

Submitted to

NATIONAL BOARD OF ACCREDITATION (NBA), NEW DELHI

Submitted by

CIVIL ENGINEERING DEPARTMENT

Alamuri Ratnamala Institute of Engineering And Technology



Accredited by NAACwith 'B+' Grade ISO 9001:2015 Certified

Approved by All India Council forTechnical Education (AICTE), New Delhi, Recognized by Directorate of Technical Education, Maharashtra State (MS-DTE), Mumbai Affiliated to Maharashtra State Board of Technical Education (MS-BTE), Mumbai.





Alamuri Ratnamala

(Rµm by Koti Vidya Charitable Trust) roved by : AIGTE, Directorate of Technical Education (DTE) (Maharashtra and Attilated to University of Mumbai) Campus : A S Rao Nagar, Vill. Sapgaon, Tal. Shahapur, Dist. Thano - 421601 Website: www.armikelin Efmail: Hogamind.com Accredited by NAAC with 'B+' Grade 11SO 9001 : 2015 CERTIFIED

Ref. No.: ARMIET/DIP/357/2019

Date: 17/03/2019

Τо,

The Member Secretary, National Board of Accreditation, NBCC place East tower, 4th floor Bhishamb Pitamah Marg, Pragati Vihar, New Delhi, 110 003 ,India

Sub:-Submission of SAR
Ref. :- Application Number 2967- 06 / 06 / 2018
Institute:-Alamuri Ratnamala Institute of Engineering and Technology, A. S. Rao Nagar, Sapgoan, Shahapur, Dist. Thane.
Program :-Diploma in Civil Engineering

Sir/Madam,

With reference to the above cited subject, we are submitting Self-Assessment Report (SAR) of diploma program in **Civil Engineering**.

The said SAR has been uploaded in the NBA website <u>http://www.nbaind.org</u> and in our Institute website <u>www.armiet.in.</u>

The SAR copy is hereby submitted for kind consideration of program Assessment and Accreditation by NBA peer team.

Tentative suggested date for Peer team visit

June 5th - 7th, 2019July 10th - 12th, 2019July 29th - 31th, 2019August 21st - 23rd, 2019

Thanking You, Yours Faithfully,

Mr. Prathmesh Vilas Patil NBA Co-ordinator



Admin Office : 106 & 124, Vardhaman Industrial Estate, Gokul Nagar, Thane (W) - 400601. Telefax : 022 - 40244310

Sr. No.	Item	Page No.
Part A	Institutional Information	10
Part B	Criteria Summary	
	Program Level Criteria	
1	Vision, Mission, Program Educational Objectives	14
2	Program Curriculum and Teaching-Learning Processes	20
3	Course Outcomes and Program Outcomes	48
4	Students Performance	61
5	Faculty Information & Contributions	72
6	Facilities & Technical Support	84
7	Continuous Improvement	91
	Institute Level Criteria	
8	Student Support System	96
9	Governance, Institutional Support and Financial Resources	109
Part C	Declaration by the Institution	127

SAR CONTENTS

ABOUT THE ARMIET

Alamuri Ratnamala Institute of Engineering and Technology (henceforth designated as ARMIET Engineering College for short) was established in the year 2008. The ARMIET Engineering College is run by the Koti Vidya Charitable Trust founded in 2007. Presently, Dr. Lavendra S. Bothra is the Chairman of the Koti Vidya Charitable Trust and works as the Principal of ARMIET Engineering College. Mr. A. Venkateshwara Gupta is the Founder Trustee of the Koti Vidya Charitable Trust and also acts as the Alternate Chairman in the Management of ARMIET Engineering College.

ARMIET Engineering College offers the Bachelor of Engineering(in six disciplines), Master of Engineering and Diploma in Engineering Programs (in three disciplines) and also offers the Master of Management Studies Programme in Management. ARMIET Engineering College is located in the picturesque surroundings in the outskirts of A. S.Rao Nagar,Sapgaon village of Taluka Shahapur in Thane district. The College offers high quality of education standard in Engineering and Management programs in the areas of Mumbai and Thane. The College has gained a remarkable credibility within a short span of ten years and has become well known as a reputable institute to pursue higher studies in Engineering and Management.

ARMIET College is located in the lap of nature to keep the minds of the students fresh. The entire campus is wrapped around with serene natural beauty with the river Bhatsa flowing through the lush green trees and rich vegetation. The pleasant atmosphere amidst nature lends the feeling of having come to some hill station and inspires every student from morning to evening to feel fresh, concentrate in ones studies, and be focused on their goals. Thus, students are never too far away from their homes when they come to college for study. The Institute hopes that every ARMIETian would leave their own permanent mark of excellence and make everyone feel proud.

To illustrate some of the accomplishments, ARMIET College has been awarded the Global Education Excellence Awards for being the Best Private Engineering College in Thane District. The award was received by the ARMIET's Chairman, Dr. Lavendra S. Bothra from the hands of Mr. Kirti Azad, Member of Parliament on 30th March 2015 in Delhi.

ARMIET College has received Academic Excellence Awards as the most promising Engineering College in Thane (Maharashtra) and the award was received from Mr. Ajay Jadeja. ARMIET has received the National Education Achievers 2015 Certificate of Excellence as the best emerging Engineering and Management Institute in Western India and the award was received from Ms. Amisha Patel.

About Koti Vidya Charitable Trust

Koti Vidya Charitable Trust was established in 2007. Under the Trust, Alamuri

Ratnamala Institute of Engineering and Technology was opened at Shahapur in Thane District. Within a span of 10 years the college has gained tremendous credibility and has become a respectable place to study. Our path is based on the philosophy i.e. "The student at our college is treated like a child and the teacher acts like a parent". This simple philosophy has lead our college to rise the height of fame. We, at our college, believe in working like a family and nurturing every student's career in such a manner that they blossom in their career after passing out of our college.

Mr.Milind Bharambe (IPS) for our Annual Function 'Matru Deo Bhav'at 23rd Feb 2013.	MsMona Singh (Acterss)
Mr.Pradip G Rathod(MD cello Group)	Mr.Vishwas Narayan Nangare-Patil(IPS, Joint CP, Mumbai)
Rithvik Dhanjani is an Indian television actor.(Nach Baliye 6 Winner)	Mr.RajeshKrishan(MD &CEO of Brick Eagle Group)
Dr.Ashwini M Joshi (IAS,Collector,Thane)	Mr.Ganesh G Acharya(Actor and Choreographer)
Mr.Prashant Burde(IPS,IGP Kokan Range)	Mr.Yajuvendra Mahajan(Social Entrepreneur and Educationalist DeepStambh Foundation)
Sindhutai Sapkal, affectionately known as the "Mother of Orphans", is an Indian social worker and social activist	Ms. Nidhi Choudhari, IAS (Head, Anti- Encroachment Dept. of BMC)
Ankita Lokhande is an Indian film and television actress.	Mrs. Priyanka Kanvinde (Mrs India UK 2017 Classic Universe)
Usha Nadkarni (born 13 September 1946) is an Indian television and Bollywood, Marathi actress	Mr.Sandeep Runwal(Director of Runwal Group)

Notable Visitors

Our Objective

- To develop a premiere institution of education in academic as well as professional fields for catering to the long felt need of institutes of excellence.
- > To conduct and sponsor research in various areas of knowledge required by our society.
- To develop & help in the development of newer and more effective educational technologies for a diverse set of skills and attitudes required by our society in the competitive era of the years to come.
- To cater to the educational needs of the students from the economically backward and rural areas in particular.

Our Belief

- If you study to remember you will forget, but, if you study to understand, you will remember.
- While we try to teach our children all about life, our children teach us what life is all about.
- Never fear spoiling children by making them too happy. Happiness is the atmosphere in which
- ➤ all good affections grow.
- There are only two lasting bequests we can hope to give your children. One of these is roots, the other wings.

Vision

To become an institute of excellence by continuous implementation and updation of knowledge and upgradation of technical skills to serve the society and improve the quality of life..

Mission

- To teach students basic concepts of science and fundamental engineering principles by encouraging interdisciplinary approach for comprehensive broad based learning.
- To provide hands-on training by executing project based learning, industrial internships and value added programs.
- > To train professional thinking and attitude building to be sensitive to needs of the society.

ACRONYMS USED IN SAR

ACRONYM	MEANING
ARMIET	Alamuri Ratnamala Institute of Engineering and Technology
СО	Course Outcome
PO	Program Outcome
PSO	Program Specific Outcome
PEO	Program Educational Outcome
FTE	Final Theory Examination
FPE	Final practical Examination
PTT	Progressive Theory Test
PST	Progressive Skill Test
CIAAN	Curriculum Implementation And Assessment Norms
MSBTE	Maharashtra State Board of Technical Education
IAMC	Internal Academic Monitoring Committee
EAMC	External Academic Monitoring Committee
PQAIC	Program Quality Assurance and improvement Cell
CDTP	Community Development Through Polytechnic
IEDSSA	Inter Engineering Diploma State Sports Association
NITTTR	National Institute of Technical Teachers Training
NPTEL	National Programme on Technology Enhanced Learning
LRDUC	Learning Resources Development and Utilization Center
ICT	Information and Communication Technology
AICTE	All India Council of Technical Education
DTE	Directorate of Technical
NAAC	National Assessment and Accreditation Council
ISO	International Organization for Standardization
SAR	Self Assessment Report
LCD	Liquid Crystal Display
MCQ	Multiple Choice Question
ТРО	Training& Placement Officer
TPC	Training & Placement Cell
EDC	Entrepreneurship Development Cell
EAC	Entrepreneurship Awareness Camp
EDP	Entrepreneurship Development Program
SDP	Skill Development Program
MOU	Memorandum of Understanding
SME	Small and Medium Enterprises
R & D	Research and Development
OPAC	Online Public access Catalogue
SLIM	System for Library Information and Management
NGO	Non Government Organization
ISTE	Indian Society for Technical education
KVCT	Koti Vidya Charitable Trust

Alamuri Ratnamala Institute of Engineering and Technology, Shahapur, M.S.

CAP	Central Admission Process
LD	Learning Disability
DSR	Dead Stock Register
LAN	Local Area Network

DETAILS OF ALL THE COURSES OF CIVIL ENGINEERING

SEMESTER	COURSE	COURSE	NAME OF COURSE			
	CODE	ABBREVIATION				
	22101	ENG	English			
	22102	BPH	Basic Science			
	22103	BMS	Basic mathematics			
I	22001	ICT	Fundamentals of ICT			
	22002	EGM	Engineering Graphics			
	22003	WPC	Workshop practice			
	22201	AMS	Applied Mathematics			
	22202	ASM	Applied Science			
	22203	AME	Applied Mechanics			
II	22204	CMA	Construction materials			
	22205	BSU	Basic Surveying			
	22008	CEW	Civil Engineering workshop and Practice			
	22009	BCC	Business Communication Using Computer			
	17301	AMS	Applied mathematics			
	17308	BCO	Building construction			
III	17309	BDR	Building drawing			
	17310	SUY	Surveying			
	17311	MOS	Mechanics of structures			
	17018	PPO	Professional practice			
	17401	EST	Environmental studies			
	17418	TEN	Transportation engineering			
	17419	ASU	Advanced surveying			
IV	17420	GTE	Geotechnical engineering			
	17421	HYD	Hydraulics			
	17422	TOS	Theory of structures			
	17036	CAD	Computer aided drafting			
	17037	PPT	Professional practice			
	17501	EAC	Estimating and costing			
	17502	IEN	Irrigation engineering			
	17503	PHE	Public health engineering			
V	17504	CTE	Concrete technology			
	17505	DSS	Design of steel structures			
	17057	EDE	Entrepreneurship development			
	17058	PPT	Professional practice			
	17075	BSC	Behavioral science			
	17601	MAN	Management			
	17602	HEN	Highway engineering			
VI	17603	CAA	Contracts ands accounts			
	17604	DRS	Design of reinforced concrete structures			
	17605	SWM	Solid waste management			
	17088	PRO	Project			

PART A:Institutional

Information

1. Name and Address of the Institution: Alamuri Ratnamala Institute of Engineering And Technology (Dilpoma), A.S.Rao

Nagar, Vill.Spgoan, Tal, Shahpur, Dist. Thane 421601

City: ShahapurState: Maharashtra.Website: www.armiet.inE-mail:lsb@armiet.comSTD Code:022Phone No: 40244310

- Name And Address Of The Directorate Of Technical Education: Directorate of Technical Education (DTE) Maharashtra, 3, Mahapalika Marg, Post Box No.1967,Opp. Metro Cinema, Mumbai - 400 001
- 3. Year of Establishment: 2012
- 4. Type of the Institution:

University	
Deemed University	
Autonomous	
Affiliated to MSBTE	(√)
Any Other (Please Specify)	

5. Ownership Status:

Central Government	
State Government	
Government Aided	
Self financing	(√)
Trust Society	(√)
Section 25 Company	
Any Other (Please specify)	

Provide Details:

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

Sr. No.	Name Of The Institute With Full Address	Year Of Establishment	Programs Of Study	Location
1	Alamuri Ratnamala Institute	2008	Degree	A.S.Rao ,Nagar,Vill.Sapgaon,
1	of Engineering And	2008	(B.E)	Tal,Shahpur, Dist. Thane
	Technology			421601
n	Alamuri Ratnamala Institute	2012	M.E	A.S.Rao Nagar,Vill.Sapgaon,
Z	of Engineering And	2012		Tal,Shahpur, Dist. Thane
	Technology			421601
2	Alamuri Ratnamala Institute	2011	MMS	A.S.Rao Nagar, Vill.Sapgaon,
3	of Engineering And	2011		Tal, Shahpur, Dist. Thane
	Technology			421601

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

Sr. No.	Program Name	Year of Commencement	Intake Capacity	Increase in intake,if any	Year of increase	AICTE Approval	Accreditation Status*
01.	Civil Engineering	2013	60	NO	NA	YES	NIL
02.	Electronics and Telecommunication Engineering	2012	60	NO	NA	YES	NIL
03.	Mechanical Engineering	2012	120	YES	2013	YES	NIL

Applying first time

Programs to be considered for Accreditation vide this application:

S. No.	Program
1.	Civil Engineering

8. Total number of Employees:

A.Regular*Faculty	and Staff:
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		CAY	2017-18	CAY m1	l 2016-17	CAY m2	2015-16	CAY m3	3 2014-15
Items		Min	Max	Min	Max	Min	Max	Min	Max
Faculty in	Μ	22	22	21	21	20	20	15	15
Technology	F	03	03	02	03	05	05	04	04
Faculty in	Μ	03	03	05	05	03	03	03	03
&Humanities	F	03	03	03	03	03	03	04	04
Non-teaching	Μ	08	08	12	12	16	16	14	14
staff	F	06	06	04	04	08	08	08	08

Note:

Minimum 75% should be Regular/Full Time faculty and the remaining shall be Contractual Faculty as per AICTE norms and standards.

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 Student Faculty Ratio.

CAY – Current Academic Year

CAYm1 - Current Academic Year minus1= Current Assessment Year

CAYm2 - Current Academic Year minus2=Current Assessment Year minus 1

CAYm3 - Current Academic Year minus3=Current Assessment Year minus 2

Note: In case Institution is running AICTE approved courses in Second shift, separate tables with the relevant heading shall be prepared.

Items	CAY (2018-19)	CAYm1 (2017-18)	CAYm2 (2016-17)	CAYm3 (2015-16)
Total no. of boys	503	320	415	461
Total no. of girls	81	52	46	36
Total no. of students	584	372	461	497

9. Total number of students:

Note: In case Institution is running AICTE approved courses in Second

shift, separate tables with the relevant heading shall be prepared.

10. Contact Information of the Head of the Institution and NBA coordinator:

I) Head of the Institution:

Name:Mr.Sourabh GuptaDesignation :Incharge PrincipalMobile No :9764791307Email Id :s.gupta0091@gmail.com

II) NBA coordinator

Name:	Mr.Prathmesh V.Patil
Designation:	Lecturer, Civil Engineering
Mobile No:	7397844568 / 8149891767
Email Id:	prathmeshpatil19@gmail.com

CRITERION 1	Vision, Mission and Program Educational Objectives	50
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1.1 State the Vision and Mission of the Department & Institution: (05)

In line with the Vision and Mission of Maharashtra Board of technical Education (MSBTE).. The vision and Mission of the institute are as under:

Vision and Mission of the Institute

ARMIET Vision:

To become an institute of excellence by continuous implementation and updation of knowledge and up gradation of technical skills to serve the society and improve the quality of life.

ARMIET Mission:

- To teach students basic concepts of science and fundamental engineering principles by encouraging interdisciplinary approach for comprehensive broad based learning.
- To provide hands-on training by executing project based learning, industrial internships and value added programs.
- > To train professional thinking and attitude building to be sensitive to needs of the society.

Vision and Mission of the Department

Department Vision:

To develop pre-eminence in the field of civil engineering by providing excellent academic and career development skill.

Department Mission:

- M1: To prepare students to adapt to the challenges as per market needs.
- **M2:** To build necessary hands-on skills required for employability through career and entrepreneurial training in infrastructure development.
- M3: Create interest among students to pursue higher studies.

1.2 State the Program Educational Objectives (PEOs): (05)

- **PEO1.** Provide socially responsible, environment friendly solutions to civil engineering related broad-based problems adapting professional ethics.
- **PEO2**. Adapt state of the art civil engineering broad-based technologies to work in multi-disciplinary work environments.
- **PEO3.** Solve broad-based problems individually and as a team member communicating effectively in the world of work.
- 1.3 Indicate where and how the Vision, Mission and PEOs are published and disseminated among stakeholders (10)

S. No.	Place of Dissemination	Stakeholders
1	Display Board at the entrance of	Internal Stakeholder&
	department	External Stakeholder
2	Departmental Notice Board	Internal Stakeholder&
		External Stakeholder
3	Departmental Laboratories/ Hand	Internal Stakeholder&
	Books / Lab Manuals	External Stakeholder
4	College Website/www.armiet.in	Internal & External
	conege website/ <u>www.armitet.m</u>	Stakeholder
5	Student – Teacher Committee	Internal Stakeholder
	Meeting	
6	Faculty Development Programme	Internal & External
		Stakeholder
7	Seminar	Internal Stakeholder
8	Workshop	Internal & External
		Stakeholder
9	Orientation Programme	Internal & External
		Stakeholder
10	Library	Internal Stakeholder
11	Classroom	Internal Stakeholder
12	HOD cabin	Internal Stakeholder
13	At every floor	Internal & External
		Stakeholder

Vision and Mission are published and disseminated among the stakeholders.

1.4 State the process for defining the Vision and Mission of the Department and PEOs of the program: (15)

- The Principal along with HOD and with the active participation of core faculty members develop the vision and mission statement of the department in alignment with Vision and Mission of the Institute.
- 2. These statements are discussed further among faculty members before finalization.
- 3. The expectations of MSBTE are taken into consideration .The MSBTE, while framing the curriculum, takes the expectations of Industry & Academia to match the global needs.
- 4. We discussed with all stakeholder. Accordingly the Vision, Mission & PEOs are formulated.
- 5. These suggestions are then approved in the Polytechnic (Diploma) committee meeting by the chairman of Alamuri Ratnamala Institute of Technology, Shahapur.
- 6. The final Vision and Mission are displayed.
- Experiences /Views / Suggestions / Expectations of stakeholders of the Department such as students, parents, industry, Management (chairman), and Professional bodies are taken into consideration.

Process for defining Department Vision and Mission



Process involved in defining the PEOs:

The Programme Educational Objectives (PEOs) are actually the broad statements of the objectives for which the program is run. In the first place, these objectives should help in fulfilling the mission of the department. Secondly, the students graduating from the program are expected to lead a fruitful and meaningful life in the society by being useful in its progressive development. Thus it is necessary that these objectives should be in consonance, to the extent possible, with the current research scenario in the relevant field of engineering and with the needs of the relevant industry. The research scenario is best judged by the faculty members through research publications. The industry needs are gauged through the feedback, mostly verbal, received when the students go for industrial training.

Step -1: The needs of the Nation and society are identified through scientific publications, industry interaction and media.

Step-2: Taking the above into consideration, the PEOs are established by the core committee of the department.

Step-3: The PEOs are communicated to the alumni and their suggestions are obtained.

Step-4: The PEOs are communicated to all the faculty members of the department and their feedback is obtained.

Step-5: The PEOs are then put to the governing bodies of the department for final approval.

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

The table below shows the correlation of PEOs with the departmental Mission.

Mission PEOs	M1:To prepare students to adapt to the challenges as per market needs.	M2:To build necessary hands-on skills required for employability through career and entrepreneurial training in infrastructure development	M3:Create interest among students to pursue higher studies.
PEO1 : Provide socially			
responsible,			
environment friendly			
solutions to civil			
engineering related	3	2	2
broad-based problems			
adapting professional			
ethics.			
PEO2: Adapt state-of-			
the-art civil engineering			
broad-based	3	3	3
technologies to work in			
Multi- disciplinary			
work environments.			
PEO3: Solve broad-			
based problems			
individually and as a			
team member	3	2	1
communicating			
effectively in the world			
of work.			

High Level Mapping::3

Medium level Mapping:2

Low Level Mapping:1

JUSTIFICATION OF DEPARTMENT MISSION STATEMENTS AND PROGRAM EDUCATIONAL OBJECTIVE MAPPING:

PEO1 vs M1 (Level 3): This PEO deals with providing broad based learning to solve the problems of the society and environment.

PEO1 vs M2 (Level 2): This PEO deals with imparting basic hands-on skill for their employability to develop individual as well as social growth.

PEO1 vs M3 (Level 2): This PEO deals with adapting civil engineering related broad-based problems through their higher education.

PEO2 vs M1 (Level 3): This PEO deals with adapt the abilities to work in multidisciplinary environment to solve the real life problems of the industries as per the market needs

PEO2 vs M2 (Level 3): This PEO deals in adapting state of the art civil engineering broad-based technologies for their career development and entrepreneurship skill.

PEO2 vs M3 (Level 3): This PEO deals to create interest among the students to pursue higher studies to work in Multi-disciplinary environments.

PEO3 vs M1 (Level 3): This PEO deals with adapting the abilities to solve broad-based problems to face the challenges as per market needs.

PEO3 vs M2 (Level 2): This PEO deals with building hands-on skills to solve wide range of problems individually and as a team member for their entrepreneurial training in infrastructure development.

PEO3 vs M3 (Level 1): This PEO deals in solving broad-based problems individually and as a team member through their higher education.

CRITERION 2 Program Curriculum and Teaching –Learning Processes 200

2.1 Program Curriculum (40)

2.1.1 State the process used to identify extent of compliance of the curriculum for attaining the Program Outcomes (POs) and Program Specific Outcomes (PSOs) as mentioned in Annexure I. Also mention the identified curricular gaps, if any(25)

The curriculum given by Maharashtra State Board of Technical Education is revised every 5 years taking feedback from all the stakeholders like Industry, Alumni, Institutes, Subject experts etc. It is based on System approach. This takes care of the curricular gaps present in the previous curriculum & thus minimizes the gaps.

- However, with growing technology, it is very difficult to satisfy all the needs of the industry through curriculum. To identify these gaps following approach is used. A subject teacher does a thorough study of the curriculum. After discussion with other subject teachers a common platform is created wherein the link between various subjects is discussed. The curricular and knowledge gaps are identified and the strategy to overcome these gaps is arrived at.
- Recent advances in the industry are identified with discussion between visiting faculties and departmental staff. The discussion also highlights the need for students to have knowledge of these advancements. Accordingly, symposiums, Seminars, Workshops, Training programs are arranged.
- A review of curriculums offered by autonomous institutes is taken into consideration and the necessary contents are added in the seminars.



Identified Curricular Gaps

1. Certain gaps like knowledge of Building Repair and Maintenance, Testing of Materials, Contracts Billing, Estimate of Different civil engineering works, which is not covered in the curriculum but are required for further curriculum. So all these topics beyond syllabus are covered in the regular class by allocating additional hours.

