The Annual Quality Assurance Report (AQAR) of the IQAC
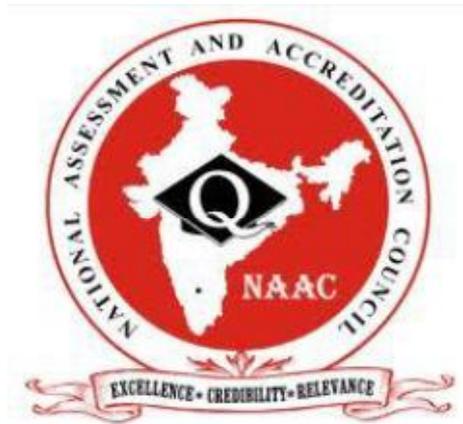
of

MIT ACADEMY OF ENGINEERING

Submitted To

NATIONAL ASSESSMENT AND ACCREDITATION COUNCIL

Submitted By

Dehu Phata, Alandi (D), Tal: Khed,

Dist: Pune, Pin: 412105. Maharashtra. India.

www.mitaoe.ac.in

CONTENTS

Part – A

AQAR for the year | 2014-15 (Period: July 1, 2014 to June 30, 2015)

1. Details of the Institution

1.1 Name of the Institution | MIT Academy of Engineering

1.2 Address Line 1 | Dehu Phata,

Address Line 2 | Tal: Khed, Dist: Pune

City/Town | Alandi (D)

State | Maharashtra

Pin Code | 412105

Institution e-mail address | www.mitaoe.ac.in

Contact Nos. | 020-30253500

Name of the Head of the Institution: | Dr. Y. J. Bhalerao

Tel. No. with STD Code: | 020-30253500

Mobile: | 9823015289

Name of the IQAC Co-ordinator: | Dr. Mahesh D Goudar

Mobile: | 9689907476

IQAC e-mail address: | mdgoudar@etx.maepune.ac.in,
hod@etx.maepune.ac.in

1.3 NAAC Track ID *(For ex. MHCOGN 18879)*

OR

1.4 NAAC Executive Committee No. & Date: | EC (SC) /03 / A & A / 54 – Sept. 24, 2014
(For Example EC/32/A&A/143 dated 3-5-2004.
This EC no. is available in the right corner- bottom
of your institution's Accreditation Certificate)

1.5 Website address: | www.mitaoe.ac.in

Web-link of the AQAR: | http://www.mitaoe.ac.in/AQARMITAOEPune2014-15

1.6 Accreditation Details

Sl. No.	Cycle	Grade	CGPA	Year of Accreditation	Validity Period
1	1st Cycle	A	3.13	2014	Sept. 23, 2019
2	2nd Cycle				
3	3rd Cycle		NOT APPLICABLE		
4	4th Cycle				

1.7 Date of Establishment of IQAC : DD/MM/YYYY | 20/03/2014

1.8 Details of the previous year's AQAR submitted to NAAC after the latest Assessment and Accreditation by NAAC ((*for example AQAR 2010-11submitted to NAAC on 12-10-2011)*

   i. AQAR 2014-15 submitted to NAAC on 08/09/2015

1.9 Institutional Status

University   State ☐   Central ☐   Deemed ☐   Private [√]

Affiliated College   Yes [√]   No ☐

Constituent College   ☐ Yes   ☐ No

Autonomous college of UGC   Yes ☐   No ☐

Regulatory Agency approved Institution   Yes [√]   No ☐

(eg. AICTE, BCI, MCI, PCI, NCI)

Type of Institution   Co-education [√]   Men ☐   Women ☐

                Urban ☐   Rural [√]   Tribal ☐

Financial Status   Grant-in-aid ☐   UGC 2(f) [√]   UGC 12B [√]

           Grant-in-aid + Self Financing ☐   Totally Self-financing [√]

