

Attainment of Learning Outcomes Mechanism

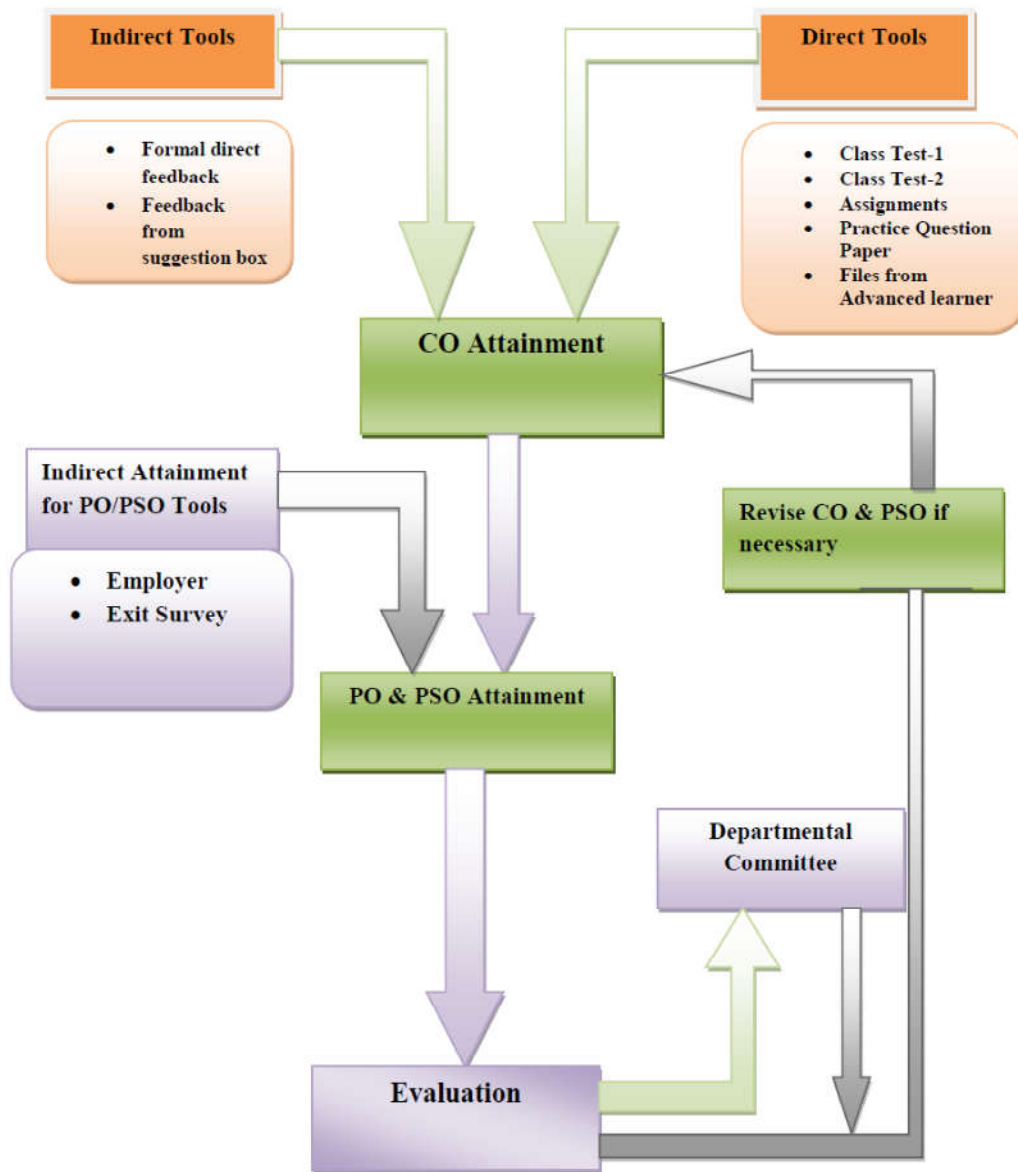


Fig-1: Attainment of Learning Outcome Mechanism

Table-1: Course Outcome attainment

<i>Course outcomes</i>	<i>PO1</i>	<i>PO2</i>	<i>PO3</i>	<i>PO4</i>	<i>PO5</i>	<i>PO6</i>	<i>PO7</i>	<i>PO8</i>	<i>PO9</i>	<i>PO10</i>	<i>PO11</i>	<i>PO12</i>	<i>PSO1</i>	<i>PSO2</i>	<i>PSO3</i>
<i>CO1</i>		1		2					2				1		
<i>CO2</i>		3			1							1			
<i>CO3</i>			1			1		1			3		2		
<i>CO4</i>					1		3								1
<i>CO5</i>									3	2				2	
<i>CO6</i>			3					1					1		
<i>Average attainment</i>															

Table 2: Programme Attainment Matrix (PAM)

<i>Course codes</i>	<i>PO1</i>	<i>PO2</i>	<i>PO3</i>	<i>PO4</i>	<i>PO5</i>	<i>PO6</i>	<i>PO7</i>	<i>PO8</i>	<i>PO9</i>	<i>PO10</i>	<i>PO11</i>	<i>PO12</i>	<i>PSO1</i>	<i>PSO2</i>	<i>PSO3</i>
<i>Course1</i>			2	1			2			2			1		1
<i>Course2</i>		1		2	1			3	3		1	1		1	
<i>Course3</i>	1	2	2			2				1	3		2		2
<i>Course4</i>		1					2						3		1
<i>Course5</i>															
<i>Average attainment</i>															

MGM's College of engineering and Technology, Kamothe, Navi Mumbai

Attainment of programs outcomes, program specific outcomes and course outcomes

Sr. No	Attainment of programs outcomes, program specific outcomes and course outcomes	Page No.
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MGM's College of Engineering and Technology Kamothe, Navi Mumbai

Department of Electronics & Telecommunication

Departmental Technical Committee Meeting Report

Department of Electronics & Telecommunication arranged Departmental Meeting for important discussion about the Department development. It was held on 7th July 2017. Main objectives of this meeting were to get valuable suggestions from the department which will help us to improve the quality of teaching and outcome of students. The meeting was held to encourage the students to become entrepreneur, appear competitive examination, join higher study, to improve the placement of the department. In addition, the main purpose, to review the Vision, Mission, Course outcomes and Programme Educational Outcomes of the department.