Personality is the most important virtue of the engineer. Though some aspects of personality development are covered in subjects such as Professional practices, Behavioral science But other essential skills such as Time management, interview techniques, importance of team works, Recent advancement in technology etc. are covered by inviting experts in respective fields.
 3 State the process details to identify gaps and mention identified curricula gaps. It will include Typically relevance of curriculum, frequency and process of revision, weight age to theory-lab tutorial

And coverage of curriculum)

4. Latest Developments in software in Civil engineering fields such as AutoCAD, STAAD PRO, 3D Printing are covered by conducting extra sessions.

2.1.2 Contents beyond the Syllabus (15)

(Provide details of the additional course/learning material/content/laboratory experiments/projects etc., arising from the gaps identified in 2.1.1. the delivery details and relevance to POs and PSOs for each of the assessment year in the format given below)

CAY(2018-19)

S.No	Gap	Action Taken	Date- Month- Year	Resource Person with designation	No. of student s present	Relevance to Pos& PSOs
1	Repair and Maintenance	Arranged expert Lecture On Topic Non Destructive Testing	06/03/19	Mr. Vikas Tiwari Director at Micro sonic Inspection	152	PO2,PO4,PO5 ,PO6,PO9 PSO1,PSO4
2	Waste Management in Actual Practice	Arranged visit to textile industry at Dombivali	26/02/19	Jasmine Rao HR Manager	98	PO6, PO7, PO10,PSO1,P SO4
3	Personality Development skills	Arranged expert lecture on personality development.	25/02/19	Saim Momin S. S. English Academy Bhiwandi	181	PO1, PO7, PSO1,PSO2,P SO4
4	Understand actual process of Water Treatment in practical.	Arranged Water treatment plant visit at Mohili	21/02/19	KDMC SITE ENGINEER, Kalyan	133	PO6, PO10, PSO1,PSO4.
5	Construction field knowledge	Arranged Expert lecture on topic Reinforcement concrete and mivan shuttering details.	14/02/19	Harshad Rane Independent consultant at Ethics InfoTech.	149	PO4, PO5,PSO1,PS O4.

6	Interview skills Enhance Technical Skills Related To software	Arranged Expert lecture on topic Related to Practical Knowledge Arrange Expert Lecture On topic computer software related to civil engineer.	12/02/19 19/01/19	Harshad Rane Independent consultant at Ethics InfoTech. Milind Mahure Faculty Trainer CADD center Kalyan	97 148	PO1,PO4,PO5 ,PSO4 PO3,PO10, PSO4
8	Memory Enhancement	Arranged expert Lecture on topic on any time memory.	05/01/19	Sudhir Sawant Leval 1, international arbiter world memory sport council	79	PO3,PO4, PSO4
9	Basic construction site knowledge in actual practice.	Arranged construction site visit at Titwala	28/09/18	Mr. Akash S. Bhoir Site instructor	84	PO3,PO4, PSO4
10	Basic of Concrete Technology and Highway Engineering	Arranged Industrial Visit at RMC Plant, Koparkhairane	27/09/18	Mr.R.K.Madhani Plant Incharge	97	PO1,PO4,PS O1,PSO4
11	Energy conservation and global Warming	Arranged Industry expert Lecture On topic Energy conservation	18/09/18	Mr. Sudhir Shah Faculty Trainer at PCRA	179	PO6,PO10, PSO1,PSO4
12	Enhance Knowledge Of Latest	Arranged Industry Expert Lecture On Topic Latest Innovative Technology	24/07/18	Mr.K.Padmanabham Managing director at empowering	181	PO3,PO10,PS O1,PSO4

	Innovative			solution		
	Technology					
13	Entrepreneurs hip skills	Arranged seminar on topic Entrepreneurship development	14/7/18	Dinesh Israni CEO at Tapswi Group ventures.	183	PO7,PO9,PS O1,PSO4

CAYm1 (2017-18)

	0	Action	Date-Month-	Resource Person	No. of	Relevance to
S.No	Gap	Taken	Year	with designation	present	Pos& PSOs
1	Enhance knowledge about solid waste management	Arranged Industrial Visit at Shivaji Hospital, Kalwa	21/02/18	Ms. Rupali Mahala Enviro- Vigil at Shivaji Hospital, Kalwa	37	PO6,PSO1 ,PSO4
2	Basic Measurement skill	Arranged Industrial Expert Lecture On Topic Industrial measurement.	18/10/2017	Mr. Yashavant Chavan Clearship Technology.	81	PO4,PSO1 ,PSO4
3	Building Construction	Arranged Industrial Visit at KarrmShahapur.	3/10/2017	Mr.Amar Gadge& Site Engineer	103	PO1,PO4, PSO1,PSO 4
4	Personality Development	Arranged expert lecture on personality development	28/09/2017	Mr. Shriram Sir	108	PO7,PO9, PSO1,PSO 4.
5	Basic knowledge of	Arranged Industrial Visit at Bhatsa Dam Bhatsanagar.	13/09/2017	Mr.Randhane P N (Ext.Engineer)	62	PO3,PO4, PSO1,PSO

	dam					4
	construction &					
	Hydraulic					
	Machines					
	Basic of	Arranged Industrial		Mr D V Madhan		PO1,PO4,
6	Concrete	Visit at RMC Plant,	6/09/17		78	PSO1,PSO
	Technology	Koparkhairane		Plant in charge		4
7	Reinforcement in RCC Building	Arranged Industrial visit at Titwala	01/08/2017	Mr.Devendra B. More Junior engineer	76	PO1,PO4, PSO1,PSO 4.
8	Basic knowledge of road construction material	Arranged Industrial Visit at Asphalt Plant, Turbhe	21/02/17	Mr.R.K.Madhani Plant Incharge	37	PO1,PO4, PSO1,PSO 4

CAYm2 (2016-17)

S.No	Gap	Action Taken	Date- Month- Year	Resource Person with designation	No. of students Present	Relevance to Pos& PSOs
1.	Basic Knowledge of construction	Nilkanth Group Of companiesconstructio n site	27/2/2017	Nilkanth Greens	56	PO1,PO4,PSO1 ,PSO4
2.	Building Construction Knowledge	Arranged Industrial Visit at KarrmShahapur.	17/02/2017	Mr.Amar Gadge & Site Engineer	94	PO1,PO4,PSO1 ,PSO4.
3.	Basic Measurement skill	Arranged Industrial Expert Lecture On Topic Industrial	8/10/2016	Mr. Yashavant	93	PO4,PSO1,PSO

		measurement.		Chavan		4
				Clearship		
				Technology.		
4.	Basic Knowledge of construction	Orchid Square Project, Ambernath	3/10/2016	S. Bhalerao.	41	PO1,PO4,PSO1 ,PSO4
	Basic	Regal Squar				PO1,PO4,PSO1
5.	Knowledge of	,Bhiwandi At	22/9/2016	Nitin Thakur	56	,PSO4
	construction	construction site				
6.	Personality development Skills	Arranged expert Lecture on topic on communication skill.	13/9/2016	Chandra shekhar Gollapudi Nimble Mindz. Hydrabad	126	PO7,PO9,PSO1 ,PSO4
7.	Basic Knowledge of construction	Arranged Industrial Visit at Laxmi Residency Shahapur.	24/8/2016	Mr. Ankush Padval	93	PO1,PO4,PSO1 ,PSO4
8.	Personality Development skills	Arranged expert lecture on personality development.	25/02/16	Saim Momin S. S. English Academy Bhiwandi	121	PO7,PO9,PSO1 ,PSO4

CAYm3 (2015-16)

S.No	Gap	Action Taken	Date- Month- Year	Resource Person with designation	No. of students present	Relevance to Pos& PSOs
1.	Personality Development	Arranged Expert lecture for personality development.	3/2/2016	Mr. Bandu More	122	PO7,PO9,PSO 1,PSO4
2.	Reinforcement in RCC Building	Arranged Industrial visit at Jai Bharat Construction, Ulhasnagar	22/02/2016	Mr.Patel R B & Site engineer	68	PO1,PO4,PSO 1,PSO2,PSO3, PSO4.
3.	Personality Development	Arranged Expert lecture for soft skill development.	23/12/2015	Mr. H. P. Sonawane	126	PO7,PO9,PSO 1,PSO4
4	Ready Mix Concrete	Arranged Industrial Visit at RMC Plant,Dadar	29/09/2015	Mr.R.K. Madhani Plant Incharge	25	PO1,PSO1,PS O4
5	Personality Development	Arranged Expert lecture for personality development.	22/9/2015	Mr. Nilima Nemade	91	PO7,PO9,PSO 1,PSO4
6	Building Construction	Arranged Industrial Visit at Yellow Tree Shahapur.	18/09/2015	Mr.S. Barade& Site Engineer	98	PO1,PO4,PSO 1,PSO4
7	Field	Arranged Industrial	07/02/2015	Mr.Walimbe	96	PO1, PO4,

	knowledge of Building Construction	Expert Lecture On Topic Latest Trends in Construction Activities		Vishwas		PSO1, PSO4
8	Building Construction Knowledge	Arranged Industrial Expert Lecture On Topic Building Construction activity	10/01/2015	Mr.Mansab Momin	87	PO1, PO4, PSO1, PSO4

- 2.2 Teaching Learning Process (160)
 - 2.2.1. DescribeProcessesfollowedtoensure/improvequalityofTeaching&Learni ngbasedon following points(25)



- Academic Calendar of MSBTE is followed by preparing college academic calendar and then a time table is prepared. Teaching/Laboratory plan is prepared for each subject theory as well as practical.
- Maharashtra State Board of Technical Education (MSBTE) provides lab manuals to ensure quality of practical training. All the students are given Multiple Choice Questions to solve which are based on each experiment.
- Presentations based on various topics are prepared by faculty members and are used for better concept understanding.
- Students prepare models and charts under faculty guidance.
- Subjects like Development of life skills include role play activities.
- Value added courses like AutoCAD, STAAD PRO, Solar Energy, 3D Printing are conducted by professionals which helps the students in their final year project.
- Free book bank facility is provided for all students.
- All classrooms are well equipped with Smart Board facility to deliver Theory lecture.
- Remedial classes/ Problem solving sessions are conducted for weak students.
- Counseling and mentoring through various sessions are organized to motivate the students.

Course Delivery Methods

Class room Lectures- The main delivery method for the courses is lecture interspersed with discussion. This helps in the obtaining a sound understanding of the course fundamentals, design and implementation issues, etc.

Presentations-The abstract concepts difficult to imagine are presented through power point presentations and animation tools to impart insight into the subject. Presentations also illustrate ideas and concepts in graphics form. Video presentations effectively communicate the working of actual engineering solutions and their impact.

Laboratory session- Laboratory work demonstrates how theory can be verified by experiments through interpretation of results. Experiments are normally done in groups of 5 students so students learn to work in teams.

Assignments- Writing assignments deepens thinking and increases students' engagement with course material. Good writing assignments prompt students to think more deeply about what they are

learning. Some assignments carry a bigger problem nearer to reality that cannot be done in the classroom. Group assignments help them to work effectively in a team.

Seminar - The students collect knowledge related to a topic and present it in a technical report and oral lecture comprehensively as per MSBTE curriculum.

Project - Micro projects, Mini projects and Final year projects are carried out by a group of students under the guidance of faculty wherein students apply the knowledge of all related courses in providing hardware/software solutions AUTO CAD ,STAAD PRO and present demonstrable product to a panel of supervisors.

Comprehensive Viva Voce- The Viva Voce is an important mode of assessment, providing an opportunity for students to demonstrate their knowledge, approach and understandings with the examiners. They are not just an assessment of the student's Self Assessment Report performance but usually an opportunity for the external examiner to get feedback from the students on the performance of the department.

Industrial Visits - Industrial visits are arranged to get the students acquainted with industrial environment and work ethics.

E- Learning Resources- Videos and E-learning material are used for giving exposure to domain expertise of the faculties from various reputed institutes like NPTEL, Spoken Tutorial.

Course Delivery Methods	PO.1	PO.2	PO.3	PO.4	РО.5	PO.6	PO.7	PO.8	PO.9	PO.10	PSO.1	PSO.2	PSO.3	PSO.4
Class room lecture	√	✓		~				√	~	~	~	~	~	~
Laboratory session	~		~	~					~	~			~	~
Assignments	~			~			~						~	~
Project	~	~	~	~	~	~	~	~	~	~	~	~	~	~
Seminar	~	✓			✓					~				
Industrial Visits	~	√		~	✓	~	~			√			~	✓
E- Learning Resources	~	~		~				~	√	~	~			
PR/OR	~	√	√	~		~						~	~	~

Sr.No	Parameter	Initiative Taken	Skills Developed
2	End semester Exam Class Test	 Class Test unit wise Chapter wise Question Bank Previous Years Paper Solving Problem Solving Sessions Problem Solving Sessions 1) we conduct the revision session Before class test 2) Chapter wise Question Bank 3) Chapter wise Tests on covered syllabus	 Preparation of exam becomes easy Repeated questions can be easily attempted Problem solving becomes easy. Minimize Guessing Focuses on ability to apply knowledge. Recall factual knowledge Organize the knowledge Present the knowledge in logical sequence. Enhance the ability to
			 analyze two different situations. Make the students understand the difference between internal and external assessment
3	Practical Sessions	 Questions based on experiments in the manual MCQs provide immediate result. Chapter wise Question Bank for viva 4-5 Question is to be asked regarding 	 Improves cognitive ability Provides reliable measurement of scores Provides to the students a technique for self evaluation

2.2.2. Initiatives to improve the quality of semester tests and assignments(15)

		psychomotor & cognitive	
		skill	
		Chapter wise assignments is	• Improves the understanding
		distributed before	of concepts
4	Assignments	commencement of class	• Helps in preparation of
			exams
			• To understand complex
5	Video lecture	Video lecture for particular	nature of problem
		topics	• 3-D view of structure and
			Loading conditions.

2.2.3. Quality of Experiments(15)

The laboratory manuals are learning resources prepared by MSBTE from subject experts through various Institutes.

Sr.			
No.	Parameter	Parameter Initiative	Skills Developed
		taken	
		Use of Laboratory	Hands-On Skills
		Manuals	• Knowledge about
			application of each
			experiment
1	Practical Sessions	Continuous assessment	• Relation between Theory
			and Practical's
		Model making	Communication Skills
			Motor Skills
		Orals/Question answer	Cognitive skill
		session	
2	Additional Practices	Experiments Mini	Building construction and
	Beyond Curriculum	Projects	practices for real life
		Additional Programs	problems
			• Application oriented
			Thinking
3	Seminars on	Individual presentation	Communication Skills
	theoretical/Practical	including models if any	• Motor skill
	topics		• Cognitive skill
			Basic concept
		1	

2.2.4. Quality of Students Projects and Report Writing(35)

- To start with, HOD issues a circular to all the faculty members of the department to provide the list of projects to be given to the students at the end of even semester and same should be display on notice board.
- The same is being notified to the students by the way of addressing in the class room by the project coordinator, besides putting a notice in the notice board of the department.
- Students are also encouraged to come up with the idea of their own for doing the project. The same is presented to the project review committee.
- After the careful examination of the idea presented by the student/team, guides may be allocated to the students by project coordinator

Approach of project preparation is as follows;

• A group of 5-6 students is formed in the 5th semester and a faculty is allotted as a guide to

these groups

• Students are briefed about the objectives, outcomes & specific outcomes of the

projects and steps to be followed to complete project work.

- Selection of area in which students are interested to do the project.
- Literature survey
- Identification of Project
- Allotment of Project
- Collection of Data
- Building Model
- Analysis of Data
- Conclusion of the Project
- Future scope of work

Project works are evaluated as per the schedule by the Project Review committee (PRC).

Students

Appear before the committee with Power point presentation and followed by Viva.

List of Projects

Academic Year (2018-19)

		Ту	pe of Pro	oject			PO								PSO				
Sr.No	Name of the Project	App licat ion	Study & Analy sis	Desi gn	Project Guide	Р О 1	P 0 2	P O 3	P O 4	P O 5	P O 6	P O 7	P O 8	P O 9	P 0 1 0	P S O 1	P S O 2	P S O 3	P S O 4
1	LAMINAR FOUNTAIN	Y			Mr.Vanve Devidas	3	1	2	3	2	1	2	3	3	3	2	1	3	3
2	ECOSTARS(GREEN STRUCTURE)	Y			Mr.Vanve Devidas	2	1	2	3	1	2	1	3	3	3	2	3	1	3
3	CIRCULER RUNWAY		Y		Mr.Patil Prathmesh	3	3	3	1	2	2	3	3	3	3	2	2	3	3
4	PLASTIC SCRAP ROAD	Y			Mr. Pratik Deore	3	3	2	1	2	2	2	3	3	3	3	3	2	3
5	CASE STUDY ON MUMBAI METRO		Y		Mr.Shirsat Akshay	3	2	1	2	1	2	2	3	3	3	3	1	2	3
6	ESTIMATIO N AND COSTING OF G+ 7			Y	Mr.Patil Prathmesh	3	3	3	3	2	2	2	3	3	3	2	3	2	3
7	SMART HIGHWAY	Y			Mr.Vanve Devidas	3	3	2	2	2	2	2	3	3	3	2	2	3	3
8	REPAIR AND REHABILITA TION ON RCC STRUCTURE S	Y			Mr.Patil Prathmesh	3	1	3	3	2	2	2	3	3	3	3	2	3	3
9	WATER SHED MANAGEME NT	Y			Mr. Pratik Deore	3	1	3	2	3	2	2	3	3	3	3	3	3	3
10	HYDRAULIC BRIDGE		Y		Mr.Shirsat Akshay	3	2	3	2	2	2	2	3	3	3	3	2	3	3
11	DESIGN AND STUDY OF COMPACT CITY	Y			Mr.Vanve Devidas	3	2	1	3	2	2	2	3	3	3	3	3	3	3
12	ASSESMENT OF CRACKS REPAIR METHOD	Y			Mr.Patil Prathmesh	3	2	3	3	3	3	2	3	3	3	3	2	2	3
13	LAKE REVIVAL		Y		Mr. Pratik Deore	3	2	2	2	2	3	2	3	3	3	3	2	3	3

S.N	Name of	Tv	pe of P	roject	Project Guide					Р	0					PSO					
0	the Project	Ap pli	Stu dy	Desig n		P o	P S	P S	P S	P S											
		cat ion	& Ana lysis			1	2	3	4	5	6	7	8	9	1 0	0 1	0 2	0 3	0 4		
1	RETROFITTI NG	Y			Mr.Pawan Pandey	3	1	2	3	2	1	2	3	3	3	2	1	3	3		
2	WATER TREATMENT PLANT		Y		Mr.Vanve Devidas	2	1	2	3	1	2	1	3	3	3	2	3	1	3		
3	BAMBOO USE AS CONSTRUCT ION MATERIAL	Y			Mr.Patil Prathmesh	3	3	3	1	2	2	3	3	3	3	2	2	3	3		
4	TRAFFIC VOLUME STUDY	Y			Mr.Akshay Sirsat	3	3	2	1	2	2	2	3	3	3	3	3	2	3		
5	DESIGN OF RCC BUILDING G+7			Y	Mr. Jawant Bhakt Jalib Khan	3	2	1	2	1	2	2	3	3	3	3	1	2	3		
6	BRICKLESS CONSTRUCT ION TECHNIC	Y			Mr.Patil Prathmesh	3	3	3	3	2	2	2	3	3	3	2	3	2	3		
7	USES OF RICE HUSK IN CONCRETE	Y			Mr.Vanve Devidas	3	3	2	2	2	2	2	3	3	3	2	2	3	3		

Academic Year (2017-18)

Academic Year (2016-17)

S.N	Name of the	Тур	e of Pro	ject	Project	РО								PSO					
0	Project	Арр	Stud	Desi	Guide	Р	Р	Р	Р	Р	Р	Р	Р	Р	Р	Р	Р	Р	Р
		licat	у&	gn		0	0	0	0	0	0	0	0	0	0	S	S	S	S
		ion	Anal			1	2	3	4	5	6	7	8	9	1	0	0	0	0
			ysis												0	1	2	3	4
1	SEWAGE TREATMENT PLANT		Y		Mr.Pawan Pandey	3	1	2	3	2	1	2	3	3	3	2	1	3	3
2	GEO- SYNTHETIC MATERIAL USING IN ROAD CONSTRUCTIO N		Y		Mr.Pashupati Shreshtha	2	1	2	3	1	2	1	3	3	3	2	3	1	3
3	ANALYSIS AND EXCUTION OF ROAD WORK ON NH-8		Y		Mr. Neha Adangale	3	3	3	1	2	2	3	3	3	3	2	2	3	3
4	MANUFACTUR ING OF CONCRETE PIPE	Y			Mr. Jawant Bhakt Jalib Khan	3	3	2	1	2	2	2	3	3	3	3	3	2	3
5	BRICK LESS CONSTRUCTIO N TECHIQUE	Y		Mr.Pawan Pandey	3	2	1	2	1	2	2		3	3	3	1	2	3	
---	---	---	---	---------------------------	---	---	---	---	---	---	---	---	---	---	---	---	---	---	
6	EFFICIENT PLANNING OF PUBLIC TRANSIT SYSTEM	Y		Mr.Pashupati Shreshtha	3	3	3	3	2	2	2	3	3	3	2	3	2	3	
7	CASE STUDY ON DIFFERENT TECHNIQUES OF CONSTRUCTIO N USED IN CIDCO EXHIBITION CENTRE		Y	Mr. Neha Adangale	3	3	2	2	2	2	2	3	3	3	2	2	3	3	

Academic Year (2015-16)

S.N o	Name of the	Тур	e of P	roject	Project Guide					P	0						-	PSO)
	Project	App licat ion	Stu dy & An aly sis	Desig n		P 0 1	P 0 2	P O 3	P O 4	P O 5	P O 6	P O 7	P O 8	P O 9	P O 1 0	P S O 1	P S O 2	P S O 3	P S O 4
1	WATER TREATMEN T PLANT		Y		Mr.Pawan Pandey	3	1	2	3	2	1	2	3	3	3	2	1	3	3
2	GREEN BUILDING	Y			Mr.Pashupati Shreshtha	2	1	2	3	1	2	1	3	3	3	2	3	1	3
3	EFFECT ON SOIL PROPERTIES AFTER ADDING FLY ASH	Y			Mr.Patil Prathmesh	3	3	3	1	2	2	3	3	3	3	2	2	3	3
4	COMPACT BIOGAS PLANT		Y		Mr. Neha Adangale	3	3	2	1	2	2	2	3	3	3	3	3	2	3
5	RAINWATER HARVESTIN G			Y	Mr. Jawant Bhakt Jalib Khan	3	2	1	2	1	2	2	3	3	3	3	1	2	3
6	SEWAGE TREATMEN T PLANT	Y			Mr.Pawan Pandey	3	3	3	3	2	2	2	3	3	3	2	3	2	3
7	CONCRETE CLOTH	Y			Mr.Pashupati Shreshtha	3	3	2	2	2	2	2	3	3	3	2	2	3	3

2.2.5. Industry Interaction and Industry Internship/Training (30)

Academic Year (2018-19)

Sr. No.	Program Details	Date- Month-Year	Resource person With Designation	No. Of Student present	Relevant To PO's & PSOs					
	Industry Expert Lecture									

			Saim Momin		
	Arranged expert		S. S. English		
1	personality	25/02/19	Academy	181	POI & PO7
	development.		Bhiwandi		
	Arranged Expert		Harshad Rane		
	lecture on topic	14/02/10	Independent	140	
2	Reinforcement	14/02/19	consultant at	149	PO4 & PO5
	shuttering details.		Ethics InfoTech.		
	Arrange Expert		Milind Mahure		
2	Lecture On topic	10/01/10	Faculty Trainer	140	
3	computer software	19/01/19	CADD center	148	PO3 & PO10
	engineer.		Kalyan		
			Sudhir Sawant		
			Leval 1,		
	Arranged expert	05/01/10	international	70	
4	Lecture on topic	05/01/19	arbiter world	/9	PO3 & PO4
	any time memory.		memory sport		
			council		
	Arranged Industry		Mr. Sudhir Shah		
5	expert Lecture On	18/09/18	Faculty Trainer at	179	PO6 & PO10
	conservation		PCRA		
	Arranged Industry		Mr. K. Padmanabham		
	Expert Lecture On	24/07/19	Managing director	101	
0	Topic Latest	24/07/18	at empowering	181	PUS & PUIU
	Technology		solution		

