembhe S.S.	Characterization and removal of water Hyacinth at 0.5 km downstream of Dhom dam Tal - wai, Dist - Satara by effective and economic equipment
4.	Mr. Shaikh A.N.	Repair and Improving strength of flexible pavement Potholes by using Lignin
5.	Mr. Shaikh A.N.	Comparative study of Behavior of framed structure under seismic zone III and IV
6.	Mr. Shaikh A.N.	Analysis and Design of Sand Filter by using Capped Coconut Shell and Coal

Product Development Laboratory

2. **Research laboratories-**

DESIGN and PRODUCTION lab having advanced modeling, analysis and simulation softwares.

Sr. No.	Name of softwares with version
1	Stadd Pro. V8i
2	Autodesk Revit
3	Sketch up

4	M S Project
5	AutoCAD 2018
6	ArcGIS
7	Epanet

3. **Instructional materials**

Lab manuals of all subjects, LCD, White boards, Smart boards are available.

4. **Working models/charts/monograms etc.**

In the laboratories charts, mini projects and working models are available.

5.7.4 Consultancy(from Industry) (5)

Institute Marks : 0.00

2020-21 (CAYm1)

Project Title	Duration	Funding Agency	Amount
0	0	0	0.00
			Total Amount(X): 0.00

2019-20 (CAYm2)

Project Title	Duration	Funding Agency	Amount
0	0	0	0.00
			Total Amount(Y): 0.00

2018-19 (CAYm3)

Project Title	Duration	Funding Agency	Amount
0	0	0	0.00
			Total Amount(Z): 0.00

Cumulative Amount(X + Y + Z) = 0.00

5.8 Faculty Performance Appraisal and Development System (FPADS) (30)

Total Marks 30.00

Institute Marks : 30.00

The assessment is based on:

i. **A well-defined system for faculty appraisal for all the assessment years (10)**

a. A well-defined faculty appraisal system is established in the institute.

b. After completion of academic year, faculty has to prepare and submit the appraisal form to the department head.

c. As per the duties allotted to the particular faculty at departmental as well as college level, the performance of the faculty at both level is checked and as per the performance, head of the department gives his opinion in terms of marks.

d. Depending upon the remark of the head of the department, college management considers his performance for increment or additional increment.

ii. **Its implementation and effectiveness**

The faculty annual performance is carried out on the basis of following format

Faculty Annual Performance Appraisal Format

Part A

Sr. No	Faculty Details (to be filled by faculty)
1	Academic performance
2	Journal publications
3	Conference publications
4	Workshop/Conferences/STTP attended
5	Additional responsibilities at Department / Institute/ University level
6	Effort taken for students – Achievements
7	Appreciation letters received/ honor received etc.
8	Membership of professional bodies
9	Laboratory developed/ Innovative practices adopted in teaching learning process
10	Number of leaves without pay
11	any other details not mentioned above

Part B (To be filled by Head of the Department)

Sr. No.	Base of Evaluation	Remarks(Excellent/ Very good/ Good/ Satisfactory/ Unsatisfactory
1.	Performance	
2.	Leadership abilities	
3.	Contribution to system	
4.	Ability to take initiative	
5.	Overall	
	Recommended / not recommended for increment with reasons for non-recommendation by HoD	

Part C (Sanctioned by Director and Executive Director)

- Recommended for increment
- Recommended for additional increment
- Not recommended

Sr. no.	Academic year	Name of faculty to whom appreciation has been given
1	2021-22	Mr. Borate P.G.
2		Mr. Shaikh A.N.
3		Dr. Chaugule A. R.
4	2020-21	Mr. Shah A.S.
5		Mrs. Pawar V.P.
7	2019-20	Mr. Lembhe S.S.
8		Mrs. Jadhav S.J.
9		Mr. Borate P.G.

5.9 Visiting/Adjunct/Emeritus Faculty etc. (10)

Total Marks 7.00

Institute Marks : 7.00

List of Visiting/Adjunct/Emeritus Faculty to Dept.

CAY: 2021-22				
Sr. No.	**Name of program**	**Name of faculty**	**No. of Hours**	**Conducted date**
1	Stadd Pro v8i Software Analysis	Mr. Vaibhav S. Nikam (Vedanta Consultants)	60 hours	01/09/2021-14/09/2021
2	Implementation of Acedemic Knowledge in Industry	Er.Shridhar Kashinath Inamdar	2 hours	15/09/2021

CAYm2: 2019-20				
Sr. No.	**Name of program**	**Name of faculty**	**No. of Hours**	**Conducted date**
1	Estimating & Costing	Mr.Milind Vasudev	2 hours	22/08/2019
2	Preparation of Civil competitive exam & after joining work culture in Govt. Organization	Mr. Ganesh Suresh Kanase	2 hours	23/09/2019
3	GATE Awareness	Mr.U.M.Nimbalkar	2 hours	24/09/2019
4.	Stadd Pro v8i Software Analysis	Mr. Vaibhav S. Nikam (Vedanta Consultants)	60 hours	20/11/2019-02/12/2019

6 FACILITIES AND TECHNICAL SUPPORT (80)

Total Marks 80.00

6.1 Adequate and well equipped laboratories, and technical manpower (30)

Total Marks 30.00

Institute Marks : 30.00

Sr. No	Name of the Laboratory	Number of students per set up(Batch Size)	Name of the Important Equipment	Weekly utilization status(all the courses for which the lab is utilized)	Technical Manpower Support		
					Name of the Technical staff	Designation	Qualification
1	Engineering Mechanics	20	1.Polygon App 2.Jib crane 3.Beam reaction	First Year Sharing (4hrs)	Mrs. Jadhav S S	Assistant Professor	M E Structure
2	Geo Technical Engg.lab.	20	1.Sieve Shaker machine 2.Liquid Limit Device 3.Density Equipements	V sem (2hrs)	Mr. Borate P G	Assistant Professor	M Tech (CWM)
3	Structural Mechanics Lab.	20	1.Universal Testing Machine 2.Hardness Test. 3.Torsion Test	SY Btech Sem. III Sharing (6hrs)	Mr. Shah AS	Assistant Professor	M E Structure
4	Environmental Engg. Lab.	20	1.BOD incubator 2.PH meter 3.Turbidity meter 4.Jar test 5.Conductivity meter	TY Btech Sem. IV 2hrs	Mr.Lembhe S S	Assistant Professor	M Tech. Environmental
5	Surveying Laboratory	20	1.Total Station 2.Theodolite 3.Prismatic compass 4.Digital Plannimeter 5.Dumpy Level, Auto level.	SY Btech Sem. III Sharing(6hrs)	Mr. Shaikh A.N.	Assistant Professor	M E Structure
6	Fluid mechanics	20	1.Bournoli's Apparatus 2.Venturi-meter flume 3.Minor losses apparatus 4.V-notch apparatus	SY Btech Sem. IV Sharing (4hrs)	Mrs. Pawar VP	Assistant Professor	M E Structure
7	Transportation Engg. Lab.	20	1.Aggregate Impact Equipment 2.Abrasion Test apparatus 3.Ductility Test apparatus 4.Flash & Fire point apparatus 5.Penetration test apparatus	TY Btech Sem. VI 2hrs	Mrs. Pawar VP	Assistant Professor	M E Structure
8	Concrete tech laboratory	20	1.Concrete Testing Machine 2.Concrete mixer 3.IS sieves 4.Compaction Factor app. 5.Slump cone 6.Vicat,s App 7.Rebound Hammer 8.Los Angles Apparatus	TY Btech Sem. VI 2hrs	Mr. Shaikh A. N	Assistant Professor	M E Structure
9	Engg.Geology Laboratory	20	1.Rock samples 2.Models	TY&SY BTech Sem.IV & VI(2hrs)	Mr. Borate P G	Assistant Professor	M Tech (CWM)
10	Auto CAD laboratory	20	PC (20Nos.) having software 1.Stadd Pro. V8i 2.Autodesk Revit 3.Sketch up 4.M S Project 5.AutoCAD 2018 6.ArcGIS 7.Epanet	SY B Tech Sem. IV (sharing) 2hrs	Mr.Shah AS	Assistant Professor	M E Structure
11	Project laboratory	20	Project development models	Final Year 2hrs	Mr.Shah AS	Assistant Professor	M E Structure

6.2 Additional facilities created for improving the quality of learning experience in laboratories (25)

Total Marks 25.00

Sr. No	Facility Name	Details	Reason(s) for creating facility	Utilization	Areas in which students are expected to have enhanced learning	Relevance to POs/PSOs
1	Magic Pit in Environmental Engineering Laboratory	Removal of fixed solid and turbidity from waste water	To understand the Physical and Biological parameters	During theory and practical hours.	Economical Waste Water treatment	PO1,2,3,9,12 PSO1,2
2	Soil Stratification Model in Geotechnical Engineering Laboratory	Study of Soil Strata and their properties	To understand the soil stratification	During theory and practical hours.	Soil Gradation and Classification	PO1,2,3,9,12 PSO1,2
3	Smart class room (RED Seminar Hall)	Showing video of concerned lab during practical	To understand the subject easily	During theory and practical hours	Concept Clearing	PO1,3,5,12 PSO1,2
4	Animations at Activity wall and Smart Board	View relevant Building Elemental animations	For better understanding of equipments and concepts	Demo during practical hours	Easy visualization and Concept Clearing	PO1 PO3,12 PSO1,2
5	Lab manuals	Every lab is provided with the lab manual	Systematic conduction and understanding of experiment.	During lab hours.	Conduction of experiments using lab manual	PO1,2,3,12 PSO1,2
6	Geological Models in Engineering Geology Laboratory	Engineering Geological Structures Identification with the help of Wooden Models	For Geological Structure Identification	During theory and practical hours.	Geological Structures and Foundation Construction	PO1,PO2,PO6, PO7 PSO1,2
7	Geological Rocks	Engineering Geological Rocks Types Identification with the help of Rock Models	For Geological Rock Classification	During theory and practical hours.	Geological Rocks and Foundation Construction	PO1,PO2,PO6, PO7 PSO1,2
8	Video Lectures in Smart Room (RED seminar Hall)	Showing video of concerned lab during practical.	To easily understand the subject (Concepts)	During theory and practical hours.	Learning	PO1, PO3 PSO 1,2
9	Charts	Showing mechanisms of concepts during practical	To easily understand the subject.	During Lecture/ practical hours.	Learning	PO1, PO3 PSO 1,2
10	Software and Computing	PC (20Nos.) having software 1.Stadd Pro. V8i 2.Autodesk Revit 3.Sketch up 4.M S Project 5.AutoCAD 2018 6.ArcGIS 7.Epanet	To realize, simulate and analysis of concepts and Building Planning	During Lecture/ practical hours.	Learning	PO1, PO3,5,12 PSO1,2
11	Siesmic Model in Project Laboratory	To study Earthquake Behavior	To study Earthquake Behavior of framed structures	During Lecture/ practical hours.	Earthquake Design	PO1, PO3,5,12 PSO1,2
12	Pervious Concrete in Concrete Technology Laboratory	To study Properties of Special Concretes	To study Properties of Special Concrete	During Lecture/ practical hours.	Properties of Special Concrete	PO1, PO3,5,12 PSO1,2
13	Cross section Model of Flexible Pavement	To study Cross section Model of Flexible Pavement	To study Cross section Model of Flexible Pavement	During Lecture/ practical hours.	Cross section Model of Flexible Pavement	PO1, PO3,5,12 PSO1,2
14	Tiny House Cross Section Model in Project Laboratory	To Study House Cross Section Model	To Study House Cross Section Model	During Lecture/ practical hours.	To Study House Cross Section Model	PO1, PO3,5,12 PSO1,2

6.3 Laboratories: Maintenance and overall ambiance (10) Total Marks 10.00

Institute Marks : 10.00

Maintenance of Laboratory Equipments:-

The preventive Maintenance of lab and equipment cleaning is done by lab attendant and lab assistant regularly.

- Preventive Maintenance of each lab is done at starting of semester.
- Breakdown Maintenance is conducted by outside agency as per the intimation of lab assistant and lab in charge.
- The following Schedule is followed by concerned lab for maintenance activity:

Day	Activity(For respective lab)	Timing
Monday & Saturday	Cleaning and oiling of equipments. Screw tightening etc	9 am to 10 am. 4.00 pm to 6.00 pm
Tuesday	Checking safety measures of equipment like electrical connections, safety guards, loosening of parts etc.	10 am to 12 pm.
Saturday	Running the equipments and find out the faults if any. Screw tightening etc	10.00 am to 6 pm.

- Regular checkup of equipment is carried out at the end of every semester.
- Breakdown register is maintained in the laboratories.
- As per the requirement, minor repairs are carried out by the lab assistant under the guidance of lab in-charge.
- Maintenance of computers is taken care & done by System Administrator Department (Central Computer Department).
- Major repairs are outsourced by following the procedure of the institute.
- Calibration of lab instruments carried out periodically by outside agency.

Overall Ambience:-

- All laboratories are equipped with modern equipments to meet the requirement of curriculum.
- Laboratory manuals are prepared and are available in soft and hard copy in the laboratory.
- All laboratories are well furnished.
- Laboratories are kept open beyond office hours as per the need of students.
- All laboratories have sufficient natural light, good ventilation with tube lights and fan arrangements.
- Overall ambience of laboratory is good.

6.4 Project laboratories (5)

Total Marks 5.00

Institute Marks : 5.00

In the department a separate project laboratory is available with different facilities like PCs with internet connection for doing project work. The other labs used for project work are as per requirement of students for their evaluation of parameters as per the domain. The Workshop facilities are used by undergraduate students for projects. For testing work, different software are used by students available in the CAD lab. The utilization of equipment and software for project work is mentioned below.

Utilization of the laboratories for project work (Sample project list):

2021-22

SrNo	Name of the laboratory	Facility available	Name of project
1	Software	AUTO CAD	To realize, simulate and analysis of concepts and Building Planning and Modelling
2	Structural Mechanics Lab	Loading, Unloading over the Materials to be tested	Comparative study of Behavior of framed structure under seismic zone III and IV
3	.Electrical Dept. Lab.(Sharing)	Electrical Circuits,	Suitability of Kinetic Energy from footstep for Vadjai Devi Temple at Patkhal Tal. Dist Satara
4	Environmental Engg. Lab.	Water Parameter Testing Equipments	Characterization and removal of water Hyacinth at 0.5 km downstream of Dhom dam Tal - wai, Dist - Satara by effective and economic equipment
5	Geo Technical Engg. lab. and Transportation Engg. Lab.	Soil Testing, Material Testing	Repair and Improving strength of flexible pavement Potholes by using Lignin
6	Structural Mechanics Lab	Vibration Study, Inpact Testing Machine	Analysis of G +4 building structure for Seismic Retrofitting using : Base Isolation and Cross Bracing
7	Concrete Technolgy	Brick Testing CTM	Performance evaluation of Convectional brick with sludge brick

2020-21

SrNo	Name of the laboratory	Facility available	Name of project
1	AUTO CAD Software	AUTO CAD	Economic physibility and Implementation on watershed management in a arid region of Satara dist a case study
2	Environmental Engg. Lab.	Water Parameter Testing Equipments	An assessment and applicability of solid waste management (plastic material), A case study for Gondavale Bdk dist Satara
3	AUTO CAD Software	AUTO CAD	Physiability and applicability of Satara as a smart city by RII analysis
4	Geo Technical Engg.lab. and Transportation Engg. Lab.	Soil Testing, Material Testing	Study and analysis of change in properties of bituminous road construction by using waste tyre rubber
5	Concrete Technolgy	Brick Testing CTM	Suitability of pervious concrete using PPC cement and polyvinyl alcohol
6	Structural Mechanics Lab	Vibration Study, Inpact Testing Machine	Design of Ariel passanger ropeway for Sajjangad fort Satara
7	Concrete Technolgy	Block Testing CTM	Assessment of recycled plastic waste for manufacturing of paver block.

2019-20

SrNo	Name of the laboratory	Facility available	Name of project
1	Environmental Engg. Lab. And Pharmacy Lab	Water Parameter Testing Equipments	Assessment and suitability of B.cohnii, B.Subtilus, B.Psedofirums for self healing concrete by OPC on RCC element
2	Environmental Engg. Lab.	Water Parameter Testing Equipments	Influence parameter of Solid waste Management
3	Transportation Engg. Lab.	Material Testing	Design and Underground parking for Shri Chhatrapati Shivaji Maharaj Museum in Satara City
4	Environmental Engg. Lab.	Water Parameter Testing Equipments	Study on mix proportioning and strength of Perious concrete by using PPC
5	Geo Technical Engg.lab. and Transportation Engg. Lab.	Soil Testing, Material Testing	Comparative study on precast and conventional building
6	Structural Mechanics Lab	Vibration Study, Inpact Testing Machine	Comparative study on analysis of diadrid structures with conventional framed structures
7	Concrete Technolgy	Brick Testing CTM	Experimental study on replacing aggregate by concrete waste

6.5 Safety measures in laboratories (10)

Total Marks 10.00

Institute Marks : 10.00

Sr. No	Laboratory Name	Safety Measures
1	Structural Mechanics Laboratory	• Display of important instructions. • Provision of eye goggles. • Electrical safety provision. • Provision of first aid box. • Provision of fire extinguisher.
2	Surveying Laboratory	• Display of important instructions. • Provision of shield, hand gloves • Provision of first aid box. • Provision of fire extinguisher. • Electrical safety provision. • Wear safety shoes. • Wear aprons.
3	Engineering Mechanics Laboratory	• Display of important instructions. • Provision of shield, hand gloves • Provision of first aid box. • Provision of fire extinguisher. • Electrical safety provision. • Wear safety shoes.
4	Transportation Engineering Laboratory	• Display of important instructions. • Provision of shield, hand gloves • Provision of first aid box. • Provision of fire extinguisher. • Electrical safety provision. • Wear safety shoes.
5	Hydraulics Laboratory	• Display of important instructions. • Provision of shield, hand gloves • Provision of first aid box. • Provision of fire extinguisher. • Electrical safety provision. • Wear safety shoes.
6	CAD Laboratory	• Display of important instructions. • Provision of shield, hand gloves • Provision of first aid box. • Provision of fire extinguisher. • Electrical safety provision. • Wear safety shoes.
7	Concrete Technology Laboratory	• Display of important instructions. • Provision of shield, hand gloves • Provision of first aid box. • Provision of fire extinguisher. • Electrical safety provision. • Wear safety shoes.
8	Geo technical Engineering Laboratory	• Display of important instructions. • Provision of shield, hand gloves • Provision of first aid box. • Provision of fire extinguisher. • Electrical safety provision. • Wear safety shoes.
9	Environmental Engineering Laboratory	• Provision of hand gloves • Wear aprons. • Provision of fire extinguisher. • Electrical safety provision. • Ample quantity of water with taps • Raised platforms with sink available
10	Project laboratory	• Provision of hand gloves • Wear aprons whenever required. • Provision of fire extinguisher. • Electrical safety provision. • Provision of first aid box.

7 CONTINUOUS IMPROVEMENT (50)

Total Marks 50.00

7.1 Actions taken based on the results of evaluation of each of the POs & PSOs (20)

Total Marks 20.00

Institute Marks : 20.00

POs Attainment Levels and Actions for Improvement- (2020-21)

POs	Target Level	Attainment Level	Observations
PO 1 : Engineering Knowledge			
PO 1	2.46	2.11	Attainment is 85.8 % of target value. Courses having scope of improvement: Engineering Mathematics, Engineering Chemistry, Engineering graphics, Basic Civil and Mechanical engineering, Building construction
Action 1: Effective approaches to be formulated to improve the fundamentals of students Action 2: Reframing of CO mapping level with PO1 for subjects like Human rights, Town and urban planning			
PO 2 : Problem Analysis			
PO 2	1.96	1.78	Attainment is 90.8 % of target value. Students lack competency in problem analysis. Courses having scope of improvement: Engineering mathematics, field training, Hydraulics laboratory, Surveying laboratory, Advanced Engineering Geology, Project - I
Action 1: Students will be motivated to visit various construction projects to analyze the problems encountered. Action 2: Additional practice of unsolved problems from book and university question papers of previous exams.			
PO 3 : Design/development of Solutions			
PO 3	1.82	1.69	Attainment is 92.6 % of target value. Courses having scope of improvement: Engineering mathematics, Engineering chemistry, Engineering Mechanics lab, field training, Product design engineering, Field training, Internship
Action 1: Project I and II should focus for development of solutions to real world problems Action 2: Mapping of PO3 for courses Concrete Technology laboratory, Product design engineering should be revised			
PO 4 : Conduct Investigations of Complex Problems			
PO 4	1.86	1.71	Attainment is 92 % of target value. Courses having scope of improvement: Engineering mathematics, surveying laboratory, structural mechanics-I, Town and urban planning, Industrial training
Action 1: Laboratory, seminar and project hours, students must be motivated to investigate and analyze the experiments. Action 2: More tutorial hours should be planned to make the students investigate complex problems			
PO 5 : Modern Tool Usage			
PO 5	1.62	1.65	Students are trained to use and apply the modern engineering tools through value added course. Courses having scope of improvement: Engineering Mechanics lab, Engineering Graphics lab, Seminar on Superstructure, Design of concrete structures, building planning and drawing laboratory
Action 1: Add on courses like STAAD Pro / Primavera can be provided to enhance the usage of modern tools in civil engineering projects Action 2: Industrial visits can be arranged to expand their practical knowledge with respect to modern tool usage in various industries			
PO 6 : The Engineer and Society			
PO 6	1.82	1.77	Attainment is 97.3 % of target value. Students found difficulty in giving engineering solutions for societal requirements. Courses having scope of improvement: Soil mechanics laboratory, engineering geology, soil mechanics laboratory construction techniques, Project, Town and urban planning
Action 1: Students can be encouraged to deliver seminar and submit a report on societal, health and safety issues Action 2: Final year project should be focused on providing solutions to the societal problems.			
PO 7 : Environment and Sustainability			
PO 7	1.68	1.62	96.4 % Students gathered their knowledge on the need for sustainability. Courses having scope of improvement: Workshop practice, Building construction, water resource engineering, construction techniques, Field training, Project
Action 1: Students can be motivated to participate in social activities through community related projects. Action 2: Students can be encouraged take up mini/major projects addressing major environmental issues of infrastructure projects and come up with innovative solutions for sustainable development.			