Introduction of Members

The members of Department Technical Committee were Dr. S. K. Narayankhedkar, Dr. Indra Vijay Singh and Prof. Pralhad P. Narwade. Dr.S.K. Narayankhedkar, Principal of MGM's College of Engineering and Technology Kamothe, Navi Mumbai who completed his Ph.D from IIT , Bombay, in Optical Communication. Dr. Indra Vijay Singh Head of Electronics & Telecommunication Department of MGMCET-Kamothe. He completed his Ph.D. from Aligarh Muslim University, having specialization in RF circuits and system Design . Prof. Pahralad Narwade , M.E from MGMCET, in Biomedical Engineering, having 25 years of teaching exp. .

Suggestion from Comittee Members

Following were some suggestion received from the members which are helpful for us to improve the quality of the Department.

1. For better placement and hands on experience, improve the Industry Institute Interaction.

2. Suggestion for sending students to the industry and try to get the industry sponsored projects for maintaining the relation with the industry.
3. Faculty should get continuous feedback from the industry , accordingly try to include the suggestion in teaching learning methodology.
4. Advised that the project completion responsibility must be given to guide and periodic review of progress should be taken.
5. Committee suggested that paper publications and patent process should be increased, because by getting patents, students can start their own business.
6. To modify the Vision, Mission and Goals of the department.
7. To focus on the faculty teaching quality improvement by improving logical thinking about any problem.
8. To arrange various workshops in the department and inviting the experts from the industry to guide the faculty.
9. Also discussed about Course Outcomes, Programme Outcomes and Programme Specific Outcomes of the departments.
10. To focused on improvement of faculty qualification and teaching quality.
11. The student needs to learn basic concept of the subjects and get deep knowledge.
12. Faculty members need to attend faculty Development Programme, Conferences, and Seminars of related subjects.