]	EXPERT lectur	res by Industry profe	essionals	
1	Arranged Expert lecture on topic Related to Practical	12/02/19	Harshad Rane Independent	97	PO4 & PO5

	Vnowladaa		concultant at		
	Knowledge		consultant at		
			Ethics InfoTech.		
	Arranged expert		Mr. Vikas Tiwari		
2	Lecture On Topic	06/03/19	Director at Micro	152	102,104,103,
	NDT		sonic Inspection		P00,P09
			Industrial visit		
1	Arranged visit to	26/02/10	Jasmine Rao	08	PO6, PO7 &
1	textile industry at Dombivali	20/02/19	HR Manager	98	PO10
			KDMC		
2	Arranged Water	21/02/10	SITE	122	
Ζ	treatment plant	21/02/19	ENGINEER,	133	P06 & P010
	visit at ivioinii		Kalyan		
	A		Mr. Akash S.		
3	construction site	28/09/18	Bhoir	84	PO3 & PO4
	visit at Titwala		Site instructor		
	Arranged				
4	Industrial Visit at	27/00/19	Mr.R.K.Madhani	07	DO1 & DO4
4	RMC Plant,	21/09/18	Plant Incharge	71	r01 & r04
	Koparkhairane				

Academic Year (2017-18)

Sr. No.	Program Details	Date- Month- Year	Resource person With Designation	No. Of Student present	Relevant To PO's & PSOs				
		Indus	stry Expert lectures						
1.	Construction Activities	14 May to 19 May 2018	Mr.R.K.Madhani Plant Incharge	10	PO3,PO4,PO5 PSO1				
2.	Construction Activities	21 May to 26 May 2018	Mr.R.K.Madhani Plant Incharge	10	PO3,PO4,PO5 PSO1				
	Expert lectures by Industry professionals								
1	Industrial Expert Lecture On Topic Industrial	18/10/2017	Mr.Yashavant Chavan	99	PO3,PO4,PO5 PSO1				

	measurement.		Clearship		
			Technology.		
					PO1,PO3,
2	Safety Module	12/08/2017	Mr.Suraj Nair	47	PSO1
		T	ndustrial misit		1501
		1	ndustriai visit		
			Ms. Rupali		
1	Visit at Kalwa	21/02/19	Mahala Enviro-	20	PO6
1	Shivaji Hospital	21/02/18	Vigil at Shivaji	39	
			Hospital, Kalwa		
			Mr.Amar Gadge		
2	Visit at Karrm	3/10/2017	&	107	P01,P04
	Snanapur.		Site Engineer		
2	Visit at Bhatsa	12/00/2017	Mr.Randhane P N	102	
3	Dam Bhatsanagar.	13/09/2017	Ext.Engineer	102	PO4,PO4
4	Visit at RMC Plant,	6/09/17	Mr.R.K.Madhani	150	PO1,PO4
	Koparkhairane		Plant Incharge		
5	visit at Titwala	01/08/2017	Mr.Devendra B.	105	PO1 & PO4
	Construction site		More		
			Junior engineer		
6	Visit at Asphalt	21/02/17	Mr.R.K.Madhani	105	PO1,PO4
	Plant, Turbhe		Plant Incharge		
					1

Academic Year (2016-17)

Sr. No.	Program Details	Date- Month- Year Indus	Resource person With Designation try Expert lecture	No. Of Student present	Relevant To PO's & PSOs
1.	Construction Activities	8 Dec. to 18 Dec. 2016	Mr.Sanjay Wadile	12	PO3,PO4,PO5 PSO1
		Expert lecture	s by Industry profes	sionals	
1	Arranged Industrial Expert Lecture On Topic Industrial measurement.	8/10/2016	Mr. Yashavant Chavan Clearship Technology.		PO3,PO4,PO5 PSO1

		Iı	ndustrial visit		
1	Visit at Nilkanth Group Of companies	27/2/2017	Nilkanth Greens	101	PO1,PO4 PSO1
2	Visit at KarrmShahapur.	17/02/2017	Mr.Amar Gadge & Site Engineer	107	PO1,PO4 PSO1
3	Visit at Orchid Square Project, Ambernath	3/10/2016	S. Bhalerao.	40	PO1,PO4 PSO1
4	Visit at Regal Squar, Bhiwandi At construction site	22/9/2016	Nitin Thakur	56	PO1,PO4 PSO1
5	Visit at Laxmi Residency Shahapur.	24/8/2016	Mr. AnkushPadval	62	PO1,PO4 PSO1

Academic Year (2015-16)

Sr. No.	Program Details	Date-Month- Year	Resource person With Designation	No. Of Student present	Relevant To PO's & PSOs
		I	ndustrial visit		
1	Arranged Industrial visit at Jai Bharat Construction, Ulhasnagar	22/02/2016	Mr.Patel R B & Site engineer	95	PO1,PO4, PSO3
2	Arranged Industrial Visit at Yellow Tree Shahapur.	18/09/2015	Mr.S.Barade& Site Engineer	98	PO1,PO4, PSO3
3	Arranged Industrial Visit at RMC Plant,Dadar	29/09/2015	Mr.R.K.Madhani Plant Incharge	68	PO1

1	Arranged Expert lecture for personality development.	3/2/2016	Mr. Bandu More	122	PO7, PO9, PSO1, PSO4
2	Arranged Expert lecture for soft skill development.	23/12/2015	Mr. H. P. Sonawane	126	PO7, PO9, PSO1, PSO4
3	Arranged Expert lecture for personality development.	22/9/2015	Mr. Nilima Nemade	91	PO7, PO9, PSO1, PSO4
4	Arranged Industrial Expert Lecture On Topic Building Construction activity	10/01/2015	Mr.Mansab Momin	87	PO1, PO4, PSO1, PSO4

Industry Expert lecture

2.2.6. Information Access Facilities and Student Centric Learning Initiatives (15)

Particulars	Status
Availability of ICT facilities	Yes
e-learning facilities	Yes
Journals and Magazines	Yes
NPTEL Video	Yes
scope for self-learning	Yes
Library Automation	Yes
Delnet	Yes
Online Public Access Catalogue	Yes
Kindle Device	Yes
Wi-fi facility of 64 mbps speed	Yes

Book Bank: The College has book bank facility. The books are issued to the students at free of cost.

Videos: Multimedia has many kinds of data such as text, audio, images, animation, and video. and interactive content. These make the learning complementary with the existing tools. With video, the students has more control over the information they receives and it provides additional opportunity for deeper learning by being able to stop, rewind, fast forward, and replay content as many times as needed. And we are providing NPTEL videos for students.

PPTs: PPT can help teachers to teach a subject point wise so as to make the learning more efficient. Power Point has become very popular because it's easy to learn, widely available, easy to understand the subject.

E-Books: E-Books help students to complete assignments and study for exams. E-Books are sent to the students by emails/ social media.

Website-Notes: Websites includes educational video tutorials, instructional lectures, do-it yourself guides, self-help tutorials, interactive presentations, animated explanations and many more. It helps students to develop learning skills. Many websites are suggested by MSBTE in Curriculum.

ICT enabled delivery methods: Smart classrooms- projector, laptop for departments, seminar hall, video lecture, etc. are encouraged for teaching- learning process

Drawing hall facilities – We have drawing hall facility in college.

Mentoring System: A well-defined Mentoring system is implemented in the department to identify and understand the student's problem

Parent's Interaction: Parent-teacher meetings are arranged every semester and student's performance is discussed. The teachers sometimes visit student's home also Appreciation /awards are given to the students having excellent academic or extra-curricular /co-curricular achievements by with the hands of parents.

Sr. No.	Facilities	Year	Subjects	Students Benefitted	Remark
	Multimedia/ Video/				Shown to students during
1	Interactive	All Year	All subject	FYD,SYD,TYD	Lectures
	Board				
2	PPTs	All Year	All subject	FYD,SYD,TYD	Shared with students
3	E- Books	All Year	All subject	FYD,SYD,TYD	E Books are mailed to the Students by faculty on social media.
4	Spoken tutorial	All Year	English communica	FYD,SYD,TYD	Videos shown during practical, Exam conducted

			tion		at semester end.
					Internet facility is made
5	Wi-fi	All Year	All subject		available to all students on
				F1D,51D,11D	all PCs.

2.2.7. New Initiatives for embedding Professional Skills (15)

For developing specialized skill development including communication, professional andcore employability skills classes on Professional Practices, Development of Life Skills &Entrepreneurship Development are conducted. Professional Practice and Entrepreneurship Development are trans-disciplinary academic department focused on flexible work-related learning within higher education. Professional Practice subject provides a platform to students to undergo activities which will enable them to develop self-confidence. In this subject a student is needs to use the knowledge and skills within a practical environment. Practicing in a professional manner requires that individuals have skills, knowledge, values and attitudes appropriate to their role and responsibility within the setting. In addition, it requires regular reflection upon practice and engagement in supported, ongoing professional development. Professional Practice is enhanced in several fields-

Effective communication is more than just exchanging information with others It involves Teamwork, decision making, and problem solving. It enables the students to communicate even negative or difficult messages without creating conflict or destroying trust.

It is achieved in several ways-

- Interacting with peers to share thoughts
- Prepare notes on given topic.
- Conducting Seminars
- Conducting Group Discussions
- Guest lectures on Communication Skills
- Preparing report on industrial visits, expert lectures
- Organizing Paper Presentations

Industrial training / Apprenticeship -Provided to the students after 4th and 6th Semester helps the student's in gaining knowledge. It also allows them to work on real world problem and develops confidence in them.

Personality development means enhancing and grooming one outer and inner self to bring about a positive change to your life. Each individual has a distinct persona that can be developed, polished and refined. This process includes boosting one confidence, improving communication and language speaking abilities, widening ones scope of knowledge, developing certain hobbies or skills, learning manners.

It is achieved in several ways-

- 1. Conducting guest lectures on Personality development
- 2. Organizing Seminars
 - 3. Guest lectures on Stress Management **Information search**-Everybody can become more effective when it comes to searching of

Information. Research suggests that meta cognitive strategies including planning, monitoring and self-regulating actions could enhance individual search in research database. Students are provided with different topics related to different fields of study.

• **Industrial visits** -Industrial visit has its own importance in a career of a student who is pursuing a professional degree. It is considered as a part of college curriculum.

Industrial visits-provide students an insight regarding internal working of companies. We know theoretical knowledge is not enough for making a good professional career. With an aim to go beyond academics, industrial visit provides student a practical perspective on the world of work. It provides students with an opportunity to learn practically through interaction, working methods and employment practices.

• Workshops –Several workshops are conducted to improvise students in different aspects such as

1. Workshops on Entrepreneurship development skills.

- 2. Workshops on recent ongoing Civil Engineering related topics.
 - Mentoring --Mentoring is to support and encourage people to manage their own learning in order that they may maximize their potential, develop their skills, improve their performance and become the person they want to be. Mentoring is a powerful personal development and empowerment tool. It is an effective way of helping people to progress in their careers and is becoming increasing popular as its potential is realized.

2.2.8. Co-curricular & Extra Curricular Activities (10)

Various events are organized under community development through polytechnic, Sports, cultural and technical fest as per the table given below.

Apart from indoor and outdoor sports activities, IEDSSA sports activities, College fest, following activities is conducted during academic year 2016-17, 2017-18, 2018-19.

SR. No.	Particulars	Status/ Remarks	Date
1	Blood donation camp	Once in a year	28 March to 30 March
2	Tree plantation	Once in year	5 June

3	IDESSA	two sports we arrange once in a	14/03/2017
		year(state level of zonal)	
4	Food festival	Once in semester	15/09/2017
5	Selfie festival	Once in semester	06/09/2017
6	Carrier development programs for	Once in year	20/02/2018
0	10 th student in rural area	Once in year	
7	Techfiesta	Once in a year	14/03/2018 to
7	reennesta	Once in a year	16/03/2018
8	Project competition	Once in year	18/03/2018
9	NSS –National Service Scheme	40 hrs in a year as per scheduled	In academic
	TYDE TRUICHUI DETVICE DEHEINE.	to mis in a year as per seneduled	year

Apart from the above initiatives by the department students also participated in various technical events within the state and bagged prizes.

Academi c year	Activity	Participant	Achievemen t	Venue
2018-19	State level technical paper presentation competition	1)BhereDarshan 2) Rajesh Desale 3) NirajGaonkar 4) RakshaGambhirrao	Runner up	Ideal Institute of Technology ,Wada
2018-19	State level technical paper presentation competition	ShaikhMohd. Abdul Rahaman 1)BhereDarshan	Participation	Wings 19 ShivajiraoJhondhale Polytechnic Asangaon
2018-19	State level technical quiz competition	2) Rajesh Desale	Runner up	Ideal Institute of Technology Wada
2017-18	IJCRT INTERNATIONA L JOURNAL OF CREATIVE RESEARCH THOUGHT	 1)AnkitaDingore 2) PoojaShingole 3) MayurKene 	Publication	IJCRT (INTERNATIONAL JOURNAL OF CREATIVE RESEARCH THOUGHT)
2017-18	State level technical quiz competition	1)AmitYadav 2) ShaikhMohd.	Participation	MSBTE, Technovwent 2018

		Abdul Rahaman		BhausahebVartak
				Polytechnic Vasai
		1)		AlemuriPetnemele
	International	1) Dhuchon Andhoro		
2017 10	conference and			
2017-18	technical paper	2) NiteshBhosale	Participation	Engineering And
	presentation	3) Hitesh Mali		Technology.Shahapu
	_	4) SohelShaikh		r
2017-18	International	1)AnkitaDingore	Participation	AlamuriRatnamala
	conference and	2) PoojaShingole		College Of
	technical paper	3) MayurKene		Engineering And
	presentation			Technology.Shahapu
				r
2017-18	State level technical	ShaikhMohd.	Participation	Wings 18
	quiz competition	Abdul Rahaman		ShivajiraoJhondhale
				Polytechnic
				Asangaon
2017-18	National Level	1)AmitYadav	Runner up	Universal College of
	Technical paper	2) ShaikhMohd.		Engineering, Vasai
	Presentation	Abdul Rahaman		
2016-17	State level technical	1)SiddheshSawant	Participation	Wings 17
	paper presentation	2) SuchitTirthakar		ShivajiraoJhondhale
	competition	3)		Polytechnic
	-	Rishinandchaudhar		Asangaon
		i		

CRITERION 3 Course Outcomes and Program Outcomes	100
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3.1. Establish the correlation between the courses and the POs & PSOs (20) (POs as mentioned in Annexure I and PSOs as defined by the Program)

<u>Program Outcomes</u> (**POs**) :Given by NBA. (What s/he will be able to do at the entry point of industry soon after the diploma programme)

PO 1. Basic knowledge: Apply knowledge of basic mathematics, sciences and basic engineering to solve the broad-based Civil engineering problems.

PO 2. Discipline knowledge: Apply Civil engineering knowledge to solve broad-based Civil engineering related problems.

PO 3. Experiments and practice: Plan to perform experiments and practices to use the results to solve broad-based Civil engineering problems.

PO 4. Engineering tools: Apply relevant Civil technologies and tools with an understanding of the limitations.

PO 5. The engineer and society: Assess societal, health, safety, legal and cultural issues and the consequent responsibilities relevant to practice in field of Civil engineering.

PO 6. Environment and sustainability: Apply Civil engineering solutions also for sustainable development practices in societal and environmental contexts.

PO 7. Ethics: Apply ethical principles for commitment to professional ethics, responsibilities and norms of the practice also in the field of Civil engineering.

PO 8. Individual and team work: Function effectively as a leader and team member in diverse/ multidisciplinary teams.

PO 9. Communication: Communicate effectively in oral and written form.

PO 10. Life-long learning: Engage in independent and life-long learning activities in the context of technological changes also in the Civil engineering and allied industry.

Program Specific Outcomes (PSOs) (What s/he will be able to do in the Civil engineering specific industry soon after the diploma programme)

PSO 1. Understanding: The student should able to clearly understand the concepts and applications in the field of Civil Engineering.

PSO 2. Associate Learning: The student should able to associate the learning from the courses related to surveying, design, analysis, Estimating to arrive at solutions to real world problems.

PSO 3. Analysis and Design: The student should have the capability to comprehenced the technological advancements in the usage of modern design tools to analyze and design systems/processes for variety of applications.

PSO 4. Skills and Practice : The students should posses the skills to communicate in oral and written forms, the work already done and the future plans with necessary road maps, demonstrating the practice of professional ethics and the concerns for

social and Environmental well being.

3.1.1. Course Outcomes (SAR should include course outcomes of one course

from each semester of study, however, should be prepared for all courses) (05)

S	Scheme-I emester-I subject and sub code: English (22101)
Course	Statement
C22101.1	Ability to apply grammatical rules to form correct sentences
C22101.2	Ability to solve the questions based on the articles
C22101.3	Ability to write a paragraph on a given topic
C22101.4	Development of Comprehension skills
C22101.5	Ability to enhance the vocabulary skills
C22101.6	To improve fundamental learning skills like reading, writing and speaking.

Semester-II subject and sub code: Applied Mathematics (22201)

Course	Statement
C22201.1	Apply derivatives to find slope, maxima, minima and radius of curvature
C22201.2	Apply integral calculus to solve different engineering problems
C22201.3	Apply the concept of integration for finding area
C22201.4	Apply differential equation for solving problems in different engineering fields.
C22201.5	Apply the knowledge of probability to solve the examples related to the production
	process.

Semester-III subject and sub code: Advanced Surveying (22301)

Course	Statement
C22301.1	Understand handling and use of various survey instruments for field observations
C22301.2	Understand linear and angular measurements
C22301.3	Select suitable instruments and appropriate method of survey
C22301.4	Understand the preparation of maps from the field observations
C22301.5	Interpret survey maps
C22301.6	Identify the errors of the survey instruments

Semester-IV subject and sub code: Hydraulics (22401)

Course	Statement
C22401.1	Understand principles of pressure measuring devices and computation of hydrostatic
	pressure and center of pressure
C22401.2	Identify the types of fluid flow
C22401.3	Estimate the loss of head for flow through pipes
C22401.4	Design most economical channel section.
C22401.5	Estimate the discharge over weirs and notches.
C22401.6	Understand the velocity of flow in open streams as well as in pipes.

Semester-V subject and sub code: Estimating and Costing (17501)

Course	Statement
C17501.1	Understand units and modes of measurements of various items of work.
C17501.2	Know the method of preparation of approximate estimates of various civil engineering
	works
C17501.3	3 Apply knowledge of preparation of check list of items of construction, rate analysis for
	preparation of detailed estimate of various civil engineering works
C17501.4	Understand the preparation of bill of quantities by taking measurements of completed item
	of work and rate of the item
C17501.5	Apply computer software's to prepare estimate of building works.

Course	Statement
C17603.1	. Understand various types of contract with the purpose of each type
C17603.2	.Understand different conditions of contract and it's use in execution of work.
C17603.3	. Appreciate importance of specification of various items of construction
C17603.4	Know techniques of evaluation
C17603.5	. Understand the procedure and different forms for the preparation of tender documents
C17603.6	Understand the procedure of P.W.D.

Semester-VI subject and sub code: Contracts and accounts (17603)

3.1.3. CO_PO matrices of courses selected in 3.1.1 (six matrices to be mentioned;

one per Semester from I^{st} to VI^{th} semester)(5)

Course Outcome	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10
C22101.1	2	2	1	2	1	1	2	1	3	2
C22101.2	3	2	3	2	1	2	3	1	2	1
C22101.3	1	2	1	1	1	1	1	1	2	1
C22101.4	1	2	2	1	1	2	2	1	2	2
C22101.5	1	1	1	1	1	1	1	1	1	1
C22101.6	1	1	2	1	2	1	1	1	2	2
C22101TOTAL	9	10	10	8	7	8	10	6	12	9
Correlation Level	1.5	1.66	1.66	1.33	1.16	1.33	1.66	1	2	1.5

Semester-I subject and sub code: English (22101)

Semester-II subject and sub code: Applied mathematics (22201)

Course Outcome	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10
C22201.1	1	2	1	2	2	1	1	-	-	-
C22201.2	2	1	1	2	1	2	1	1	-	1
C22201.3	1	2	2	1	2	1	2	1	1	1
C22201.4	1	1	-	1	2	1	1	1	2	1
C22201.5	1	1	1	1	2	1	2	1	1	-
C22201 TOTAL	6	7	5	7	9	6	7	4	4	3
Correlation Level	1.2	1.4	1	1.4	1.8	1.2	1.4	0.8	0.8	0.5

Semester-III subject and sub code: Advanced surveying (22301)

Course Outcome	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10
C22301.1	2	2	3	3	2	3	1	1	2	1
C22301.2	2	3	3	2	3	2	2	2	1	2
C22301.3	1	2	3	3	2	3	2	3	2	1
C22301.4	2	3	3	2	3	2	2	1	2	1
C22301.5	2	1	2	1	2	1	2	2	2	1
C22301 TOTAL	9	11	14	11	12	11	9	10	9	6
Correlation Level	1.8	2.2	2.8	2.2	2.4	2.2	1.8	2	1.8	1.2

Semester-IV subject and sub code: Hydraulics (22401)

Course Outcome	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10		
C22401.1	2	2	3	3	1	2	1	2	2	1		
C22401.2	2	2	3	3	2	3	1	2	1	2		
C22401.3	3	2	3	3	1	2	-	3	2	1		

Alamuri Ratnamala Institute of Engineering and Technology, Shahapur, M.S.