PO 8 : Ethics			
PO 8	1.45	1.51	Students are good at application of ethical principles in engineering practices. Courses having scope of improvement: Project management, Seminar on field visit to road construction, Design and drawing of RC & steel structures, workshop practices
Action 1: Mentor hour provides a platform to every student to discuss the ethical behavior. Action 2: Talks on professional ethics from practicing engineers and academicians can be organized.			
PO 9 : Individual and Team Work			
PO 9	1.88	1.76	Attainment is 93.7 % of target value. Students have exhibited their individuality as a team in multidisciplinary settings. Courses having scope of improvement: Engineering physics lab, Building construction, Engineering Management, Transportation engineering laboratory.
Action 1: The students can be encouraged to organize and lead various technical and cultural events of the institute to groom themselves to work with a team. Action 2: Students should be guided to work as team to bring out multidisciplinary projects.			
PO 10 : Communication			
PO 10	1.8	1.8	Some students need to improve their communication skills. Courses having scope of improvement: Building planning and drawing laboratory, Internship, Transportation engineering laboratory, Building construction, Engineering Physics lab.
Action 1: Group discussions, debate session needs to be conducted to improve students' communication skills. Action 2: The evaluation of presentation report and internship report to be carried out by faculty in an effective way			
PO 11 : Project Management and Finance			
PO 11	1.66	1.67	Students are able to apply the engineering and management principles in their work to manage projects. Courses having scope of improvement: Product design engineering, Environmental engineering, Design of RC structures, Seminar
Action 1: Awareness to be created among the students regarding project management to improve the managerial skills to the students Action 2: Seminar/Guest lecture can be arranged about the project management and finance			
PO 12 : Life-long Learning			
PO 12	2.2	1.95	Attainment is 88.5 % of target value. Students need to transmit the contexts for technological change. Courses having scope of improvement: Building Planning design and drawing laboratory, Structural mechanics, Mechanics of solids
Action 1: Students should be motivated to read magazines. Journals in their field of interest to be updated Action 2: Students can be exposed to various online learning platforms to update themselves in core and specialized subjects.			

PSOs Attainment Levels and Actions for Improvement- (2020-21)

PSOs	Target Level	Attainment Level	Observations
PSO 1 : Apply modern engineering tools in civil engineering industries			
PSO 1	2.02	1.85	Attainment is 91 % of target value. Students can be employable in civil engineering industries with the application of modern tools. Courses having scope of improvement: Engineering Mathematics, Physics, Engineering mechanics, Hydraulics Laboratory, Product design engineering
Action 1: Lecture content should include new technological developmental tools and knowledge of new methodology being adopted in Civil Engineering industries			
PSO 2 : Purse their higher studies and research towards sustainability in the field of civil engineering			
PSO 2	1.67	1.61	Attainment is 96.6 % of target value. Courses having scope of improvement: Engineering Mathematics, Field training, Hydraulics laboratory, Engineering management, Transportation engineering laboratory
Action 1: Mapping of course outcome to PSO2 to be reviewed and revised for weakly mapped courses. Action 2: Sustainability related problems should be given to the students as their project work.			
PSO 3 : Apply their knowledge to accomplish various competitive examinations			
PSO 3	1.49	1.51	Students have confidence to prepare for the competitive examinations. Courses having scope of improvement: Engineering mathematics, Building Construction, Hydraulics laboratory, Planning for sustainable development, Transportation Engineering, Project management, Building planning and design
Action 1: Guest lecture can be arranged to guide the students for various competitive examinations.			

7.2 Academic Audit and actions taken thereof during the period of Assessment (10)

Total Marks 10.00

Institute Marks : 10.00

The process of Academic Auditing intends to monitor and improve the quality of technical education through teaching, learning and evaluation. Audit will be performed periodically by the **Internal Quality Assurance Cell** (IQAC).

The main function of IQAC is to conduct academic audit with respect to the following process.

- Teaching plan, Timetable, Academic diary
- Quality of internal question papers and evaluation
- Mentoring
- Addressing gaps
- Result analysis

7.3 Improvement in Placement, Higher Studies and Entrepreneurship (10)

Total Marks 10.00

Institute Marks : 10.00

- Placement: Number, quality placement, core industry, pay packages etc.
- Higher studies: performance in GATE, GRE, GMAT, CAT etc., and admissions in Premier institutions.

Entrepreneurs

Table 7.4 Improvement in Placement, Higher Studies, and Entrepreneurship

Item	2020 – 21	2019 -20	2018 - 19
Total No. of Final Year Students (N)	33	33	5
No. of Students Placed in Companies or Government Sector(X)	14	14	2
No. of Students admitted to higher studies with valid qualifying scores (GATE or Equivalent State or National Level Tests, GRE, GMAT, etc.) (Y)	2	3	0
No. of students turned entrepreneur in engineering / technology(Z)	9	8	3
Placement Index: (X+Y+Z)/N	25/33=.76	25/33=0.76	5/5=1

Placement Analysis for past three years

A. Y.	No. of Companies Recruited	Avg. CTC L.P. A	No. of Core companies
2020 - 2021	9	2.46	6
2019 - 2020	12	2.54	10
2018 - 2019	2	3.2	1

7.4 Improvement in the quality of students admitted to the program (10)

Total Marks 10.00

Institute Marks : 10.00

Item		2021-22	2020-21	2019-20
National Level Entrance Examination	No of students admitted	0	0	0
JEE	Opening Score/Rank	0	0	0
	Closing Score/Rank	0	0	0
State/ University/ Level Entrance Examination/ Others	No of students admitted	10	9	4
MHT-CET	Opening Score/Rank	51535	44876	72471
	Closing Score/Rank	94843	88491	73585
Name of the Entrance Examination for Lateral Entry or lateral entry details	No of students admitted	27	27	17
CAP-Diploma	Opening Score/Rank	37090	2016	845
	Closing Score/Rank	66614	61533	46386
Average CBSE/Any other board result of admitted students(Physics, Chemistry&Maths)		66	51	53

8 FIRST YEAR ACADEMICS (50)

Total Marks 45.51

8.1 First Year Student-Faculty Ratio (FYSFR) (5)

Total Marks 5.00

Institute Marks : 5.00

Please provide First year faculty information considering load for the particular program

Name of the faculty member	PAN No.	Qualification	Date of Receiving Highest Degree	Area of Specialization	Designation	Date of joining	Teaching load (%)			Currently Associated (Yes / No)	Nature Of Association (Regular / Contract)	Date Of leaving(In case Currently Associated is 'No')
							CAY	CAYm1	CAYm2			
Prof. Mane Sur	BXDPM3118A	M.E/M.Tech	20/10/2016	Signal Processing	Assistant Professor	03/03/2014	11	0	0	Yes	Regular	
Prof. Bokare U	AOIPB9124Q	M.E/M.Tech	14/09/2009	Information Technology	Assistant Professor	21/02/2014	0	17	0	Yes	Regular	
Prof. Atpadkar	CKAPA0059B	M.E/M.Tech	31/03/2017	Design Engineering	Assistant Professor	18/07/2017	0	69	0	Yes	Regular	
Prof. Borate P.	BFJPB3810C	M.E/M.Tech	27/07/2015	Civil Water Management Engineering	Assistant Professor	06/01/2015	0	6	6	Yes	Regular	
Prof. Borate R.	BFLPB9464C	M.E/M.Tech	22/07/2014	Production Techhnology	Assistant Professor	02/03/2020	0	39	0	No	Regular	20/04/2022
Prof. Dhane V.	AXEPD4650N	M.E/M.Tech	08/09/2016	Heat PowerEngineering	Assistant Professor	16/01/2017	0	0	33	Yes	Regular	
Prof. Jagdale L	AYCPJ2733M	MA	10/09/2019	English	Assistant Professor	07/09/2019	0	22	17	Yes	Regular	
Prof. Kandarka	BSNPK6259B	M.E/M.Tech	29/09/2010	Electronics	Assistant Professor	06/01/2016	0	22	17	No	Regular	30/07/2022
Prof. Khandeka	CSPPK2612F	M.E/M.Tech	30/09/2020	Mechanical Engineering	Assistant Professor	07/01/2019	0	0	22	Yes	Regular	
Prof. Patil P. D	CZRPP7620R	MA	08/12/2013	English	Assistant Professor	06/01/2016	39	0	0	Yes	Regular	
Prof. Patil P. R.	CPLPP3830F	M.Sc	06/07/2010	Chemistry	Assistant Professor	10/07/2017	0	33	25	Yes	Regular	
Prof. Rathod M	BGVPR8309B	M.E/M.Tech	02/10/2014	Production Techhnology	Assistant Professor	20/06/2014	0	0	22	Yes	Regular	
Prof. Salunkhe	MORPS9669L	M.Sc	07/09/2016	Physics	Assistant Professor	22/07/2019	58	33	25	Yes	Regular	
Prof. Shinde M	DVCPS8119E	M.E/M.Tech	07/06/2016	Computer Engineering	Assistant Professor	22/09/2020	0	0	17	No	Regular	01/10/2021
Prof. Shingte S	GFMPS0713B	M.Sc	13/05/2016	Mathematics	Assistant Professor	09/09/2019	56	0	0	Yes	Regular	
Prof. Shivde A.	CCLPS6118J	M.E/M.Tech	30/09/2014	Product Design Development	Assistant Professor	16/11/2021	78	0	0	Yes	Regular	
Prof. Teke S. R	AJLPT9480F	M.Phil	16/07/2005	Mathematics	Assistant Professor	06/07/2017	33	33	28	Yes	Regular	

Prof. Yadav K.	BFXPY4061A	M.Sc	24/10/2020	Organic Chemistry	Assistant Professor	01/03/2022	58	0	0	Yes	Regular	
Prof. Yadav P.	AMYPY1831F	M.E/M.Tech	31/07/2017	ProductionEngineering	Assistant Professor	16/02/2022	56	0	0	Yes	Regular	
Prof. Jadhav S	AGDPJ0932F	M.E/M.Tech	10/10/2013	Structural Engineering	Assistant Professor	16/11/2021	64	0	0	Yes	Regular	
Ms. Jadhav Sn	BTJPJ7228N	MCA	15/09/2021	MCA	Assistant Professor	06/12/2021	16	0	0	Yes	Regular	

Year	Number Of Students(approved intake strength) N	Number of Faculty members(considering fractional load) F	FYSFR (N/F)	*Assessment=(5*20)/FYSFR(Limited to Max.5)
2019-20(CAYm2)	30	2	15	5.00
2020-21(CAYm1)	30	3	10	5.00
2021-22(CAY)	60	5	12	5.00
Average	0	0	0	0

8.2 Qualification of Faculty Teaching First Year Common Courses (5)

Total Marks 3.33

Institute Marks : 3.33

Year	x (Number Of Regular Faculty with Ph.D)	y (Number Of Regular Faculty with Post graduate Qualification)	RF (Number Of Faculty Members required as per SFR of 20:1	Assessment Of Faculty Qualification [(5x + 3y) / RF]
2019-20	0	1	1	3.00
2020-21	0	2	1	6.00
2021-22	0	1	3	1.00

Average Assessment: 3.33

8.3 First Year Academic Performance (10)

Total Marks 7.18

Institute Marks : 7.18

Academic Performance	2021-22	2020-21	2019-20
Mean of CGPA or mean percentage of all successful students(X)	7.96	7.32	8.17
Total Number of successful students(Y)	8.00	4.00	14.00
Total Number of students appeared in the examination(Z)	9.00	4.00	16.00
API [X*(Y/Z)]	7.08	7.32	7.15

Average API[(AP1+AP2+AP3)/3] : 7.18

Assessment [1.5 * Average API] : 7.18

8.4 Attainment of Course Outcomes of first year courses (10) Total Marks 10.00

8.4.1 Describe the assessment processes used to gather the data upon which the evaluation of Course Outcomes of first year is done (5)

Institute Marks : 5.00

8.4 Attainment of Course Outcomes of first year courses (10)

8.4.1 Describe the assessment processes used to gather the data upon which the

Evaluation of Course Outcomes of first year done (5)

The Course Outcome (CO) Assessment and Data Acquisition process is prescribed in the

Following paragraphs

Course Outcome Assessment Process

The CO assessment tools are used to measure the attainment levels of 1st year courses includes

1 Student's performance in internal assessments such as class test, assignments, continuous

Evaluation in laboratory through rubrics etc. and

2 Students performance in semester examination conducted by university

All the 1st year courses prescribed by the university for the Program under consideration may be

divided into two broad categories i) Theory courses and ii) Laboratory, for the evaluation. The

overall percentage distribution of marks for direct assessment methods as per examination scheme prescribed by university is shown in Table8.4.1.1. and the entire assessment process is depicted in the Figure.

Table 8.4.1.1: Course Outcome (CO) Assessment Evaluation Process

Course Type	Assessment Type	Evaluation Through	Marks Distribution
Direct Assessment			
Theory	Internal	Assignment	20%
	External	University Examination	80%
Laboratory	Internal	Continuous Evaluation	20%
	External	University Examination	80%

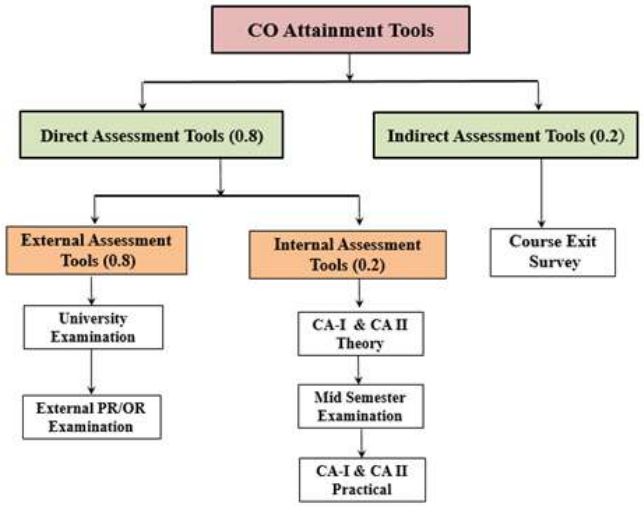


Figure: CO assessment flow chart

Data Acquisition Process for CO Assessment

The data required for the assessment of attainment level of each CO is indicated in above table.

The data acquisition frequency and process is presented in **Table 8.4.1.2.** and the entire assessment process is depicted in the Figure.

Table 8.4.1.2: Data acquisition process for CO Assessment

Assessment Tool	Data Collection Frequency	Responsible Entity
Assignment	Four/Five times every semester*	Faculty Members
Rubric of Continuous Evaluation in Continuous	Continuous	Faculty Members
University Exam	Semester wise	Faculty Members
*As Per university guidelines the data collection frequency for class test and assignment was twice per semester till 2021-22		

8.4.2 Record the attainment of Course Outcomes of all first year courses (5)

Institute Marks : 5.00

8.4.2 Record the attainment of Course Outcome of all first year courses (5)

The attainment of each course outcome is measured through percentage students getting marks above target level for each assessment tool as indicated in (Table 8.4.2.1) the attainment level for CO assessment is adopted as in table 8.4.2.1

Table 8.4.2.1. Attainment level of Course Outcome through various assessment tools	
Attainment level	**Criteria**
1	40% of students scoring above target level
2	50% of students scoring above target level
3	60% of students scoring above target level

Sample CO attainment through direct assessment process of Course – **Engineering Mathematics II (BTBS201)** is shown below.

Table 1 Continuous Assessment I & II Data

Course – Engineering Mathematics II (BTBS201)
Code:BTBS201 Session 2022 Even Semester: 2nd Year: 1st

Sr.	**PRN**	**Name of Student**	**Cos**			**Cos**	
			CA- I			**CA - II**	
		CO Mapped →	**CO1**	**CO2**	**CO3**	**CO4**	**CO5**
		Marks	**4**	**3**	**3**	**5**	**5**
1	PRN:2167571191001	Bansode Karan Santosh	2	1	3	3	3
2	PRN:2167571191002	Ghadage Sahyadri Vikas	4	3	3	4	5
3	PRN:2167571191003	Kalel Yogesh Umesh	4	2	3	5	5
4	PRN:2167571191004	Shevate Sahil Bhanudas	4	3	2	4	5
5	PRN:2167571191005	Sawant Vishal Pradip	3	2	3	3	5
6	PRN:2167571191006	Rathod Ajay Sanjay	4	3	2	5	4
7	PRN:2167571191007	Kenjale Pratik Chandrakant	3	3	2	4	4
8	PRN:2167571191008	Kamble Rahul Manoj	4	2	3	5	4
9	PRN:2167571191010	Sawant Pratik Mugut	4	2	2	4	4
10	PRN:2167571191011	Pawar Vaibhav Pradip	2	3	3	5	3

	Average Marks	**3.40**	**2.40**	**2.60**	**4.20**	**4.20**
	No. of students above Average Marks	**8**	**9**	**6**	**8**	**9**
	% of Students above Average Marks	**80.00**	**90.00**	**60.00**	**80.00**	**90.00**
	Level	**3**	**3**	**3**	**3**	**3**

Table 2 MID Semester Examination Data

Sr.	**PRN**	**Name of Student**		
		CO Mapped →	**CO1**	**CO2**
		Marks	**20**	
1	PRN:2167571191001	Bansode Karan Santosh	1	2
2	PRN:2167571191002	Ghadage Sahyadri Vikas	7	7
3	PRN:2167571191003	Kalel Yogesh Umesh	10	6
4	PRN:2167571191004	Shevate Sahil Bhanudas	8	6
5	PRN:2167571191005	Sawant Vishal Pradip	5	3
6	PRN:2167571191006	Rathod Ajay Sanjay	4	4
7	PRN:2167571191007	Kenjale Pratik Chandrakant	6	2
8	PRN:2167571191008	Kamble Rahul Manoj	8	5
9	PRN:2167571191010	Sawant Pratik Mugut	1	0
10	PRN:2167571191011	Pawar Vaibhav Pradip	7	6
		Average Marks	**5.70**	**4.10**
		No. of students above Average Marks	**6**	**6**
		% of Students above Average Marks	**60.00**	**60.00**
		Level	**3**	**3**

Table 3 END Semester Examination Data

Subject. Engineering Mathematics - II 2021-22			
Sr. No	**PRN NO**	**NAME OF STUDENT**	**ESE(60)**
1	PRN:2167571191001	Bansode Karan Santosh	4
2	PRN:2167571191002	Ghadage Sahyadri Vikas	20
3	PRN:2167571191003	Kalel Yogesh Umesh	14
4	PRN:2167571191004	Shevate Sahil Bhanudas	3
5	PRN:2167571191005	Sawant Vishal Pradip	4

6	PRN:2167571191006	Rathod Ajay Sanjay	13
7	PRN:2167571191007	Kenjale Pratik Chandrakant	11
8	PRN:2167571191008	Kamble Rahul Manoj	17
9	PRN:2167571191010	Sawant Pratik Mugut	1
		Average Marks	**9.66666667**
		No. of students above Average Marks	**5**
		% of Students above Average Marks	**55.55%**
		Level	**2**

The CO Attainment level of all First Year Courses is summarized in Table 8.4.2.2.

for Academic Year 2021-22, 2020-21 and 2019-20.