**Co-ordinator,
Prof. Prahlad Narwade**

**HoD
Indra Vijay Singh**



MGM's College of Engineering and Technology Kamothe, Navi Mumbai

Alumni Feedback



MGM'S COLLEGE OF ENGINEERING AND TECHNOLOGY
KAMOTHE, NAVI-MUMBAI - 416 209.

Alumni Feedback Form

We are glad that you have spent valuable years pursuing courses of your choice at MGM's CET. We shall be thankful if you can spare some of your valuable time to fill up this feedback form and give us valuable suggestions for further improvement of this college. Your valuable inputs will be of great use to improve the quality of our academic programs and enhance the credibility of our college.

Please Tick

Attributes	Excellent	Very Good	Good	Average	Poor
Interaction with Departmental faculty		✓			
Laboratory Setup			✓		
Alumni Association/Network of Old Friends		✓			
What is the caliber of students passing out from this college?		✓			
How do you rate the courses which are skills related suiting to the Industry included into the programs?	✓				
How do you rate the learning experience in terms of their relevance to the real life application?	✓				
How do you rate the courses that you have learnt in relation to your current job.	✓				

To what extent the following programme educational objectives fulfilled by the Department/ Institute? For each of the Program Educational Objectives (1-5) given below, which of the four statements (1-4) aptly describes your understanding. Please include any comments.

Your assessment	Very little	Some extent	Quite a bit	Very much
Programme Educational Objectives	1	2	3	4
1. Preparation: To educate students for graduate and postgraduate programmes and to succeed in their chosen/ related fields.			✓	
2. Core Competence: To provide students with sound knowledge in their chosen area.				✓
3. Breadth: To train students with knowledge relating to an array of professional fields undertaken so as to comprehend, analyze, design, and create innovative products and find solutions to improve the quality of life.				✓



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(सर्वे सार्थक अस्तीति)
 सर्वे सार्थक अस्तीति

Professionalism: To create professionally superior and ethically strong global manpower and to uphold moral values. With effective communication skills, teamwork skills, multidisciplinary approach, and an ability to improve the quality of life.					✓
5. Learning Environment: To create an intellectual environment for research and development aware of emerging technologies leading to continual learning needed for a successful professional career, to create a centre of excellence develop technicians and business leaders.					✓

Your Assistance	YES	NO
1. Are you interested in the Department Advisory Committee?	✓	
2. Are you interested in Placement Activities?	✓	
3. Are you interested in getting live industrial projects for B.E./M.E. projects?		✓

FEEDBACK ABOUT COLLEGE

1. Do you feel proud to be associated with MGM CET as an Alumnus?
Yes
2. How do you rate development activities organized by the Department/College/Institute for your overall development?
Excellent 10/10
3. Are you willing to contribute to the development of the college?
Yes sure
4. Are you willing to visit college once in a semester to conduct a Technical talk during Departmental slot?

Name : *Praveen Desai*
 Year : *1994*
 Degree/s : *BE (E & TC)*
 E-Mail ID : *desai.p@shri.com*
 Current Position & Company Name : *Director - SS IT SYSTEMS*

Mrs Jyothi S Warriar
 (Convener)
 Alumni Association, MGM's CET



MGM's College of Engineering and Technology Kamothe, Navi Mumbai

Analysis of Alumni feedback:

1. Most of the alumni agreed that they gained fundamental knowledge during their graduation which indicates the one of the programme outcome (PO1) is satisfying.
2. Most of the alumni accepts that inputs given to them helped to improve their soft skills and personality development.
3. Motivation to life long learning seems to very much satisfactory.
4. Most of the alumni told that developed abilities and attitude during the graduation, is helpful to serve the societies.
5. Some alumni said that more technical hands on knowledge is required so that it can cop-up with industry environment .