C22401.4	3	2	2	3	2	2	1	2	2	1
C22401.5	2	1	3	3	1	2	1	2	1	1
C22401.6	2	2	3	3	2	3	-	2	2	1
C22401TOTAL	14	11	17	18	9	14	4	13	10	7
Correlation Level	2.33	1.83	2.83	3	1.5	2.33	0.66	2.16	1.66	1.16

Semester-V subject and sub code: Estimating And Costing (17501)

Course Outcome	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10
C17501.1	2	2	3	3	2	3	2	2	2	1
C17501.2	2	3	3	2	3	2	2	1	1	1
C17501.3	2	2	3	3	2	3	1	2	2	2
C17501.4	1	2	2	3	2	2	1	2	2	1
C17501.5	2	3	3	2	3	2	1	2	2	1
C17501TOTAL	9	12	14	13	12	12	7	9	9	6
Correlation Level	1.8	2.4	2.8	2.6	2.4	2.4	1.4	1.8	1.8	1.2

PO9 PO10 Course Outcome PO1 PO2 PO3 **PO4 PO5 PO6 PO7 PO8** C17603.1 C17603.2 C17603.3 C17603.4 _ C17603.5 C17603.6 C17603TOTAL Correlation Level 2.33 2.33 2.5 2.33 2.33 0.83 1.66 1.5 1.33

Semester-VI subject and sub code: Contracts And Account (17603)

3.1.3 CO_PSO matrices of courses selected in 3.1.1 (six matrices to be mentioned; one per Semester from Ist to VIth semester)

Semester-I subject and sub code: English (22101)

Course Outcome	PSO1	PSO2	PSO3	PSO4
C22101.1	1	-	1	1
C22101.2	1	-	2	1
C22101.3	1	1	1	2
C22101.4	2	1	1	1
C22101.5	1	-	1	1
C22101.6	1	1	-	1
C22101TOTAL	7	3	6	7
Correlation Level	1.16	0.5	1	1.16

Semester-II	subject and	d sub code:	: Applied	mathematics	(22201)
	•7				<hr/>

Course Outcome	PSO1	PSO2	PSO3	PSO4
C22201.1	-	1	-	1

C22201.2	1	1	1	-
C22201.3	2	-	-	-
C22201.4	-	-	1	-
C22201.5	1	2	1	1
C22201TOTAL	4	4	3	2
Correlation Level	0.8	0.8	0.6	0.8

Semester-III subject and sub code: Advanced surveying (22301)

	U U			
Course Outcome	PSO1	PSO2	PSO3	PSO4
C22301.1	2	2	3	3
C22301.2	1	2	2	1
C22301.3	2	3	1	2
C22301.4	1	2	3	-
C22301.5	2	1	2	2
C222301TOTAL	8	10	11	8
Correlation Level	1.6	2	2.2	1.6

Semester-IV subject and sub code: Hydraulics (22401)

Course Outcome	PSO1	PSO2	PSO3	PSO4
C22401.1	3	2	3	1
C22401.2	3	3	2	2
C22401.3	3	1	3	1
C22401.4	2	3	3	1
C22401.5	3	2	3	2
C22401.6	3	2	3	2
C22401TOTAL	17	13	17	9
Correlation Level	2.83	2.16	2.83	1.5

Semester-V subject and sub code: Estimating And Costing (17501)

Course Outcome	PSO1	PSO2	PSO3	PSO4
C17501.1	1	2	1	2
C17501.2	3	2	1	-
C17501.3	2	3	2	1
C17501.4	2	3	1	2
C17501.5	1	2	2	3
C17501TOTAL	9	12	7	8
Correlation Level	1.8	2.4	1.4	1.6

Semester-VI subject and sub code: Contracts Accounts (17603)

Course Outcome	PSO1	PSO2	PSO3	PSO4
C17603.1	2	3	1	2
C17603.2	2	1	2	2
C17603.3	1	2	3	1
C17603.4	2	1	3	2
C17603.5	2	3	1	-
C17603.6	2	3	1	2
C17603 TOTAL	11	13	11	9
Correlation Level	1.83	2.16	1.83	1.5

3.1.4. Program level Course-PO matrix of all courses including first year course (10)

COURSE	Course code	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10
C22101	ENG	1.5	1.66	1.66	1.33	1.16	1.33	1.66	1	2	1.5
C22102	BSC	3	3	3	2.5	1.5	2.5	1.5	0.2	0	2.7

1	1	1	i i	1	1	1	1	1	1	1	1
C22103	BMS	1.4	1.8	1.8	1.6	1	0.8	1	0.6	1	0.4
C22001	ICT	2.2	1.6	1.8	2.4	1.6	1.6	1.2	1.8	1.8	2.6
C22002	EGM	1.2	1.8	1.2	1.2	1.2	1.4	1.4	2.4	0.8	2
C22004	WPM	1.5	1.8	1.4	2.66	2.5	1.6	1.2	1	1.2	0.5
C22201	AMS	1.2	1.4	1	1.4	1.8	1.2	1.4	0.8	0.8	0.5
C22202	ASM	2.66	2.33	1.66	1.83	1.75	1.25	1	2.25	1	1.75
C22203	AME	2	2.25	2.75	1.5	2	1	2.25	1.5	2	1
C22204	CMA	1.66	1.33	1.16	2	1	1.5	1.5	1.66	1.33	1
C22205	BSU	1.2	1.4	1	1.4	1.8	1.2	1.4	0.8	0.8	0.5
C22008	CEW	1.4	1.6	2.6	2.4	1.8	1.4	1	1.6	1.2	1
C22009	BCC	1.75	2.25	3	2.75	1.5	1	1.75	1.25	1.75	1.25
C22301	ASU	1.8	2.2	2.8	2.2	2.4	2.2	1.8	2	1.8	1.2
C22302	HEN	2	2	2.25	2.75	2.25	1.5	1.5	2	1.5	2
C22303	MOS	1.8	2.4	1.2	2	1.8	2.8	1.8	1.6	1.8	1.6
C22304	BCO	1.66	1.66	2.66	2.66	2.33	1.33	2.33	1.33	2.33	1.66
C22305	CTE	1.8	2.2	2.8	2.2	2.4	2.2	1.8	5	1.8	1.2
C22022	CAD	2.33	2.66	2.33	1.33	2.33	1.66	1.8	2.75	2.25	1.5
C22401	HRY	2.33	1.83	2.83	3	1.5	2.33	0.66	2.16	1.66	1.16
C22402	TOS	2.33	1.83	2.83	3	1.5	2.33	0.66	2.16	1.66	1.16
C22403	RBE	2.25	2.25	2.5	2.75	2.25	1.75	1.5	1.75	2	1.25
C22404	GTE	1.4	1.6	2.6	2.4	1.4	1.6	2.6	2.4	1.4	1.6
C22405	BPD	1.75	2.25	3	2.75	1.75	2.25	3	2.75	1.75	2.25
C22447	EST	2.5	2.66	2.33	2.66	2.5	2.66	2.33	2.66	2.5	2.66
C17501	EAC	1.8	2.4	2.8	2.6	2.4	2.4	1.4	1.8	1.8	1.2
C17502	IEN	2	2.33	2.83	2.83	2	1.83	1.16	1.83	1.66	1.33
C17503	PHE	2.28	2.14	2.85	2.57	2.28	2.71	1	1.71	1.42	1.28
C17504	CTE	1.66	2.66	2.66	2.33	3	2	2	2	1.66	1.66
C17505	DSS	1.6	2.4	2.6	2.4	2.8	2	1.6	1.8	1.6	1.4
C17075	BSC	1.66	2.16	2.5	2.5	2.66	2	1.66	1.66	1.5	1.33
C17057	EDE	1.75	2.25	3	2.75	1.75	2.25	3	2.75	1.75	2.25
C17058	PPT	2.6	2.4	2.28	2.71	1	1.71	1.42	2.28	2.71	1
C17601	MAN	1.66	2.16	2	1.66	2.66	1.66	1.83	1.66	1.33	1.5
C17602	HEN	2.5	2.25	3	2.75	2	1.75	0.5	1.5	1.75	1.25
C17603	CAA	2.33	2.33	3	2.5	2.33	2.33	0.83	1.66	1.5	1.33
C17604	DRS	1.66	2	2.16	2.16	1.66	1.16	1	1.66	1.5	1.16
C17605	SWM	2.33	2.5	2.33	2.33	2.83	3	1.16	1.33	1.5	1.66
C17092	PRO	2	2.5	3	2.7	3	2.7	3	2.75	2.33	2.9

Program level Course-PSO matrix of all courses including first year course

COURSE	Course code	PSO1	PSO2	PSO3	PSO4
C22101	ENG	1.16	0.5	1	1.16
C22102	BSC	0.5	2.3	2.2	2
C22103	BMS	1.6	1.8	1.8	1.4
C22001	ICT	2.2	1.8	2.2	1.6
C22002	EGM	2	2.2	1.8	1.6
C22004	WPM	2.66	2.5	2.16	1
C22201	AMS	0.8	0.8	0.6	0.8
C22202	ASM	1.83	1.5	2.16	1.66
C22203	AME	2	1.5	2.16	1.83
C22204	СМА	1.8	1.2	1	2.2
C22205	BSU	0.8	0.8	0.6	0.8

C22008	CEW	2	2.4	2.2	1.2
C22009	BCC	1.75	2.25	2	1.5
C22301	ASU	1.6	2	2.2	1.6
C22302	HEN	2.25	2.5	2.75	1.75
C22303	MOS	2.2	1.6	1.2	0.8
C22304	BCO	2	2.33	2	0.66
C22305	CTE	1.6	2	2.2	1.6
C22022	CAD	1.5	2	2.5	2.75
C22401	HRY	2.83	2.16	2.83	1.5
C22402	TOS	2.83	2.16	2.83	1.5
C22403	RBE	2.25	2	1.4	1.4
C22404	GTE	2.6	2.4	1.4	1.6
C22405	BPD	3	2.75	1.75	2.25
C22447	EST	2.33	2.66	2.5	2.66
C17501	EAC	1.8	2.4	1.4	1.6
C17502	IEN	2	1.5	2.16	1.83
C17503	PHE	2.5	2.33	2.83	2.5
C17504	CTE	2.33	2.66	1.33	2
C17505	DSS	2	2.2	1.8	1.2
C17075	BSC	2.4	1.2	2.2	2
C17057	EDE	2.83	2.83	2	1.83
C17058	PPT	1.71	1.42	2.66	1.33
C17601	MAN	2.16	2	1.5	1.16
C17602	HEN	1.75	2.5	1.25	1.25
C17603	CAA	1.83	2.16	1.83	1.5
C17604	DRS	2.33	2.66	1.66	1.83
C17605	SWM	1.16	2.83	3	1.5
C17092	PRO	3	2.5	2.67	2

3.2. Attainment of Course Outcomes (40)

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

Following processes have been undertaken to find the attainment of course outcomes. For direct attainment the progressive test result, MSBTE result is taken into consideration.

Progressive Tests

- Two progressive unit tests are conducted in each semester one in the mid-semester and the other at the end of semester.
- MSBTE provides Teachers guide for all subjects. It includes lecture wise topics to be covered and the portion to be completed before each progressive test. Teachers guide is strictly followed.
- Teachers guide also includes sample question papers as guide lines for setting question paper for progressive tests.
- Course outcome of the subject are taken into consideration while setting up the question

paper.

• After paper assessment the attainment of course outcome is found by determining the number of students having met the set standard in the said subject.

• Based on the above calculation the attainment level is found.

MSBTE Exam

- MSBTE provides teaching scheme for every semester, which includes the components viz., Theory Exam, Practical/Oral exam and term work along with the maximum marks allotted for each component.
- The marks of the applicable components are added and attainment of course outcome is found by determining the number of students who have met the set standard in the said subject. The direct attainment is calculated by taking into consideration the 20% of allotment level for class test and 80% of allotment for MSBTE exam.



3.2.2. Record the attainment of Course Outcomes of all courses with respect to set attainment levels (30)

Justification: Program has set course outcome attainment level for all courses. To measure course outcome attained through board examination target level is stated as percentage of students getting more than the level selected by program.

For that following calculation tables of attainment level for three years has been done.

Program defined attainment level vs.target for Board Theory exams are below:

Attainment Level	Target Level
Attainment Level -1	40% and above students scoring more than Board average (TSI)
	percentage marks
Attainment Level-2	50% and above students scoring more than Board average (TSI)
	percentage marks
Attainment Level-3	60 % and above students scoring more than Board average (TSI)
	percentage marks

Program defined attainment level vs.target for PR/OR,TW,Tests exams are below:

Attainment Level	Target Level
Attainment Level -1	40% and above students scoring more than average mark
Attainment Level-2	50% and above students scoring more than average mark
Attainment Level-3	60 % and above students scoring more than average mark

Measuring CO attained through Board Assessment and Internal Assessment Measuring CO Attainment Table Each course per Semester.

SEM I-BSC

CE-1 I	Poor	Board Assessment (80%)			Internal Acc	occmont (200/			
22102-BSC	board Assessment (60 %)				Internal Ass	TOTAL	Target level		
Tested COs	ТН	PR/OR	AVERAGE	TS 1	TS2	PA(TW)	AVERAGE		
22102.1	3	-	3	3	-	3	3.00	3.00	2
22102.2	3	-	3	3	-	3	3.00	3.00	2
22102.3	3	-	3	3	2	3	2.67	2.93	2
22102.4	3	-	3	-	2	3	2.50	2.90	2
22102.5	3	-	3	-	2	3	2.50	2.90	2
AVERAGE	3	-	3	3.00	2	3	2.67	2.93	2

SEM II-AMS

CE-2 I	Board Assessment (80%)				Intornal Ass				
22201-AMS					Internar Asse		TOTAL	Target	
Tested COs	ТН	PR/OR	AVERAGE	TS 1	TS2	PA(TW)	AVERAGE		level
22201.1	0	-	0	2	-	-	2.00	0.40	2
22201.2	0	-	0	2	-	-	2.00	0.40	2
22201.3	0	-	0	2	1	-	1.50	0.30	2
22201.4	0	-	0	-	1	-	1.00	0.20	2

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22201.5	0	-	0	-	1	-	1.00	0.20	2
AVERAGE	0	-	0	2.00	1	-	1.50	0.30	2

SEM-II-ASM

CE-2 I 22202-ASM	Boar	d Assessment	(80%)		Internal Ass	TOTAL	Target		
Tested COs	ТН	PR/OR	AVERAGE	TS 1	TS2	PA(TW)	AVERAGE		level
22202.1	3	-	3	2	-	-	2.00	2.80	2
22202.2	3	-	3	2	-	-	2.00	2.80	2
22202.3	3	-	3	2	2	-	2.00	2.80	2
22202.4	3	-	3	-	2	-	2.00	2.80	2
22202.5	3	-	3	-	2	-	2.00	2.80	2
AVERAGE	3	-	3	2.00	2	-	2.00	2.80	2

SEM III-SUR

CE-3 G	Boom	d Aggggmont	(800/)		Internal Ag				
17310-SUR	Doar	u Assessment	(80%)		Internal As	TOTAL	Target		
Tested COs	ТН	PR/OR	AVERAGE	TS 1	TS2	PA(TW)	AVERAGE		level
17310.1	3	1	2	2	-	1	1.50	1.90	2
17310.2	3	1	2	2	-	1	1.50	1.90	2
17310.3	3	1	2	2	-	1	1.50	1.90	2
17310.4	3	1	2	-	1	1	1.00	1.80	2
17310.5	3	1	2	-	1	1	1.00	1.80	2
17310.6	3	1	2	-	1	1	1.00	1.80	2
AVERAGE	3	1	2	2.00	1	1	1.33	1.87	2

SEM IV -HYD

CE-4G	Door	d Aggggmont	(800/)		Internel Acc				
17421-HYD	Doar	u Assessment	(80 %)		Internal Ass	,	TOTAL	Target level	
Tested COs	ТН	PR/OR	AVERAGE	TS 1	TS2	PA(TW)	AVERAGE		
17421.1	0	2	1	2	-	3	2.50	1.30	2
17421.2	0	2	1	2	-	3	2.50	1.30	2
17421.3	0	2	1	2	1	3	2.00	1.20	2
17421.4	0	2	1	-	1	3	2.00	1.20	2
17421.5	0	2	1	-	1	3	2.00	1.20	2
17421.6	0	2	1	-	1	3	2.00	1.20	2
17421.7	0	2	1	-	1	3	2.00	1.20	2
17421.8	0	2	1	-	1	3	2.00	1.20	2
AVERAGE	0	2	1	2.00	1	3	2.00	1.20	2

SEM V-EAC

CE-5G	Deer		(000/)		T	\ \			
17501-EAC	Боаг	a Assessment	(80%)		Internal Ass	TOTAL	Target level		
Tested COs	ТН	PR/OR	AVERAGE	TS 1	TS2	PA(TW)	AVERAGE		
17501.1	3	3	3	2	-	3	2.50	2.90	2
17501.2	3	3	3	2	-	3	2.50	2.90	2
17501.3	3	3	3	2	2	3	2.33	2.87	2
17501.4	3	3	3	-	2	3	2.50	2.90	2
17501.5	3	3	3	-	2	3	2.50	2.90	2
AVERAGE	3	3	3	2.00	2	3	2.33	2.87	2

CE-6G	Beer	d Aggggmont	(2007)		Internal Acc	\		Target level	
17603-CAA	Duar	u Assessment	(00 /0)		Internal Ass)	TOTAL		
Tested COs	ТН	PR/OR	AVERAGE	TS 1	TS2	PA(TW)	AVERAGE		
17603.1	2	-	2	2	-	2	2.00	2.00	2
17603.2	2	-	2	2	-	2	2.00	2.00	2
17603.3	2	-	2	2	2	2	2.00	2.00	2
17603.4	2	-	2	-	2	2	2.00	2.00	2
17603.5	2	-	2	-	2	2	2.00	2.00	2
17603.6	2	-	2	-	2	2	2.00	2.00	2
AVERAGE	2	-	2	2.00	2	2	2.00	2.00	2

SEM VI-CAA

3.3. Attainment of Program Outcomes & Program Specific Outcomes (40)

3.3.1. Describe assessment tools and processes used for assessing the attainment of each POs and PSOs as mentioned in Annexure 1 (10)

Assessment Tools flow method.



- The input to polytechnic education system is the students having 10+ qualifications.
- The MSBTE curriculum is revised every five years and is prepared taking the industry needs into consideration.
- An Industry survey is conducted on state level and feedback received is taken into consideration along with suggestions received from subject experts.
- Subject experts from various institutes are invited to prepare the content detailing of Theory and Laboratory work.
- MSBTE provides training to the faculty across the state of Maharashtra.
- The subject teacher identifies 5-6 course outcomes as given in Table 3.1.1 in the SAR.
- Course Outcomes are then mapped with the Program Outcomes & Program Specific Outcomes. Correlation levels are entered and the overall Course Outcome is

calculated.

• All the Outcomes of various Courses are mapped with the POs and PSOs & correlation levels are entered in CO-PO/ CO-PSO Matrix

• The Course Outcomes are measured for Progressive tests as well as MSBTE Board Examinations by setting standards and calculating the number of students scoring

above

the set standard. The Progressive tests and MSBTE Exam give Direct Attainment Level.

- 80% of the Direct Attainment levels are calculated.
- For Indirect Attainment, the average scores of the feedback taken from various stakeholders is taken.
- 20% of the score is considered for calculation of Attainment Levels.
- The Direct & Indirect attainment levels of POs & PSOs are added and Attainment Levels

are calculated

3.3.2. Provide results of evaluation of each PO & PSO (30)

COURSE	Course code	PO1	PO 2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PSO1	PSO2	PSO3	PSO4
C22101	ENG	1.5	1.66	1.66	1.33	1.16	1.33	1.66	1	2	1.5	1.16	0.5	1	1.16
C22102	BSC	3	3	3	2.5	1.5	2.5	1.5	0.2	0	2.7	0.5	2.3	2.2	2
C22103	BMS	1.4	1.8	1.8	1.6	1	0.8	1	0.6	1	0.4	1.6	1.8	1.8	1.4
C22001	ICT	2.2	1.6	1.8	2.4	1.6	1.6	1.2	1.8	1.8	2.6	2.2	1.8	2.2	1.6
C22002	EGM	1.2	1.8	1.2	1.2	1.2	1.4	1.4	2.4	0.8	2	2	2.2	1.8	1.6
C22004	WPM	1.5	1.8	1.4	2.66	2.5	1.6	1.2	1	1.2	0.5	2.66	2.5	2.16	1
C22201	AMS	1.2	1.4	1	1.4	1.8	1.2	1.4	0.8	0.8	0.5	0.8	0.8	0.6	0.8
C22202	ASM	2.66	2.33	1.66	1.83	1.75	1.25	1	2.25	1	1.75	1.83	1.5	2.16	1.66
C22203	AME	2	2.25	2.75	1.5	2	1	2.25	1.5	2	1	2	1.5	2.16	1.83
C22204	CMA	1.66	1.33	1.16	2	1	1.5	1.5	1.66	1.33	1	1.8	1.2	1	2.2
C22205	BSU	1.2	1.4	1	1.4	1.8	1.2	1.4	0.8	0.8	0.5	0.8	0.8	0.6	0.8
C22008	CEW	1.4	1.6	2.6	2.4	1.8	1.4	1	1.6	1.2	1	2	2.4	2.2	1.2
C22009	BCC	1.75	2.25	3	2.75	1.5	1	1.75	1.25	1.75	1.25	1.75	2.25	2	1.5
C22301	ASU	1.8	2.2	2.8	2.2	2.4	2.2	1.8	2	1.8	1.2	1.6	2	2.2	1.6
C22302	HEN	2	2	2.25	2.75	2.25	1.5	1.5	2	1.5	2	2.25	2.5	2.75	1.75
C22303	MOS	1.8	2.4	1.2	2	1.8	2.8	1.8	1.6	1.8	1.6	2.2	1.6	1.2	0.8
C22304	BCO	1.66	1.66	2.66	2.66	2.33	1.33	2.33	1.33	2.33	1.66	2	2.33	2	0.66
C22305	CTE	1.8	2.2	2.8	2.2	2.4	2.2	1.8	5	1.8	1.2	1.6	2	2.2	1.6
C22022	CAD	2.33	2.66	2.33	1.33	2.33	1.66	1.8	2.75	2.25	1.5	1.5	2	2.5	2.75
C22401	HRY	2.33	1.83	2.83	3	1.5	2.33	0.66	2.16	1.66	1.16	2.83	2.16	2.83	1.5
C22402	TOS	2.33	1.83	2.83	3	1.5	2.33	0.66	2.16	1.66	1.16	2.83	2.16	2.83	1.5
C22403	RBE	2.25	2.25	2.5	2.75	2.25	1.75	1.5	1.75	2	1.25	2.25	2	1.4	1.4
C22404	GTE	1.4	1.6	2.6	2.4	1.4	1.6	2.6	2.4	1.4	1.6	2.6	2.4	1.4	1.6
C22405	BPD	1.75	2.25	3	2.75	1.75	2.25	3	2.75	1.75	2.25	3	2.75	1.75	2.25
C22447	EST	2.5	2.66	2.33	2.66	2.5	2.66	2.33	2.66	2.5	2.66	2.33	2.66	2.5	2.66
C17501	EAC	1.8	2.4	2.8	2.6	2.4	2.4	1.4	1.8	1.8	1.2	1.8	2.4	1.4	1.6
C17502	IEN	2	2.33	2.83	2.83	2	1.83	1.16	1.83	1.66	1.33	2	1.5	2.16	1.83
C17503	PHE	2.28	2.14	2.85	2.57	2.28	2.71	1	1.71	1.42	1.28	2.5	2.33	2.83	2.5
C17504	CTE	1.66	2.66	2.66	2.33	3	2	2	2	1.66	1.66	2.33	2.66	1.33	2
C17505	DSS	1.6	2.4	2.6	2.4	2.8	2	1.6	1.8	1.6	1.4	2	2.2	1.8	1.2
C17075	BSC	1.66	2.16	2.5	2.5	2.66	2	1.66	1.66	1.5	1.33	2.4	1.2	2.2	2
C17057	EDE	1.75	2.25	3	2.75	1.75	2.25	3	2.75	1.75	2.25	2.83	2.83	2	1.83
C17058	PPT	2.6	2.4	2.28	2.71	1	1.71	1.42	2.28	2.71	1	1.71	1.42	2.66	1.33

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C17601	MAN	1.66	2.16	2	1.66	2.66	1.66	1.83	1.66	1.33	1.5	2.16	2	1.5	1.16
C17602	HEN	2.5	2.25	3	2.75	2	1.75	0.5	1.5	1.75	1.25	1.75	2.5	1.25	1.25
C17603	CAA	2.33	2.33	3	2.5	2.33	2.33	0.83	1.66	1.5	1.33	1.83	2.16	1.83	1.5
C17604	DRS	1.66	2	2.16	2.16	1.66	1.16	1	1.66	1.5	1.16	2.33	2.66	1.66	1.83
C17605	SWM	2.33	2.5	2.33	2.33	2.83	3	1.16	1.33	1.5	1.66	1.16	2.83	3	1.5
C17092	PRO	2	2.5	3	2.7	3	2.7	3	2.75	2.33	2.9	3	2.5	2.67	2
TOTAL (C	ount-39)	74.5	82.2	91.2	89.5	77.4	71.9	61.6	71.8	62.1	57.19	77.89	79.3	75.73	62.35
Direct Att	ainment	1.91	2.11	2.34	2.29	1.98	1.84	1.58	1.84	1.59	1.47	2.00	2.03	1.94	1.60
80%di Attaini	rect nent	1.53	1.69	1.87	1.84	1.59	1.47	1.26	1.47	1.27	1.17	1.60	1.63	1.55	1.28
Indir Attain	ect ment	2	1.9	2	2	1.9	1.92	1.75	1.9	1.89	2	1.83	1.95	2	2
20%Inc Attain	lirect nent	0.4	0.38	0.4	0.4	0.38	0.38	0.35	0.38	0.38	0.4	0.366	0.39	0.4	0.4

CRITERION 4 Students' Performance	200
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Intake Information:

Item	CAY 2018-19	CAYm1 2017-18	CAYm2 2016-17	CAYm3 2015-16	CAYm4 2014-15	CAYm5 2013-14
Sanctioned intake strength of the program (<i>N</i>)	60	60	60	60	60	60
Total number of students, admitted through state level $counseling(N1)$	38	29	35	37	10	27
Number of students, admitted through Institute level quota (N2)	00	07	03	20	43	33
Number of students, admitted through lateral entry (<i>N3</i>)	34	24	28	39	46	
Total number of students admitted in the Program $(N1 + N2 + N3)$	72	60	66	96	99	60

Year of entry	N1 + N2 + N3 (As defined above)	F Y D	D S Y D	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		
CAY 2018-19	72	38	34					
CAYm1 2017-18	60	36	24	01				
CAYm2 (LYG) 2016-17	66	38	28	07+03	02+03			
CAYm3 (LYGm1) 2015-16	96	57	39	02+01	02+01	02+01		
CAYm4 (LYGm2) 2014-15	99	53	46	06+02	01+02	01+02		
Year of entry	N1 + M (As defin	N2 + N3 ned above	2)	Number of students who have successfully graduated [student with backlog in stipulated period of study]				
				I Year	II Year	III Year		
CAY-2018-19	72(3	8+24)						

CAYm1-2017-18	60(36+24)	18+07		
CAYm2 (LYG)-2016- 17	66(38+28)	16+04	15	
CAYm3 (LYGm1)- 2015-16	96(57+39)	15+05	17	13
CAYm4 (LYGm2)- 2014-15	99(53+46)	20+09	25	15

4.1 Enrolment Ratio(20)

Item	Academic	Academic	Academic
	Year 2017-2018	Year 2016-2017	Year 2015-2016
Ν	60	60	60
N1	29	35	37
N2	07	03	20
Enrollment Ratio ((N1+N2)/N)*100	60%	63.33%	95%
Average Er	rollment= 72.7	7 %	<u>.</u>

Enrolment Ratio= (N1+N2)/N

4.2 Success Rate in the stipulated period of the program (60)

4.2.1Success rate without backlogs in any year of study(40)

SI= (Number of students who have passed from the program without backlog)/ (Number of students admitted in the first year of that batch plus actually admitted in 2nd year via lateral entry)

Average SI = Mean of success index (SI) for past three batches

Success rate without backlogs in any year of study=40xAverage

SI

Item	Latest passed batch (2017 - 18)	Latest passed Minus1 batch (2016 - 17)	Latest passed Minus 2 batch (2015 - 16)
Total number of Students (admitted			
through state level counseling + admitted	0.4	22	
through institute level quota + admitted	96	99	60
through lateral Entry) (N1 + N2 + N3)			
Number of students who have passed			
without backlog in the stipulated period	03	03	02
Success Index	0.03125	0.0303	0.0333
Average SI		0.03162	
	1	40 x 0.03162=	
Success Rate		1.2651	

4.2.2 Success rate with backlog in stipulated period of study(20) SI= (Number of students who have passed from the program in the

stipulated period of course

duration)/(Number of students admitted in the first year of that batch plus actu

allyadmittedin2nd year via lateral entry)

Average SI=mean of success index (SI)

for past three batches Success rate = $20 \times$

Average SI

Item	Latest Passed Batch (2017-18)	Latest passed batch minus 1 (2016 - 17)	Latest passed minus 2 batch (2015 - 16)
Total number of Students (admitted through state level counseling + admitted through institute level quota + admitted through lateral Entry) (N1 + N2 + N3)	96	99	60
Number of students who have	16	18	18
passed in the stipulated period	0.4.4 -	0.4040	
Success Index (SI)	0.167	0.1818	0.3
Average SI		0.216	
Success Rate		20 x 0.216 = 4.32	

Note: If 100% students clear without any backlog then also total marks scored will be 60 as both 4.2.1 & 4.2.2 will be applicable simultaneously.

4.3 Academic Performance in First Year (25)

Academic Performance Level = 2.5 * Average API

API =

((Mean of 1st Year Grade Point Average of all successful Students on a 10 point scale) or (Mean of the

percentageofmarksofallsuccessfulstudentsinFirstYear/10))x(successfulstude nts/numberofstudents appeared in the examination).

Successful students are those who are permitted to proceed to the second year.

Academic Performance	CAY (2017-18)	CAYm1 (2016-17)	CAYm2 (2015- 16)
Mean of CGPA or mean percentage of all successful students(X)	56.6465	55.52	56.61
Total number of successful students(Y)	18	16	15
Total Number of students appeared in the examination(Z)	36	36	56
$API = x^* (Y/Z)$	2.832	2.46	1.5163
Average $API = (AP1 + AP2 + AP3)/3$		2.2719	
Academic Performance Level = 2.5 x Average API		5.679	

4.4 Academic Performance in Second Year (20)

Academic Performance Level = 2.0 * Average API

Academic Performance	САУ	CAYm1	CAYm2
	(2017-18)	(2016-17)	(2015-16)
Mean of CGPA or mean percentage of all			
suc _{fff} ssful students(X)	60.84	59.31	56.88
c Total number of successful students(Y) P	19	18	24
Total Number of students appeared in the			
exa ^{fm} ination(Z) f	46	63	73
$AP \mathbf{\hat{r}} = \mathbf{x}^* (\mathbf{Y}/\mathbf{Z})$	2.5129	1.694	1.870
Average API = $(AP1 + AP2 + AP3)/3$		2.0256	
Academic Performance Level = 2.0 x Average API c		4.0513	

i

- n
- 4.5 Final Year (15)

Academic Performance	CAY (2017-18)	CAYm1 (2016-17)	CAYm2 (2015-16)
Mean of CGPA or mean percentage of all	(2017 10)		(2010 10)
successful students(X)	72.51	65.93	72.33
Total number of successful students(Y)	20	20	18
Total Number of students appeared in the examination(Z)	39	44	28
$API = x^* (Y/Z)$	3.718	2.9969	4.65
Average $API = (AP1 + AP2 + AP3)/3$	3.788		
Academic Performance Level = 1.5 x Average API		5.682	

4.6 Placement, Higher Studies and Entrepreneurship (40)

Assessment Points = 40 X Average placement

Item	Latest passed batch (2017-18)	Latest passed Minus 1 batch (2016-17)	Latest passed batch Minus 2 (2015-16)
Total number of final year students(N)	39	44	28
	36		
Total Number of students placed in companies or Government Sector(X)	02	06	03
Number of students admitted to higher studies(Y)	18	14	15
No. Of student turned entrepreneur in the respective engineering/Technology(Z)	00	00	00
1.25X + Y+Z	20.5	21.5	18.75
Placement Index(P):(1.25X+Y+Z)/N	0.525	0.488	0.669
Average Placement=(P1+P2+P3)/3		0.56	

4.6. a. Provide the placement data in the below mentioned format with the name of the program and the assessment year (separately for CAYm1, CAYm2 and CAYm3):

CE-20 1	17-18		
Sr.No	Name of Students	Enrollment no	Name of Employer
1	Ansari Sarosh Shabbir	1516290017	Latesh S. Sanklecha, Consulting Structural Engineer
2	Gawand Siddhi Sushil	1516290141	Latesh S. Sanklecha, Consulting Structural Engineer
CE-201	16-17		
Sr.No	Name of Students	Enrollment no	Name of Employer
1	Vishwakarma Brijkishor Uday	1316290188	Rock Construction, Bhiwandi
2	Kumawat Radhe Shyam Om Prakash	1416290082	Rock Construction, Bhiwandi
3	Chaudhary Amit Kumar Lalman	1416290085	Latesh S. Sanklecha, Consulting Structural Engineer
4	Tripathi Vishal Sanjay	1416290262	Latesh S. Sanklecha, Consulting Structural Engineer
5	Ansari Mohaddis Ashfaque	1416290279	Palm Groove Developers, Murbad
6	Pawar Vicky Vilas	1516290147	Palm Groove Developers, Murbad
CE-20 1	15-16		
Sr.No	Name of Students	Enrollment no	Name of Employer
1	Shirke Vishakha Anna	1316290025	Palm Groove Developers, Murbad
2	Deshmukh Sandesh	1316290132	Palm Groove Developers, Murbad
	Pandharinath		
3	Chaudhari Mhd. Shafiq Mhd. Rafiq	1416290270	Rock Construction, Bhiwandi

4.7. Professional Activities (20)

4.7.1. Professional societies / student chapters and organizing technical events (15)

ISTE Student Chapter:

The Indian Society for Technical Education is a national, professional, non-profit making Society registered under the Societies Registration Act 1860. In the year 1995. Students become member of this chapter since their entry in institute. ISTE chapter is that umbrella of institute which shelters, cares for and motivates the students to use their creative minds and their boundless imagination in the best possible way. The young, energetic, enthusiastic ISTEmembers have always made their mark wherever they set their foot.

Academic Year (2018-19)

Year	Activity
	Teacher's Day Celebration on 5 th September 2018
	Ouiz compatition on once in comester
	Quiz competition on once in semester.
	Poster Competition once in semester.
	Blood Donation camp conducting in association with Blood Bank (Last week of
	March) once in a year.
2018-19	Waman's Day was calabrated on 8 th March 2010
	women's Day was celebrated on 8 March 2019.
	Swachtha Bharat Abhiyan Students and staff participated in a cleanliness drive
	around College campus.
	National Service Scheme
	Technical Paper Presentation Competitions on 21 st August 2018
	reclinical ruper resentation competitions on 21 magast 2010
	Food Festival once in semester.
	Self1 Festival once in semester. World Students Day 15 th October 2018
	Youth Festival Day 12 th January 2018
	Matru Deo Bhao 23 rd February Every Year.
	Tree Plantation on 5 th July 2018
	Technical Event (TECHFESTA) 14,15,16 March. Every Year.

Academic Year (2017-18)

Year	Activity
	Teacher's Day Celebration on 5 th September 2017
	Engineer's Day Celebration on 15 th September 2017
	Quiz competition once in semester.
	Poster Competition on once in semester.
	Blood Donation camp was conducted in association with Blood Bank(Last week
	of March) once in a year.
2017-18	Women's Day was celebrated on 8 th March Every year.
	Swachtha Bharat Abhiyan Students and staff participated in a cleanliness drive
	around College campus. On
	National Service Scheme
	Technical Paper Presentation Competitions on 21st August 2017

	Food Festival once in semester.
	Selfi Festival once in semester.2017
	World Students Day 15 th October 2017
	Youth Festival Day 12 th January 2017
	Matru Deo Bhao 23 ^{ra} February Every year.
	Tree Plantation on 5 th June 2017.
	Technical Event (TECHFESTA) 14,15,16 March. Every year
Acadomic	Voor (2016-17)

Academic Year (2016-17)

Year	Activity		
	Teacher's Day Celebration on 5 th September 2016		
	Engineer's Day Celebration on 15 th September 2016		
	Quiz competition once in semester.		
	Poster Competition once in semester.		
	Blood Donation camp was conducted in association with Blood (Last week of		
	March) once in a year.		
2016-17	Women's Day was celebrated on 8 th March Every year		
	Swachtha Bharat Abhiyan Students and staff participated in a cleanliness drive		
	around College campus. On		
	National Service Scheme		
	Technical Paper Presentation Competitions on 21 st August 2016		
	Food Festival on once in semester.		
	Selfi Festival on once in semester.		
	World Students Day 15 th October 2016		
	1 outh Festival Day 12 January 2010 Matru Deo Bhao 23 rd February Every year		
	Tree Plantation on 5 th June 2016		
	Technical Event (TECHFESTA) 14,15,16 March. Every year		

Activity	Details of activity	Date	Beneficiary
Expert Lecture	"Entrepreneurship Opportunity for Engineers". by Mr. Pratapsinh K. Desai president ISTE New Delhi.	10 th September 2018	ED cell Members
Expert Lecture	Arranged seminar on topic EntrepreneurshipDevelopment. Dinesh Israni CEO at Tapswi Group ventures.	14 th July 2018	Students of diploma Civil
Short term Course	Startup Entrepreneurship - The journey begins!! (72 Hrs)	28 January 2019	ED cell Members

Entrepreneurship Development Cell:

4.7.2. Publication of technical magazines, newsletters, etc. (05)

(The Department shall list the publications mentioned earlier along with the names of the

editors, publishers, etc.)

List of Publications:

- □ College Magazine Yearly Publication
- □ Student Handbook Yearly Publication
- Departmental Newsletter Semester-wise Publication
- \Box Conference Proceedings Yearly
- □ Seminar Proceedings Yearly

CRITERION 5	Faculty Information and Contributions	150
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Faculty Information: 2018-19

ty Member		Graduation	Joining ttion	Distributio n of Teaching Load (%)		Academic Research					
Name of the Facul	Qualification	University and Year of (Designation and date of theinstitu	A	В	С	Researc h Paper Publicat ions	Faculty Receiving M.Tech/ Ph.D. during the Assessent Year	Years of experience	Nature of Associatio n(Regular / Contract)	Date of leaving
Mr. Pratik Deore	MTech	NIT Warangal (2018)	HOD, 09/07/2018	1	-	-	1		00	Regular	
Mr. Lokesh Lonare	ME	Sant Gadge Baba Amravati University (2013)	Lecturer, 05/07/2013	1	-	-	1	PhD Pursuing	06	Regular	
Mr. Prathmesh Patil	ME	Mumbai University (2018)	Lecturer, 22/12/2014	1	-	-	1	ME Completed	05	Regular	
Mr. Sourabh Gupta	M.Tech.	NIT Warangal (2012)	Lecturer, 10/07/2015	1	-	-	1		05	Regular	
Mr. Devidas Vanve	BE	Pune University (2015)	Lecturer, 04/07/2017	1	-	-	1	ME Pursuing	04	Regular	
Mr. Akshay Shirsat	BE	Sant Gadge Baba Amravati University (2016)	Lecturer, 04/07/2017	1	-	-	1		03	Regular	
Ms. Nivedita Dhangar	BE	Mumbai University (2016)	Lecturer, 26/07/2018	1	-	-	1		02	Regular	
Mr. Pranay Adhikari	BE	Mumbai University (2018)	Lecturer, 08/08/2018	1	-	-			00	Regular	
Mr. Hanmant Patne	M.A.	Swami Ramanand Teerth Marathwada University (2009)	Lecturer 23/06/2010	-	0.5	-		Registered for PhD	10	Regular	
Ms. Ashwini Kshirsagar	PhD	Sant Gadge Baba	Lecturer 25/07/2011	-	0.5	-			11	Regular	
		Amravati University (2014)									
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Ms. Yamini Patil	M.Tech.	Pune University (2010)	Lecturer 12/07/2012	-	0.45	-		08	Regular		
Mr.Mohd. Hamza Momin	M.Sc.	Mumbai University (2012)	Lecturer 04/06/2013	-	0.5	-	Registered for PhD	05	Regular		
Mr. Vivek Pandey	ME	Javharlal Neharu Technical University (2014)	Lecturer 10/01/2014	-	0.25	-		07	Regular		
Total				8	2.2						

Faculty Information: 2017-18

Faculty Member tion		of Graduation	of Joining titution	I n of L	Distributio n of Teaching Load (%) Academic Research						
Name of the Fa	Qualificatio	University and Year	Designation and date theins	A	В	С	Researc h Paper Publicat ions	Faculty Receiving M.Tech/ Ph.D. during the Assessent Year	Years of experience	Nature of Association (Regular/ Contract)	Date of leaving
Mr. Pawan Pandey	ME	Pune University (2015)	HOD Civil, 03/04/2013	1	-	-	1		06	Regular	
Mr. Lokesh Lonare	ME	Sant Gadge Baba Amravati University (2013)	Lecturer, 05/07/2013	1	-	-	1	PhD Pursuing	05	Regular	
Mr. Prathmesh Patil	BE	Mumbai University (2014)	Lecturer, 22/12/2014	1	-	-	1	ME Pursuing	04	Regular	
Mr. Sourabh Gupta	M.Tech.	NIT Warangal (2012)	Lecturer, 10/07/2015	1	-	-	1		04	Regular	
Mr. Jawan Bhakt Jalib Khan	M.Tech.	Mumbai University (2015)	Lecturer, 01/01/2016	1	-	-			10	Regular	
Ms. Pallavi Padwal	BE	Mumbai University (2016)	Lecurer, 16/01/2017	1	-	-	1		01	Regular	
Mr. Devidas Vanve	BE	Pune University (2015)	Lecturer, 04/07/2017	1	-	-	2	ME Pursuing	03	Regular	
Mr. Akshay Shirsat	BE	Sant Gadge Baba Amravati University (2016)	Lecturer, 04/07/2017	1	-	-	1		02	Regular	

Mr. Hanmant Patne	M.A.	Swami Ramanand Teerth Marathwada University (2009)	Lecturer, 23/06/2010	-	0.5	-		09	Regular	
Ms. Ashwini Kshirsagar	PhD	Sant Gadge Baba Amravati University (2014)	Lecturer, 25/07/2011	-	0.5	-		10	Regular	
Ms. Yamini Patil	M.Tech.	Pune University (2010)	Lecturer, 12/07/2012	-	0.45	-		07	Regular	
Mr.Mohd. Hamza Momin	M.Sc.	Mumbai University (2012)	Lecturer, 04/06/2013	-	0.5	-		04	Regular	
Mr. Vivek Pandey	ME	Javharlal Neharu Technical University (2014)	Lecturer, 10/01/2014	-	0.25	-		06	Regular	
Total				8	2.2					

Faculty Information: 2016-17

aculty Member		r of Graduation	l date of oining nstitution] I	Distri on o Feachi Load (buti f ng %)	Acade	emic Research			
Name of the F	Qualific ation	University and Yea	Designation and J thei	A	В	С	Research Paper Publicatio ns	Faculty Receivin g M.Tech/ Ph.D. during the Assessent Year	Years of experience	Nature of Association (Regular/ Contract)	Date of leaving
Mr. Pawan Pandey	ME	Pune University (2015)	HOD Civil, 03/04/2013	1	-	-	1		05	Regular	
Mr. Lokesh Lonare	ME	Sant Gadge Baba Amravati University (2013)	Lecturer, 05/07/2013	1	-	-	1	Registered for PhD	04	Regular	
Mr. Pashupati Shresta	BE	Pune University (2012)	Lecturer, 08/12/2014	1	-	-		ME Pursuing	04	Regular	
Ms. Neha Adhangale	BE	Mumbai University (2013)	Lecturer, 20/12/14	1	-	-			04	Regular	
Mr. Prathmesh Patil	BE	Mumbai University (2014)	Lecturer, 22/12/2014	1	-	-	1	ME Pursuing	03	Regular	

Mr. Sourabh Gupta	M.Tech.	NIT Warangal (2012)	Lecturer, 10/07/2015	1	-	-	1	03	Regular	
Mr. Viraj Bhagat	BE	Mumbai University (2014)	Lecturer, 01/08/2015	1				03	Regular	
Mr. Jawan Bhakt Jalib Khan	M.Tech.	Mumbai University (2015)	Lecturer, 01/01/2016	1	-	-		09	Regular	
Mr. Hanmant Patne	M.A.	Swami Ramanand Teerth Marathwada University (2009)	Lecturer 23/06/2010	-	0.5	-		08	Regular	
Ms. Ashwini Kshirsagar	PhD	Sant Gadge Baba Amravati University (2014)	Lecturer 25/07/2011	-	0.5	-		09	Regular	
Ms. Yamini Patil	M.Tech.	Pune University (2010)	Lecturer 12/07/2012	-	0.58	-		06	Regular	
Mr.Mohd. Hamza Momin	M.Sc.	Mumbai University (2012)	Lecturer 04/06/2013	-	0.5	-		03	Regular	
Mr. Vivek Pandey	ME	Javharlal Neharu Technical University (2014)	Lecturer 10/01/2014	-	0.25	-		05	Regular	
	Total		8	2.33						

Faculty Information: 2015-16

aculty Member		ır of Graduation	d date of loining nstitution	Ĩ	Distri on o Feachi Load (buti f mg %)	Academic Research				
Name of the J	Qualif cation	University and Yes	Designation an J	A	В	С	Research Paper Publicatio ns	Faculty Receivin g M.Tech/ Ph.D. during the Assessent Year	Years of experience	Nature of Association (Regular/ Contract)	Date of leaving
Mr. Pawan Pandey	ME	Pune University (2015)	HOD Civil, 03/04/2013	1	-	-	1		04	Regular	
Mr. Lokesh Lonare	ME	Sant Gadge Baba Amravati University (2013)	Lecturer, 05/07/2013	1	-	-	1		03	Regular	

Mr. Pashupati Shresta	BE	Pune University (2012)	Lecturer, 08/12/2014	1	-	-	2	ME Pursuing	03	Regular	
Ms. Neha Adhangale	BE	Mumbai University (2013)	Lecturer, 20/12/14	1	-	-			03	Regular	
Mr. Prathmesh Patil	BE	Mumbai University (2014)	Lecturer, 22/12/2014	1	-	-	1	ME Pursuing	02	Regular	
Mr. Sourabh Gupta	M.Tech.	NIT Warangal (2012)	Lecturer, 10/07/2015	1	-	-	1		02	Regular	
Mr. Viraj Bhagat	BE	Mumbai University (2014)	Lecturer, 01/08/2015	1					02	Regular	
Mr. Jawan Bhakt Jalib Khan	M.Tech.	Mumbai University (2015)	Lecturer, 01/01/2016	0.5	-	-			09	Regular	
Mr. Hanmant Patne	M.A.	Swami Ramanand Teerth Marathwada University (2009)	Lecturer 23/06/2010	-	0.5	-			07	Regular	
Ms. Ashwini Kshirsagar	PhD	Sant Gadge Baba Amravati University (2014)	Lecturer 25/07/2011	-	0.5	-			08	Regular	
Ms. Yamini Patil	M.Tech.	Pune University (2010)	Lecturer 12/07/2012	-	0.58	-			05	Regular	
Mr.Mohd. Hamza Momin	M.Sc.	Mumbai University (2012)	Lecturer 04/06/2013	-	0.5	-			02	Regular	
Mr. Vivek Pandey	ME	Javharlal Neharu Technical University (2014)	Lecturer 10/01/2014	-	0.25	-			04	Regular	
	Total			7.5	2.33						

Note: Please provide the above table for the CAY, CAYm1, CAYm2 and CAYm3.

5.1. Student-Faculty Ratio (SFR)(25)

S: F ratio=N/F;F=No. of faculty=(a+b) for every assessment year

a: Faculty of the specific program/ department considering fractional

load

b: Faculty serving this program from other Program/department considering fractional

load c: Faculty of this program serving other program/ department considering

fractional load

Note: Fractional load calculation

- **1.** Faculty taking physics course is having 50% of allocated load of first year civil engineering students, 25% load of first year mechanical engineering and 25% load of electrical engineering then the fractional load contribution will be 0.50 for civil engineering, 0.25 each for mechanical and electrical engineering.
- 2. Similarly fractional load to be calculated for inter department/program work load distribution.
- 6 Regular Faculty means:7
- 8 Minimum 75% should be Regular/ full time faculty and the remaining shall be Contractual Faculty as per AICTE norms and standards.
- 9 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 Student Faculty Ratio.
- 10 N=No. of students = Sanctioned Intake + Actually admitted lateral entry students

11

Year	Ν	F	SFR=N/F
2018-19	204	10.2	20
2017-18	204	10.2	20
2016-17	204	10.33	19.75
2015-16	204	9.83	20.75
	20.12		

12 Marks to be given proportionally from a maximum of 25 to a minimum of 10 for average SFR between 25:1 to 30:1, and zero for average SFR higher than 30:1. Marks distribution is given as below:

13 < = 25 – 25 Marks 14 15 < = 26 - 22 Marks 16 17 < = 27 – 20 Marks 18 19 < = 28 – 15 Marks 20 21 < = 29 - 12 Marks 22 23 < = 30 - 10 Marks 24 25 > 30 - 0 Marks 26

27 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
2018-19	8+5	0
2017-18	8+5	0
2016-17	8+5	0
2015-16	8+5	0

28 Table 5.1.1

5.2. Faculty Qualification(25)

5.2.1 Faculty Qualification Index(20)

FQ=2.0*(10x+7y)/F where x is no. of faculty with M.Tech. (in case of humanities and science M. Phil. /Ph.D.) And y is no. of faculty with B. Tech. (In case of humanities and science MA/M.sc), F is no. of faculty required to comply 1:25 Faculty Student Ratio.