Table No 8.4.2.2 Direct Course Outcome Attainment Record of all First Year

Academic Year 2021-22

CO Attainment for Academic Year 2021-22						
Subject Code	**CO-1**	**CO-2**	**CO-3**	**CO-4**	**CO-5**	**CO-6**
BTBS101	2.92	2.84	3	3	3	
BTBS102	2.12	2.12	2.36	2.36	2.36	
BTES103	1.50	1.43	1.66	1.66		
BTHM104	3.00	3.00	3.00	3.00		
BTES105	2.30	2.22	2.12	2.34		
BTES106	2.94	1.38	2.18	2.20	2.20	
BTBS107L	2.2	2.2	2.36	1.88		
BTES108L	2.02	1.82	2.02	2.04		
BTHM109L	2.84	3.00	3.00	2.84		
BTBS201	3	3	3	3	3	
BTBS202	2.2	2.2	2.36	2.36	2.36	
BTES203	1.72	1.72	1.72	1.72	1.72	
BTES204	2.84	2.84	2.56	2.56	2.56	
BTES205	3	2.84	2.84	3	NA	NA
BTES206	2.84	3	3	3	3	
BTBS207L	2.52	2.68	2.52	2.68		

BTES208L	2.04	2.04	2.04	2.04		
BTES210S	2.2	2.36	2.36	2.36	2.36	
BTES211P						
CO Attainment for Academic Year 2020-21						
BTBS101	0.90	1.00	1.20	1.00	1.20	
BTBS102	1	1.08	0.76	1.08	1.08	
BTES103	1.66	1.28	1.42	1.18		
BTHM104	3.00	3.00	3.00	3.00		
BTES105	2.20	2.24	2.34	2.28		
BTES106	3.0	3.0	3.0	1.4	3.0	
BTBS107L	2.52	2.52	2.84	2.84		
BTES108L	2.14	2.14	2.16	2.16	1.98	
BTHM109L	3.00	3.00	3.00	3.00		
BTBS201	2.12	2.20	2.36	2.20	2.20	
BTBS202	3	2.84	3	2.84	3	
BTES203	1.72	1.72	1.72	1.72	1.72	
BTES204	2.84	2.84	2.84	2.84	2.84	
BTES205	2.66	2.62	2.8	2.82		
BTES206	3	3	2	3	3	
BTBS207L	2.52	2.52	2.52	2.68		
BTES208L	1.72	1.72	1.72	1.72		
BTES210S	2.84	2.84	3	3	3	
BTES211P	2.3	2.96				
CO Attainment for Academic Year 2019-20						
BTBS101	2.40	2.60	2.60	2.80	2.80	
BTBS102	2.92	3	2.76	3	3	
BTES103	2.92	2.92	2.84	3		
BTHM104	3.00	3.00	3.00	3.00		
BTES105	2.84	2.84	3	3		
BTES106	3.0	3.0	3.0	3.0	3.0	
BTBS107L	3	2.84	3	3		
BTES108L	1.4	1.4	1.72	1.72		
BTHM109L	3.00	3.00	2.84	2.84		

BTBS201	2.95	3.00	3.00	3.00	3.00	
BTBS202	3	3	3	3	2.68	
BTES203	1.72	1.56	1.72	1.72	1.72	
BTES204	2.8	2.6	2.8	2.4	2.8	
BTES205	1.36	1.36	1.34	1.48		
BTES206	2.8	2.8	2.8	2.8	2.8	
BTBS207L	2.2	2.2	2.2	2.36		
BTES208L	1.4	1.4	1.4	1.4		
BTES210P	2.2	2.2	2.2	2.2	2.2	2.2
BTES211P	2.14	2.16				

8.5 Attainment of Program Outcomes from first year courses (20) Total Marks 20.00

8.5.1 Indicate results of evaluation of ezch relevant PO and/ or PSO, if applicable (15) Institute Marks : 15.00

POs Attainment:

Course	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12
BTBS101	1.04	0.83	0.35	0.35	0.35	PO6	PO7	PO8	PO9	PO10	PO11	PO12
BTBS102	1.96	1	0.95	PO4	PO5	1.96	1.92	PO8	PO9	PO10	PO11	1.56
BTES103	2.49	1.9	PO3	PO4	0.93	PO6	PO7	PO8	PO9	PO10	PO11	1.91
BTES104	1.73	1.41	1.18	1.32	1.21	1.45	1.44	0.85	1.16	1.59	1.10	1.56
BTES105	1.84	1.84	1.84	0.92	2.76	1.84	0.45	PO8	2	1.84	PO11	1.84
BTES106	1.86	0.78	0.78	PO4	0.77	PO6	PO7	0.77	PO9	PO10	PO11	0.78
BTBS107L	PO1	1.27	PO3	PO4	PO5	1.71	1.48	PO8	PO9	PO10	PO11	1.71
BTES108L	2.23	1.48	0.77	1.49	0.56	PO6	PO7	PO8	PO9	PO10	PO11	0.74
BTBS201	2.02	1.23	0.62	0.77	0.77	PO6	PO7	PO8	PO9	PO10	PO11	PO12
BTBS202	1.44	1.44	0.72	1.44	PO5	PO6	PO7	0.72	PO9	PO10	PO11	0.91
BTES203	1.34	1.07	0.54	1.10	0.79	PO6	PO7	PO8	PO9	PO10	PO11	0.67
BTHM204	PO1	PO2	PO3	PO4	PO5	PO6	PO7	1	1.25	3	1.25	2.25
BTES205	2.27	2.08	1.89	1.90	PO5	PO6	PO7	PO8	PO9	PO10	PO11	2.27
BTES206	1.36	1.16	0.98	0.93	PO5	1.33	1	PO8	PO9	PO10	PO11	2
BTBS207L	1.79	1.79	PO3	PO4	PO5	PO6	PO7	PO8	0.89	0.89	PO11	1.79
BTES208L	2.04	1.48	1.12	1.48	0.73	PO6	PO7	PO8	PO9	PO10	PO11	0.74
BTHM209L	PO1	PO2	PO3	PO4	PO5	PO6	PO7	1	1.25	3	1.25	2
BTES210S	1.96	PO2	1	PO4	PO5	1.63	1.3	1.63	2.3	1.96	PO11	1.58
BTES211P	2.63	0.88	0.88	PO4	PO5	1.75	PO7	0.88	PO9	PO10	2.63	2.14

PO Attainment Level

Course	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12
Direct Attainment	1.88	1.35	0.97	1.17	0.99	1.67	1.26	0.98	1.48	2.05	1.56	1.56
CO Attainment	1.88	1.35	0.97	1.17	0.99	1.67	1.26	0.98	1.48	2.05	1.56	1.56

PSOs Attainment:

Course	PSO1	PSO2	PSO3
BTBS101	0.34	0.33	0.34
BTBS102	0.99	0.97	1
BTES103	0.96	1.64	0.98
BTES104	1.37	1.14	1.04
BTES105	1.84	0.92	PSO3
BTES106	1.86	0.78	0.77
BTBS107L	PSO1	PSO2	1.71
BTES108L	1.10	1.10	1.10
BTBS201	0.77	0.78	PSO3
BTBS202	0.72	PSO2	PSO3
BTES203	0.78	0.78	0.78
BTHM204	PSO1	1	PSO3
BTES205	1.89	1.52	2.08
BTES206	1.17	1.47	0.73
BTBS207L	1.79	PSO2	PSO3
BTES208L	1.08	1.08	1.08
BTHM209L	PSO1	PSO2	PSO3
BTES210S	1.75	0.77	PSO3
BTES211P	1.23	1.02	1.06

PSO Attainment Level

Course	PSO1	PSO2	PSO3
Direct Attainment	1.23	1.02	1.06
CO Attainment	1.23	1.02	1.06

8.5.2 Actions taken based on the results of evaluation of relevant POs (5)

Institute Marks : 5.00

POs Attainment Levels and Actions for Improvement- (2020-21)

POs	Target Level	Attainment Level	Observations
PO 1 : Engineering Knowledge			
PO 1	2.4	1.88	Attainment Level 78.33% ,Attainment Level more than 70%, Target Achieved
Action:Target achieved. Hence the attainment for the current academic year is fixed as Target for the next academic year.			
PO 2 : Problem Analysis			
PO 2	1.83	1.35	Attainment Level 73.77% ,Attainment Level more than 70%, Target Achieved
Action:Target achieved. Hence the attainment for the current academic year is fixed as Target for the next academic year.			
PO 3 : Design/development of Solutions			
PO 3	1.32	0.97	Attainment Level 73.48% ,Attainment Level more than 70%, Target Achieved
Action:Target achieved. Hence the attainment for the current academic year is fixed as Target for the next academic year.			
PO 4 : Conduct Investigations of Complex Problems			
PO 4	1.64	1.17	Attainment Level 71.34% ,Attainment Level more than 70%, Target Achieved
Action:Target achieved. Hence the attainment for the current academic year is fixed as Target for the next academic year.			
PO 5 : Modern Tool Usage			
PO 5	1.5	0.89	Attainment Level 59.33% ,Attainment Level less than 70%, Target Retained
ACTION 1 : Target will be retained and will be observed for next academic result. To Improve analytical thinking skills in first year engineering subjects following steps were taken. ACTION 2: Lecture's plans for the coming semester were modified to incorporate more tutorial classes to develop their attitude in problem solving ability. ACTION 3 : FSP on aptitude skills were conducted.			
PO 6 : The Engineer and Society			
PO 6	1.85	1.67	Attainment Level 90.27% ,Attainment Level more than 70%, Target Achieved
Action:Target achieved. Hence the attainment for the current academic year is fixed as Target for the next academic year.			
PO 7 : Environment and Sustainability			
PO 7	1.58	1.19	Attainment Level 75.31% ,Attainment Level more than 70%, Target Achieved
Action:Target achieved. Hence the attainment for the current academic year is fixed as Target for the next academic year.			
PO 8 : Ethics			
PO 8	1.16	0.88	Attainment Level 75.86% ,Attainment Level more than 70%, Target Achieved
Action:Target achieved. Hence the attainment for the current academic year is fixed as Target for the next academic year.			
PO 9 : Individual and Team Work			
PO 9	1.63	1.48	Attainment Level 90.80% ,Attainment Level more than 70%, Target Achieved
Action:Target achieved. Hence the attainment for the current academic year is fixed as Target for the next academic year.			
PO 10 : Communication			
PO 10	2.16	2.05	Attainment Level 94.91% ,Attainment Level more than 70%, Target Achieved
Action:Target achieved. Hence the attainment for the current academic year is fixed as Target for the next academic year.			

PO 11 : Project Management and Finance

PO 11	1.87	1.56	Attainment Level 83.42% ,Attainment Level more than 70%, Target Achieved
Action:Target achieved. Hence the attainment for the current academic year is fixed as Target for the next academic year.			

PO 12 : Life-long Learning

PO 12	1.95	1.56	Attainment Level 80.00% ,Attainment Level more than 70%, Target Achieved
Action:Target achieved. Hence the attainment for the current academic year is fixed as Target for the next academic year.			

PSOs Attainment Levels and Actions for Improvement- (2020-21)

PSOs	Target Level	Attainment Level	Observations
PSO 1 : Apply modern engineering tools in civil engineering industries			
PSO 1	1.64	1.23	Attainment level : 75.00%, Attainment Level more than 70%, Target Achieved
Action:Target achieved. Hence the attainment for the current academic year is fixed as Target for the next academic year.			
PSO 2 : Purse their higher studies and research towards sustainability in the field of civil engineering			
PSO 2	1.26	1.03	Attainment level : 81.75%, Attainment Level more than 70%, Target Achieved
Action:Target achieved. Hence the attainment for the current academic year is fixed as Target for the next academic year.			
PSO 3 : Apply their knowledge to accomplish various competitive examinations			
PSO 3	1.44	1.06	Attainment level : 73.61%, Attainment Level more than 70%, Target Achieved
Action:Target achieved. Hence the attainment for the current academic year is fixed as Target for the next academic year.			

9 STUDENT SUPPORT SYSTEMS (50)

Total Marks 50.00

9.1 Mentoring system to help at individual level (5)

Total Marks 5.00

Institute Marks : 5.00

Mentoring system is the practice of mentors to meet students individually or in groups. In isolated cases parents are called for counselling and their special meeting with the principal at the suggestion of the mentor is being held.

Faculty mentors play a crucial role in mentoring graduates. Students and their mentors share responsibility for ensuring productive and rewarding mentoring relationships. Both parties have a role to play in the success of mentoring. For graduate students, a mentor is someone who serves as a guide throughout their institutional training. They provide both professional and personal advice to the students. They further give constructive feedback on writing, teaching and other elements of career design. They can serve to help students balance professional goals with their personal lives or give emotional encouragement during challenging times.

Objectives of Mentoring System

- To establish a first line of communication for each student with the institution.
- To create a sense of oneness among students with the institution.
- To identify and mitigate psychology societal and other issues faced by students and coursed there or refer them to experts for remedy.
- To make the students be self-aware of their strengths and weakness and take necessary remedial action.

The Practice of Mentoring System

- Each faculty member is the mentor of a group of 20 to 25 students allocated to him/ her by the Head of the Department. Those faculties will continue to be the mentors for the same group of students till their graduation.
- The teacher mentor collects personal information from the ward without touching sensitive issues or forcing any information out of the wards and then provides the needed counseling to the wards.
- Critical issues are brought to the notice of the Head of the Department.
- The teacher meets the wards informally outside class hours as well and guides them regarding their career options.
- A documented record of the mentoring process is maintained by the mentor teacher and the Head of the Department for reference purposes.
- When the students enter the college, they get lost in the crowd with too many students in the same class coming from different backgrounds these students face stress of complex course, peer pressure, and emotional immaturity. Therefore, it is the need of the hour to intervene and introduce mentorship program to this vulnerable group.

Responsibilities of Faculty Mentor

The faculty mentor will perform the following functions

- Meet the group of students at least twice a month.
- Maintain a mentor-mentee detail progressive record of the student.
- Keep contact details of students and parents.
- Send letter to parents/guardian for parents meet and also contact parents/guardian if situation demands.
- Continuously monitor, counsel, guide and motivate the students in all academic pursuits.
- Advises students in their career development/professional guidance.
- Keeps contact with the students even after their graduation.
- Intimates HOD and suggest if any administrative action is called for.
- Maintains a brief but clear record of all discussions with students.

YTC Mentoring Handbook of a student includes the following salient feature:

1. Personal information
2. Educational Information
3. Other information
4. Semesterwise result analysis
5. Mentor detail information
6. Student meeting record
7. Telephone record
8. Report from mentor for mentee student
9. Student fees record
10. Consolidated record
11. Parent meets record.

Types of mentoring done in our institution are:

The all-round development student mentoring system focuses on the following four progresses:

1. **Academic progress**
2. **Co-curricular progress**

3. **Extra-curricular progress**
4. **Career progress**

1. **Academic progress:**

- All students will be mentored by the respective mentors after every Internal Assessment Tests and after every end semester examination results. This enables the mentors to monitor the progress of each student.
- During this regular mentoring, the students are mentored based on their performance.
- Students who have scored good marks are encouraged to perform better.
- Good performers are advised to help the slow learners whenever possible, which enables peer learning among the students.
- Toppers are motivated to score good GPAs in all the semester and secure university ranks.
- Slow learners are advised to attend coaching classes for better understanding of the subjects.
- Scholarships and certificates are given to Class Toppers/Meritorious Students
- College Toppers are awarded based on the academic performance.
- Best Outgoing Student Award is also presented to motivate the students.

Efficacy:

Through this effective mentoring system

- The performance of the students in the internal assessment tests has improved and the students who perform better are motivated to do well in the upcoming tests.
- Slow learners have also shown improvement in their test performance because of peer learning. They are motivated to perform better in the ensuing tests.
- 6 students of first batch and 16 students of second batch have shown improvement and have secured university ranks.
- Slow learners who attend coaching classes perform better in internal tests and have shown great improvement.

2. **Co-curricular progress:**

- Students" participation in co-curricular activities is periodically monitored.
- Suitable events are identified by the mentors and intimated to the students.
- Students are motivated to participate in multiple activities to enhance their technical and life skills.
- Students are encouraged to do inter-departmental projects.
- Students are involved in various Value Added Courses based on their interest, various state and national level symposiums, seminars, conferences & competitions, training programmes, workshops etc.
- Students of our institute participate in various co-curricular activities across India.

Efficacy

- Students have actively participated in several co-curricular events inside and outside the college.
- Students have participated in a wide range of best events suggested by the faculty.
- Students have improved their technical and life skills
- Many inter-departmental projects, value added courses, symposiums, conferences & competitions, training programmes, workshops have made them industry-ready.
- Students have travelled to many institutions in Maharashtra and across the country to participate in events/competitions and have also won prizes.

3. **Extra-curricular progress**

- With the support of Physical Education department, Extracurricular Clubs, NSS, YRC units of RIT, mentors identify the potential talents among the students and encourage them to participate in various extra-curricular activities like sports, NSS, photography and social activities.
- Participation in extra-curricular activities moulds their character and personality.
- Students emerge physically and mentally strong. Such participations increase the confidence of the students too.

Efficacy

- Students have participated in various zonal, district, state and national level events and have also won prizes.
- Students have started their own NGOs and are involved in several social service activities. Senior students have addressed and encouraged juniors to be part of their NGOs and start their own NGOs
- Students have involved in many village welfare activities, cleanliness drives, health hygiene programmes in and around Wadhe Phatha.
- Multiple Tree plantation programmes have been conducted by the NSS unit and the student NGOs.
- Students have exhibited their skills in photography, acting, elocution, aptitude etc. in several in-house & external events and have also won prizes.

4. **Career progress**

Mentors through the Career Guidance Cell, Higher Education Cell and Entrepreneurship Development Cell, guide the students to achieve their career aim by following the practices like:

- GATE coaching
- UPSC motivational programme
- Foreign and additional languages coaching
- Entrepreneurial skill development programme
- Value Added Courses / Placement training programmes / Skill development programmes
- Business English Certificate Programme

Efficacy

- Students have cleared GATE Exam.
- Several Students are undergoing UPSC preparation after graduation.
- Students have cleared German certificate Exams
- Several students have enrolled for Business English Certificate Exam and the classes are underway.
- Students have started their own ventures and start-ups Outcomes of the system

Outcome of Mentoring System

- The attendance percentage of the students has increase to greater extend.
- The number of detainment of students has decrease consistently.
- Due to direct communication between mentor and the student, there was good improvement in student-faculty relationship.

9.2 Feedback analysis and reward /corrective measures taken, if any (10) Total Marks 10.00

Institute Marks : 10.00

Feedback analysis and reward /corrective measures taken are explained in detail below:

1. **Feedback collected for all courses: Yes**
2. **Feedback collection process: Every semester, one feedback is collected through an online process System.**
3. **Percentage of students participating: 100 %**
4. **Feedback analysis process**

- Feedback is taken through online questionnaire format for each semester.
- All students of each class are given opportunity to express their opinion with regards to effectiveness in teaching by a teacher, which is detailed in the online feedback format.
- This feedback helps the institute to take corrective measures whenever required. It also helps the teachers in improving their teaching methodology.
- The feedback system helps to assess the compatibility between the subject teacher and the class.
- The collected feedback is analyzed and a report is generated for each faculty for every subject.
- In case the feedback is less than 70% for any teacher, he/she is advised by the HOD, senior staff member of the department and Principal to rectify the shortcomings. Suitable suggestions are given for the same.
- Regular class committee meetings are conducted in the presence of HOD, Senior faculty member, class advisors , individual subject handling faculties and a five students comprising from high level to low level from each class are held to get an update on syllabus completion, teaching methodology, and conduct of teaching, non-teaching and administrative staff, facilities and infrastructure. Prompt action is taken in case of any issues brought to notice by students.

5. Basis of Reward/ Record of Corrective Measures Rewards:

- Honorarium and Appreciation Certificate are given to faculty members who secure100% Result.

Corrective Measures:

- The online questionnaire format is designed on 100-point scale. Faculty members who score less than 70% are advised and guided accordingly by the HOD, senior staff members and the Principal. After due corrective measures a Re-feedback is taken to assess the improvement.
- Continuing education programs are conducted for the faculty.
- The faculty members are deputed for FDPs and workshops for wholesome training.

6.Indices (Matrix) used for Measuring Quality of Teaching and Learning:

FEEDBACK FORM

Sr. No.	Question	Option Points												Remark
		1	2	3	4	5								
01	How your teacher is engages Lectures?	Occasionally	-	Irregular	-	Regular								
	How your teacher is engages Practical's?													
	How your teacher is engages Practical's?	Occasionally	-	Irregular	-	Regular								
02	Do you understand the lecture delivered by lecturer?	Never	Hardly	Satisfactorily	Well	Thoroughly								
03	How about the speed of delivering lectures?	Fast	-	Slow	-	Well								
04	How do you rate Communication Skill of lecturer?	Poor	Below average	Average	Good	Excellent								
05	Are the lectures lively & interesting?	-	Boring	Monotonous	Interesting	Very Interesting								
06	Are the lectures a mere reproduction of text books?	Always	Often	Occasionally	Rarely	Never								
07	Does the lecturer encourage you to ask question?	Never	Rarely	Occasionally	Often	Always								

08	Does the lecturer solve sufficient numerical?	Never	Rarely	Occasionally	Often	Always							
09	Does the lecturer discuss the Practical application of theory conducted?	Never	Rarely	Occasionally	Often	Always							
10	How are the sketch work/ other writing on the Black Board?	Shabby	-	Ordinary	-	Neat							
11	How is the attitude and behavior of the lecturer to students within and outside the class?	Threatening	Unfriendly	Not helpful	Indifferent	Helpful.							
12	How do you attend the class?	Occasional	-	moderate	•	Regular							
Average													

HOD SIGNATURE

7. Summary of the Index Values of All Courses/teachers: Available for all faculty members at the department level (based on the following parameters).