**MGM's College of Engineering and Technology
Kamothe, Navi Mumbai**

Department of Electronics and Telecommunication Engineering

Analysis of Employer Feedback

Name of Employee :

Designation & Development :

Date of Joining :

Name of Employer :

Address :

Name of Authority :

Designation & Development :

Signature :

Analysis of Employer feedback

1. Most of the employers are satisfied with technical Competency of MGM CET students.
2. MGM,s students have shown good involvement, sincerity and self motivation ,
3. Good in innovative ideas generation, leadership and professional ethics.
4. They are satisfied with ability to work with team and shoulder responsibility



MGM's College of Engineering and Technology Kamothe, Navi Mumbai

Student Exit feedback

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KAMOTHE, NAVI MUMBAI
STUDENT'S EXIT FEEDBACK

PERSONAL DETAILS			
Name of the Student		Vishwajeet Kadam	
UID		412ET1225A	
Department		EXT.	
Year of admission		2018	
Year of Passing		2019	
CGPI			
Address (Res)		E-8/B/16, Nitya CHS, Sec-45A, New Mumbai	
Job Profile			
Name of Organisation			
Monthly Salary			
Copy of appointment Letter			
Do you need support from College Placement Cell for better prospectus?			
Address (Office)			
Email-ID and Contact No		vishwajeetkadamg@gmw.in	
Future Plans		To be placed in MNL	
Competitive Examinations	Name of Examination	Whether Appeared	If Yes, Score
GATE	✓	✓	72
TOEFL			
GRE	✓	Appearing	
GMAT			
CAT			
CET			
MPSC			
UPSC			
Any Other			
I am interested in joining Alumni Association.		✓ Yes/No	
Would you be interested in visiting College and interacting with the students? If Yes, what is your Plan -			
1. Association with BE Project			
2. Industry/Placement			
3. Any Other (Specify)			

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FEED BACK (You may write your option as a, b, c, d or e in given blank box.)

- Your overall impression of academic activities at the College during your stay.

a) Excellent	<input checked="" type="checkbox"/> b) Very Good	c) Good	d) Satisfactory	e) Unsatisfactory
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b.
- Stress on fundamentals and basics

a) Excellent	b) Very Good	c) Good	<input checked="" type="checkbox"/> d) Satisfactory	e) Unsatisfactory
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d
- In general, preparedness of the faculty members for engaging the lectures

a) Excellent	<input checked="" type="checkbox"/> b) Very Good	c) Good	d) Satisfactory	e) Unsatisfactory
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b
- Your impressions on internal assessment

a) Excellent	<input checked="" type="checkbox"/> b) Very Good	c) Good	d) Satisfactory	e) Unsatisfactory
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b
- Your impression on the Faculty members' initiatives and interactions on your performance

<input checked="" type="checkbox"/> a) Excellent	b) Very Good	c) Good	d) Satisfactory	e) Unsatisfactory
--	--------------	---------	-----------------	-------------------

a
- Your impression on the Resource persons from Industry and Adjunct Faculty

<input checked="" type="checkbox"/> a) Excellent	b) Very Good	c) Good	d) Satisfactory	e) Unsatisfactory
--	--------------	---------	-----------------	-------------------

a
- Your impression about Placement activity

<input checked="" type="checkbox"/> a) Excellent	b) Very Good	c) Good	d) Satisfactory	e) Unsatisfactory
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a
- Support from Office

a) Excellent	b) Very Good	c) Good	<input checked="" type="checkbox"/> d) Satisfactory	e) Unsatisfactory
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d
- College Library

a) Excellent	b) Very Good	c) Good	<input checked="" type="checkbox"/> d) Satisfactory	e) Unsatisfactory
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d
- Annual Social and Technical Function

<input checked="" type="checkbox"/> a) Excellent	b) Very Good	c) Good	d) Satisfactory	e) Unsatisfactory
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a
- Overall Satisfaction Level

<input checked="" type="checkbox"/> a) Excellent	b) Very Good	c) Good	d) Satisfactory	e) Unsatisfactory
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a
- Suggestions for improvement

Date: _____



MGM's College of Engineering and Technology Kamothe, Navi Mumbai

Analysis from student exit feedback:

1. Most of the students were satisfied with overall facilities provided by institute.
2. Satisfied with technical , cultural and social events conducted by the college
3. They were satisfied with support provided by the office and exam cell.
4. They were satisfied with teaching and learning methodology of college
5. They were satisfied with teaching quality of faculty members.