Years	X	Y	F	FQ =2.0* (10x +7y)/F
2018-19	5.2	5	10.2	17.05
2017-18	5.2	5	10.2	17.05
2016-17	5.33	5	10.33	17.09
2015-16	4.83	5	9.83	16.94
		Average Assessn	17.03	

5.2.2 Availability of Faculty/principal of that discipline with Ph. D. Qualification (05)

5.3. Faculty Retention(20)

No. of regular faculty members in	CAYm2=	CAYm1=	CAY=					
Iter	n			Marks				
(% off aculty retained during the period year	of assessment keep r)	ping CAYm3asbase	:					
>= 90% of required Faculties retained averaged ove base ye	as	20						
>= 75% of required Faculties retained averaged ove base ye	as	15						
>= 60% of required Faculties retained averaged ove base ye	ear	ment keeping CAYm3	as	10				
>= 50% of required Faculties retained averaged ove base ye	→ base year → 50% of required Faculties retained averaged over the period of assessment keeping CAYm3 as base year							
<50% of required Faculties retained averaged over the pe	eriodofassessment kee	eping CAY <i>m</i> 3 as basey	ear	0				

Alamuri Ratnamala	Institute of Engine	eering and Techi	nology,Shahapur,M.S
	0	0	

Sr. No.	2018-19	2017-18	2016-17	2015-16
1.	Mr. Pratik Deore	-	-	-
2.	-	Mr. Pawan Pandey	Mr. Pawan Pandey	Mr. Pawan Pandey
3.	Mr. Lokesh Lonare	Mr. Lokesh Lonare	Mr. Lokesh Lonare	Mr. Lokesh Lonare
4.	-	-	Mr. Pashupati Shresta	Mr. Pashupati Shresta
5.	-	-	Ms. Neha Adhangale	Ms. Neha Adhangale
6.	Mr. Prathmesh Patil	Mr. Prathmesh Patil	Mr. Prathmesh Patil	Mr. Prathmesh Patil
7.	Mr. Sourabh Gupta	Mr. Sourabh Gupta	Mr. Sourabh Gupta	Mr. Sourabh Gupta
8.	-	-	Mr. Viraj Bhagat	Mr. Viraj Bhagat
9.	-	Mr. Jawan Bhakt Jalib Khan	Mr. Jawan Bhakt Jalib Khan	Mr. Jawan Bhakt Jalib Khan
10.		Ms. Pallavi Padwal		
11.	Mr. Devidas Vanve	Mr. Devidas Vanve	-	-
12.	Mr. Akshay Shirsat	Mr. Akshay Shirsat	-	-
13.	Ms. Nivedita Dhangar	-	-	-
14.	Mr. Pranay Adhikari	-	-	-
15.	Mr. Hanmant Patne	Mr. Hanmant Patne	Mr. Hanmant Patne	Mr. Hanmant Patne
16.	Ms. Ashwini Kshirsagar	Ms. Ashwini Kshirsagar	Ms. Ashwini Kshirsagar	Ms. Ashwini Kshirsagar
17.	Ms. Yamini Patil	Ms. Yamini Patil	Ms. Yamini Patil	Ms. Yamini Patil
18.	Mr.Mohd. Hamza Momin	Mr.Mohd. Hamza Momin	Mr.Mohd. Hamza Momin	Mr.Mohd. Hamza Momin
19.	Mr. Vivek Pandey	Mr. Vivek Pandey	Mr. Vivek Pandey	Mr. Vivek Pandey
	70.58%	70.95%	100%	69.48%
		Average		80.51%

5.4. Faculty as participation Faculty development/training activities conducted by other organizations (30)

- A Faculty scores maximum five points for participation
- Participantin1to2daysFaculty/facultydevelopmentprogram:1Points

Nome of the Feaulty	Max. 5 per Faculty					
Name of the Faculty	2018-19	2017-18	2016-17	2015-16		
Mr. Pratik Deore	5					
Mr. Pawan Pandey		5	5	5		
Mr. Lokesh Lonare	5	5	5	5		
Mr. Pashupati Shresta			5	5		
Ms. Neha Adhangale			5	5		
Mr. Prathmesh Patil	5	5	5	5		

Mr. Sourabh Gupta	5	5	5	5		
Mr. Viraj Bhagat			5	5		
Mr. Jawan Bhakt Jalib Khan		5	5	5		
Ms. Pallavi Padwal		5				
Mr. Devidas Vanve	5	5				
Mr. Akshay Shirsat	5	5				
Ms. Nivedita Dhangar	5					
Mr. Pranay Adhikari	5					
S u m	40	40	40	40		
<i>RF</i> = Number of Faculty required to comply with 25:1 Student-Faculty ratio as per 5.1	9	9	9	9		
Assessment = 6 × Sum/0.5RF (Marks limited to 30)	53.33	53.33	53.33	53.33		
Average assessment over three years (Marks limited to 30) = 30						

Organized/ Conducted FDPs and STTP by this department at State / National Level (12)

- Department organizes FDPs and STTP every semester.
- Every semester students attend one STTP organized by Department and conducted in every semester in our department.
- Every semester faculty also attends one FDPs and STTP in our department.
- Various programmes done our department Such as Auto CAD, stradd Pro, 3 D Printing, soft skills and communication skills, solar energy and it's workshops and training by experts.

5.5 Product development, Consultancy, Manufacturing contracts, testing contracts(8)

• Consultancy work is done by various Industries in our department work such as construction material testing. From Such industries after work done revenue is generated.

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

5.6.1 A well-defined FPADS instituted for all the assessment years (05)

A well-defined system implemented for all the assessment years

Institute is following Performance Appraisal Development System with the following objectives

- Effective Teaching Learning mechanism for each Course Theory and Practical.
- Ensure regular Teaching, Co-curricular and Extra-curricular activities.
- Presenting Technical / Research papers in National and International Conferences.

5.4. a.

- Publication of Journal Papers
- Guidance for Innovative, Application based projects
- Specific Individual achievements
- Faculty involvement for Guest lectures, Quiz, Technical Paper presentation, Project competitions and other Co-Curricular activities.
- Induction Training
- Content Updating Workshops
- Industrial Trainings

5.6.2 FPADS implementation and its Effectiveness: (15) Key Performance Indicators in the Self-Appraisal

- Teaching and practical load details of Curricular, Co-curricular responsibilities
- Course Result Analysis and Student feedback
- Conference Papers presented
- Skill Upgrades / Trainings / Workshops Organized/attended
- Conferences / Guest lecturers Organized/ attended
- Journal Papers/ Books published
- Membership of Professional bodies
- Awards, Innovative Projects

The Appraisals are evaluated on 100 point scale and observations are conveyed to the

respective staff members.

The Self-Appraisal forms submitted by Individual staff members includes Academic and Personal contributions of the academic year. The system helps in faculty accountability and the effect is visible in the below listed aspects.

Faculty:

- Staffs are made aware of their Role and Responsibilities.
- Teaching Plan with learning resources ready with every Teacher at the start of term.
- Inculcates Outcome Based Teaching Learning process culture.

- Facilitates participation of Teachers in Peer Reviewed Conferences.
- Encourages publication of Journal Papers.
- Participation of staff in MSBTE Curriculum Career Fair and other initiatives.
- Innovative practices in Teaching/learning, Use of ICT tools
- Motivating students for Co-curricular activities.
- Motivation to participate in Content Updating as well as Industrial Training Activities.

Institution:

- Better equipped and motivated human resource.
- Competent and Peer recognized faculty.
- Establishing credibility within the Student community and Society.
- Helps in achieving goals of the Organization.
- Ability to deal with the futuristic needs.

5.6.3 Qualification up-gradation of faculty: (10)

For enriching academic performance and effectiveness Teaching and Support staff are regularly deputed to attend Certificate courses, Workshops, Training Programme, Industrial Trainings, Industrial Visits, Industry Exhibitions and Conferences. Such events help the staff to remain updated for Curriculum Implementation.

Staff Development Activities

In view of inviting Industrial experts and give opportunity for publication of Conference papers, the institute organizes National Conferences every year. The event is announced a year in advance and Proceedings of the same are published during the Conference. The event receives adequate sponsorship and participation support from external delegates and students

Academic Year	Name of faculty for M.Tech. or M.E. / Ph.D.			
	Mr. Devidas Vanve (ME Pursuing)			
2018-19	Mr. Lokesh Lonare (PhD Pursuing)			
	Mr. Prathmesh Patil (ME Completed)			
	Mr. Prathmesh Patil (ME Pursuing)			
2017-18	Mr. Devidas Vanve (ME Pursuing)			
	Mr. Lokesh Lonare (PhD Pursuing)			
	Mr. Prathmesh Patil (ME Pursuing)			
2016-17	Mr. Pashupati Shresta (ME Pursuing)			
	Mr. Prathmesh Patil (ME Pursuing)			
2015-16	Mr. Pashupati Shresta (ME Pursuing)			

CRITERION 6	Facilities And Technical Support	100
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6.1. Availabilityofadequate, well-equipped classroom stomeet the curriculum requirements (10)

Room description	Legend Name	Area (sq. m)	Available facility
CLASS ROOM	G-08	66	Interactive board (smart board), Liquid Crystal Display Projector & LAN.
	G-09	66	Interactive board (smart board), Liquid Crystal Display Projector & LAN.
	G-11	66	Interactive board, Liquid Crystal Display Projector, LAN, Chair.
	Drawing Hall	132	Green board, Drawing board, Various 3D solid models, Computer Aided Design Software
TUTORIAL ROOM	SF-TR 1	33	Liquid Crystal Display (LCD) projector.

6.2 Availability of adequate and well equipped workshops, Laboratories and Technical manpower to meet the curriculum requirements (40)

S.No	Name of the Laboratory	No. of Student	Number of Important Equipment	It Weekly utilization status (all the courses for which Name of the Designation Overlification	Technical Manpower support		· support
	, 	Per Batch		courses for which the labs utilized)	Name of the Technical Staff	Designation	Qualification
1	SURVEYING LAB i) Basic Surveying ii) Advanced surveying	20	 Total Station, Transit Theodolite, Auto level, Dumpylevel, Digital Planimeter 	8 hrs/ week	Ms.Shaila Chaudhari	Lab Assistant	Diploma In Civil Engineering
2	WORKSHOP i). Civil engineering workshop and practice	20	 1.Lathe machine, 2.drill machine, 3.spot welding machine, 4.electric arc welding machine, 5.shearing 	8 hr / week	Mr. Samadhan Ragade	Lab Assistant	

			machine, 6. shaper Machine 7.GrindingMachine 8.Woodworking Lathe,				ITI
			9. Power Hex saw cutting machine, 10.milling machine				
3	BUILDING MATERIAL AND CONSTRUCTI ON LAB i) Building construction ii)Construction material	20	1.Various Model of Building elements, 2.Various Building construction materials.	4hr/week	Ms.Priyanka Nichite	Lab Assistant	Diploma In Civil Engineering
4	CONCRETE TECHNOLOGY LAB	20	 1.Compression Testing Machine, 2.Los Angeles Abrasion testing machine, 3.Universal testing machine 4.Aggregate Impact Testing machine, 5.Compaction factor test 	8 hrs / week	Ms. Urmila Naik	Lab Assistant	Diploma In Civil Engineering
5	TRANSPORTATI ON ENGINEERING LAB i) Highway engineering	20	1.Compression Testing Machine, 2.Los Angeles Abrasion testing machine, 3.Bitumen ductility test, 4.Bitumen penetrometer,	4hr / week	Ms.Priyanka Nichite	Lab Assistant	Diploma In Civil Engineering
6	APPLIED MECHANICS LAB	20	 Screw jack Chain Pulley Block Jib Crane Universal Force Table. 	4 hr/ week	Ms.Shaila Chaudhari	Lab Assistant	Diploma In Civil Engineering

7	GEOTECHNIC	20	1. Direst Shear Tes		Ms.Pradnaya		
	ALENGINEERI		2. Tri axial Test		Dhodare		
			Equipment,				
			3. Vane Shear Test				
			4 Unconfined				
			Compression Test				
			Equipment.				
			5.permeability test	4 hrs/ week		Lab Assistant	Diploma In
			apparatus,				Civil
			7.triaxial shear test				Engineering
			8. CBR Testing				
			9 Consolidation				
			Test Equipment				
0		20	1 17		Ma Malaash		
0	LAB	20	1. venturimeter, Orifice and		Nir. Mukesn Yaday		
			Mouthpieces.	4hrs / week	1 ada v		
			Reynolds's				
			Apparatus,				
			Notches and			T 1 A B C C	
			Welf, 2 Bernoulli's			Lab Assistant	Diploma In
			Theorem				mechanical
			apparatus-,				Engineering
			4.Reciprocating				
			Pump,				
			5.Centrifugal				
			6 Pelton Wheel				
			Turbine,				
9	CAD LAB	20	AutoCAD		Mr.Manoj	Lab Assistant	
			Software version		Aware		
			2015. MS Office	8 hrs/ week			Bsc Comp.
			MS Office				
10	STRENGTH	20	1. Universal		Mr.Mukesh	Lab Assistant	
	LAB		Testing Machine,		Yadav		
	i) Mechanics		2. Impact test				
	of structure		3. Tile abrasion.	4 hrs/week			
			4. Tile Flexural				
			testing,				Diploma In
			5. Wheel				mechanical
			Δy le				Engineering
			6. Beam Lever				
			Apparatus,				
			7. Torsion Testing				
			Machine				N 1
11	ENVIRONMEN TAL	20	1.BOD incubator,		Ms.Urmila		Diploma In
			2.Jar test		INAIK		CIVII

|--|

ENGINEERING LABAppara 3.Nephi) Public Health Engineeringturbidi 4.Resp sample	atus, 4hr / week hlometric ity meter, pirable Dust er,	Lab Assistant	Engineering
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6.3 Additional facilities created for improving the quality of learning experience in laboratories (20)

S.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.	Charts	Subject-wise Charts available for learning (96 charts are available)	Explanation manufacturing procedure. To clarify concept by visual display	During practical's Constant exposure to Visual displays help in remembering concepts for a longer time	CTE, CMA, SWM, EST, SUR, GTE, CAA, IRE, HEN, PHE,HRY.	PO1,PO2,PO3,PO 4,PO5,PO6,PO7, PO10,PSO1
2.	Models	Representation of an idea, an object or even a process or a system that is used to describe and explain phenomena that cannot be experienced directly.	Physical understanding, modeling and their instabilities.	For Creating physical Awareness, Constant exposure to Visual displays help in remembering concepts for a longer time	RBE, SWM, BMC, CMA,HRY,PHE,	PO1,PO2,PO3,PO 4,PO5,PO6,PO7, PO10,PSO1
3.	student safety	work in properly- ventilated areas, wear the appropriate gloves, apron, fire extinguisher, basins.	Maintaining student safety during laboratory experiences is a critical concern, but little systematic information is available about safety problems and solutions.	While performing practical all the safety measure are taken.	CTE,CMA, CEW, PHE,GTE,HRY	PO1, PO2, PO4, PO8, PSO4
4.	wireless Internet connections	In every lab, entire campus open access to internet facility (64mbps)	Wireless devices within range of each other can discover and communicate directly without involving central access points.	To get the overall idea about the practical and then perform accordingly.	GTE, GEO, PHE, CTE, CMA, HRY, CEW , PHE. MOS.	PO1, PO2,PO4,

Alamuri Ratnamala Institute of Engineering and Technology,Shahapur,M.S.

5.	flexible use of space	Proper Space For Moving to students.	lab spaces to meet their needs and easily move heavy equipment	Proper handling of equipment and free movement for students	GTE, GEO, PHE, CTE, CMA, HRY, CEW, PHE. MOS, SUR.	PO2,PO6, PO9, PSO1.
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6.4. Laboratories: Maintenance and overall ambiance (10) (self Explanatory)

Laboratories: Maintenance

Periodic maintenance, preventive maintenance, breakdown maintenance of all the equipment and instruments are carried out to ensure proper functioning of them. The ambience of all the Laboratories is good for carrying out the experiments as per the curriculum.

Maintenance:

Routine maintenance is carried out in the hydraulics lab for Reciprocating Pump, Centrifugal pump, Pelton Wheel Turbine etc. as well as survey laboratory for dumpy levels and theodolites to ensure that the permanent adjustments of the instruments are intact. Calibration of proving rings, UTM and Apparatus are done. All PC's in the CAD lab are kept in working condition.

Ambience:

- The laboratories are well ventilated and airy.
- The students are advised to wear aprons in chemistry, public health engineering and workshops
- The instruction sheet with respect to dos and don'ts are displayed for students understanding.
- Proper seating arrangement is provided in all the laboratories for the students to sit and complete their manual related activities.
- Safety measures are undertaken and students are warned about the same to prevent accidents in laboratories
- Each lab is provided with a green board to enable laboratory teaching.
- The relevant charts, step wise procedure of all the experiments are displayed on the walls of the laboratory.
- Fire extinguishers are provided at prominent locations and are maintained regularly and training is given to all staff.

6.5 Availability of computing facility in the department (10)

Number of Computer Terminals	Students Computer Ratio	Details of Legal Software's	Details of Networking	Details of printers and scanners
60	1:1	1)0365proplusopenfaculty ShrdSvr ALNG SubVL OLV E 1Mth Acdmc AP1 Year. MS Part NO:5FV- 00001 2)WINEDU ALNG UpgrdSAPk OLV E 1 Year Acdmc Ent MS Part No:KW5-00359 3)IntuneOpen ShrdSvr ALNG SubsVL OLV E 1Year Acdmc AP Fclty MS Part No:3LN-00001 4)WinSvrSTDCore ALNG LicSAPk OLV 2 LIC E Year Acdmc AP core licence MS part No:9EM-00294 5) WinSvrCAL ALNG LicSAPk OLV E 1 Year Acdmc Ent DvcCAL MS Part No:R18-03497 6) Windows7 ultimate	LAN	Yes, Available (HP laser Jet P1007)

6.6. Language lab (10)

LANGUAGE LAB AND ITS UTILIZATION; (10)

ARMIET, Shahapur has a language lab to improve the communication skills of students. Majority of the students are from vernacular medium; the language labs availability is a boon to students weak in communication skills. Weekly two hours are allotted to civil students after their working hours and the teacher concerned helps the students to acquire the necessary skills through the use of the resources available in the lab. A register is maintained showing the utilization of the laboratory.

Number of Computer Terminals	Students Computer Ratio	Details of Legal Software's	Details of Networking	Details Headphone with Mike
50	1:1	 ACE Digital language lab software Windows7 ultimate 	LAN	50

CRITERION	NO 7
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7.1. Actions taken based on the results of evaluation of each of the POs & PSOs (25) Programme Outcomes (POs)

POs	Target	Attainment	Observations					
	Level	Level						
PO1: Basic	PO1: Basic knowledge: Apply knowledge of basic mathematics, sciences and basic							
engineering	to solve the bro	ad-based Civil er	ngineering problems.					
	1.81.93Moderately Target is achieved							
PO1	PO1							
Action1: Ev	ery week additi	onal lectures are	conducted to solve previous board question papers					
problems in	Mathematics.	ad to muite former	loo nemooto div					
Action2: Stu	idents are advis	ed to write formu	liae repeatedly.					
Action3: Fo	r weak students	remedial lectures	s are arranged after completion of syllabus.					
PO2: Discij	pline knowledg	e: Apply Civil en	igineering knowledge to solve broad-based Civil					
engineering	related problem	IS.						
PO2	1.8	2.07	l arget is achieved					
Action1: Stu	idents are given	more exposure t	o live projects through the use of various					
A officer 2: Th	and developing	projects by the v	way of providing Training & sile visits					
that can be	anning for united	ent courses in A	avance framing institute to furnish the knowledge					
	applied during ti	le project work.						
PO 3: Expe	riments and pr	actice: Plan to p	erform experiments and practices to use the					
results to so	lve broad-based	Civil engineerin	g problems.					
PO 3	1.8	2.27	Target is achieved					
Action1: Su	bject teacher ex	plains to the Stud	lents relation between theory and practical with					
help of vide	os, PPTs and m	odels of each sub	ject to taking them on construction site.					
Action2: Fo	r simple topics a	and experiments,	the students are encouraged to explain the					
experiment	in a group.							
PO 4: Engineering tools: Apply relevant Civil technologies and tools with an understanding								
of the limita	of the limitations.							
PO 4	1.8	2.24	Target is achieved					
Action1: Stu	idents are made	aware of differen	nt tools/Techniques/Instruments that can be used.					
Action 2 : T	raining provide	d for the students	on recent tools/techniques.					
PO 5: The	engineer and so	ciety: Assess so	cietal, health, safety, legal and cultural issues and					

the consequent responsibilities relevant to practice in field of Civil engineering.							
PO 5	1.8	1.97	Target is achieved				
Action1: Gu Developmen Action2: Di Studies. Action3: A their tasks in	Action1: Guest Lectures are conducted on topics such as time/stress management, Personality Development and safety aspects while working on sites. Action2: Different techniques are taught to students to effectively manage their time and Studies. Action3: A well planned semester with activities makes it easier for the students to complete						
PO 6: Envi	ronment and su	istainability: Ap	pply Civil engineering solutions for sustainable				
developmen	t practices in so	cietal and enviror	nmental contexts.				
PO 6	1.8	1.86	Moderately Target is achieved				
 Action 1: Students are made aware of various aspects of environmental damage/Pollution that can happen as an impact of engineering solutions. Action 2: Students are also made aware of health hazards & safety. Action 3: Students are encouraged to use recycling techniques and also taught composting Techniques and Solid waste Management for Environment Sustainability. PO 7: Ethics: Apply ethical principles for commitment to professional ethics, responsibilities 							
and norms of	of the practice in	the field of Civil	l engineering.				
PO 7	1.8	1.61	It has been observed that students are not aware from standard norms & guidelines for practice of civil engineering work.				
 Action1: Students are encouraged to follow IS Codes and Environmental guidelines during the experiments & project work Action 2 : Interaction with industry expertise and guest lectures on professional ethics and campus to corporate lectures are organized. PO 8: Individual and team work: Function effectively as a leader and team member in 							
diverse/ multidisciplinary teams.							
Action 1 Se	1.8 minar / Guest L	1.85 actures on Leader	Moderately larget is achieved				
Action2: Student are provided platform for showing skills in leadership quality in co-curricular & extra co-curricular activity in Institute and other institute as an individual & member of group for Technical paper presentation, Sports Activity, Mathru-Devo-Bhava, food festival, youth festival are conducted for improving their leadership qualities.							
PO 9: Communication: Communicate effectively in oral and written form.							
PO 9	1.8	1.65	Majority of the students are from vernacular medium. They are weak in communication.				
Action1: Importance is given on improving the communication skills. Action2: Activities such as group discussion, role-plays are conducted. Action3: Communication skill Training is provided to the students for improvement.							
PO 10:Life	-long learning:	Engage in indep	endent and life-long learning activities in the				
context of technological changes also in the Civil engineering and allied industry.							

PO 10	1.8	1.57	Civil Engineering field are dynamic but it has been observed that students are not aware of recent development in technology.	
Action1: Students are introduced to the latest developments in the Civil Engineering field by				
way of expert lectures, Industrial Visits, Internship.				