ODD SEMESTER				
SUBJECTS	SUBJECT:1	SUBJECT:1	SUBJECT:1	AVERAGE
STUDENTS FEDBACK				

EVEN SEMESTER				
SUBJECTS	SUBJECT:1	SUBJECT:1	SUBJECT:1	AVERAGE
STUDENTS FEDBACK				

SUBJECTS	ODD SEMESTER	EVEN SEMESTER	GRAND TOTAL
STUDENTS FEDBACK			

Number of corrective actions taken in the last three years: 05

Effectiveness of the Feedback System

- Preliminary feedback allows identifying problem areas early in the semester and addressing the same soon. It also helps the teachers in improving their teaching methodology.
- All students of each class get opportunity to express their opinion with regards to effectiveness in teaching by a teacher. It increases the compatibility between the subject teacher and the class.
- Individual faculty feedback reports help the institution to identify individual training areas for faculty and arrange programmes accordingly.
- Regular class committee meetings help in updating the students on syllabus completion, teaching methodology, and conduct of teaching, non-teaching and administrative staff, facilities and infrastructure. It also leads to prompt action in case of any issues brought to notice by students.
- The Students" feedback, faculty members" self-appraisal report and the review by faculty appraisal committee, headed by principal and GC members helps in improving the overall Learning Management System.

9.3 Feedback on facilities (5)

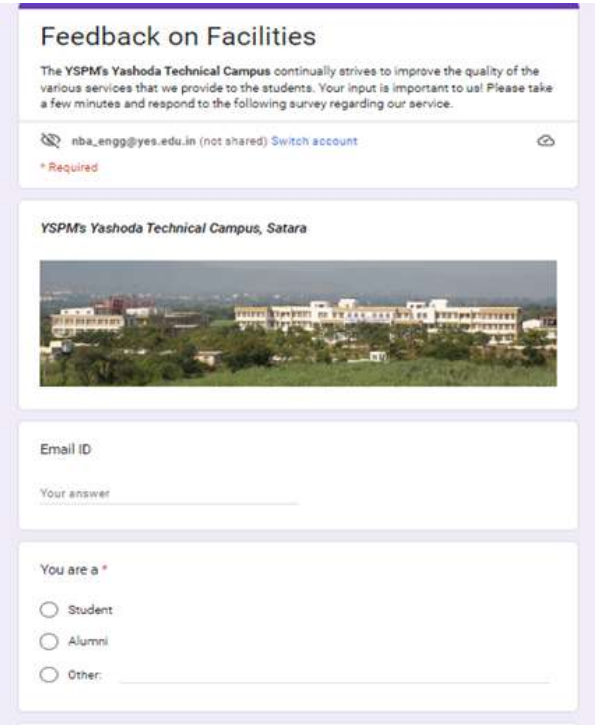
Total Marks 5.00

Institute Marks : 5.00

For collection, disbursement and analysis of feedback forms on facilities once in a year basis a committee is formed every year.

Committee	Structure	Function	Frequency
Feedback Committee	• Chairperson: Administrator • Coordinator: One senior faculty member • Members: One TA from each department	• To disburse the feedback forms among students • To collect and analyze the feedback on facilities • To suggest necessary actions based on feedback collected on facilities.	Once in a year (After the end of even semester)

Sample Form for Feedback on Facilities



Feedback on Facilities

The **YSPM's Yashoda Technical Campus** continually strives to improve the quality of the various services that we provide to the students. Your input is important to us! Please take a few minutes and respond to the following survey regarding our service.

nba_engg@yes.edu.in (not shared) Switch account

* Required

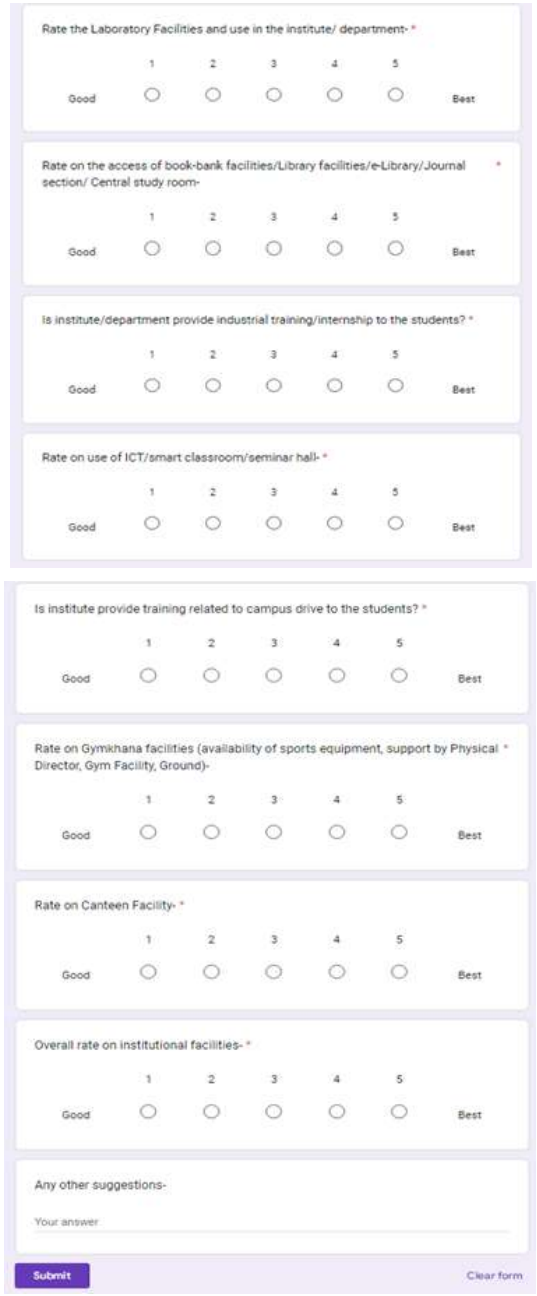
YSPM's Yashoda Technical Campus, Satara

Email ID

Your answer

You are a *

- Student
- Alumni
- Other:



Different facilities for which feedback are taken from students:

1. Canteen
2. Hostel
3. Emergency Transport

4. Gym, ATM & Banking Facilities
5. Medical Facilities
6. Library
7. Mentorship
8. Extra-Curricular Activities
9. Class Room
10. Lab

Basis for corrective actions: In any parameters mentioned above, if average score obtained is less than 50%, actions may be triggered as per the requirement.

9.4 Self-Learning (5) Total Marks 5.00

Institute Marks : 5.00

Self-learning, which is a personalized method of learning, is the new paradigm for the 21st Century. The learner is free to choose what to learn, how to learn, when to learn and where to learn. With the advancement of information and communication technology, the learner is getting familiarized with more and more to non-formal mode of education thereby shifting the preference to self-learning methods. Self-learning modules and materials make this learning process in our institute more effective.

Facilities for self-learning:

- Wi-fi enabled Campus
- Internet connectivity
- Exclusive internet/virtual laboratory for students
- Well-equipped central library
- Digital Library
- Library on Wheels
- Web based learning
- Free and open learning environment
- Video Lecture Bank (Prepared by Faculty Members of Institute)
- Seminar/Webinar organized by Institution for self-learning purpose.

Materials for self-learning / extramural learning:

- CDs of Video Lectures
- COURSERA
- NPTEL (MOOCS) courses
- IEEE on line journals
- Open access central library with 66074 (No of Title: 7158) books and 190 journals (Online). Departmental Library with reference books related to the departmental program.
- Course specific lecture materials are available in the departmental homepage of the institute website & in Video Lecture Bank.
- Open and free environment - students are free to interact with faculty at any point of time regarding queries, references, etc.
- Video recording of specific courses (such as, control system engineering, power electronics, electronic circuits, circuit theory) delivered by IIT Faculty members under NPTEL (SWAYAM) project of MHRD. The institute is a local chapter of NPTEL (SWAYAM). Most of the video lecture of the faculty members from different IITs and IISc are made available to our students.

Sample Certificates


This certificate is computer generated and can be verified by scanning the QR code given below.

Roll No: NPTEL22GE14534170164

To,
VIKAS SHIVAJI KADAM
311 SAI NAGARI SOCITY GODOLI SATARA
MAHARASHTRA - 415001
PH. NO 9675912980

Score	Type of Certificate
>=80	Elite+Gold
75-80	Elite+Silver
>=60	Elite
40-59	Successfully Completed
<40	No Certificate

No. of credits recommended by NPTEL:3

Elite

NPTEL Online Certification

(Funded by the MoE, Govt. of India)

This certificate is awarded to

VIKAS SHIVAJI KADAM

for successfully completing the course

Non-conventional Energy Resources

with a consolidated score of 70 %

Online Assignments	22.69/25	Proctored Exam	47.63/75

Total number of candidates certified in this course: 2009

Prof. Deepesh Jalihal
Chairman
Centre for Continuing Education, IITM

Jan-Apr 2022
(12 week course)

Prof. Andrew Thangaraj
NPTEL Coordinator
IIT Madras

Indian Institute of Technology Madras

swayam

Roll No:NPTEL22GE14534170164

To validate and check scores: https://nptel.ac.in/noc

9.5 Career Guidance, Training, Placement (10)

Total Marks 10.00

Institute Marks : 10.00

Training and Placement has been the cornerstone of the best practices adopted by the College since inception. The quality and volume of placements achieved by the students of the College have attracted talented fresh entrants and the achievements may be safely attributed to sound academics imparted by the faculty, holistic training designed in close collaboration with Industry and incessant innovation of the placement team towards attracting companies from near and far.

The execution revolves around a two-tier approach where Training and Placement Office works in tandem with Departmental Teams to create the right mix of Industry Relations and Academic Feedback.

The Training and Placement Office does a thorough market research on one hand and on the other hand closely monitors the student training needs. The key functions of the Office are as enumerated below:

- Relationship Management with companies already recruiting from the College.
- Prospecting new companies for Placements and Internships.
- Understanding training need and accordingly arranging summer/winter trainings in various Industries, FSPs, Seminars/Webinars, etc.
- Actively participating in various Industry Associations and Forums to gain insights, initiate collaborations to create internship opportunities & MoUs, etc.
- Interacting with students and build exposure on Industry expectation for better employability.

The Departmental Teams were formed with an initial objective to create the last mile connectivity with students and keep track of strengths and weaknesses of individual student. The departmental teams also ensured seamless communication with students on all happenings and thereby ensure active participation of the students in every programme. The key functions are as enumerated below:

- Sharing recruitment notifications and ensure participation of the eligible candidates
- Keeping track of placed candidates and collecting Offer letters in coordination with them.
- Supporting T&P Office to identify training needs of the students and contribute in fixing the training calendar.
- Encouraging students with aspiration for higher studies to declare the same as per placement policy and keeping a track of the same.
- Close coordination with T&P Office for smooth execution of all T&P agendas

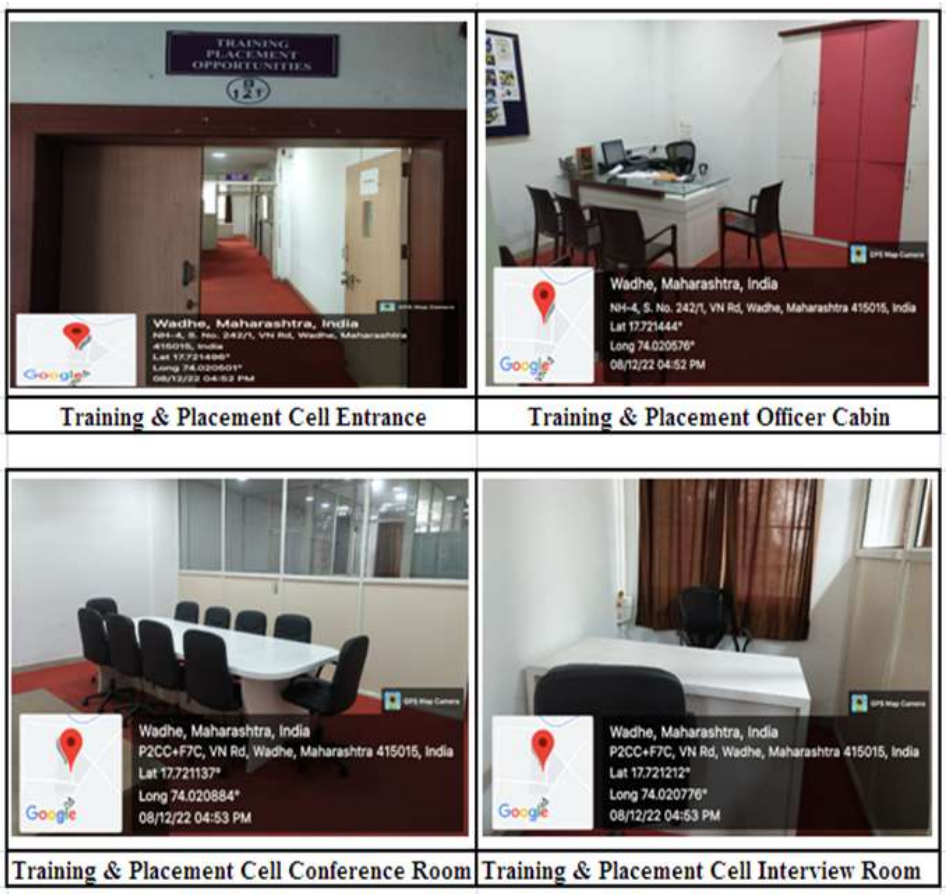
List of Committee Members of Training & Placement Cell:

Academic Year 2021-22

Sr. No	Name of (Staff) TPO Coordinators	Name of Department	Designation
1	Mr. Tushar Shende	Training & Placement	Training & Placement Officer
3	Mr. Abhijit Atpadkar	Mechanical	Member
4	Mr. Ajinkya Shah	Civil	Member
5	Mr. Basavraj Hebbale	Electrical	Member
6	Mr. Kishor Shinde	Electronics & Telecommunication	Member
7	Mr. Kiran Jagtap	Computer Science	Member
8	Ms. Anam Narawde	Mechanical	Member
9	Mr. Kunal Bagade	Mechanical	Member
10	Mr. Prashant Raut	Civil	Member
11	Ms. Rutuja Phadtare	Civil	Member
12	Mr. Prasad Nalawade	Electrical	Member
13	Mr. Aman Mulani	Electrical	Member
14	Mr. Digvijay Patil	Electronics & Telecommunication	Member
15	Ms. Avrutti Gurav	Electronics & Telecommunication	Member
16	Mr. Ayush Soni	Computer Science	Member
17	Ms. Aditi Loni	Computer Science	Member
18	Mr. Aman Kadam	Computer Science	Member

19	Dr. Duradundi Sawant Badkar	Principal	Member Secretary

Training & Placement/Career Guidance Cell



Training & Placement Cell Entrance | Training & Placement Officer Cabin

Training & Placement Cell Conference Room | Training & Placement Cell Interview Room

List of Event Conducted under Pre Placement Training Activities

Academic Year 2019 - 2020							
Sr. No	**Department**	**Training Dates**	**Training Activity**	**Number of Participants**	**Year / Semester**	**Stream**	**Resource Person**
1	All Departments	23/07/2019 to 25/07/2019	Connect with Work	**114**	03rd & 04th Year / 05th & 07th Semester	All Degree	Mrs. Samiksha Pradhan & Ms. Chetana Marlecha

2	All Departments	30/08/2019	You are change! – Be Real (Guest Lecture)	**135**	01st, 02nd, 03rd & 04th Year / 01st, 03rd, 05th & 07th Semester	All Degree	Mr. G. Gorge (Founder - Shashwat Gyan, Pune)
3	All Departments	4/9/2019	Multiple Opportunities in IT Sector	**85**	04th Year / 07th Semester	All Degree	Mr.Shrikant Somani (Gray Atoms, Mumbai)
4	All Departments	22/10/2019 to 24/10/2019	Personality Grooming	**175**	01st, 02nd, 03rd & 04th Year / 01st, 03rd, 05th & 07th Semester	All Degree	Mr. G. Gorge (Founder - Shashwat Gyan, Pune)
5	All Departments	24/01/2020	Global Opportunities for Engineering	**81**	04th Year / 08th Semester	All Degree	Mr. Shekhar Bidwai (Chinmay Education Counsultancy, Pune)
6	All Departments	31/01/2020	Mind Mapping	**75**	04th Year / 08th Semester	All Degree	Mr.Chirag Patil (Director Youth Empower Skills Development from Art of Living)
7	All Departments	13/2/2020	Personality Mapping Success Mantra	**75**	04th Year / 08th Semester	All Degree	Mr.Prashant Shrotri (Director ACS Academy Pune)
8	All Departments	13/2/2020	Personality Mapping Success Mantra	**61**	02nd, 03rd & 04th Year / 04th, 06th & 08th Semester	All Degree	Mr. K. Raj (Director - Dynasanpada Foundation, Mumbai)

Academic Year 2020 - 2021

Sr. No.	Department	Training Dates	Training Activity	Number of Participants	Year / Semester	Stream	Resource Person
1	All Departments	20/08/2020 to 10/09/2020	Citi - Disha - Employability Skills Program	**54**	03rd & 04th Year / 05th & 07th Semester	All Degree	Mr. Philips (Trainer - , Edubridge, Pune)

2	All Departments	22/03/2021 to 24/03/2021	Personality Sevelopment Skills	**207**	02nd, 03rd & 04th Year / 04, 06th & 08th Semester	All Degree	Mr.G.Gorge (Founder - Shashwat Gyan, Pune)

Academic Year 2021 - 2022

Sr. No.	Department	Training Dates	Training Activity	Number of Participants	Year / Semester	Stream	Resource Person
1	All Departments	16/10/2021	Awareness Regarding Environmental Studies (Webinar)	**55**	02nd, 03rd & 04th Year / 03rd, 05th & 07th Semester	All Degree	Prof.Chitra Deshmukh (Co Founder & CEO of Madhura Foundation, Navi Mumbai)
2	All Departments	20/11/2021	Recession Proof Career (Webinar)	**65**	02nd, 03rd & 04th Year / 03rd, 05th & 07th Semester	All Degree	Mr.Prasanna (Co Founde r& CEO of Shikuya)
3	All Departments	4/12/2021	SAP Technology (Webinar)	**51**	02nd, 03rd & 04th Year / 03rd, 05th & 07th Semester	All Degree	Mr. S. Senthurapandian (Expert Trainer - DEXLER, Bangalor)
4	All Departments	10/12/2021	Tomorrow Harsh Reality (Webinar)	**45**	02nd, 03rd & 04th Year / 03rd, 05th & 07th Semester	All Degree	Mr. G. Gorge (Founder - Shashwat Gyan, Pune)
5	All Departments	07/03/2022 to 09/03/2022	Soft Skills Devepoment Program	**60**	04th Year / 08th Semester	All Degree	Mr. G. Gorge (Founder - Shashwat Gyan, Pune)
6	All Departments	10/03/2022 to 12/03/2022	Life Skills Devepoment Program	**60**	04th Year / 08th Semester	All Degree	Mrs. Reena & Ms. Nikita (Trainer - Global Talent Track)

List of Events Conducted under Career Guidance Facility

Academic Year : 2019 - 2020

Sr. No.	Date	Topic	Number of Participants	Year / Semester	Participants	Resource Person

1	26/05/2020 to 26/06/2020	Product Design Engineering	28	Final Year / 08th Semester	Mechanical	Mr. V. B. Maner (Yashoda Technical Campus, Satara)
2	16/10/2019	Steam Nozzles and Steam Turbines	36	03rd Year / 05th Semester	Mechanical	Mr. Amol P Yadav (JSPM - Narhe, Pune)
3	9/11/2019	Network Analysis & Synthesis	23	02nd Year / 04th Semester	Electrical	Dr. A. M. Mulla (DACOE, Karad)
4	03/03/2020 to 06/03/2020	Basic Fundamental of smart industrial automation using IOT & PCB Design	36	02nd & 03rd Year / 04th & 06th Semester	Electrical	Dr. Shaikh (Walchand College, Sangali)
5	22/08/2019	Estimating & Costing	25	03rd & 04th Year / 05th & 07th Semester	Civil	Mr. Milind Vasudev (Private Civil Contactor)
6	15/10/2019	Machine Learning	64	02nd, 03rd nad 04th Year / 03rd Sem, 05th, & 07th & Semester	Computer Science	Mrs. Dipali Ghatage (KBP College, Satara)
Academic Year : 2021 - 2022						
Sr. No.	**Date**	**Topic**	**Number of Participants**	**Year / Semester**	**Participants**	**Resource Person**
1	22/03/2022	Energy obtained from Water Resources and Environmental Awareness	43	03rd & 04th Year / 05th & 07th Semester	Mechanical	Mr. Soham Kulkarni (Co-Founder, Sagar Mitra Abhiyan)
2	16/12/2021	Mechatronics & its Career Opportunities	45	03rd & 04th Year / 05th & 07th Semester	Mechanical	Mr. Zende R. V. (DBATU, Lonere)
3	01/09/2021 to 15/09/2021	Analysis of Mechanical Element using ANSYS	45	03rd & 04th Year / 05th & 07th Semester	Mechanical	Mr. Nimbalkar P. P. & Mr. V. B. Maner (Yashoda Technical Campus, Satara)
4	01/09/2021 to 15/09/2021	Quality Improvement Tools in Manufacturing Industries	49	03rd & 04th Year / 05th & 07th Semester	Mechanical	Mr. Rathod M. L. & Mr. Borate R. B. (Yashoda Technical Campus, Satara)

5	15/09/2021	Implementation of Acedemic Knowledge in Industry	31	03rd & 04th Year / 05th & 07th Semester	Civil	Er. Shridhar Kashinath Inamdar (Private Civil Contractor)
6	01/09/2021 to 05/09/2021	Building Lineout	20	02nd & 03rd Year / 03rd & 05th Semester	Civil	Mr. Shaikh A. N. (Yashoda Technical Campus, Satara)
7	14/6/2022	Hands on PHP	25	02nd & 03rd Year / 04th & 06th Semester	Computer Science	Mr. Ajinkya More (i-soft Solutions, Satara)
8	19/09/2022	Full Stack Development	29	02nd & 03rd Year / 04th & 06th Semester	Computer Science	Mr. Sanket Gharge and Mr.Shubham Mane (Tech Mahindra, Pune)
9	22/09/2022	Business Communication	35	02nd & 03rd Year / 04th & 06th Semester	Computer Science	Mr. Popat Patil (Yashoda Technical Campus, Satara)
10	10/1/2022	Discrete Mathematics	32	02nd & 03rd Year / 04th & 06th Semester	Computer Science	Miss Swati Rasal (KBP College, Satara)
11	17/10/2022	Project Domain Selection	41	02nd & 03rd Year / 04th & 06th Semester	Computer Science	Mr. Ravindra Patane (Creative Engineers Forum, Satar

9.6 Entrepreneurship Cell (5)

Total Marks 5.00

Institute Marks : 5.00

Even the greatest minds need a little push. The greatest of businessman (woman) started with help of someone who pushed them to their limits and became their stairway to success. We at ED Cell, Yashoda Technical Campus (YTC), want to do just that. With a mission of bringing like-minded groups of people together and put those ideas or opinions into action & thereby creating a start-up culture. We believe that ideas are more than enough to be a great entrepreneur. Just with some exposure they can be the best of the best. From the inauguration on 15th June 2019, we are adding stars on our shoulders, touching new heights every day.