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Analysis from parent's feedback

1. Maximum parents were satisfied with the facilities provided by the college.
2. Frequently meeting with parents is being arranged but involvement of parents is less.
This was discussed in departmental meeting.

Following actions were taken against the students:

1. Continuously students progress (attendance, results analysis, participations) is displayed on the notice board and same is sent to parents through SMS.
2. Most of the parents are not reading SMS, therefore, class in charges and mentors are communicating them frequently.
3. Faculty members also ask to parents about the curriculum and programme outcomes.



MGM's College of Engineering and Technology Kamothe, Navi Mumbai

MGM,s College of engineering and Technology, Kamothe , Navi Mumbai									
Department of Electronics & Telecommunication Engineering									
Div-SE									
Course	Signal& System	Course Code	ECC 404	Course Teacher	Prof D.B Jadhav				
Course Outcomes (CO)									
ECC -404.1	Understand about various types of signals, classify them, analyze them, and perform various operations on them.								
ECC-404.2	Understand about various types of systems, classify them, analyze them, and perform various operations on them								
ECC-404.3	Understand use of transforms in analysis of signals in continuous and discrete time domain								
ECC-404.4	Understand use of transforms in analysis of systems in continuous and discrete time domain.								
ECC-404.5	Observe the effect of various properties and operations of signals and systems								
ECC-404.6	Evaluate the time and frequency response of Continuous and Discrete time systems which are useful to understand the behaviour of electronic circuits and communication systems.								
Assessment Tools									
Course Outcomes (C O)	Tools								
	College								
	For mapping write yes								
	Test-1	Test-2	Assn1	Assn2	Assn3	Assn4	Assn5	PQP	Others
ECC -404.1	yes		yes						
ECC-404.2	yes			yes					
ECC-404.3		yes			yes				
ECC-404.4		yes				yes			
ECC-404.5							yes		
ECC-404.6								yes	

CO Attainment Targets				Overall CO attainment Distribution	
CO1	60	CO4	60	Direct	Indirect
CO2	65	CO5	60	90	10
CO3	60	CO6	65		



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Overall Attainment Level -CO		Attainment Level –PO and PSO		
Level-1	35	High	3	60
Level-2	50	Medium	2	50
Level-3	60	Low	1	35

Programme Specific Outcome (PSO)	
PSO1	The E&TC graduates will be able to Analyze specific engineering problems and design analog & digital systems for a given specification and function
PSO2	Implement functional blocks of hardware-software co-designs for signal processing and communication applications by applying modern tools for public domain applications
PSO3	Associate the learning from the courses to arrive at solutions to real world problem

CO-PO and PSO Correlation Matrix															
(CO)	PO											PSO			
	A	b	c	d	e	f	g	h	i	j	k	l	m	n	o
ECC -404.1	2	3	1	1		1							1		1
ECC-404.2	2	2	3		1	2							2		1
ECC-404.3	2	2	1	2		3									
ECC-404.4	1	3	3	3	1	1							1		
ECC-404.5	1	3	1	1		2									
ECC-404.6	2	3	1	1	1								3		
Contribution to PO	1.6	2.6	1.6	1.6	1	1.8							1.7	0	1

Now PO can be calculated with the help of following equation

$$WP_i = \sum_j \frac{(CO_j)}{6} \quad (i = 1 \text{ to } 12 \text{ and } j = 1 \text{ to } 6)$$

(where WP_i is the Weight factor for Programming Outcome PO_i)



AY 2017-18(Even Sem)

Course Signal & Systems **Course Code** ECC404 **CourseTeacher**
Department: Electronics & Telecomm. Engineering
Class: S. E. A
Name of Subject: Signals and Systems