Programme Specific Outcomes (PSOs)

PSOs	Target	Attainment	Observations				
	Level	Level					
PSO 1: Understand :	Should be able to	o clearly understand	the concepts and applications in				
the field of Civil Engineering.							
PSO1	PSO1 1.8 1.96 Moderately target is achieved						
Action1: Students are 1	made aware of Ba	sic concepts/ Knowl	edge of field application.				
Action2: We are provid	ding Value Addec	l Program, Training	in Advance training institute &				
Internships.							
PSO2: Associate Lear	rning: Should be	able to associate the	learning from the courses related				
to Building Construction	on, Surveying, Es	timation and Valuati	on to arrive at solutions to real				
world problems.							
PSO2	1.8	2.02	Target is achieved				
Action1: Industrial Vis	its are arranged o	n different construct	ion Sites.				
Action2: Students are e	encouraged to tak	e final year projects	on recent market trends.				
PSO 3: Analyze and I	Design: Should ha	ave the capability to	comprehend the technological				
advancements in the us	sage of modern de	esign tools, Instrume	nts, software's to analysis and				
design structures for a	variety of applica	tions.					
PSO 3	PSO 3 1.8 1.95 Moderately Target is achieved						
Action1: Practice is given	ven to students to	analyze, and Design	the structures.				
Action 2: We are provi	ding Value Adde	d program courses li	ke AutoCAD, PRIMAVERA				
etc.							
PSO 4: Practice: Shou	ld posses the skil	ls to communicate ir	both oral and written forms, the				
work already done and	the future plans	with necessary road n	naps, demonstrating the practice				
of professional ethics and the concerns for societal and Environmental well being.							
			Students are not able to solve				
PSO 4	1.8	1.68	Practical Problems due to lack				
			of basic fundamental knowledge and advanced skills				
Action 1: Students are	taught with the a	polication of fundam	ental knowledge in Civil				
Practices.							
Action 2: Live problem	ns are discussed w	with students so as to	help them in solving problems at				
Client site.							

7.2 Improvement in Success Index of students without backlog (10)

Items	LPB* (2017-18)	LPBm1 (2016-17)	LPBm2 (2015-16)
Success Index	0.03125	0.0303	0.0333
(From			
4.2.1)			

Latest Passed out batch and m1 & m2 indicate minus one year and minus 2 years

Respectively

SI= (Number of students who have passed from the program in the stipulated period of course duration)/(Number of

students admitted in the first year of that batch and admitted in 2nd year via lateral entry)

Assessment shall be based on improvement trends in success indices. Marks are awarded accordingly.

7.3 Improvement in placement and higher studies (10)

Assessment is based on improvement in:

- Placements: Number, quality placement, core industry, pay packages etc.
- Higher studies: admissions in premier institutes

Items	LPB* (2016-17)	LPBm1 (2015-16)	LPBm2 (2014-15)
Placement Index	0.525	0.488	0.669
(From 4.6)			

7.4 Improvement in Academic Performance in Final Year (10) Assessment is based on improvement in:

Items	LPB* (2017-18)	LPBm1 (2016-17)	LPBm2 (2015-16)
Academic Performance Index (From 4.3)	2.832	2.460	1.516

7.5 Internal Academic Audits to review complete academics and to implement Corrective Actions on continuous basis (10)

Items	CAY (2018-19)	CAYm1(2017-18)	CAYm1(2016-17)
Internal Academic	Faculty Audit Exam.	Faculty Audit Exam.	Faculty Audit Exam.
Audits	Syllabus Coverage of	Syllabus Coverage of	Syllabus Coverage of
	TH/PR On regular	TH/PR On regular	TH/PR On regular

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interval. interval.						
	Student feedback	Student feedback	Student feedback			

7.6 New Facility created in the program (10)

Items	CAY (2018-19)	CAYm1(2017-18)	CAYm1(2016-17)	CAYm1(2015-
				16)
	1.Surveying	1.VAP(Value	1.Smart board	1.Projector
New	PHE Lab and	Added	installed,	installed
Facility	Geo-tech Lab	Program)courses	2.Projector	2.Videos
created	enriched,	introduced,	installed,	created
	2. Videos	2.Language	3.Videos created,	3. PPTs is
	created	Updation,	4.PPTs created	created,
	enriched,	3.Solar training lab	enriched,	4.Solutions to
	3.PPTs created,	created,	5.Solutions to old	old question
	Consultancy	4.3 D lab created,	question papers	papers is
	cell setup done,	5.Videos created &	created enriched,	created,
	4. Solutions to	shared link to	6.Language Lab	5. Notes
	old question	students,	setup done.	updation.
	paper created	6.PPTs created,		
	enriched.	7. Solutions to old		
		question papers is		
		created enriched.		

CRITERION 8

STUDENT SUPPORT SYSTEMS

8.1 Mentoring system to help at Individual Level(10)_

Purpose of Mentoring:

Mentoring is a research validated intervention to build students' assets addressing issues such as skills for academic performance, behavior, attendance, conflict management and Institution success.

 \succ To support and encourage the students (mentees) to manage their own learning in order that they maximize their potential, develop their own skills, strategies, capability and improve their performance, thus enabling them to tackle the challenges in their life more effectively and become the person they want to be.

> To create awareness about the various hidden potential of students, thereby improving their overall performance.

- > To overcome various weaknesses of students.
- > To solve various issues and problems related to students.
- > To give a platform for students to express their issues freely and frankly.
- > To form strong relationships and alliances with student of diverse cultures and backgrounds.

Our Polytechnic College has adopted a mentoring system which takes care of the various issues related to students and enhances their academic performance, develops their personality and helps them tackle hurdles in professional career and become a good citizen of India. In our mentoring system, HOD acting as counselor keep a close watch on individual student's behavior along with mentors to identify the need for assistance. Counseling is done at the personal level by Mentors & HOD.

Mentoring process:

A batch of 20 students is assigned to a mentor. The mentor interacts with students twice in a month during semester. The role and responsibility of mentor and counselor are described below.

1) Type of Mentoring: Professional guidance/career advancement/course work

specific/Laboratory specific/All-round/financial help /stress-relieving etc.

- 2) No. of Students per Mentor: 20 25 Students
- 3) No. of Mentors per class: 3 mentors
- 4) **Frequency of Meeting:** Twice in Every Month during a semester.

A) **Functions of Mentor:**

1. Mentors serve as positive role model, encourage and motivate students to achieve their target/goal.

2. Motivate and guide students in all academic, co-curricular, and extra-curricular activities for value addition as member of society.

3. Mentors should meet the group of students assigned to him/her at least twice in every month during a semester.

4. Maintain each student's profile as per given format.

5. Mentors have to maintain a register book to record their complaints/issues/feedback. Mentors have to put their signatures in register book.

6. Mentors shall redress the student's complaints in consultation with HOD.

7. Collect information regarding weak students from the subject teachers, Take necessary remedial measures or forward the cases to HOD.

8. Mentors identify good students and motivate them to excel.

9. Mentors share vital information of students with concerned HOD cum councellor

10. Mentors submit a report to concerned HOD regularly and seek/ remedial actions meant for improvement

B) Roles & Responsibilities of Counsellor-cum-HOD:

- 1. Guide the students about MSBTE rules of attendance for being eligible for writing semester examination.
- 2. To display the lesson plan and portion of syllabus for Class Tests on notice board.
- 3. Call Meeting for parents of students, especially defaulters in consultation with mentors.
- 4. Contact and apprise parents/guardians, if required, regarding academic irregularities and/or detrimental activities observed in students.
- 5. Display the names of 3 toppers of the class in Board Examination.
- 6. Display and maintain data regarding students' achievements in curricular, co- curricular and extra-curricular activities.
- 7. Share vital information of students with concerned mentors.
- 8. In case of students facing lack of concentration / motivation /interest or personality related

problems, the HOD may seek help of professional Councellor.

- 9. Every effort is made for all-round personality development of students enrolled.
 - C) **Documentation:** The list of documents related to our mentoring system is mentioned in the table given below.

Format ID	Description	Maintained By
F-1	Function of Mentor	Mentor
F-2	Students Profile	Mentor
F-3	Meeting of Mentor with Students	Mentor
F-4	Mentoring Record Book	Mentor
F-5	List of Weak students with Attributes	Mentor
F-6	List of Bright students with Attributes	Mentor
F-7	Remedial Measures for Weak Students by HOD /Councellor	HOD-Cum Councellor
F-8	Measures taken to motivate bright students by HOD /Councellor	HOD-Cum Councellor
F-9	Students Feedback	HOD-Cum Councellor
F-10	Feedback on Facilities	HOD-Cum Councellor
F-11	Students / Parents Grievances (Program Level)	HOD-Cum Councellor
F-12	Students / Parents Grievances (Institute Level)	Principal
F-13	Suggestion / Complaint format	Principal
F-14	Toppers in Term End Examination	HOD-Cum Councellor

D) Efficacy of Mentoring System:

1. Reduce absenteeism.

- 2. Improve overall academic performance.
- 3. Develop multi-dimensional personality.
- 4. Increase participation in Institute's activities.
- 5. Improve attitudes and behaviour.
- 6. Eradicate usages of tobacco, drugs and alcohol.
- 7. Improve parental relationships and support from peers.
- 8. To become worthy citizen of India.

8.2 Feedback analysis and reward /corrective measures taken, if any (10)

- All diploma programs follow the same mentoring system as explained in 8.1 and accordingly maintain the various documents.
- Feedback from students with respect to teaching and facilities, feedback analysis and remedial action thereafter are in-built in our mentoring system. These records are maintained by every department.
- Feedback is collected for all courses and all course-teachers as per the MSBTE format.
 The feedback is quantified.
- Remedial action is taken by the HOD.
- ♦ Batch size of students selected randomly for feedback approximately 50%.

8.3 Feedback on facilities (5)

- Feedback on facilities is also in-built in our mentoring system as explained above in8.1
- Every department collects feedback on facilities as per the format F10.
- Feedback is obtained on a scale of 1 to 5. Overall rating is then quantified and submitted to HOD at department level and Principal at Institute level.
- Remedial action is taken by the HOD at department level and Principal at Institute level.
 8.4 Career Guidance, Training, Placement (20)
- The training and placement cell has been formed for the job placement and in-plant training of students.
- Training and Placement (T&P) Cell maintains a strong bond between institute and industry.

- It interacts with the industry frequently by arranging Industrial visits, encouraging students to carry industrial projects and trainings, reciprocating the feedbacks of students to departments, inviting experts from industry for involving them in our academic programs to enhance program outcomes.
- It takes care of students by providing training to make the student eligible for the industry.
- It also maintains updated database of students and forwards it to the industry as per requirement.
- Company details and job profiles are displayed on notice boards before a company visit to the institute.

Names of Training and Placement Officer and Coordinators (TPCs):

Sr. No.	Name of Coordinators of Training & Placement	Mobile No.	E-mail ID
1.	Hanmant Patne , TPO	8879648621	hanmant.patne 2012@gmail.com
2.	Nivedita Dhangar, Civil	9503719277	niveditadhangar95@gmail.com
3.	Vinay Bhaskar, Mechanical	7680915967	vinaysbhaskar3124@gmail.com
4.	Aniket Sonawane, EXTC	7507626210	aniketsonawane.0101@gmail.com

List of tasks performed by Training and Placement Cell of the Institute academic year 2018-19

Sr No	Name of TPC	Tasks	Beneficiaries	VENUE and Date
1	Hanmant Patne	Interview of Civil Candidate for Summer Internship	CE4G	
		HAWARE ENGINEERS AND BUILDERS PVT.LTD.	08	
		CHINTAMANI CONSTRUCTION SHIV CONSTRUCTION	10	
		SHIV CONSTRUCTION		

		SHREE CONMATE	05	
		ENGINEERING	00	
		SERVICES		
		HAWARE PROPERTIES	10	
		EPICON	10	
		CONSULTANTS		
			06	Office Location
		S.D.CONSULTANTS		Summer Internship
		GURUKRUPA	02	for A codemic Year
		CONSTRUCTION		for Academic Year
			04	2018-2019
		CORPORATION		
		E-CUBE	06	
		CONSULTANTS		
			05	
		CORE		
		INFRASTRUCTURE	02	
			02	
			Total - 58	
2	Hanmant Patne	Interview of Civil		Office Location
2		Candidate Latesh Sanklecha	CEOG	13/03/2019
		Consulting Structural	No One Selected	
	H D	Engineer, Kurla		
3	Hanmant Patne	By Mr. Hariharan	CE6G	Auditorium Hall
		Iyer		25/02/2019

4	Hanmant Patne	Expert Lecture on Personality Development By Mr. Hariharan Iyer	CE4G CE6G	Auditorium Hall 05/02/2019
5	Hanmant Patne	Stadpro Training By Mr. Arshad Khan	CE6G	ARC Lab 10/12/2018 to 16/12/2018
6	Hanmant Patne	Industrial Expert Lecture on Industrial Measurement By Mr. Latesh Sanklecha	CE 6G	Auditorium Hall 28/08/2018
7	Hanmant Patne	Expert Lecture on Entrepreneurship Development Program By Mr.Dinesh Israni	CE4G CE6G	Auditorium Hall 20/08/2018

List of tasks performed by Training and Placement Cell of the Institute in academic year 2017-18

Sr No ·	Name of TPC	Tasks	Beneficiaries	VENUE and Date
1	Hanmant Patne	Industry Based Training Construction Activities by Mr.R.K.Madhani Incharge, RMC Plant	CE4G	Office Location 21/05/2018 to 26/05/2018
2	Hanmant Patne	Industry Based Training Construction Activities by Mr.R.K.Madhani Incharge, RMC Plant	CE4G	Office Location 14/05/2018 to 19/05/2018

	1	5		
3	Hanmant Patne	Interview of Civil Candidate for Summer Internship Latesh Sanklecha Consulting Structural Engineer, Kurla	CE4G Ten Students Selected	Office Location 13/ 05/2018 to 09/06/2018
4	Hanmant Patne	Interview of Civil Candidate Latesh Sanklecha Consulting Structural Engineer, Kurla	CE6G Two Students Selected	Office Location 24/03/2018
5	Hanmant Patne	Mock Interview by Mr. Hariharan Iyer	CE6G	Auditorium Hall 25/02/2018
6	Hanmant Patne	3D Printing Training by Mr. Miller Khandar	CE6G CE4G	Auditorium Hall 17/01/2018 to 23/01/2018
7	Hanmant Patne	Autocad Training by Treezec E Solutions Pvt Ltd	CE6G CE4G	ARC Lab 17/01/2018 to 23/01/2018
8	Hanmant Patne	Solar Energy Technology Training by Mr. Vikal Chaurasiya	CE6G CE4G	MMS Hall 17/01/2018 to 23/01/2018
9	Hanmant Patne	Industrial Hydraulics at Advanced Training Institute	CE4G CE6G	Advanced Training Institute, Sion 18.12.2017 to 22.12.2017

10	Hanmant Patne	Industrial Expert Lecture on Industrial Measurement by Mr. Yashavant Chavan	CE 6G	Auditorium Hall 18/10/2017
11	Hanmant Patne	Expert Lecture on Personality Development by Mr. Shriram	CE4G CE6G	Auditorium Hall 28/09/2017

List of tasks performed by Training and Placement Cell of the Institute in academic year <u>2016-17</u>

Sr No	Name of TPC	Tasks	Beneficiaries	VENUE and Date
1	Hanmant Patne	Interview of Civil Candidate Rock Construction, Bhiwandi	CE6G Two Students Selected	Office Location 13/03/2017
2	Hanmant Patne	Interview of Civil Candidate Palm Groove Developers, Murbad	CE6G Two Students Selected	Office Location 09/03/2017
3	Hanmant Patne	Interview of Civil Candidate Latesh Sanklecha Consulting Structural Engineer, Kurla	CE6G Two Students Selected	Office Location 28/02/2017
4	Hanmant Patne	Mock Interview by Mr. Hariharan Iyer	CE6G	Auditorium Hall 17/02/2017
5	Hanmant Patne	Industry Based Training Construction Activities by Mr. Sanjay D. Wadile, Plant Incharge of Archilogic Consultants	CE4G	Office Location 08/12/2016 to 18/12/2016
6	Hanmant Patne	Industrial Expert Lecture on Industrial Measurement	CE 6G	Auditorium Hall 08/10/2016

		by Mr. Yashavant Chavan		
7	Hanmant Patne	Expert Lecture on Personality Development by Mr. Chandrashekhar Gollapudi	CE4G CE6G	Auditorium Hall 13/09/2016

List of tasks performed by Training and Placement Cell of the Institute in academic year <u>2015-16:</u>

Sr No	Name of TPC	Tasks	Beneficiaries	VENUE and Date
1	Hanmant Patne	Interview of Civil Candidate Rock Construction, Bhiwandi	CE6G One Student is Selected	Office Location 12/03/2016
2	Hanmant Patne	Interview of Civil Candidate Palm Groove Developers, Murbad	CE6G Two Students Selected	Office Location 07/03/2016
3	Hanmant Patne	Mock Interview by Mr. Hariharan Iyer	CE6G	Auditorium Hall 20/02/2016
4	Hanmant Patne	Expert Lecture on Latest Trends in Construction Activities by Walimbhe Vishwas	CE 4G CE 6G	Auditorium Hall 07/02/2016
5	Hanmant Patne	Expert Lecture on Soft Skills by Mr. Hariharan Iyer	CE6G	Auditorium Hall 18/08/ 2015

Summary of Training and Placement activities during academic year

Sr NoCompany NamePlacement CountDatePackage

		2018-2019		
1	Interview of Civil Candidate Latesh Sanklecha Consulting Structural Engineer, Kurla	No One Selected	13/03/2019	
2	Interviews of Civil Candidate for Summer Internship – CE4G	Fifty Eight Students selected for summer internship	Summer Internship For Academic Year 2018-19	
		2017- 2018	· · · · ·	
1	Interview of Civil Candidate Latesh Sanklecha Consulting Structural Engineer, Kurla	Two Students Selected	24/03/2018	12000/-
2	Interview of Civil Candidate for Summer Intrnship - CE4G Latesh Sanklecha Consulting Structural Engineer, Kurla	Ten Students Selected for summer internship	13/05/2018 to 09/06/2018	
		2016-2017		
1	Interview of Civil Candidate Rock Construction, Bhiwandi	Two Students Selected	13/03/2017	12000/-
2	Interview of Civil Candidate Palm Groove Developers, Murbad	Two Students Selected	09/03/2017	14000/-
3	Interview of Civil Candidate Latesh Sanklecha Consulting Structural Engineer, Kurla	Two Students Selected	28/02/2017	12000/-

1	Interview of Civil Candidate Rock Construction, Bhiwandi	One Student is Selected	12/03/2016	12000/-
2	Interview of Civil Candidate Palm Groove Developers, Murbad	Two Students Selected	07/03/2016	14000/-

8.5 Entrepreneurship Cell/Technology Business Incubator(5)

(The institution may describe the facility, its management and its effectiveness in encouraging entrepreneurship and incubation) (Success stories for each of the assessment years are to be mentioned)

- Entrepreneurship Development Cell (EDC) at institute level has been inexistence since August-2016. The Cell is headed by a senior faculty, Lokesh Lonare, Civil Engineering Department.
- Before formation of this cell, entrepreneurship activities were carried out under Entrepreneur Development Programme at respective departmental level.
- The function of the EDC is to encourage, motivate and provide training to the students so that they develop confidence and risk-taking abilities to take up entrepreneurship.
- Entrepreneurship Development Cell strives to inspire and generate a culture of innovation to help budding entrepreneurs to realize their potential.

The objectives of the Cell are:

Short Term Objectives:

- 1. To train and equip the students with the knowledge and resource that is needed to build startups.
- 2. To inculcate the entrepreneurial spirit.
- 3. To conduct:

Entrepreneurship Awareness Camp(EAC)

Entrepreneurship Development Programs (EDP) and

Skill Development Programs(SDP)

To update students about Govt. Schemes and policies for entrepreneurship development.

To update students about various sources of finance, financial aids offered by Govt.

4. Conduct a variety of competitions round the year for incubating nascent ideas and providing

mentorship to budding entrepreneurs.

5. MOUs are signed between **Industry** and **Institute** to build relationship with industries so that resources of Industries can be utilize for growth of students and institute.

Long Term Objectives:

- ➢ Enhance Consultancy and Research.
- > To increase Training programs by industry professionals.
- To foster better linkages between the Parent Institution, Industries and R&D institutions in promoting Small & Medium Enterprises(SMEs).
CRITERION 9 GOVERNANCE INSTITUTIONAL SUPPORT AND FINANCIAL 75 RESOURCES

9.1 Organization, Governance and Transparency (25)

9.1.1 State the Vision and Mission of the Institute.

Vision of the Institute:

"To become an institute of excellence by continuous implementation and updation of knowledge and upgradation of technical skills to serve the society and improve the quality of life."

Mission of the Institute:

- To teach students basic concepts of science and fundamental engineering principles by encouraging interdisciplinary approach for comprehensive broad based learning.
- To provide hands-on training by executing project based learning, industrial internships and value added programs.
- > To train professional thinking and attitude building to be sensitive to needs of the society.

9.1.2 Governing body, administrative setup, functions of various bodies, defined rules /procedures, recruitment and promotional policies.

The functioning of Governing Body as under:

Governing Body

- The Governing Body is the Prime body responsible for the Management of Institution.
- To consider the recommendation of other committees regarding Finance, Infrastructure, Faculties, Equipment and Library resources for the respective Academic year.
- To approve the permission of closing/ increasing/decreasing the intake of courses.
- To approve the permission of filling in vacant posts of teaching faculties.
- To approve requirements proposed by the Principal for enhancing the Academic excellence.
- To consider the Admission status report by the Principal.



• Any other important decision for the betterment of Institution.

Humanity **Grievance Redressal Mechanism** Administrative Setup Department • General administration & Accounts • Anti Ragging Committee • Internal Compliant committee Admission Cell Women Grievance Redressal • Examination Cell Library committee Academic Cell Student Grievance Redressal cell • SC/ST (Prevention of Atrocity) Training & Committee Placement

Flow chart of the structure of the Institute

Present Governing Body Members:

1. Hon. Chairman: Mr. A V Gupta

- 2. Hon. Member: Mr. Arun Bongirwar (Educationalist)
- 3. Hon. Member: Mr. P. G. Rathod (Industrialist)
- 4. Hon. Member: Mr. Veerendra Gala (Industrialist)
- 5. Hon. Member: Dr. G. T. Thampi (Educationalist)
- 6. Hon. Member Secretary: Dr. L. S. Bothra (Principal, ARMIET)
- 7. Hon. Member: AICTE Nominee
- 8. Hon. Member: DTE Nominee
- 9. Hon. Member: MSBTE Nominee
- 10. Hon. Member: University Nominee
- 11. Hon. Member: Mrs. Deepa D. Pant (First Trustee-KVCT)
- 12. Hon. Member: Dr. Rupendra Anklekar (Educationalist)
- 13. Hon. Member: Dr. Ashwini Kshirsagar (Educationalist)

Sr. No.	Year	Date of meeting and Venue	Total Members Present
01.	2018-19	23/02/2018, ARMIET College	8
02.	2017-18	23/02/2017, ARMIET College	5
03.	2016-17	23/02/2016, ARMIET College	7

Administrative Setup:

It comprises following sections:

- General Administration and Accounts
 - ➢ Attendance management of all employees.
 - Maintaining Service Records of all the employees.
 - Students Data Management and related services.
 - Students Fees collection and other receipts.
 - > Accounts management, Payroll, Statutory deductions and compliances.
 - Budget preparation related to Directorate of Technical Education
 - Assessment of Audit General, DTE, RO and any other Govt. body.

Admission Cell

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- Counselling at various Schools for SSC appearing students.
- Counselling to parents of prospective students about future scope of different courses and facilities offered at our institution.
- Solution Guidance regarding the Centralized Admission Process (CAP) of State Government.
- Informing candidates regarding the list of required documents for registration at Facilitation Centre.
- Providing assistance for submitting Online Admission forms.
- > Providing assistance to comply during Grievance Redressal period.
- Counselling to allotted candidates for document submission, payment of fees and confirmation of their admissions.
- Arranging Orientation program for newly admitted students regarding Academic details and other rules of MSBTE/ Institution. Uploading admitted student's data on DTE/ MSBTE portals. Preparing documentation for Merit List verification.
- Completing Document Verification and Merit List Approval as per DTE /RO notification.