ED Cell (Committee): 2022-23

Sl. No	Name	Designation & Dept	Post
1	Dr. T. R. Shinde	Asso. Prof, ME	Coordinator
2	Prof. A. B. Atpadkar	Asst. Prof, ME	Asst. Coordinator
3	Prof. Tushar Shende	TPO	Treasurer
4	Dr. Vivek Puranik	Prof., EE	Member
5	Prof. Kiran Jagtap	Asst. Prof, CSE	Member
6	Prof. K. R. Shinde	Asst. Prof. EnTC	Member
7	Prof. Ajinkya Shaha	Asst. Prof, CE	Member
8	Mr. Rohan Rajput	Alumni Entrepreneur	Member
9	Mr. Sahil Sawant	Alumni Entrepreneur	Member
11	Ms. Anam Narawade	Student	Member
12	Mr. Kaustubh Pathak	Student	Member
13	Dr. Duradundi Sawant Badkar	Principal	Member Secretary

Functions/Activities of Entrepreneurship Development Cell

1. Organize Entrepreneurship Development Programs (EDP) for the students and publics.
2. Conduct Entrepreneurship Awareness Camp (EAC) & workshop.
3. Conduct Business Plan Competitions.
4. Conduct lecturer session of successful entrepreneurs.
5. Mentor and assist them, who want to become entrepreneur.
6. Organize idea generation workshop
7. Invite speakers from Financial and Venture Capital institutions to enlighten on schemes and assistance existing to promote new ventures.

List of events conducted by ED Cell, Yashoda Technical Campus (YTC)

Sl. No	Event Date	Name of the Event	Number of Participants
Academic Year: 2021-2022			
1.	20/08/2021	“Entrepreneurship Development” Mr. Ranjeet Shevale	22
Academic Year: 2019-2020			
1.	16/08/2019	“Idea Generation” by Mr. Sandip Kanse	12
2.	20/10/2019	”Entrepreneurship Development” by Mr. Tejas Phase	18

Idea Generation by Mr. Sandip Kanse

Entrepreneurship Development" by Mr. Tejas Phase

Entrepreneurship Development, Mr. Ranjeet Shevale

List of Entrepreneurs

Sr. No	Name	Branch/Batch	Place	Nature Of Start-Up with Authorization Number	E-Mail ID	Mobile Number
1	Kalani Prashant Ashok	Mechanical/ 2017	Satara	Mechanical Workshop (27DBPPK9179DIZI)	mayurkalani@rediffmail.com (mailto:mayurkalani@rediffmail.com)	8149257414
2	Mulla Mohasin Shabbir	Civil/2019	Koregaon, Satara	Civil Construction (109031162103) Civil Construction	mullamohasin786@gmail.com (mailto:mullamohasin786@gmail.com)	9561425028
3	Zambare Shankar Sunil	Civil/2019	Satara	Civil Construction (UDYAM-MH-30-0011200)	shankarzambare@gmail.com (mailto:shankarzambare@gmail.com)	9175491634
4	Karanale Akshay Ashok	Civil/2019	Satara	Civil Construction (Nil)	karanalea@gmail.com (mailto:karanalea@gmail.com)	7709448179
5	Rokade Swati Ravindra	Civil/2019	Satara	Civil Construction (ADTP/SATARA/C-3/323)	swatirokade@gmail.com. (mailto:swatirokade@gmail.com.)	7798660809
6	Patil Vaibhav Shrirang	Civil/2019	Patan, Satara	Civil Construction (672/2020-21)	patilvaibhav5495@gmail.com (mailto:patilvaibhav5495@gmail.com)	9403816306
7	Kambale Rajat Suresh	Civil/2020	Koregaon, Satara	Civil Construction (1853/2022)	kamblerajat2517@gmail.com (mailto:kamblerajat2517@gmail.com)	9561406750
8	Kudale Pratik Vijay	Civil/2020	Man, Satara	Civil Construction (125/2017-18)	pratikkudale11@gmail.com (mailto:pratikkudale11@gmail.com)	9545177296
9	Jadhav Tejraj Sampatrao	Civil/2020	Umbaj, Satara	Civil Construction (798/2021-22)	tejraj120@gmail.com (mailto:tejraj120@gmail.com)	916891363
10	Jagadale Ranjit Bhanudas	Civil/2020	Koregaon, Satara	Civil Construction (98/2020-21)	ranjitjagdale1997@gmail.com	7755994042
11	Bhilare Shubham Mohan	Civil/2020	Karad, Satara	Civil Construction (984/2022-23)	shubhambhilare2311@gmail.com	9561235773
12	Bhosale Vinod Pawan	Civil/2020	Satara	Civil Construction (Nil)	vinod00000@gmail.com	7775944275
13	Chavan Rohit Dipak	Civil/2020	Satara	Civil Construction (20/2021-2022)	rohitchavan2543@gmail.com (mailto:rohitchavan2543@gmail.com)	8975400429

14	Saroj Shivaji Ramchandra	Civil/2021	Satara	Civil Construction (27AERFS3817C1ZU)	shivajisaroj1432@gmail.com (mailto:shivajisaroj1432@gmail.com)	9922203538
15	Gharge Dhanraj Pramod	Civil/2021	Satara	Civil Construction (65/2022-23)	deshmukhdhanraj007@gnail.com (mailto:deshmukhdhanraj007@gnail.com)	8600082727
16	Bhosale Suraj Balu	Civil/2021	Satara	Civil Construction (4/2022-23)	surajbhosale672@gmail.com (mailto:surajbhosale672@gmail.com)	7038334748
17	Surve Ajinkya Sanjay	Civil/2021	Satara	Civil Construction (Nil)	ajinkyasurve255@gmail.com (mailto:ajinkyasurve255@gmail.com)	8380804105
18	Bhosale Pranay Dattatraya	Civil/2021	Patan, Satara	Civil Construction (398/2018-19)	pranaybhos961998@gmail.com (mailto:pranaybhos961998@gmail.com)	9112151196
19	Patil Rohit Eknath	Civil/2021	Radhanagari, Kolhapur	Civil Construction (5/264/2022)	rp79344@gmail.com (mailto:rp79344@gmail.com)	8975897172
20	Landge Sikandar Shahid	Mechanical/ 2021	Kolhapur	Smart Mobility E- Car (27AAHCT9811GIZ3)	shahidd290@gmail.com (mailto:shahidd290@gmail.com)	8888707887

9.7 Co-curricular and Extra-curricular Activities (10)

Total Marks 10.00

Institute Marks : 10.00

REPORT ON NSS ACTIVITIES

Sl. No.	Date	Name of the Event	National/ State/ Institute/ Dept.	Participants	Mode
1	30/10/2021	National Unity Day	Institute	22	Offline
2	14/01/2022	Fit India and Voters awareness	Institute	45	Online
3	08/03/2022	Women's Day	Institute	55	Offline
4	22/03/2022	Environment Preservation Awareness	Institute	63	Offline
5	11/04/2022	Project Exhibition Report	Institute	46	Offline
6	06/06/2022	Education Policy	Institute	48	Offline

1. NSS ACTIVITY, National Unity Day Report, Date: 30 Oct.2021

Yashoda Technical campus, Faculty of Engineering observed the celebration of the National Unity day on 30 October 2021, on the occaision of 146th Birth Anniversary of Mr. Vallabhbhai Jhaverbhai Patel (31 October 1875), popularly known as Sardar and also Iron Man of independent India . He was an Indian statesman. He served as the first deputy Prime Minister of India from 1947 to 1950. He was an Indian barrister and a senior leader of the Indian National Congress who played a leading role in the countrys struggle for independence and guided its integration into a united, independent nation. This event was organized by Faculty of Engineering wing of YTC, Satara. Mr. Borate P. G. and Mr. Shah A.S. from Civil Engineering Department were worked as Faculty coordinators for this programme who have arranged this programme and conducted the programme smoothly from start to end with thanking to all present audience and dignitories. Campus Director Dr. Mr. V. K. Redasani sir, in presence of Honorable Vice President sir Mr. Ajinkya Sagare and YTC Engineering Wing Principal Dr. Mrs. R. P. Kulkarni madam addressed the Pledge of Unity to all present faculties and students.

2. Azadi ka Amrit Mahotsav, under NSS Activity 14 January 22 Actions@75-FIT INDIA-MASS SURYANAMASKAR

To celebrate, Azadi ka Amrit Mahotsav-India @ 75, Ayush Mantralay, Government of India has organized Mass Virtual Surynamaskar performance with 75,00,000 people across the world on 14th January 2022, under NSS activity. Yashoda Technical Campus registered for the event. 221 students and faculty members participated in the event including director, principal and head of departments. Each person performed 25 suryanamaskars each. The program was aimed towards creating awareness about fitness amongst the youth. Dr. R.P. Kulkarni, Principal, Faculty of Engineering provided training for Surynamaskar. Video link of the event: https://drive.google.com/file/d/115zndg8V1stiM1zPaQHFbbK5LV7B7Y5/view?usp=sharing. (https://drive.google.com/file/d/115zndg8V1stiM1zPa%20QHFbbK5LV7B7Y5/view?usp=sharing)

3. Azadi ka Amrit Mahotsav Activity Report 8th March 2022, Actions@75 International Women's Day

Team Azadi ka Amrit Mahotsav-India @ 75, and Sweep Cell of Yashoda Technical Campus,Satara celebrated International Women's Day on Tuesday, 08/03/22.. On this occasion, different activities like poster Presentation, Quiz Competition and Video making Competition were conducted. Mrs.Kamakshi J.Barve Proprietor of YOUTHOPIA , Director Barva Naturals, was the chief guest of the programme. Ms. Gade P.S. introduced the guest. Director Dr. Redasani, felicitated the guest, Mrs.. Jadhav S.S expressed vote of thanks. Ms. Muskan (FYCSE) anchored the program. Ms. Shinde P.V. and Mr.Shaikh A.N coordinated the activity under the guidance of Dr. R. P. Kulkarni. Asso. Director R. D. Mohite, all Heads of the departments, faculty members and students of YTC were present for the program.

4. Environment Preservation Awareness Session under NSS AND Azadi Ka Amrit Mahotsav Report Date: 22nd March 2022, Time: 11:00 AM

As a part of celebration of Azadi ka Amrit mahotsav, Faculty of Engineering arranged a guest lecture on Environmental Preservation Awareness on Tuesday, 22/02/22. Mr. Soham Kulkarni and Mr. Akshay Puranik from Sagar Mitra Abhiyaan presented the dangers caused by neglegent disposal of plastic and its recycling. The students were informed about the work carried out by Sagar Mitra along with Swechhandi, V care and Robinhood army. Mr.Soham Kulkarni shared his thoughts about plastic accumulating in our oceans and on our beaches has become a global crisis. Billions of pounds of plastic can be found in swirling convergences that make up about 40 percent of the worlds ocean surfaces. Plastics pollution has a direct and deadly effect on wildlife. Thousands of seabirds and sea turtles, seals and other marine mammals are killed each year after ingesting plastic or getting entangled in it. Sagar Mitra have solution on this waste plastic. Student took pledge about reducing the usage of plastic in day to day life. Director Dr. V. K. Redasani, Mr. R. D. Mohite, Dr. Mrs. R. P. Kulkarni and all the staff members of Engineering and Pharmacy alongwith Engg and pharmacy student were present for the lecture. Mr. P.P. Nimbalkar coordinated the activity. Mr. P. G. Borate concluded the program with vote of thanks.

5. Azadi ka Amrit Mahotsav Activity Report March 22, Ideas@75- Project Exhibition

To celebrate, Azadi ka Amrit Mahotsav-Ideas @ 75, Yashoda Technical Campus Satara, organized Project Exhibition to create awareness about Digital India on 11/04/2022. In this Project Exhibition 16 groups are participated from various departments like Electrical, Civil, Mechanical, CSE, ETC and Pharmacy. Some students created demo projects of innovative ideas and some groups are shared their innovative ideas through posters. Four groups are impressed all through their innovative ideas. First project is Automatic Car Parking system using Arduino, where students used IR at the Entry Point, Parking Slots and Exit Point. By using these sensors they displayed availability of parking slot to LCD display.

6. Education Policy Session under Azadi Ka Amrit Mahotsav, Report, Date: 06th June 2022, Time: 11:00 AM

As a part of celebration of Azadi ka Amrit mahotsav, Yashoda Technical Campus arranged a guest lecture on Education Policy on Monday, 06/06/2022. Prof. R.D.Mohite introduce and felicitate the guest by hands Cheirman Hon D.B. Sagare sir. Chief Guest Dr.Abhay Wagh Director, Directorate of Technical Education, Maharashtra State, and Mumbai deliver the speech on previous education policy and current new National Education Policy in India. The National Education Policy (NEP) 2020 was released on July 30, 2020. The Ministry of Human Resource Development (MHRD) had constituted a Committee for drafting the National Education Policy in June 2017. Dr. Abhay Wagh says Education is fundamental for achieving full human potential, developing an equitable and just society, and promoting national development. Providing universal access to quality education is the key to India's continued ascent, and leadership on the global stage in terms of economic growth, social justice and equality, scientific advancement, national integration, and cultural preservation. Universal high-quality education is the best way forward for developing and maximizing our countrys rich talents and resources for the good of the individual, the society, the country, and the world. India will have the highest population of young people in the world over the next decade, and our ability to provide high-quality educational opportunities to them will determine the future of our country.

REPORTS ON SPORTS ACTIVITIES

Institute is very much enthusiastic to promote sporting activities among the students as we believe that "A healthy mind Lives in a Healthy body only".

Yashoda Shikashan Prasarak Mandal`s Yashoda Technical Campus at NH 4 highway wadhe Satara. Satara is well known city having history from ancient period before Shri Chatrapati Shivaji Maharaj time. Satara is known for various fields in which can be counted. India got first Individual Olympic medal in Wrestling by Late Khashaba Jadhav .

Also our visionary Founder President Hon. Mr. Dasharath Sagare Sir is concerned with Sports Field. Due to his keen interest in sports and constant motivation we could organize and participate in various tournaments with great enthusiasm and have showed our good performance in various Sports organized by Shivaji University, Dr.BATU, IEDSSA in Satara Zonal Sports though.

Our Campus is having various constitutions. Gymkhana Committee has also been established for development in sports. According to our Academic calendar we decided and organized various programs as well as participated in various Sports events. We arrange blood donation camps and health awareness programs.

Independence Day and Republic Day was celebrated with great enthusiasm as usually.

On occasion of **Major Dhyanchands** Birth Anniversary our national sports day 29th August was celebrated by having Intramural Carrom Meet.

Campus has active participation and performance in various zonal sports tournament such as Volleyball, Cricket, Badminton, Chess, Kho-Kho, Football and Athletics. We perform more than good due to regular practice and motivation by our Management.

From 2012 Yashoda campus has organized marathon various subjects for social cause such as “Save Girl child”, “Run for youth empowerment”, “Run for green earth”

Infrastructure:

1. **Cricket Ground.**
2. **Football Ground.**
3. **Mallakhamb**
4. **Athletics**
5. **Kho-Kho**
6. **Kabaddi**
7. **Archery**
8. **Volleyball Court**
9. **Basketball Court**
10. **Central Gymnasium**
11. **Badminton**
12. **Indoor sports activities**

    a. **Carrom**
    b. **Chess**
    c. **Table tennis**

13. **Others sports & Games**

Events:

1. **Zonal Cricket Tournament**
2. **Zonal Football Tournament**
3. **Zonal Volleyball Tournament**
4. **Zonal Athletics**
5. **Zonal Badminton & Chess Tournaments**
6. **Yashoda Marathon**
7. **Annual Sports.**

Cricket

Rope Mallakhamb

Athletics

Mallkhamb

Yashoda Marathon

Yashoda Marathon and Prize Distribution Yashoda Marathon

Volley Ball

Annual Sports Volley Ball

Basket Ball

Basket Ball

Football

Kabaddi

	
Football	**Football**

For conduction of different sets of co-curricular and extra-curricular activities institutes has different chapters, membership and societies which are as follows:

Year-Wise Activities

SN	Date	Name of the Event	Participants	National/ State/ Institute/ Dept.	Mode
1	29-06 2019	Expert Talk: Mr. Devendra Jagtap (Regional Manager) Bharti AXA General Insurance Company Ltd	Final Year	Institute	Offline
2	16-07 2019	Guru Pournima (Expert: Prof. Anil Bodhe)	All Students	Institute	Offline
3	16-07 2019	Importance of Health, Safety and Cleanliness by Mr. Yogesh Shinde (Project Manager)	All Students	Institute	Offline
4	20-07 2019	Induction program	Engineering Students	Institute	Offline
5	21-06 2019	Yoga Day	All	Institute	Offline
6	25-08 2019	Maratha Samajbhushan Award to Hon. Shri. Dasharathji Sagare Sir	All	National	Offline
7	30-08 2019	You are the Change! Be Real by Mr George	All	Institute	Offline
8	30-08 2019	Cyber Crime Seminar By Ajay Jadhav Head of Cyber Crime Cell- Satara District	All	State	Offline
9	19-9-2019	Engineers Day, 19th of Sept 2019, Photo Contest	All	Institute	Offline

10	20-9-2019	GATE Preparation Program	Final Year	Institute	Offline
11	31-8-2019	Fresher’s Day Celebration	All	Institute	Offline
12	01-09-2019	Preparation of Civil competitive exam & after joining work culture in Govt. Organization By Mr. Ganesh Suresh Kanase, Asst. Engg. Grade-II (Water Resource Dept.) (Govt of Maharashtra) (Working I/C of Urmodi Dam –Satara)	All	Institute	Offline
13	14-09-2019	Coffee with youth- Hon. Dr. Pramod Sawant, Chief Minister Goa	All	National	Offline
14	28-9-2019	Fresher’s Day	All	Institute	Offline
15	18-9-2019	Business Startup Fest	All Students	Institute	Offline
16	15-10-2019	Expert Lecture on “Machine Learning” by Mrs. Ghatge Dipali D.	All Students	Institute	Offline
17	26-11-2019	Indian Constitution day on 26th November 2019	All	Institute	Offline
18	30-09-2019	The paper College Competition event	All	Institute	Offline
19	12-01-2020	Annual Social gathering- Yashotsav 2020 (Chief Guest, Hon. Shri Vishwas Patil (Indian Author, Historian, Panipatkar))	All	Institute	Offline
20	06-01-2020	Annual Sports Day	All	Institute	Offline
21	26-01-2020	71st Republic Day	All	Institute	Offline
22	19-02-2020	Shiv Jayanti, the birth anniversary of Shivaji Maharaj Program	All	Institute	Offline
23	15-09-2021	Engineers Day Celebrating to give Tributes to Sir M. Vishveshryya	All	Institute	Online
24	16-09-2021 to 21-09-2021	5-Day Workshop on Arduino Microcontroller and Sensors,IOT. PCB Design and CKT Assembly	All	Dept	Offline
25	04-09-2021	23rd Convocation of Dr. Babasaheb Ambedkar Technological University, Lonere	All	State	Online
26	15-10-2021	13th YSPM Foundation Day	All	Institute	Online

27	30-10-2021	Vaccination drive	All	National	Offline
28	11-12-2021	Career opportunities in defense for engineering graduates program	All	Institute	Offline
29	16 & 17 -01-2021	Accreditation Process, Quality of Teaching Learning Process by Prof. Dr. Mrs. Mangal Hemant Dhend	All	Institute	Offline
30	10-01-2021 to 14-01-2021	5 days On-line Workshop on Incorporating Human Values in Education	All	Institute	Offline
31	08-03-2022	Team Azadi ka Amrit Mahotsav-India @ 75, and Sweep Cell of Yashoda Technical Campus,Satara celebrated International Womens Day Guest- Mrs.Kamakshi J.Barve Proprietor of YOUTHOPIA , Director Barva Naturals	All	Institute	Offline
32	12-03-2022	Effective generation of e-Teaching resources Resource person Dr. Mrs. Mangal Dhend from AISSMS Pune	All	Institute	Online
33	15-06-2022	Bridge Programme for the students of F.Y. B.Tech. in association with BOSCH Group Expert- Mr. Deepak Kulkarni	FY Students	Institute	Offline
34	6-6-2022	Shivrajyabhishek Din	All	Institute	Offline

Expert Talk:

Mr. Devendra Jagtap (Regional Manager)

Bharti AXA General Insurance Company Ltd

29-6-19

Guru Pournima

16-07 2019

Importance of Health, Safety and

Cleanliness by Mr. Yogesh Shinde (Project Manager)

16-07 2019

Yoga Day

21-06-2019

Maratha Samajbhushan Award to Hon. Shri. Dasharathji Sagare Sir on 25-08-2019

Expert lecture on You are the Change! Be Real by Mr. George on 30-08-2019

Cyber Crime Seminar By Ajay Jadhav Head of Cyber Crime Cell- Satara District

Engineers Day, 19th of Sept 2019, Photo Contest

GATE Preparation Program

Fresher’s Day Celebration 31-8-2019

Preparation of Civil competitive exam & after joining work culture in Govt. Organization

GATE Awareness program

Coffee with youth- Hon. Dr. Pramod Sawant, Chief Minister Goa

Coffee with youth- Hon. Dr. Pramod Sawant, Chief Minister Goa

Business Startup Fest

Expert Lecture on “Machine Learning” by Mrs. Ghatge Dipali D.