Prof. D.
Jadhav

AY 2017-18(Even Sem)										
	Course	Signal & Systems	Course Code	ECC404		CourseTeacher		Prof. D.	Jadhav	
Department: Electronics & Telecomm. Engineering										
Class: S. E. A										
Name of Subject: Signals and Systems										
S N O	UID	NAME OF STUDENT	Internal Assessment							
			Class Test I	Class Test II	Assn I	Assn II	Assn III	Assn IV	Assn V	PQP
			Max Marks:20	Max Marks:20	10	10	10	10	10	10
1	116ET173B	Ardu Samiksha Kailash Hemlata	11	18	7	8	7	8	8	4
2	117ET3193B	Auchar Rutuja Sanjay Ashwini	2	15	7	7	7	8	7	3
3	116ET1117B	Bamane Shruti Shashikant Shweta	14	18	8	8	8	8	8	4
4	116ET1186B	Bhange Monika Mallikarjun Usha	9	15	8	7	8	6	6	4
5	116ET1211B	Bhoir Sheetal Harishchandra Harshali	14	17	7	8	4	8	8	4
6	116ET1403B	Borole Roshane Ramesh Nisha	5	10	7	7	6	6	7	4
7	116ET1004A	Chaudhari Yatin Tukaram Sulabha	14	15	7	3	7	4	5	4
8	117ET3330A	Chaudhary Rishikesh Vitthal Sulochana	8	17	7	3	7	6	7	4
9	116ET1422A	Chavan Praful Subhash Sujata	12	17	7	6	7	4	8	6
10	117ET3284B	Chokshi Harshala Dirgha Geeta	1	7	6	4	5	5	5	3
11	116ET1270B	Choudhari Swapnali Sanjay Supriya	12	12	7	5	7	5	6	4
12	117ET3328A	Dant Ajinkya Anil Anita	4	16	6	6	6	5	4	3

1 3	117ET3 309A	Devkar Nikhil Vijay Rekha	3	12	6	6	7	4	7	4
1 4	116ET1 183B	Dhatrak Prajakta Arun Sangeeta	2	17	8	8	6	4	5	4
1 5	116ET1 179A	Fernandes Ashley Alvin Racheal	18	18	8	8	7	4	5	3
1 6	117ET3 202B	Gavankar Nilakshi Sudhir Sandhya	0	5	7	6	5	4	7	6
1 7	117ET3 277A	Gholap Pratik Vitthal Sharmila	7	16	6	7	7	4	7	6
1 8	117ET3 069A	Ghuge Gajanan Dnyandeo Bhikabai	5	15	7	7	7	4	6	4
1 9	116ET1 242A	Gupta Nitesh Ramshabd Asha	4	12	6	7	7	3	6	1
2 0	117ET3 027A	Indorkar Raj Jawahar	1	16	4	5	6	6	5	4
2 1	117ET3 021B	Jadhav Mrunali Balasaheb Sunita	0	16	6	7	7	7	7	4
2 2	116ET1 048B	Jadhav Isha Ashok Jyoti	9	18	7	7	6	8	7	4
2 3	116ET1 241B	Jadhav Pranisha Mahendra Vaishali	6	17	7	6	7	4	4	3
2 4	117ET3 164B	Jeurgi Prerana Chandrashekhar	5	9	8	7	7	7	7	3
2 5	116ET1 036A	Joshi Siddhesh Sanjiv Sarika	7	18	7	8	6	4	7	3
2 6	113ET1 316B	Londhe Shrushti narayan Meena	3	6	8	8	7	4	6	3
2 7	116ET1 157B	Mahadik Rutuja Chandrakant Reshma	12	13	6	6	4	4	6	4
2 8	115ET1 234A	Mahadik Gaurav Girish Gandhali	7	15	6	7	8	4	1	3
2 9	115ET1 257A	Mahadik Sanket Laxman Lalita	2	16	7	8	7	4	6	4
3 0	117ET3 117A	Malshikare Navnath Baban Shantabai	5	9	6	6	6	4	7	4
3 1	114ET1 091A	Mhetre Govind Saylu Shinabai	1	0	4	4	3	3	6	3
3 2	116ET1 433A	Nair Anirudh Murali Reeja	12	15	8	8	7	4	5	3
3 3	116ET1 367B	Pashilkar Vaishnavi Jagannath Jayashree	8	18	8	7	6	4	6	3
3 4	116ET1 051B	Pawar Anjali Dada Nanda	3	18	6	6	5	4	5	4
3 5	115ET1 043A	Payghan Aniket Purushottam Maya	2	15	6	4	6	4	6	4
3 6	116ET1 279B	Pote Vaishnavi Ramakant Reshma	5	16	6	6	7	4	5	4
3 7	117ET3 258A	Rahul Vijay Prakash Vimla	10	11	6	4	6	1	1	1
3 8	116ET1 160A	Rangari Vishant Virendra Vidya	8	10	7	4	6	4	1	1
3 9	116ET1	Rasal Siddhesh Ramesh	6	10	6	6	7	4	5	5