Examination Cell

- Enrolment of newly admitted students for all Internal and External Exams of MSBTE.
- Certificate of Backlog (COB) of Direct Second Year (DSY) / Transfer Candidates.
- > Forwarding exam related information to concerned staff and students from time to time.
- Exam form filling of Regular and Backlog students.
- Maintaining details of Learning Disability (LD) students for awarding concessions as per MSBTE norms.
- Keeping records and taking measures regarding the Safety of Exam stationery and other related Inventory.
- Analyzing MSBTE Exam Result.
- > Assisting Dept. clerk for result analysis of concerned Dept.

Academic Cell

- Preparing prospectus and Handbills.
- Preparing Academic Time table.
- Preparing Academic Calendar.

Preparing documents related to Internal Academic Monitoring, Unit Test as well as External Academic Monitoring Defined rules,

procedures, recruitment and promotional policies: Rules

/Procedures:

Alamuri Ratnamala Institute of Engineering and Technology is an Aided institution of Government of Maharashtra. It follows all procedures and norms of DTE/ MSBTE/ Government of Maharashtra for recruitment and promotional policies of teaching and non-teaching staffs. The procedure for recruitment is as under:

Approval of post: The vacant posts are approved by Directorate of Technical Education, DTE. Advertisement: In leading News Papers, inviting eligible candidates, as per AICTE norms, to apply within the specified Period of time, to the Principal.

Applications: The applications along with the Resume and supporting documents will be submitted at the office/or sent by post.

Listing: After the applications are received, a merit list will be prepared as per the qualification and experience.

Expert Body: An expert panel, comprising of representative of management, Principal, subject experts, DTE and MSBTE nominee, will be formed.

Call Letters: Eligible Candidates will be called for an interview. **Interview:** Discussions with candidates, to know their potentials, strengths, teaching skills,

subject knowledge, research etc., will be considered.

Selection: Based on the performance and requirement, the selection committee prepared the list of candidates on merit basis.

DTE Approval: selection committee report will be submitted to the director (DTE) for their approval.

Orders: Appointment orders are issued to selected candidates.

Duty report: Selected Candidates should report to the duty on or before the mentioned time.

9.1.3 Decentralization in Working and Grievance Redressal Mechanism (5)

A. Decentralization in Working (Administration & Decision making)

The Institute has a decentralized method of working and all staff member are being accountable

for the assigned tasks.

Principal: Academic and Administration of the Institution.

- Provide effective leadership to the Institution.
- Liaison with, AICTE, DTE, MSBTE, Management and other stakeholders.
- Implement and monitor policies of management decided in Governing Body and other Committees.
- Hold various committees/HODs/faculties meetings, Approve Academic Time-Table and Academic calendar, Monitor admission process and daily academic and exam related activities.
- Ensure safety and security measures of Institutional infrastructure and observe over all discipline in the institution.
- Prepare annual budget and develop future plan for overall progress of institution.
- Employee recruitment process.
- Manage accounts, finance and office administration
- Resource generation

Head of the Departments:

- Head of Department is answerable to the Principal for all academic and administrative activities of the respective department.
- Planning, scheduling, coordinating and monitoring the curriculum implementation pertaining to the department.
- Monitoring and evaluating performance of the faculty and supporting staff.
- Development and Implementation of short term and long term plan for department to improve overall quality of the department.
- Maintaining necessary records like DSR and maintenance record of other departmental assets.
- Acting as a facilitator for the departmental faculty in laboratory development and maintenance.
- Monitoring the Industry Interaction in the form of Guest faculty, Internship and Projects.

- Maintaining students attendance record and results submitted by faculties and take appropriate measures for better performance.
- Assigning various responsibilities such as Class Teachers, Mentors, Project guides, coordinators for different committees, and Lab In-charges etc.
- Assisting Principal in institute level activities.

B. Grievance Redressal Mechanism

Following four committees are formed for the Redressal of Grievances:

1. Anti-Ragging Committee

According to All India Council Technical Education (AICTE) norms, the Principal framed the Anti-Ragging committee and Anti-Ragging Squad during academic year 2018-2019.

List of Members of Anti-Ragging Committee

Sr. No.	Name of Faculty	Designation
1	Sourabh Gupta	Chairman
2	Prathmesh Patil	Member
3	Roshan Paliwal	Member
4	Hamza Momin	Member
5	Mohammad Taha	Member
6	Yamini Patil	Member

Activities undertaken:

- > Planning of meetings at the commencement of Academic year.
- Display of Ragging prohibition notices on all department notice boards and other prominent places.
- > Preparation of Action plan for regular vigilance.
- > Regular meetings to resolve the problems, if any.

2. Women Grievance Redressal Committee

Women Grievance Redressal Cell maintains healthy working atmosphere among the faculties of

institution. This Cell helps women faculties and students to register their complaints and personal grievances to them. The cell organizes different women empowerment programs. Any type of sexual, physical, verbal or mental harassment shall come under the purview of this cell, and further It is empowered to initiate proactive actions against such offences.

Women Harassment complaints will be handled as per government guidelines.

List of Members of Women	Grievance Redressal	Committee
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Sr. No.	Name of Faculty	Designation
1	Ashwini Kshirsagar	Chairperson
2	Yamini Patil	Member
3	Nivedita Dhangar	Member
4	Pooja Gavale	Member
5	Rucha Bhalerao	Member
6	Tejas Patil	Member
7	Ms. Stela James	Member

The different activities carried by cell are:

- Program on Self Defense.
- Program on Health and Hygiene.
- ➤ Celebrate the International women's Day on 8th March
- 3. Student Grievance Redressal Cell

List of Members of Student Grievance Redressal Cell

Sr. No.	Name of Faculty	Designation
1	Nagababu Chekuri	Chairperson
2	Devidas Vanve	Member
3	Mukesh Yadav	Member

Alamuri Ratnamala Institute of Engineering and Technology,Shahapur,M.S.

4	Prathmesh Patil	Member
5	Vijay Vishvakarma	Student Member

The Students Grievance Redressal Cell functions are:

- > The institute has fixed suggestions/Complaints box at prominent location in the campus.
- Students can drop their grievances into suggestions/Complaints box.
- Take cognizance of the request made by students about the various facilities and personal grievances and implement solutions.
- Resolving any conflicts among the students and maintain a conducive environment.
- Coordinating counselling sessions to newly admitted students to deal with stress and other problems faced.
- Monitoring Students activities to prevent untoward incidents.
- Identifying Irregular and Disobedient students and providing counselling sessions to them to be punctual.
- > Dealing with any other incidences involving students and report it to the Principal.

4. SC/ST (Prevention of Atrocities) Committee

List of Members of SC/ST (Prevention of Atrocities) Committee

Sr. No.	Name of Faculty	Designation
1	Lokesh Lonare	Chairman
2	Vinay Bhaskar	Member
3	Nivedita Dhangar	Member
4	Samadhan Ragade	Member
5	Adarsh Khandagale	Student Member

The cell is formed to ensure fair treatment to Reserve Category staff and students. Institute helps the students to fill scholarship forms and complete other documentation to entitle their learning at concessional fees.

- > The Cell basically aims to uplift the morale of deprived section of students and staff.
- > Ensure equal opportunities to all the students irrespective of their background.
- Encourage and motivate them through counselling sessions and personality development programmes.
- The Cell is formed to deal with incidences if any, and to report about individuals responsible for atrocities and suppression.

9.1.4 Delegation of Financial Powers (5)

The Institute prepares and approves Budget of the next financial year in the governing body meeting. Head of the Institute implements the decisions taken in the governing body meeting with approval from other committees and Management.

The department budgets for Recurring/Non-Recurring/Maintenance activities are approved by governing body. Apart from the provision budget extra funds are made available depending upon the genuinity of need in the department. Each department recommends the laboratory equipment and accessories for the year with justification. The list of equipment to be procured/experiments to set up as per curriculum are finalized by the departments and sent to purchase department for further process. The purchase department invites the quotation and makes a comparative statement as per the specifications mentioned by the department. The documents are preceded for further Approval to Principal and Treasury of the trust/board.

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

Academic and Administrative Transparency:

The institute's website <u>www.armiet.in</u> includes all information about Polytechnic. Various committees, notices are regularly posted including the Academic Calendar, Tuition Fees, forthcoming events in the departments and all information related to examination.

9.2 Budget Allocation, Utilization and Public Accounting at Institute level (10)

9.2.1 Adequacy of budget allocation (4)

Details of budget allocated for last three years

The Tentative Annual Budget is prepared by the Account office in the month of February

for the forthcoming Financial/ Academic year. Non-recurring Budgets are allotted to purchase equipment or new experiments or to phase out old instruments which are beyond repair. The Department Heads submit the list of equipment and software to the Principal. The tentative budget is placed before the Governing body Meeting held in the month of February every year for approval. Apart from the provision budget extra funds are made available depending upon the authenticity of need in the respective department.

Institute level Income for last three years and current financial year

For CFYm1	(2017-18)
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Total Income (Rs. In Lacs) in CFYm1 2017-18					Actual Expenses (Rs. In Lacs) CFY 2017-18 (31.08.18)				Total No. Of Students CFY 2017-18	
Fees	Govt.	Grants	Other	Total	Recurring	Non- Recurring	Any Other	Total	Exps. Per student (in Lacs)	No. Of Student
175.66	0	0	32.57	208.23	210.65	19.98	0	230.63	0.62	372

For CFYm2 (2016-17)

Total Income (Rs. In Lacs) in CFY 2016-17				Actual Expenses (Rs. In Lacs) CFY 2016-17				Total No. Of Students CFY 2016-17		
Fees	Govt.	Grants	Other	Total	Recurring	Non- Recurring	Any Other	Total	Exps. Per student (in Lacs)	No. Of Student
221.45	0	0	7.43	228.88	268.83	22.56	0	291.39	0.63	461
For CFYm3 (2015-16)										

Total Income (Rs. In Lacs)					Actual Expenses (Rs. In Lacs)				Total No. Of Students		
in CFY 2015-16				CFY 2015-16				CFY 2015-16			
Fees	Govt.	Grants	Other	Total	Recurring	Non-	Any	Total	Exps. Per	No. Of	
						Recurring	Other		student	Student	
									(in Lacs)		
228.17	0	0	0	228.17	250.25	15.55	0	265.80	0.53	497	

Particulars	CFY 2	2018-19	CFY m1		CFY	m2	CFY m3	
			2017-18		2016-17		2015-16	
Items	Budget	Actual	Budget	Actual	Budget	Actual	Budget	Actual
Library	343,880	304,319	158,368	137,711	127,176	112,545	173,900	153,867
Laboratory Equipment	565,000	500,800	115,000	-	1,104,063	977,047	303,500	268,600
Laboratory Consumables	75,000	66,000	45,000	36,778	26,190	26,354	91,317	289,024
Teaching & Non-Teaching Salary	17,823,803	14,947,285	16,742,484	16,203,457	17,668,908	17,847,382	14,874,000	13,455,347
Maintenance & Spares	1,283,126	401,500	1,168,271	876,662	1,502,062	1,517,235	1,693,778	1,682,723
R & D	130,000	109,916	215,785	169,384	277,438	280,240	181,708	113,666
Training & Travel	75,548	67,980	102,778	84,004	132,143	133,478	65,000	56,548
			<u>Others</u>					
Rent & Taxes	55,000	23,914	134,294	70,304	172,664	174,408	295,183	78,843
Electricity Charges	58,881	52,850	1,309,816	130,020	1,684,049	1,701,060	986,920	922,959
Printing & stationery	49,715	128,585	44,857	296,992	57 <i>,</i> 673	58,255	1,182,939	900,121
Affiliation Fees	43,117	45,000	34,650	45,000	44,550	45,000	48,600	90,000
Telephone charges	135,259	123,645	465,460	53,528	598,450	604,494	210,480	299,042
Audit Fees	49,500	50,000	90,000	82,600	85,000	80,500	73,872	53,442
Advertisement	89,291	14,711	41,011	39,197	52,728	53,261	257,259	273,535
Bank Charges	90,860	5,476	9,343	2,572	12,012	12,134	65,000	64,404
Professional Charges	45,000	19,100	103,450	99,924	133,007	134,350	182,023	503,428
Medical Expenses(Insurance)	400,000	302,458	75,000	68,680	89,034	89,934	90,000	84,834
Meeting & Seminar	30,800	33,038	690,164	168,417	887,354	896,317	352,979	97,212
Postage	50,500	42,000	12,120	10,000	12,750	11,470	60,000	51,029
Uniform	300,000	292,000	219,347	199,762	288,875	297,022	2,65000	2,48000
ISTE Fees/MSBTE	1,700,000	1,614,622	1,704,268	1,501,350	1,648,344	1,553,480	1,050,000	1,049,915
Newspaper & Magazine	50,555	47,855	34,500	33,450	37,500	32,650	40,832	41,948
Assessment .Fees (NBA)	278,973	354,000						
Sundries Expenses	6,460,116	6,453,294	4,403,235	2,754,068	4,168,431	2,500,779	28,28,127	58,02,102
TOTAL	30,183,924	26,000,348	27,919,201	23,063,860	30,810,401	29,139,395	25,372,417	26,580,589

Table of Recurring and Non-Recurring expenses

Financial Year	Budget Sanctioned in Lacs			Expenditure in Lacs				
	Non Recurring	Recurring	Maintenance	Total	Non Recurring	Recurring	Maintenance	Total
2018-19	25.02	263.99	12.83	301.84	24.66	231.32	4.02	260.00
2017-18	22.64	244.87	11.68	279.19	19.98	201.89	8.77	230.64
2016-17	23.44	269.64	15.02	308.10	22.56	253.66	15.17	291.39
2015-16	16.19	220.60	16.93	253.72	15.55	233.43	16.83	265.81
2014-15	16.99	228.08	3.10	248.17	14.91	200.07	2.72	217.70

9.2.2 Utilization of allocated funds (4)

Following table shows the utilization of allocated budget of different Financial Years

9.2.3. Availability of the audited statements on the Institute's website (2)

The Annual Balance Sheet is prepared every year and audited by the Chartered Accountant. The Balance Sheet is made available on the Institute's website. The hard copy of the Balance Sheets of last 3 years is available in the account office.

9.3 Department Specific Budget Allocation, Utilization (05)

9.3.1 Adequacy of Budget allocation (2)

The expenses under various heads are allotted in the budget by referring to the earlier year balance Sheet and proposed activity expenses. The procurement is done by considering specific requirement and its justified use as approved by the governing body. The budget is finally implemented by considering the actual fees collected from the admitted students and the status of budget of other units of institution. The Budget of various departments is tabulated as:

2018-19	Total Budget	Actual Expenses	Total No. of S	tudents
	(13. 11 Lacs)		CI I 2018	-17
		Tentative till	Exps. Per student	No. Of
		date	(in Lacs)	Student
Civil	45.59	43.95		
Mechanical	57.61	43.82		
EXTC	34.94	24.66		
Administration	136.74	122.39	0.51	584
Workshop	.92	1.69		

Total Budget at Institute level: For CFY 2018-19

Alamuri Ratnamala Institute of Engineering and Technology, Shahapur, M.S.

Hum. & Science	26.01	23.47
Total	301.83	260.00

Total Budget at Institute level: For CFYm1 2017-18

2017-18	Total Budget (Rs. In Lacs)	Actual Expenses (Rs. In Lacs)	Total No. Of S CFY 2017	Students '-18
			Exps. Per student	No. Of Student
Civil	40.59	34.66	(in Euco)	Student
Mechanical	52.11	45.64		
EXTC	28.66	25.66	0.440	
Administration	129.26	97.59	0.619	372
Workshop	2.53	1.69		
Hum. & Science	26.01	25.38		
Total	279.19	230.63		

Total Budget at Institute level : For CFYm2 2016-17

2016-17	Total Budget	Actual Expenses	Total No. Of Students	
	(Rs. In Lacs)	(Rs. In Lacs)	CFY 2016-17	
			Exps. Per student	No. Of
			(in Lacs)	Student
Civil	39.09	35.74		
Mechanical	64.32	61.29		
EXTC	28.54	29.58	0 (2 2	
Administration	149.37	137.99	0.632	461
Workshop	2.77	2.80		
Hum. & Science	23.97	23.97		
Total	308.10	291.39		

Total Budget at Institute level: For CFYm3 2015-16

2015-16	Total Budget (Rs. In Lacs)	Actual Expenses (Rs. In Lacs)	Total No. Of S CFY 2015	Students 5-16
			Exps. Per student	No. Of
			(in Lacs)	Student
Civil	36.16	32.91		
Mechanical	66.87	34.27		
EXTC	29.66	14.79	0 50 (107
Administration	95.33	153.70	0.534	497
Workshop	1.70	6.14		
Hum. & Science	23.97	23.97		
Total	253.72	265.80		

9.3.2 Utilization of allocated funds (03)

Every department utilizes their allocated budget as per the plan and need. All the essential requirements of the departments are fulfilled for proper Academic activities. Apart from the provision budget, extra funds are made available depending upon the authenticity of need in the department. Utilization of allocated budget is shown as:

Particulars	CFY 2018-19		CFY m1		CFY m2		CFY m3	
			201	7-18	201	6-17	201	5-16
Items	Budget	Actual	Budget	Actual	Budget	Actual	Budget	Actual
Library	343,880	304,319	158,368	137,711	127,176	112,545	173,900	153,867
Laboratory Equipment	565,000	500,800	115,000	-	1,104,063	977,047	303,500	268,600
Laboratory Consumables	75,000	66,000	45,000	36,778	26,190	26,354	91,317	289,024
Teaching & Non-Teaching Salary	17,823,803	14,947,285	16,742,484	16,203,457	17,668,908	17,847,382	14,874,000	13,455,347
Maintenance & Spares	1,283,126	401,500	1,168,271	876,662	1,502,062	1,517,235	1,693,778	1,682,723
R & D	130,000	109,916	215,785	169,384	277,438	280,240	181,708	113,666
Training & Travel	75,548	67,980	102,778	84,004	132,143	133,478	65,000	56,548
			<u>Others</u>					
Rent & Taxes	55,000	23,914	134,294	70,304	172,664	174,408	295,183	78,843
Electricity Charges	58,881	52,850	1,309,816	130,020	1,684,049	1,701,060	986,920	922,959
Printing & stationery	49,715	128,585	44,857	296,992	57,673	58,255	1,182,939	900,121
Affiliation Fees	43,117	45,000	34,650	45,000	44,550	45,000	48,600	90,000
Telephone charges	135,259	123,645	465,460	53,528	598,450	604,494	210,480	299,042
Audit Fees	49,500	50,000	90,000	82,600	85,000	80,500	73,872	53,442
Advertisement	89,291	14,711	41,011	39,197	52,728	53,261	257,259	273,535
Bank Charges	90,860	5,476	9,343	2,572	12,012	12,134	65,000	64,404
Professional Charges	45,000	19,100	103,450	99,924	133,007	134,350	182,023	503,428
Medical Expenses(Insurance)	400,000	302,458	75,000	68,680	89,034	89,934	90,000	84,834
Meeting & Seminar	30,800	33,038	690,164	168,417	887,354	896,317	352,979	97,212
Postage	50,500	42,000	12,120	10,000	12,750	11,470	60,000	51,029
Uniform	300,000	292,000	219,347	199,762	288,875	297,022	2,65,000	2,48,000
ISTE Fees/MSBTE	1,700,000	1,614,622	1,704,268	1,501,350	1,648,344	1,553,480	1,050,000	1,049,915
Newspaper & Magazine	50,555	47,855	34,500	33,450	37,500	32,650	40,832	41,948
Assessment .Fees (NBA)	278,973	354,000						
Sundries Expenses	6,460,116	6,453,294	4,403,235	2,754,068	4,168,431	2,500,779	28,28,127	58,02,102
TOTAL	30,183,924	26,000,348	27,919,201	23,063,860	30,810,401	29,139,395	25,372,417	26,580,589

9.4 Library and Internet (20)

Apart from Central Library, each department has small internal departmental library which is exclusively used by the concerned department. All computers in the central library are connected through LAN with Internet facility.

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

Library has a collection of all required books and is fully computerized with SLIM and OPAC software.

The Library facilities include:

- > Reading room facility with issuing of text/reference books.
- ➢ Access to digital library.
- > Book Bank facility to students for every Semester at free of cost.
- The Library has subscription of National as well as International journals and magazines of the relevant department and other areas of science.
- ➢ All reputed daily newspapers.
- > Multimedia PCs are maintained for database and other resources access.
- > The Reading room can accommodate over 100+ students with separate area for 20 staff.

Total number of books in the Library

Total No. of Books	Titles	Volumes	
12190	456	12190	

Books Purchased in last few year:

Year	Total No. of Books	Titles	Volumes
2018-19	3075	77	3075
2017-18	939	21	939
2016-17	595	24	595
2015-16	1431	89	1431

Voor		Conorol Magazinos	
Iear	National	International	General Magazines
2018-19	55	6	20
2017-18	51	6	20
2016-17	52	6	20
2015-16	59	7	28

Total number of Journals and Magazines:

9.4.2

Internet (10)

Key

Features

- > Fiber optic network is used for the internet.
- > Free, unlimited access to internet for all stakeholders inside the campus.
- > Two leased lines are being used for internet.

Details

Name of the Internet Provider	Skynet
Available bandwidth	64 mbps
Wi Fi Availability	Yes
Internet /Wi-Fi access in labs, library and offices of Depts.	Yes
Security Arrangements	100 license copies of Quick Heal Anti-Virus.

9.5. Institutional Contribution to the Community Development/Go-green (05)

The Institute provides good contribution for the development of community scuh as: **1. Pradhan Mantri Kaushal Vikas Yojana (PMKVY) Scheme**

The Govt. of Maharashtra has selected our institute as a Centre of PMKVY scheme

and the institute is training the school drop outs and students from under privileged section of society.

Sr. No.	Job Role	Start Date	End Date	No of Candidates
1	Document Assistant	16/11/18	16/05/19	41
2	Inventory clerk	15/11/18	15/05/19	19
3	Consignment Booking Assistant	12/10/18	12/04/19	17
4	Broad Band Technician	12/10/18	12/04/19	25
6	Handset Repair Engg-II	12/10/18	12/04/19	25
7	Optical fiber Technician	12/10/18	12/04/19	46
9	Network Engg	12/10/18	12/04/19	15
10	Drive test engg	12/10/18	12/04/19	25
11	DTH (Direct to Home service)	09/08/17	09/02/18	25
12	Electrician	08/10/17	03/04/18	25
13	Mobile Repairing	02/01/18	02/07/18	25

Following number of students have been admitted for different job roles/courses.

2. Klic Courses

- The institute conducts various Employable VAP Courses. job oriented computer training programmes.
- The institute also conducted Basic communication skills and computer fundamental classes at various Aashram Shalas in Thane Region.

3. Institutional Social Responsibilities - Activities

Faculty and students are encouraged to participate in collaboration with other

organizations in carrying out social outreach programmes such as:

- ➢ Medical Check-ups.
- Digital Transaction Awareness.
- ➤ Career Guidance programmes for 10th and 12th students.
- > Faculty worked as media partners with NGOs and Govt. for social outreach programs.
- > Faculty worked for Tree plantation in our college.



Declaration

I. Mr. Prathmesh Vilas Patil, NBA Co-ordinator of Alamuri Ratnamala Institute of Engineering and Technology (Application Number 2967- 06 / 06 / 2018), A. S. Rao Nagar, Sapgoan, Shahapur, Dist. Thane, Maharashtra State, undertake that, the institute is well aware about the provision in the NBA's accreditation manual concerned for this application, rules, regulations, notifications and NBA expert visit guidelines in force as on date and the institute shall fully abide by them.

It is submitted that information provided in this self-Assessment Report is factually correct. I understand and agree that and an appropriate disciplinary action against the institute will be initiated by the NBA in case any false statement / information is observed during pre-visit, visit, post visit and subsequent to grant of accreditation.

Date: 17th March 2019 Place: Shahapur, Dist. Thane.



Mr. Prath mesh Vilas Patil

NBA Co-ordinator

Admin Office : 106 & 124, Vardhaman Industrial Estate, Gokul Nagar, Thane (W) - 400601. Telefax : 022 - 40244310

THANKING YOU