Indian Constitution day on 26th November 2019

The paper College Competition event

Annual Social Gathering 20-01-2020

Annual Sports Day 06-01-2020

Republican Day 26-01-2020

5-Day Workshop on Arduino Microcontroller and Sensors,IOT. PCB Design and CKT Assembly

The 23rd Convocation of Dr. Babasaheb Ambedkar Technological University, Lonere

13th YSPM Foundation Day

Accreditation Process, Quality of Teaching Learning Process workshop

Womens Day

Effective generation of e-Teaching resources workshop

Shivrajyabhishek Din 06-06-2022

Bridge Programme for the students of F.Y. B.Tech. in association with BOSCH Group Expert- Mr. Deepak Kulkarni on 15-06-2022.

10 GOVERNANCE, INSTITUTIONAL SUPPORT AND FINANCIAL RESOURCES (120)

Total Marks 120.00

10.1 Organization, Governance and Transparency (40)

Total Marks 40.00

10.1.1 State the Vision and Mission of the Institute (5)

Institute Marks : 5.00

Vision :

YTC, Satara looks forward to become a globally renowned institute of centre of excellence in technology and management education for rural community for technical and professional knowledge

Mission :

1. To achieve the quality and an academic excellence in the frontier engineering areas and management relevant primarily to the nation.
2. To train and produce the highly skilled and globally competent professionals through quality technical education and to prepare them with industry ready engineers for immediate employment and entrepreneurship.
3. To inculcate and develop the research culture can be attributed to quality outputs in terms of research practices and products.
4. To develop the professionals having high values of ethics, lifelong learning, teamwork, leadership and social responsibility.
5. To enhance and empower the rural community by improving the productivity of the agricultural sector.

10.1.2 Governing body,administrative setup,functions of various bodies,service rules, procedures, recruitment and promotional policies (10)

Institute Marks : 10.00

Governance is the key activity that keeps a connection between the management, staff, students and the community. The institution has a governing body in place wherein the members are drawn from distinguished cross-section of the society following AICTE guidelines.

Details of the members of the governing body are mentioned in the following table.

Sr. No.	Name of the Member	In the Capacity of	Designation
1	**Prof. D. B. Sagare** President, YSPM, Satara	Management Representative Nominated by Registered Trust	Chairman
2	**Mrs. S. D. Sagare** Secretary, YSPM, Satara	Management Representative Nominated by Registered Trust	Member
3	**Prof. A. D. Sagare** Vice-President, YSPM, Satara	An Educationalist Nominated by Registered Trust	Member
4	**Dr. Ajeet Singh** Regional Officer , AICTE, WRO, Mumbai	Nominee of AICTE, New Delhi	Member
5	**Nominee**	Nominee of DBATU University, Lonere	Member
6	**Dr. Abhay E. Wagh** Director of Technical Education	Nominee of State Govt. Director of Technical Education	Member
7	**Dr. H. N. More** Principal and Professor, Bharati Vidyapeeth College of Pharmacy	An Educationist nominated by Registered trust	Member
8	**Mr. Dhananjay M. Patil** GRINSON'S PHYTOHERB IND. PVT. LTD	An Industrialist from the Region nominated by the State Government	Member
9	**Mr. Saurabh S. Wathare** Co-Founder, Wathare Infotech Solutions	A Technologist nominated by Registered trust	Member
10	**Dr. Tarang Shinde** HOD, Deptt of Mechanical Engg	Teacher Representative	Member
13	**Dr. Dr. Duradundi Sawant Badkar** Principal, Yashoda Technical Campus, Satara	Principal, Yashoda Technical Campus, Satara as a Nominee of trust	Member Secretary

BoG meeting is held quarterly in every Academic session. In case of exigency Board meetings are organized with the recommendation from the Chairman, BoG.

Functions of BoG

Terms of office of Members of Board:	The terms of the office of all the members shall be two years.
Meeting(s):	At least four times a year
Function of the Board of Governors:	a. The Governing Body of the institute shall be responsible for the general superintendence, direction and control of affairs of the institute and shall exercise all the powers of the institute. b. Without prejudice to the provisions of sub-section, Governing Body shall 1. Take all decisions on questions of policy related to the administration of the institution. 2. Propose and approve different courses of studies in the institution. 3. Make plan and appoint different cadre for academic as well as other posts of the institution. 4. Make and approve the service rule of the institution. 5. Supervise, guide and approve proposals of various committees such as Academic Committee, Finance Committee, Purchase Committee etc. 6. Consider and approve resolutions on the annual report, the accounts and the institute's budget. 7. Have the power to perform such other duties and appoint such committees as it considers necessary and deemed fit for proper development and conservation of academic standard and reputation of the institute. 8. Introduce scholarships, fellowships, medals and certificates on the recommendations of the appropriate committees. 9. Consider reward and promotion of the faculty member(s) and staff on recommendation of the appropriate committees. 10. Review project implementation in progress and give guidance for achieving project goal and target. 11. Develop strategies for creating the ambience for excellence. 12. Suggest measures for enhancing the reach and effectiveness of services to community and industry. 13. Ensure institutional accountability and compliance with policy reforms.

Administrative set up

The institute enables a perfect decentralization of activities and entrustment of authorities for different functions. Entire administration procedures remain primarily focused on students, who are heart & soul of the system, though they do not take part directly to the administration process. Involvement of each and everyone in the decision-making and the transparency associated therein also form the important features of the work culture of the institute. The institute functions with perfect decentralized administration as depicted in the Organizational Structure.

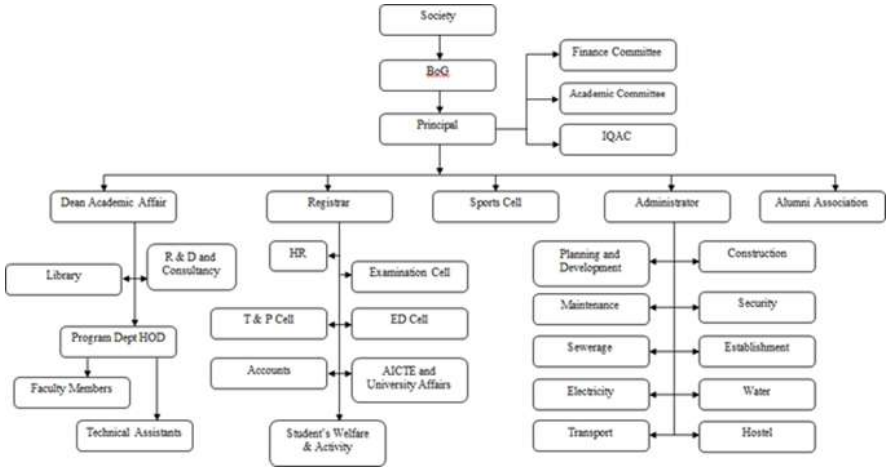


Figure. Organizational Structure

Structure and Functions of various bodies/committee

Academic Committee

Committee structure	Function	Frequency of meeting

• Chairperson: Principal • Convener: Senior Faculty Member	• To exercise general supervision over the academic work of the Institute and to give direction regarding methods of instructions, evaluation or research or improvements in academic standards. • To promote research within the Institute, acquire reports on such researches from time to time. • To consider matters of academic interest either on its own initiative or at the instance of the Board of Governors and to take proper action thereon. • To make arrangements for the conduction of examinations in conformity with the by-laws. • To maintain proper standards of the examination. • To suggest measures for departmental co-ordination. • To make recommendations to the Board of Governors on: • Measures for improvement of standards of teaching, training and research. • Fellowships, Scholarships, Medals, Prizes etc. • By-laws covering the academic functioning of the Institute, discipline, residence, admissions, examinations, award of fellowships and studentship, free ships, concessions, attendance etc. • To appoint sub-committees for providing advice on such specific matters and may be referred to by the Board of Governors. • To consider the recommendations of the sub-committees and to take action accordingly (including making of recommendations to the Board of Governors) as the circumstances on each case may require. • To take periodic review of the activities of the Department / Centers and to take appropriate action (including making of recommendations to the Board of Governors) with a view to maintain and improve the standards of instruction. • To exercise such other powers and perform such duties as may be conferred to or imposed upon by the rules and by-laws. • To recommend creation of Teaching posts, Professors, Associate Professor and Assistant Professors to the Board of Governors. • To finalize academic calendar and holiday list.	1. The Academic Committee shall meet as often as may be necessary but not less than two times during a semester. 2. Chairperson may convene a meeting as and when she/he deems fit without any prior notice.

Finance Committee

Chairperson: Principal Convener: Registrar Member: Administrator Member: One/Two Senior Faculty Member Member: BoG Nominee Finance Officer: Head, Accounts	• Budget preparation and Fiscal Planning. • Budget Allocation. • Recommend the Budget to the BoG for approval. • Re-appropriation of funds of different Heads of the Budget with approval of the BoG. • Budget estimates relating to the grant received/receivable from UGC, and income from fees and other sources collected for smooth operation of the college. • Advise the BoG on any matter involving finance, if asked for sources collected for smooth operation of the college • Advise the BoG on any matter involving finance, if asked for.	The Finance Committee shall meet as often as may be necessary but not less than one time annually. Chairperson may convene a meeting as and when she/he deems fit without any prior notice.

Grievance Redressal Committee (GRC)

1. Chairperson: Principal 2. Convener: One Senior Faculty Member 3. Member: Two Senior Faculty Members (One Female) 4. Student Members: One	1. To enlist the grievances of the students & staff and to initiate corrective measures immediately. 2. To provide all sorts of information to the students & guardians. 3. To ensure creation of staff-students" friendly atmosphere. 4. To report intermittently to the BoG on the action taken for mitigating the grievances received by the committee. 5. To function under overall control & guidance of the BoG 6. Any other function as may be 7. entrusted by the BoG from time to time	The Grievance Redressal Cell shall meet as often as may be necessary but not less than one time annually. Chairperson may convene a meeting as and when she/he deems fit without any prior notice.

Anti-Ragging Committee

1. Chairperson - Principal (Ex-officio) 2. Convener - Registrar 3. Member - Administrator 4. Members –Two or Three HoDs of Academic Departments 5. Member – Representative of Police 6. Member - Representative of Civil Administration 7. Member - Representative from NGO 8. Member - Representative from local media 9. Member - Representative from parents 10. Member – One lady representative from Staff 11. Member - One male representative from Staff 12. Members - Hostel Warden and Asst. Wardens 13. Members - Four student members	1. To prevent ragging in the Institution. 2. To aware all about the punishment & cons of Ragging. 3. To ensure all take the anti-ragging oath. 4. To make ragging 5. free environment in and around the campus of the institution 6. To tackle the cases of ragging in the Institution. 7. To maintain relevant records properly. 8. Any other function as may be entrusted by the BoG from time to time	1. The Anti- Ragging Committee shall meet as often as may be necessary but not less than one time annually. 2. Chairperson may convene a meeting as and when she/he deems fit without any prior notice.

Internal Complaints Committee (ICC)

1. Presiding Officer: One Senior Lady Faculty 2. Members : Two Senior teaching and two non-teaching staff members (female) 3. Members: Three student nominees	1. To deal the matter related with Prevention and Prohibition of Sexual Harassment of Women Employees and Students and Redressal of Grievances 2. To organize training/orientation/ awareness program 3. for gender sensitization and process for complaint settlement	1. The Internal Complaints Committee shall meet as often as may be necessary but not less than one time annually. 2. Presiding officer may convene a meeting as and when she/he deems fit without any prior notice.

Library Committee

1. Chairperson : Principal 2. Convener: Librarian (Ex-officio) 3. Members: One faculty from each academic department	1. To ensure proper functioning of the library. 2. To ensure accessibility of Books/Journals as per requirement of the student and faculty. 3. To ensure that e-library facilities are available for use. 4. To ensure accessibility & enhancement of resources of digital library. 5. To arrange for keeping library open as per need of the student/faculty members. 6. To function under overall control and guidance of the BoG. 7. Any other function as may be assigned by the BoG from time to time.	1. The Library Committee shall meet as often as may be necessary but not less than once in every three months. 2. Chairperson may convene a meeting as and when she/he seems fit without any prior notice.

Internal Quality Assurance Cell (IQAC)

1. Chairperson: Principal 2. Member: Five senior faculty members and one senior administrative official 3. Member: Two external experts on Quality Management/ Industry/Local Community: 4. Member Secretary: Director/Coordinator	1. Development and application of quality benchmarks. 2. Parameters for various academic and administrative activities of the institution. 3. Enabling the creation of a learner- centric environment favourable to quality education and faculty development, to adopt the required knowledge and technology for learner centered, interactive teaching and learning process. 4. Gathering and analyzing of feedback from all stakeholders on quality-related institutional processes. 5. Broadcasting of information on various quality parameters to all 6. Stakeholders. Organization of inter and intra institutional workshops, seminars on quality related themes and promotion of quality circles. 7. Documentation of the various programmes/activities leading to quality upgrading. 8. Performing as a nodal agency of the Institution for coordinating quality-related activities, including adoption and spreading of best practices. 9. Growth and conservation of institutional database through ERP for the purpose of maintaining /enhancing the institutional quality. 10. Periodical conduction of Academic and Administrative Audit and its follow-up. 11. Preparation and submission of the Annual Quality Assurance Report (AQAR) as per guidelines and parameters of NBA/NAAC.	1. The Internal Quality Assurance Cell shall meet as often as may be necessary but not less than two times during a semester. 2. Chairperson may convene a meeting as and when she/he deems fit without any prior notice.

Industry Institute Partnership Cell/ IIC

1. Chairperson: Principal 2. Chief Coordinator - One Senior Faculty 3. Members of Advisory Committee: Registrar, All HoDs, Two Industry Persons 4. Members of Marketing Committee: 3 senior faculty members	1. Enrolment of Industry personnel for academic exchange. 2. Find out future investors / collaborators in various departments of the college. 3. Organize quarterly department specific industry institute meeting & finalize sponsors for the same. 4. Setup Centre of Excellence. 5. Bring and execute consultancy projects for various departments. 6. Testing and assuring quality/ strength for various industry products.	1. The IIC shall meet as often as may be necessary but not less than onetime annually. 2. Chief Coordinator may convene a meeting as and when she/he deems fit without any prior notice.

R & D Committee

1. Coordinator: One HoD/senior faculty member 2. Members: Faculty members having ample of research experience	1. AICTE, DST, etc. by involving all faculty members. 2. Maintaining report of all research related activities, copy of publications, copy of project proposal etc. 3. Any other function as may be entrusted by the BoG from time to time.	1. The R & D Committee shall meet as often as may be necessary but not less than twice in a year. 2. Coordinator may convene a meeting as and when she/he deems fit without any prior notice.

Admission Committee

1. Convener: Registrar 2. Admission In Charge/Coordinator: One Senior Faculty Members 3. Members: Faculty Members / TA / Office staff.	1. To look after the promotional activities for admission. 2. To provide all sorts of information regarding admission to the concerned students & guardians. 3. To facilitate the admission process properly. 4. Any other function as may be entrusted by the BoG from time to time.	1. The Admission Committee shall meet as often as may be necessary but not less than one time annually. 2. Convener may convene a meeting as and when she/he deems fit without any prior notice.

Sports Committee

1. Sports InCharge/Coordinator 2. :One Senior Faculty Member 3. Members: Faculty members and TA are nominated as Coordinator of different sports. Faculty member/TA /students (co- opted). 4. Physical Director: Head Coach	1. To conduct annual sports & games in the Institution. 2. To organize regular practice of sports & games for the students and to ensure their better performance. 3. To take initiatives regarding the participation of the institution in Inter-college competitions etc. 4. Any other function as may be entrusted by the BoG from time to time.	1. The Sports Committee shall meet as often as may be necessary but not less than one time annually. 2. Chairperson may convene a meeting as and when she/he deems fit without any prior notice.

Cultural Committe

1. Convener: 2. One Senior Faculty Member. 3. Members: Representatives from Faculty members/TA/ other staffs / students	1. To conduct all types of cultural programmes throughout the year in the Institution. 2. To encourage students" participation in the various cultural programmes of the college. 3. To take initiatives for the participation of the institution in Inter-college competitions etc.	1. The Cultural Committee shall meet as often as may be necessary but not less than one time annually. 2. Convener may convene a meeting as and when she/he deems fit without any prior notice.

Women Cell

1. Coordinator: One Senior Faculty (Female) 2. Member1: At least 4 teaching faculty (female) 3. Member2: Technical staffs (female) 4. Member3: At least 1 non- teaching staff (female) 5. Member: 2 students" representative (female)	1. To aware about the different schemes for students (female) 2. To deal with the issues related with women (not at purview of ICC) 3. To arrange different programs related to women.	1. The Women Cell shall meet as often as may be necessary but not less than once in a semester 2. Coordinator may convene a meeting as and when she/he deems fit without any prior notice

Functions of Key Administrative Positions

Positions	Functions
BoG	1. Take all decisions on questions of policy related to the administration of the institution. 2. Propose and approve different courses of studies in the institution. 3. Make plan and appoint different cadre for academic as well as other posts of the institution. 4. Make and approve the service rule of the institution. 5. Supervise, guide and approve proposals of various committees such as Academic Committee, Finance Committee, and Purchase Committee etc. 6. Consider and approve resolutions on the annual report, the accounts and the institute's budget. 7. Consider reward and promotion of the faculty members and staff on the recommendation of the appropriate committees. 8. Review project implementation in progress and give guidance for achieving project goal and target. 9. Develop strategies for creating the ambience for excellence. 10. Suggest measures for enhancing the reach and effectiveness of services to community and industry. 11. Ensuring institutional accountability and compliance with policy reforms.
Principal	1. The Director/Principal shall be the chief academic and administrative Head of the College. 2. Policy planning and leadership. 3. Communicating the Vision, Mission, Objectives and all Policy of the authority to all employees of the Institution. 4. Implementation of the directions of the BOG / Society 5. Total Administration of the Institution. 6. Fixing parameters and goal sheets for the teaching and non- teaching employees 7. Monitoring and evaluation of Teaching, Research, Publication, Real knowledge application etc. 8. Close participation in the process of performance evaluation of employees. 9. Personal involvement in Teaching, Research, Publication, Real knowledge application as per norms. 10. To monitor & follow up the proceedings of meeting of the Departmental committee & activities. 11. To monitor & follow-up the proceeding & activities of all the college committee, cells such as faculty / student, faculty / HOD, HOD / Principal interfaces to ensure that all issue are addressed timely and properly for the best interest of the students. 12. Principal will actively participate in Teaching, Research, Publication, 13. Monitoring of the student's feedback systems duly authenticated by respective HODs. 14. To monitor and ensure that all relevant data are duly uploaded in ERP portal. 15. Any other responsibility given by the Authority / Society

Dean Academics	• Preparation of the academic almanac, monitoring the progress of class work, syllabus coverage, student counseling/mentoring, directing and supervising student activity programs. • Helping faculty in planning effective remedial instruction. • Managing and evaluating instructional support program. • Inviting faculty members from all departments to be mentors • Maintaining proper records for each of the mentors with complete details of their experience, subjects of their specialization, their research interests, publications, authorship of books, projects guided at PG and PhD levels, consultancy experience etc. • Preparing subjects-wise specialization of faculty list in all the subjects • Maintaining an up-to-date record of mentee faculty list • Guiding younger faculty in identifying their fields of interest • Maintaining an up-to-date database of career opportunities for teaching community with information on qualification and skill up-gradation opportunities • Liaison with the Heads of the departments to update the list of mentees and mentors from each department Monitoring and promoting R & D activities in the institution. • Developing a strong association with industry, research and consultancy establishments and signing Memorandum of Understandings aimed at improving specific strengths of the college. • Identifying the newly inducted faculty for orientation programs and plan for them in every semester. • Serving as an instructional coach. • Creating professional development opportunities for all. • Motivating faculty and others. • Identifying unique leadership capabilities of teachers and others and match them with leadership opportunities. • Mentoring others and identifying others with mentoring capabilities • Any other function that may be assigned by the HOI from time to time. • Oversee all the construction activities • Supervise the security and housekeeping staff • Supervise the maintenance work / water supply / electricity • Advice on each development work of college • Determining the need and planning for facility maintenance, and renovation expansion. • To ensure overall administration of all hostels. • To establish coordination with Chief Warden/Assistant Warden of various hostels for smooth running of day-to-day routine work of hostel.