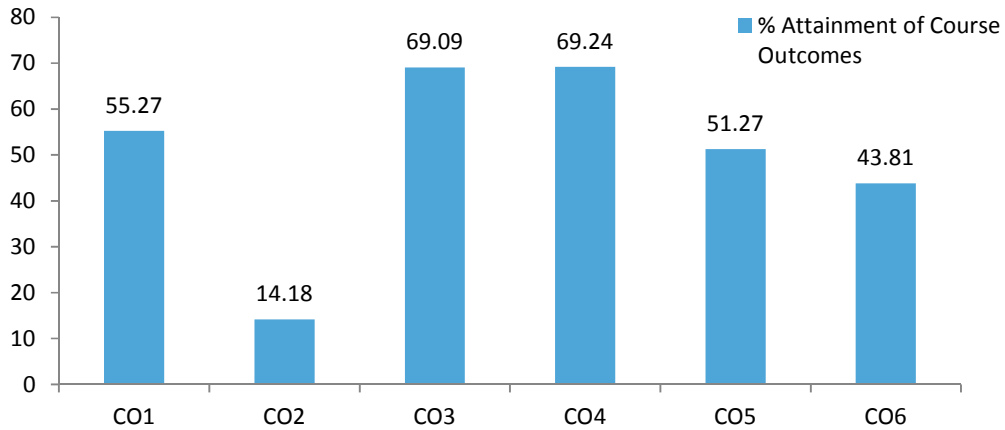
9	439A	Sandhya								
4	116ET1 390B	Ravi Tulika Ravindra Kumar Sunita	8	11	6	6	7	4	6	6
4	116ET1 406A	Sharma Bhaskar Brijbhushan Hemlata	8	14	7	7	4	5	6	4
4	116ET1 128A	Shelke Suraj Navnath Sharda	5	12	6	6	6	4	5	3
4	115ET1 362A	Shetty Prajnay Arun Vidya	5	13	7	7	6	5	5	3
4	116ET1 174A	Singh Abhishek Jitendra Suman	8	15	7	7	7	4	6	4
4	116ET1 338A	Singh Shivam Pavan Saroj	9	9	6	8	3	5	7	3
4	116ET1 412A	Swamy Meghraj Murgan Laxmi	11	12	7	8	5	4	7	4
4	116ET1 313B	Tambe Rasika Deepak Dipika	5	12	6	7	5	4	1	3
4	116ET1 387A	Tiwari Abhishek Surendra Manju	11	14	6	6	7	4	4	4
4	116ET1 371A	Ugale Pranil Shankar Chhaya	5	15	7	6	7	7	7	3
5	116ET1 154A	Varma Sanket Umashankar Munni	14	17	7	6	7	5	6	4
5	116ET1 368B	Waghmare Siddhi Bhimashankar Kavita	9	14	7	7	6	4	1	4
5	116ET1 299A	Yadav Prakash Krishnakant Sheeladevi	13	19	8	7	8	5	5	4
5	116ET1 146A	Yenage Suraj Sitaram Surekha	8	17	8	7	8	5	8	3
5	116ET1 284A	Diya Rajdeepsingh Chhailsingh Ratan.	5	17	4	4	7	1	3	4
5	116ET1 222A	Patil Rushikesh Rohidas Vrushali.	1	12	4	4	6	1	4	4