Registrar	• Assists the Principal (HOI) in administering and leading the college within the policy framework developed by the College Academic Committee. • Supervises at the directives of the HOI, and assists in the completion of administrative details and tasks required to maintain an efficient operational pattern for the college. • Maintaining all records pertaining to students, faculty and staff • Developing job descriptions for faculty and other staff by emphasizing a candidate's knowledge, skills, values, and commitment. • Completing the student admission process of all programs of the college. • Ensuring effective utilization of transport of students, staff, and faculty members. • Ensuring safety and security to all in the institute. • Promoting multicultural interactions and understandings among students, staff, and faculty members. • Acts as a link between students, alumni and the employers. • Planning, directing, scheduling and coordinating in-service training program for non- technical and non-teaching staff. • Supervising and evaluating administrative personnel. • Maintaining student mentoring systems. • Interacting with parents and other citizens. • Preparing information to be disseminated to parents, students, other stakeholders and public. • Preparing special reports and bulletins for general distribution. • Determining the need and planning for facility maintenance, and renovation expansion. • Determining specifications for equipment and suppliers. • Inventorying and distributing supplies and equipment. • Preparing reports/grant applications for AICTE,DTE, University, etc.

HoDs	• The Head of every Department shall act under the General supervision and Control of the Director / Principal of the College and his duties and function shall be to administer the academic and administrative affairs of the Department concerned in accordance with the guidance of the Director/Principal and as per the policy of the authority. • HODs will actively participate in Teaching, Research, Publication, Real world knowledge application and administrative work in the departments. • In addition to the allotment of classes to the teachers, he / she shall assess the workload of the teachers, lab Instructors and other technical persons in the department, requirements of staff members etc. He / She shall also maintain a liaison with the other departments. He / She shall keep vigil about the quality teaching in every theoretical & practical subject as per syllabi of the University. The HOD shall ask the teachers to prepare lesson planning on each subject and he / she shall monitor whether the scheduled is maintained. He / She shall prepare a list of the equipment, books etc. well before the beginning of the semester and forwarded straight to the Director/Principal for early procurement. He / She shall take care of conducting all the examinations, evaluation methods, keeping all records of examinations as per regulations under the guidelines of the Director/Principal. In any case of urgency or anything related to academic affairs which are not mentioned above the HOD shall take advice from the Director/Principal and shall take necessary steps. • As a part of academic affairs, the HODs will impart knowledge to the students by taking classes, to take tutorial and remedial classes on regular basis, need based laboratory development and Lab classes, conducing evaluation of the students and so on. • As part of Real-world knowledge Application, HOD shall encourage consultancy and project work amongst faculty members as per norms in consultation with the Director/ Principal. The said activities, progress and achievement are recorded in the meeting of the Departmental Committee. HOD will also ensure that at least one seminar of State level is organized by the College in each semester. HOD will also ensure that Faculty members are engaged in development of quality. • study materials, course materials, lesson plan, model question, answer etc on regular basis and those are uploaded into MIS Server of the College. Total implementation of online teaching learning process with full participation of the faculty members and all sections of students. • HOD will also ensure that senior faculty members hold regular (i.e., two meetings in each semester) interaction with Class Representatives (CR) to resolve ongoing issues and healthy student-teacher relationship is maintained with all dignity. • HOD will provide effective leadership towards industry Institution partnership. Organization of special lectures, seminar, workshops by the industry professionals for total development of the future professionals. • HOD will give advice & suggestion regarding purchase and preservation in the Departmental Library of books or other resources pertaining to his sphere of learning to the Librarian. • As far as management of the academic affairs of the Department concerned, he shall act in consultation with Departmental Committee, The Departmental Committee shall meet at least once in a month, which shall be convened by the Head of the Department concerned with the agenda and the time of the meeting being decided upon in the preceding meeting so that no notice is circulated. The names of the members of the intra- departmental committee have to be submitted to the Director/ Principal at the beginning of each Semester. • Faculty/Teaching Skill Development Program to be planned by the HOD based on need analysis of all the concerned faculty and technical staff members. • HOD has to ensure that required data are duly uploaded in ERP portal by all the Faculty Members. • Any other responsibility given by the Director/Principal. • HOD shall encourage faculty members to do PhD and must involve themselves in research activities along with publication of research work.

T & P Officer	• The Training & Placement Officer will be responsible for all activities related to training of the students to enhance their interview winning skill in consultation with the Director / Principal and Head of the Central Placement Cell (if any), Registrar/ Administrative Officer, H.O.D. • The Training & Placement Officer will be responsible to keep close Co-ordination with the Director/ Principal and Head of the Central Placement Cell (if any), Registrar/ Administrative Officer and HOD. • The Training & Placement Officer shall maintain all database of the students necessary for placement of the students. • The Training & Placement Officer will take the initiative to make visit to different Companies in order to build up a good Industry institute relationship. • The Training & Placement Officer before taking any final decision shall always consult the Director/Principal and the Head of the Central Placement Cell (if any). • The Training & Placement Officer should keep the students informed about all activities of his/her Cell, which are related to students training & placement. • He/She will maintain all records needed by the corporate for placement of the students. • He/She will submit regular statement reports to the Director/ Principal regarding the expenditure in his/her Cell. • He/She will be ready to accept and execute any responsibility given by the Director / Principal or by the Head of the Central Training & Placement Cell in matters related to Training & Placement. • The Training & Placement Officer will report to the Director/Principal.
Librarian	• Librarian will Manage the planning, administrative and budgetary functions of library and information services including • Establish and implement library and information policies and procedures • The person will be responsible for procurement planning in consultation with respective HODs and the Director/Principal. • Develop and manage convenient, accessible library and information services. • Prepare and manage the budget for library and information services, technology and media. • Develop and manage cost-effective library and information services, technology and media. • Order materials and maintain records for payment of invoices. • Analyze and evaluate library and information services, technology and media service requirements. • Prepare reports related to library and information services, technology and media services, resources and activities. • Smooth & effective operation of the library. • Procurement planning in consultation with Director/ Principal and HOD • Software Implementation/up gradation. • Librarian will provide effective access to library collections and resources, maintain the organization of library materials. • Provide library services in response to the information needs of library users and perform other related duties. • Any other responsibility given by the Director /Principal and HOD.

Rules, procedures, recruitment, and promotion policies

Procedure for recruitment of staff members:

- All appointments: Permanent, contractual and temporary to fill up any category of post in the College shall be made by Director-Society on the recommendation of the Selection Committee to be constituted as per regulatory Norms.
- All new appointments required to be endorsed in the following meeting of the Board of Governors of the College.

- Part-time and/or Guest Faculty: The Principal of the Institution may from time to appoint, under exceptional circumstances, part-time and / or Guest faculty, fulfilling minimum norms, for handling theoretical sessions/lab / workshop assignments on honorarium basis that may be decided by the authorities.
- Direct Recruitment: As per regulatory norms and strictly on merit: For selection of faculty members and staffs, advertisements are to be notified in the Website of YSPM'S, Yashoda Technical Campus, Stara-415011, Maharashtra, India or in Newspaper. For appointment of any category of staff, a Selection committee is to be constituted as per norms for each position to select eligible candidates purely on merit, academic record and other eligibility criteria for each position.
- A Selection Committee is formed as per the norms of the regulatory body including the Subject expert. The selection committee will choose the candidates based on applicants and will recommend the best suitable for the post based on the post record and face to face performance. The Subject expert may include internal subject expert, i.e., expert from the College / or External subject expert which means expert form the other university / institutions of repute /Industry. The panel of the selected candidates will be valid for six months.
- Recommendation of Selection committee will be final subject to the approval of the BOG. In case, any kind of misinformation declared by the candidate is noticed even after the appointment or joining or confirmation of job, the appointment may be cancelled summarily depending upon the gravity and nature of the misinformation/ hiding of facts.
- Director-Society alone can issue the appointment letter. The new appointments may be in Scale or in consolidated basis for any posts case as per requirement, irrespective of others already in that post / similar post are in Scale or Consolidated pay
- Probation: An employee appointed either as a faculty or as a non-teaching staff shall remain on probation as may be defined in his appointment letter. Typically, the probation period will be for a period of one year. In case the performance of the candidate is unsatisfactory and / or inefficiency in handling the allotted assignment, his probation may be extended or his service may be terminated during the probation period by giving one months" notice in writing or one months" salary, in lieu of.
- Extension of probation will not be allowed for more than once. Extension of Probation period is not a right to the candidate but might be considered by Authority/Society. Period of probation may also be relaxed in exceptional circumstances at the discretion of the Appointing Authority/Society. In exceptionally deserving cases, the Authority / Society may waive the Probation period of an employee at the time of appointment.
- The Employee appointed under contract will be excluded from terms of probation. Terms of Contract will guide contractual appointment only.
- The contract will be valid up to the specified tenure only. The contract will be automatically terminated on the expiry of the contract period unless renewed further.
- Confirmation: On completion of stipulated period of probation the performance will be evaluated as per appraisal procedures. Depending upon performance report he will be eligible for confirmation of service.
- On confirmation he will be either placed on suitable scale or consolidated salary depending on performance report and the discretion of the Authority / Society.
- In case, a staff member does not receive a letter of confirmation from the Institution in time, his service in the College would not be deemed to have been confirmed and it shall be presumed that his period of probation has been extended.
- Performance appraisal for all faculty and non-teaching staff is mandatory prior to confirmation of service. No person will be confirmed without performance appraisal. It will solely depend on total performance evaluation by Principal and HoD followed by personal appraisal held by the Appraisal Committee. The Chairperson of the Appraisal Committee will have to be duly appointed by Authority / Society who will have to be an experienced academician of repute, i.e. of a Senior Professor level.

Procedure for promotion of Staff Members:

- Promotion will be carried out only for Regular Employees. Probationers, Temporary Employees and Contractual Employees will not be eligible for promotion.
- Acquiring eligible qualification, Annual Performance review report and experience will be considered during the promotion review, however they do not establish right to be promoted to higher cadre. Depending upon available vacancy and other criterion, the candidate will be considered along with other eligible candidates who have applied for the position.
- If disciplinary proceedings have been initiated against an employee or if an employee is suspended because of any reason, he will not be eligible for promotion till such proceedings are over or suspension is withdrawn.
- In case of a record of violation of code of conduct in last three years, an employee will not be eligible for promotion.
- It is not mandatory or essential for the competent authority to fulfill the vacant posts from the internal applicants. The authority has full liberty to fill up all the vacant positions through external candidates.
- Promotion of Faculty positions will be decided as per the following procedures:
    - Availability of sanctioned vacant posts is to be decided by the Governing Body.
    - Governing Body will constitute a Selection Committee for consideration of internal cases fit for promotion to fill up the vacant sanctioned posts.
    - On fulfillment of stipulated condition of regulatory body and / or norms of the College, the candidate will be eligible to appear before Selection Committee.
    - An employee who had awarded a “Poor” or “Unsatisfactory” rating in any of the last three Annual Performance Reviews will not be eligible for promotion unless he had acquired two “excellent ratings” out of which, one has to be in last performance review.
    - Application of eligible candidates will be scrutinized by the Selection Committee. The Committee will consider the points as mentioned along with other points decided by the Selection Committee.
    - Selection Committee will conduct personnel interviews/ test of the eligible candidates and their opinion including Annual performance review report, which will be placed before the authority for appropriate decision regarding promotion including the date from which the order will be effective. The Principal will be informed about the decision taken on the annual performance review report of a candidate (if needed).
    - Based on the recommendation of the selection committee the competent authority may issue the promotion order to the deserving candidates.

Promotion of non-Teaching Employees will be decided as per the following procedures:

- Availability of sanctioned vacant posts is to be decided by the Governing Body.
- Governing Body will constitute a Selection Committee for consideration of internal cases fit for promotion to fill up the vacant sanctioned posts.
- On fulfillment of stipulated condition of regulatory body and / or norms of the College, the candidate will be eligible to appear before Selection Committee.
- An employee who had been awarded a “Poor” or “Unsatisfactory” rating in any of the last three Annual performance reviews will not be eligible for promotion unless he had acquired two excellent rating out of which, one has to be in last performance review.

- Application of eligible candidates will be scrutinized by the selection committee. Promotion of a non-teaching staff to higher scale shall be as far as possible on seniority- cum-merit basis. The committee will consider the seniority and Annual performance review report along with other points decided by the Selection committee.
- Based on the recommendation of the selection committee the competent authority may issue the promotion order to the deserving candidates.
- It is not mandatory or essential for the competent authority to fulfill the vacant posts from the internal applicants. The authority has full liberty to fill up all the vacant positions through external candidates.

10.1.3 Decentralization in working and grievanceredressal mechanism (10)

Institute Marks : 10.00

The different committees are formed with members from different sections to run the administrative and academic activities of the institution. The committee is comprehensive and covers every aspect of administrative and academic activities undertaken by the institution. The structure of different committees has been formed following stipulated guidelines wherever applicable. The committee shows the participation of personnel from all departments and sections for the required function and identifies the administrative and academic decision makers for various responsibilities. The different BoG approved Committee are: Academic Committee, Finance Committee, Internal Quality Assurance Cell, Library Committee, ICC, IIPC, R & D committee, Anti-Ragging Committee, Grievance Cell, Alumni Association, Admission Committee, Sports Committee, Cultural Committee, Techno Scientific Committee etc.

List of faculty members who are administrators/decision makers for various assigned jobs.

Sl.No	Name	Responsibility
1	Prof. Dr. Duradundi. Sawant. Badkar	Principal
2	Mr. Ganesh Survase	Registrar
3	Mr. Vasim Maner	Convener, Academic Committee
4	Mr. Ananad Shivadae	Member Secretary, IQAC
5	Mr. Babu R. Parkhe	Head Accountant
6	Dr. Sarita Balshetwar	HoD, Computer Science & Engineering
7	Dr. Tarang Shinde	HoD, Mechanical Engineering
8	Dr. Santosh Itraj	HoD, Electronics & Tele-Communication Engineering
9	Dr. Vivek **Puranik**	HoD, Electrical Engineering
10	Mr. Prashant Borate	HoD, Civil Engineering
11	Dr. Amol Baride	HoD, BS & HU
12	Mr. Anuradha Jagtap	Librarian
13	Dr. Santosh. Itraj	Coordinator, R & D Committee
14	Mr. Zaheer Patel	Admission-In-Charge
15	Mr. Tushar Shende	Training & Placement Officer
16	Mr. Kiran Jagtap	Officer- In-Charge, Examination
17	Mr. Sunil. Mane	Coordinator, Mentorship Committee
18	Mr. Basavaraj Hebbale	Coordinator, ED Cell
19	Dr. Tarang Shinde	Coordinator, IIP Cell
20	Mr. Nikhil Deshmukh	Convener, Anti-Ragging Committee
21	Prof. Satish Raut	Convener, GRC

Grievance Redressal Mechanism

The institution has a well-defined grievance redressal mechanism in place. Decentralized functioning being quite effectively practiced, the redressal of majority of the grievances is eventually taken care of by the respective departments and the faculty members. A few common grievances are dealt with from the level of the HoD/College authorities (Principal /Administrator/Registrar) who actively interacts with the students to help them sort out their grievances. It attends to both registered and unregistered grievances of the students. To take care of any major grievance, a central Grievance Redressal Committee (GRC) is constituted. Internal Complaint Committee is in place to address matters related to gender discrimination, sexual harassments etc. The issues related with ragging of students are addressed by the Anti-Ragging Committee. To address any affair related to discrimination with the person belongs to SC/ST community, SC/ST Committee is in place. Students are free to share their views/grievances/suggestions with the mentors, faculty members, HoD, Registrar, Administrator as well as the Principal of the institute. Apart from this, students can drop their grievances/complaints/suggestions in the suggestion box if they don’t want to reveal the grievance in person. Such complaints are forwarded to the concerned committee for time bound resolutions. The functioning and composition of different grievance redressal machineries are given below:

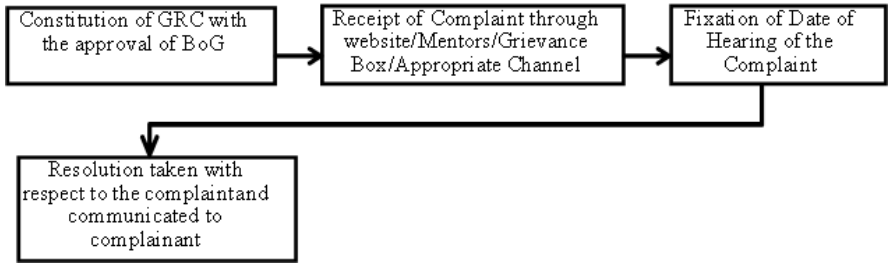
Grievance Redressal Committee (GRC)

Sr. No.	Name	Designation	Position in SCRC
1	Dr. Duradundi Sawant Badkar	Principal	Chairperson
2	Mr. Ganesh Survase	Registrar	Member Nominee, Faculty
3	Prof. Sunil Lembe	Associate Professor, Department of Civil Engineering	Member Nominee, Faculty, OBC
4	Prof. Himgouri Tapase	Assistant Professor, Department of Computer Science & Engineering	Member Nominee, Faculty, Women
5	-	Student Council Secretary	Students Representative, Special Invitee
6	Prof. Satish Raut	Associate Professor, Department of Mechanical Engineering.	Member-Secretary

Tenure of Members: Two year for nominated members.

Meeting: At least once in a semester and as and when necessary.

Procedure:



Functions and Responsibilities of the Committee:

- To create a platform where students/faculty/staff can point out their problems, regarding academic and non-academic matters.
- Get suggestions from the students/faculty/staff for improvement.
- Take necessary steps for improvement in the light of grievances.

Tenure of Members: Two year for nominated members.

Meeting: At least once in a semester and as and when necessary.

Anti-Ragging Committee (ARC)

Sr. No.	Name of Member	Institute Designation	Committee Specifics
1	Dr. Duradundi Sawant. Badkar	Principal	Chairperson

2	Mr. Atul Mali	NGO, Representative	Member
3	Mr. Sameer Shingate (S.D.O., Radhanagari)	Civil Administration	Member
4	Mr. V.R. Kadav (ASI, Satara, Sahupuri)	Police Administration	Member
5	Mr. Deepak. S. Shinde (Lokmat) Mr. Ali Mujawar (Dainik Punyanagari) Mr. Anil Kale (Dainik Aikya)	Local Media	Members
6	Adv. S.V. Matkar	Advocate	Member
7	Mr. Baliram. Shedage	Parent	Member
8	Mr. Deelip. Chavan	Parent	Member
9	Mr. V. P. More	Non-Teaching	Member
10	Mr. V. P. More	Non-Teaching	Member
11	Mr. Ayush. Soni	Student	Student (BE) Representative
12	Mr. Tejal Daigude	Student	Student (TE) Representative
13	Mr. Ganesh. Rane	Student	Student (SE) Representative
14	Miss. Samruddhi. Baliram. Shedage	Student	Student (FE) Representative
15	Mr. Ajitsinh. S. Bhosale	Physical Director	Member Secretary

Meetings Details: Frequency of Meeting in a Academic Year: Yearly once

Functions:

- Arrange campaigning, counseling and growing awareness through display or otherwise against the evils of ragging, its severity as a criminal offence and the associated punishments, when found guilty.
- Conduct enquiry of all reported cases and /or complaints received in any form.
- Making the BOG aware through the Principal the findings and the punitive action to be taken, if any.
- Evolve and suggest means to take preventive measures against ragging.

10.1.4 Delegation of financial powers (10)

Institute Marks : 10.00

The institute has the finance committee is in place to address all the affairs related to monetary policy of the institution under the supervision of BoG. The composition, tenure, and functioning of the finance committee is as follow:

Finance Committee (FC) for the financial year 2021-2022

Sl No	Name	Category	Nature
1	Prof. Dasharath B. Sagare	President	Chairperson
2	Mr. Ajinky Sagare	Advisor (A & D)	Member
3	Mr. Ganesh Survase	Registrar	Convener
4	Mr. Sanjay More	BoG Nominee	Member
5	Dr. Tarang. Shinde	HoD, Mechanical Engg	Member
6	Mr. Babu.R. Parkhe	Head Accountant	Member
7	Dr. Duradundi Sawant Badkar	Principal	Member Secretary

Meeting:

The committee will meet at least 2 times a year before the BoG meeting for recommending its resolutions to the BoG for consideration.

Functions:

- Budget preparation & Finance Planning
- Budget Allocation
- Recommend the Budget BoG for approval.
- Re-appropriation of funds of different Heads of the Budget with approval of the BoG.
- Budget estimates relating to the income from fees and other sources collected for smooth operation of the college.
- Advise the BoG on any matter involving finance.

Distribution of Financial Autonomy

BoG has approved financial autonomy to the following extent at different levels of hierarchy of the institute.

Sl. No.	Position	*Approval Power (financial) in Rs. Cash expenditure authority (impressed cash) in Rs.
1	Principal	50,000/-
2	Administrator	20,000/-
3	Registrar	20,000/-
4	HoD	10,000/-

Note: Subject to change on timely basis

10.1.5 Transparency and availability of correct/unambiguous information in public domain (5)

Institute Marks : 5.00

Institute is ready to give reply on any query/grievance. Anyone can ask the question through online mode after registering himself/ herself. This facility is available in the college website.

The queries are answered back appropriately, after due consideration, in reply.

The Institute provides correct/unambiguous information as and when it is demanded. The Institute functions with perfect decentralized administration that has complete transparency in its functioning. Dissemination and availability of institute/program specific information through the web:

- The Institute has its own website which is updated periodically as and when required. The Institute and the program specific information are made available to all aspirants through the website.
- The web site URL is: http://yes.edu.in/ (http://yes.edu.in/)

Formation of a cell in accordance with the provisions of Right to Information Act, 2005:

• The institute functions with perfect decentralized administration that has complete transparency in its functioning.

• The institute has formed a RTI Cell that provides the correct / unambiguous information as and when it is required.

• The Composition of RTI cell is given below:

Sl. No	Name	Designation	Mobile No
1	Dr. Duradundi Sawant. Badkar, Principal	Appellate Officer	8660919112
2	Mr. Ganesh K. Survase, Registrar	Information Officer	9049800808

10.2 Budget Allocation, Utilization, and Public Accounting at Institute level (30) Total Marks 30.00

10.2.2 Utilization of allocated funds (15) Institute Marks : 15.00

Utilization of allocated funds

All the Heads of the departments are intimated of the extent of funds allocated against their budget proposals. Major works like construction, up gradation of existing infrastructure, procurement and maintenance of common utilities, house-keeping, procurement of furniture, etc., are controlled by the Principal with the consultation of the central purchase committee and the departmental purchase committee.

- Funds are allocated by the Management of the College and monitored by Head accountant officer
- Department Heads are intimated of the extent of funds allocated against their budget proposals.
- Major works like construction, up-gradation of existing infrastructure, procurement and maintenance of common utilities, house-keeping, procurement of furniture etc. are controlled directly by the Management.
- Actions for procurement of lab equipment, up-gradation of existing lab facilities, purchase of consumables etc. are initiated from the respective departments and the funds are released on a case by case basis from the accounts office of the college on approval by the Management.
- During the last three years, the budget was utilized to meet expenses such as staff salary, infrastructure development, purchase of equipment, expenses towards consumables and contingencies, travel etc.
- Every year almost 75% of the budget is spent on staff salary, 10% on infrastructure development, about 8% on purchase of equipment, about 5% on library development and the rest 2% on other expenses. This has been the general pattern of utilization of budget for the last 5 years.
- Every year almost 60% of the budget is spent on staff salary, 15% on infrastructure development, about 10% on purchase of equipment, about 6% on library development and the rest 9% maintenance and on other nonrecurring expenses. This has been the general pattern of utilization of budget for the last 5 years.

Summary of currentfinancial year’s budget and actual expenditure incurred(for the institution exclusively)in the three previous financial years :

Total Income at Institute level: For CFY,CFYm1,CFYm2 & CFYm3
CFY : (Current Financial Year),
CFYm1 : (Current Financial Year minus 1),
CFYm2 : (Current Financial Year minus 2) and
CFYm3 : (Current Financial Year minus 3)

Table 1 - CFY 2021-22

Total Income 64048636.30				Actual expenditure(till…): 64048636.30			Total No. Of Students 701
Fee	Govt.	Grants	Other sources(specify) FROM YSPM	Recurring including salaries	Non Recurring	Special Projects/Anyother, specify	Expenditure per student
50370712	0	0	13677924.30	58008099.30	6040537	0	91367.53

Table 2 - CFYm1 2020-21

Total Income 50577518				Actual expenditure(till…): 50577518.40			Total No. Of Students 771
Fee	Govt.	Grants	Other sources(specify) FROM YSPM	Recurring including salaries	Non Recurring	Special Projects/Anyother, specify	Expenditure per student
49587010	0	0	990508	46551518.40	4026000	0	65599.89

Table 3 - CFYm2 2019-20

Total Income 56105302.04				Actual expenditure(till…): 56105302.04			Total No. Of Students 670
Fee	Govt.	Grants	Other sources(specify) FROM YSPM	Recurring including salaries	Non Recurring	Special Projects/Anyother, specify	Expenditure per student
41292331	0	0	14812971.04	46148485.04	9956817	0	83739.26

Table 4 - CFYm3 2018-19

Total Income 57053203.32				Actual expenditure(till…): 57053203.32			Total No. Of Students 516
Fee	Govt.	Grants	Other sources(specify) FROM YSPM	Recurring including salaries	Non Recurring	Special Projects/Anyother, specify	Expenditure per student
29775743	0	0	27277460.32	52013191.16	5040012.16	0	110568.22

Items	**Budgeted in 2021-22**	**Actual Expenses in 2021-22 till**	**Budgeted in 2020-21**	**Actual Expenses in 2020-21 till**	**Budgeted in 2019-20**	**Actual Expenses in 2019-20 till**	**Budgeted in 2018-19**	**Actual Expenses in 2018-19 till**
Infrastructure Built-Up	2000000.00	1630000.00	1500000.00	1250500.00	6000000.00	5970000.00	1200000.00	1060000.00
Library	1200000.00	973000.00	900000.00	750000.00	1200000.00	895678.00	900000.00	810212.00
Laboratory equipment	2500000.00	2250000.00	2000000.00	1505500.00	3000000.00	2298998.00	2500000.00	2284252.00
Laboratory consumables	400000.00	334000.00	300000.00	240000.00	500000.00	456000.00	400000.00	360000.00
Teaching and non-teaching staff salary	47000000.00	44936520.00	42500000.00	41614084.00	35000000.00	36243283.00	40000000.00	39238632.00
Maintenance and spares	800000.00	740000.00	600000.00	590912.00	220000.00	187756.00	400000.00	349642.00
R&D	600000.00	490000.00	125000.00	115600.00	600000.00	520000.00	500000.00	458500.00

Training and Travel	1370000.00	1259436.00	220000.00	183440.00	600000.00	490000.00	500000.00	456897.00
	900000.00	870000.00	800000.00	538698.50	2500000.00	1516911.00	2000000.00	1613989.00
Others, Advertisement Exps. Affiliaton Exps.Cleaning Charges,Internet Exps., Power & Fuel, Printing & Stationery Exps.Others Administrative Exps.	11420000.00	10565680.30	5535000.00	3788783.90	9900000.00	7526676.04	12885000.00	10421079.32
Total	**68190000.00**	**64048636.30**	**54480000.00**	**50577518.40**	**59520000.00**	**56105302.04**	**61285000.00**	**57053203.32**

10.2.3 Availability of the audited statements on the institute's website (5)

Institute Marks : 5.00

Yes, available

10.2.1 Adequacy of budget allocation (10)

Institute Marks : 10.00

Adequacy of budget allocation

- Budget requirements under recurring and non-recurring 'heads are collected from every departments and sections before the commencement of the financial year.
- Allocations are made as per the availability of funds.
- Spending is monitored by the accounts section. Supplementary allocations are made in special cases.
- The institution carefully monitors the expenses so that the necessities are met without affecting the smooth working of the institution.
- The management has been very efficiently doing this over the past several years that the institution never had any serious budget crunch that affected the functioning of the college.
- The allocation of budget was adequate for conducting the academic and R&D activities.
- The department improved the lab teaching and other academic activities using this fund.
- Departmental infrastructure was improved also.
- A brief account of few such improved activities is mentioned below:
- Planning and execution of the laboratory maintenance.
- Improvement of the laboratory programs.
- Introduction of innovative experiments in the laboratories.

10.3 Program Specific Budget Allocation, Utilization (30)

Total Marks 30.00

Institute Marks :

Total Income at Institute level: For CFY,CFYm1,CFYm2 & CFYm3
CFY: (Current Financial Year),
CFYm1 : (Current Financial Year minus 1),
CFYm2 : (Current Financial Year minus 2) and
CFYm3 : (Current Financial Year minus 3)

Table 1 :: CFY 2021-22

10810000		Actual expenditure (till…): 10276204		Total No. Of Students 117
Non Recurring	Recurring	Non Recurring	Recurring	Expenditure per student
450000	10360000	380000	9896204	87830.80

Table 2 :: CFYm1 2020-21

9413000		Actual expenditure (till…): 9067604.80		Total No. Of Students 144
Non Recurring	Recurring	Non Recurring	Recurring	Expenditure per student
375000	9038000	295000	8772604.80	62969.48

Table 3 :: CFYm2 2019-20

8687000.00		Actual expenditure (till…): 8407395.60		Total No. Of Students 149
Non Recurring	Recurring	Non Recurring	Recurring	Expenditure per student
675000	8012000.00	525000	7882395.60	56425.47

Table 4 :: CFYm3 2018-19

9353000.00		Actual expenditure (till…): 8975685.30		Total No. Of Students 104
Non Recurring	Recurring	Non Recurring	Recurring	Expenditure per student
475000	8878000.00	456850.40	8518834.90	86304.67

Items	Budgeted in 2021-22	Actual Expenses in 2021-22 till	Budgeted in 2020-21	Actual Expenses in 2020-21 till	Budgeted in 2019-20	Actual Expenses in 2019-20 till	Budgeted in 2018-19	Actual Expenses in 2018-19 till
Laboratory equipment	450000.00	380000.00	375000.00	295000.00	675000.00	525000.00	475000.00	456850.40
Software	165000.00	155500.00	145000.00	138000.00	127000.00	122000.00	95000.00	86500.00
Laboratory consumable	70000.00	60400.00	75000.00	55000.00	95000.00	89000.00	75000.00	65500.00
Maintenance and spares	195000.00	184500.00	120000.00	125500.00	45000.00	46939.00	110000.00	84874.70

R & D	95000.00	85000.00	15000.00	14600.00	90000.00	85000.00	85000.00	75500.00
Training and Travel	255000.00	249500.00	38000.00	31688.00	120000.00	85500.00	98000.00	88138.20
	180000.00	174000.00	145000.00	85000.00	535000.00	205300.00	415000.00	270595.60
Total	**1410000.00**	**1288900.00**	**913000.00**	**744788.00**	**1687000.00**	**1158739.00**	**1353000.00**	**1127958.90**

10.3.2 Utilization of allocated funds (20)

Institute Marks : 20.00

Utilization of allocated funds

The allocated funds are utilized properly and are adequate as per the Academic requirements.

- Funds are allocated by the Management of the College.
- Department Heads are intimated of the extent of funds allocated against their budget proposals.
- Actions for procurement of lab equipment, up-gradation of existing lab facilities, purchase of consumables, furniture etc. are initiated from the department.
- The funds are released on a case by case basis from the accounts office of the college on approval by the Management.
- During the last three years, the budget was utilized to meet expenses like purchase of equipment, expenses towards consumables and contingencies, etc.

10.3.1 Adequacy of budget allocation (10)

Institute Marks : 10.00

Adequacy of budget allocation

The institutes budget for the department is sufficient to maintain and acquire new items for the departments in order to meet academic requirements. The yearly budget is prepared in accordance with the needs and requirements of the departments, taking into account annual student intake, laboratory and infrastructure developments. Budget allocation and utilization over the last four years.

- Budget requirements under recurring and non-recurring ‘heads are collected from every departments and sections before the commencement of the financial year.
- Allocations are made as per the availability of funds.
- Spending is monitored by the accounts section. Supplementary allocations are made in special cases.
- The institution carefully monitors the expenses so that the necessities are met without affecting the smooth working of the institution.
- The management has been very efficiently doing this over the past several years that the institution never had any serious budget crunch that affected the functioning of the college.

The Head of the Department directs the responsible lab to provide the budget needed for the upcoming academic year. The lab in charge provides the lab with both recurring and non-recurring expenditure budgets. According to the budget provided by various charge of the laboratory, the following items will be included in the final budget proposal.

- Laboratory equipment
- Laboratory consumables
- Maintenance and spares

10.4 Library and Internet (20)

Total Marks 20.00

10.4.1 Quality of learning resources (hard/soft) (10)

Institute Marks : 10.00

Library and Internet

Library Facilities (Space, timings etc.)

Area of library (in sqm)	620.19 sqm
Reading space (in sqm)	sqm
Number of seats in reading room	150
Number of user (book issue) per day	60
Number of users (reading room) per day	220
Timing	8:00 am to 6:00 pm on all working days
Number of library staff	3
Computerization for search, indexing, and issue/return record	Available
Bar coding used	Yes
Library services on Internet/Intranet INDEST or other similar membership archives	Yes

Titles and Volumes (in Library):

Number of titles: 1866

Number of volumes: 10077

Year	New titles	New volumes
2018-19	51	260
2019-20	-	-
2020-21	-	-
2021-22	72	103

Scholarly Journal Subscription

	Details	CFY 2021-22	CFY m1 2020-21	CFY m2 2019-20	CFY m3 2018-19
Engineering & Technology	**As soft copy**	**497**	**497**	**497**	**497**
	As hard copy	**30**	**-**	**-**	**30**

Digital Library Details:

- Availability of Digital Library Content: Yes
- If available, mention name of courses: CSE, ADS, ECE, EE, ME, CE
- Number of e-books: 1762 (Delnet)
- Availability of an exclusive server: No
- Availability over Intranet/Intranet: Yes
- Availability of exclusive space /room: Yes
- Number of users per day: 20 (average)

Library Expenditure (books, magazines/journals etc.)

Year		Expenditure	
	Books	e-journals	Magazines etc.
2018-19	155757.00	13570.00	39000.00
2019-20	-	13570.00	-
2020-21	-	13570.00	-
2021-22	32508.00	13570.00	57500.00

Quality of Learning Resources:

Relevance of available learning resources including e-resources: Yes, in both forms

Sl. No.	Learning Resources	Correlation with POs & PSOs
1	Delnet Online Journals	PO1, PO2, PO5, PO6, PO7, PO8, PO9, PO12, PSO1, PSO2
2	NPTEL (MOOC) Courses	PO1, PO2, PO3, PO4, PO5, PO6, PO7, PO8, PO9, PO12, PSO1, PSO2, PSO3
3	CDs of Video Lectures	PO1, PO2, PO3, PO4, PO5, PO6, PO7, PO8, PO9, PO10, PO11, PO12, PSO1, PSO2, PSO3
4	10077 books (Central library)	PO1, PO2, PO3, PO4, PO5, PO6, PO7, PO8, PO9, PO10, PO11, PO12, PSO1, PSO2, PSO3
5	Departmental libraries with program specific reference books	PO1, PO2, PO5, PO6, PO7, PO8, PO9, PO12, PSO1, PSO2
6	Course specific lecture materials in institute website	PO1, PO2, PO5, PO6, PO7, PO8, PO9, PO12, PSO1, PSO2
7	Video recording of specific courses	PO1, PO2, PO5, PO6, PO7, PO8, PO9, PO12, PSO1, PSO2

Accessibility to students: Yes

Sl. No.	Learning Resources	Accessibility
1	Delnet Online Journals	During college hours
2	NPTEL (MOOC) Courses	During college hours
3	CDs of Video Lectures	During college hours
4	Central Library	During library working hours
5	Departmental library with program specific reference books	During college hours

6	Course specific lecture materials in institute website	Anytime from anywhere
7	Video recording of specific courses	During class hours

Support to students for self-learning activities:

- Wi-fi enabled Campus Internet connectivity
- Exclusive internet laboratory for students
- Digital Library with internet connectivity: Access during library working hours Well-equipped library: Access during library working hours
- Web based learning
- Innovation and Incubation Cell with internet connectivity Free and open learning environment.

PHOTO GALLERY: LIBRARY

Central Library

Engineering Stacking Area

Digital Library

Journal Section

Reading Room

Girls Reading Room

Boys Reading Room

Journal Section

Plagiarism

Library OPAC

10.4.2 Internet (10)

Institute Marks : 10.00

Name of the Internet provider	JIO, BSNL, Neha Infonet
Available band width	50 Mbps Leased + Line 30+30 Broadband + 100 Mbps Broadband
WiFi availability	Yes, Hotspots and Wi-Fi Enable Campus. Wi-Fi Availability: 50 Mbps
Internet access in labs, classrooms, library and offices of all Departments	Yes, 50 Mbps Leased + Line 30+30 Broadband + 100 Mbps Broadband
Security arrangements	Sophos XGS 2100 Firewall

Annexure I

(A) PROGRAM OUTCOME (POs)

Engineering Graduates will be able to:

1. **Engineering Knowledge :** Apply the knowledge of mathematics, science, engineering fundamentals, and an engineering specialization to the solution of complex engineering problems.
2. **Problem Analysis:** Identify, formulate, review research literature, and analyze complex engineering problems reaching substantiated conclusions using first principles of mathematics, natural sciences, and engineering sciences.
3. **Design/development of solutions:** Design solutions for complex engineering problems and design system components or processes that meet the specified needs with appropriate consideration for the public health and safety, and the cultural, societal, and environmental considerations.
4. **Conduct investigations of complex problems:** Use research-based knowledge and research methods including design of experiments, analysis and interpretation of data, and synthesis of the information to provide valid conclusions.
5. **Modern tool usage:** Create, select, and apply appropriate techniques, resources, and modern engineering and IT tools including prediction and modeling to complex engineering activities with an understanding of the limitations.
6. **The engineer and society:** Apply reasoning informed by the contextual knowledge to assess societal, health, safety, legal and cultural issues and the consequent responsibilities relevant to the professional engineering practice.
7. **Environment and sustainability:** Understand the impact of the professional engineering solutions in societal and environmental contexts, and demonstrate the knowledge of, and need for sustainable development.
8. **Ethics:** Apply ethical principles and commit to professional ethics and responsibilities and norms of the engineering practice.
9. **Individual and team work:** Function effectively as an individual, and as a member or leader in diverse teams, and in multidisciplinary settings.
10. **Communication:** Communicate effectively on complex engineering activities with the engineering community and with society at large, such as, being able to comprehend and write effective reports and design documentation, make effective presentations, and give and receive clear instructions.
11. **Project management and finance:** Demonstrate knowledge and understanding of the engineering and management principles and apply these to one’s own work, as a member and leader in a team, to manage projects and in multidisciplinary environments.
12. **Life-long learning:** Recognize the need for, and have the preparation and ability to engage in independent and life-long learning in the broadest context of technological change.

(B) PROGRAM SPECIFIC OUTCOME (PSOs)

PSO1	Apply modern engineering tools in civil engineering industries
PSO2	Purse their higher studies and research towards sustainability in the field of civil engineering
PSO3	Apply their knowledge to accomplish various competitive examinations

Declaration

The head of the institution needs to make a declaration as per the format given -

- I undertake that, the institution is well aware about the provisions in the NBA's accreditation manual concerned for this application, rules, regulations, notifications and NBA expert visit guidelines inforce as on date and the institutes hall fully abide by them.
- It is submitted that information provided in this Self Assessment Report is factually correct.
- I understand and agree that an appropriate disciplinary action against the Institute willbe initiated by the NBA. In case, any false statement/information is observed during pre-visit, visit, postvisit and subsequent to grant of accreditation.

Head of the Institute

Prof. Dr. Duradundi Sawant.

Name : Badkar

Designation : PRINCIPAL

Signature :

Seal of The Institution :

Place : YTC, SATARA

Date : 24-12-2022 21:54:43