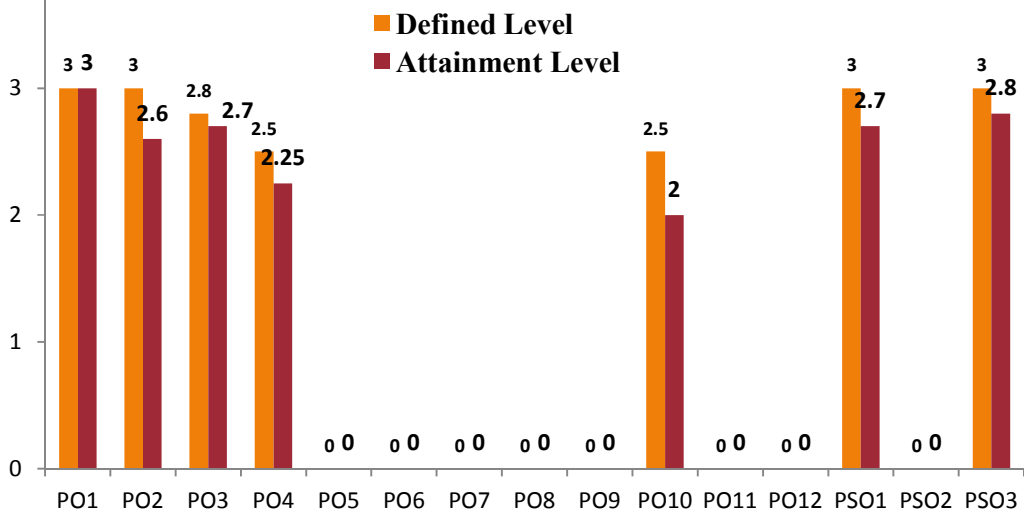
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Overall Course Attainment = 2.33

% Attainment of Course Outcomes



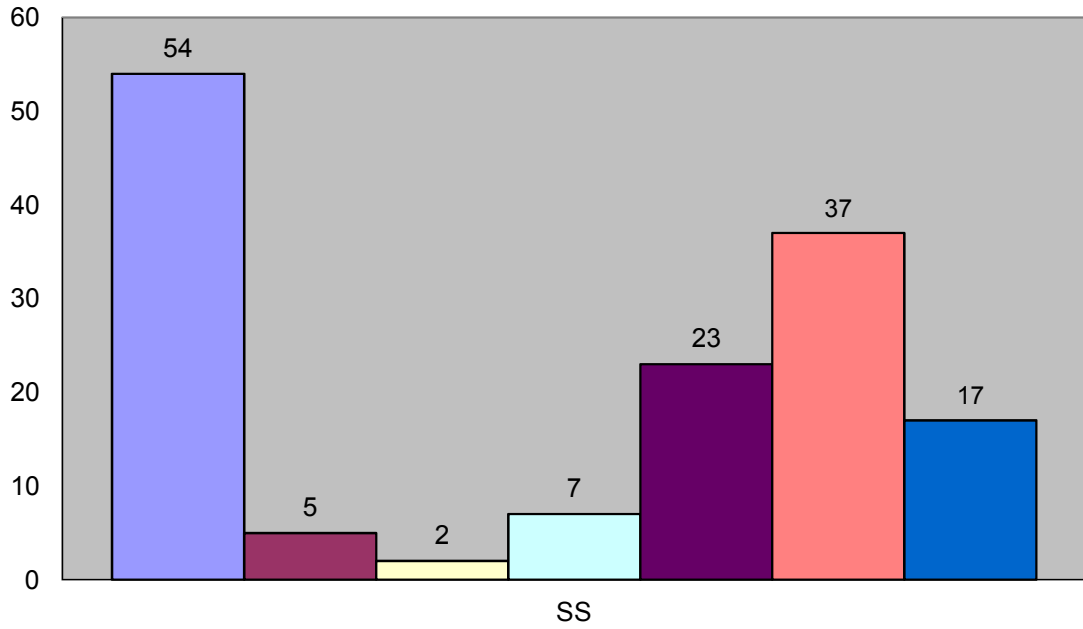
Attainment of Program and Program Specific Outcomes(Level)





MGM's College of Engineering and Technology Kamothe, Navi Mumbai

Overall results =78%



- | | |
|---|-------------------------------------|
| ■ Total No of Students Regular Appeared | ■ No of Students from 70% and above |
| □ No of Students between 60% to 69% | □ No of Students between 50% to 59% |
| ■ No of Students between 40% to 49% | ■ Total No of Students Passed |
| ■ Total No of Students Failed | |