1.10 Type of Faculty/Programme

Arts ☐   Science ☐   Commerce ☐   Law ☐   PEI (Phys Edu) ☐

TEI (Edu) ☐   Engineering [√]   Health Science ☐   Management ☐

Others   (Specify)   ·

1.11 Name of the Affiliating University *(for the Colleges)*

Savitribai Phule Pune University

1.12 Special status conferred by Central/ State Government-- UGC/CSIR/DST/DBT/ICMR etc

Autonomy by State/Central Govt. / University | Nil |

University with Potential for Excellence | Nil | UGC-CPE | Nil |

DST Star Scheme | Nil | UGC-CE | Nil |

UGC-Special Assistance Programme | Nil | DST | Nil |

UGC-Innovative PG programmes | Nil | Any other (*Specify*) | Nil |

UGC-COP Programmes | Nil |

2. IQAC Composition and Activities

2.1 No. of Teachers

09

2.2 No. of Administrative/Technical staff

04

2.3 No. of students

Nil

2.4 No. of Management representatives

02

2.5 No. of Alumni

Nil

2. 6 No. of any other stakeholder and community representatives

Nil

2.7 No. of Employers/ Industrialists

Nil

2.8 No. of other External Experts

01

2.9 Total No. of members

16

2.10 No. of IQAC meetings held

02

2.11 No. of meetings with various stakeholders: Faculty | 01 |

Non-Teaching Staff | Nil | Students | 1 | Alumni | 1 | Others | 1 |

(Dept. wise)   (Dept.wise)   (Parents – Dept. wise)

2.12 Has IQAC received any funding from UGC during the year?   Yes [ ]   No [√]

If yes, mention the amount [ ]

2.13 Seminars and Conferences (only quality related)

(i) No. of Seminars/Conferences/ Workshops/Symposia organized by the IQAC

Total Nos. | Nil | International [ ]   National [ ]   State [ ]   Institution Level [ ]

(ii) Themes | Nil |

2.14 Significant Activities and contributions made by IQAC

1. Implementation of Quality Management system through ISO 9001 quality system compliance.

2. Determination of Processes, their sequence and interrelation

3. Interaction with various stake holders (Students, parents, alumni, employer, industry) at departmental and institutional level for feedback

4. Training need identification, implementation and monitoring of effectiveness.

5. Framing of quality objectives for institution and departments (programme outcomes). Action plan, monitoring and assessment of quality objectives.

2.15 Plan of Action by IQAC/Outcome

The plan of action chalked out by the IQAC in the beginning of the year towards quality enhancement and the outcome achieved by the end of the year *

Plan of Action	Achievements
1.Implementation of Quality Management System vide ISO 9001.	1. Upgradation of the quality standard to meet the requirements of NAAC. Re registration audit scheduled in the month of Sept. / October 2015
2. Broadening the scope of stake holders Feedback to understand future prospects of students	2. a) Revision and standardization of all stake holders feedback. in the Exit Feedback form. b) Satisfactory level increased to 7 on a scale of 10 from existing 6.
3. To identify Training needs across all Departments in view of NBA / autonomy.	3. Training needs analysed and faculty deputed for relevant Training
4. To establish autonomy Steering Committee to promote autonomy activities in the Institute	4. Established Autonomy Steering Committee

.

2.15 Whether the AQAR was placed in statutory body   Yes ☐   No ☐ √

Management ☐   Syndicate ☐ Any other body ☐

Provide the details of the action taken

Part – B

Criterion – I

1. Curricular Aspects

1.1 Details about Academic Programmes

Level of the Programme	Number of existing Programmes	Number of programmes added during the year	Number of self-financing programmes	Number of value added / Career Oriented programmes
PhD	01	Nil	Nil	Nil
PG	02	01	Nil	Nil
UG	06	01	Nil	Nil
PG Diploma	Nil	Nil	Nil	Nil
Advanced Diploma	Nil	Nil	Nil	Nil
Diploma	Nil	Nil	Nil	Nil
Certificate	Nil	Nil	Nil	Nil
Others	Nil	Nil	Nil	Nil
Total	09	02	Nil	Nil

Interdisciplinary	Nil	Nil	Nil	Nil
Innovative	Nil	Nil	Nil	Nil

1.2 (i) Flexibility of the Curriculum: CBCS/Core/Elective option / Open options
(ii) Pattern of programmes:

Pattern	Number of programmes
Semester	11
Trimester	Nil
Annual	Nil

1.3 Feedback from stakeholders*   Alumni [√]   Parents [√]   Employers [√]   Students [√]
(On all aspects)

   Mode of feedback   :   Online [√] Manual [√] Co-operating schools (for PEI) [NA]

*Please provide an analysis of the feedback in the Annexure (Refer Annexure II)

1.4 Whether there is any revision/update of regulation or syllabi, if yes, mention their salient aspects.

The third year engineering curriculums (Semester 5 and 6) of programmes chemical, computer, Electronics, Electronics and Telecommunication, IT and Mechanical have been revised and updated.

a) The examination pattern has also been modified to include 30% in semester evaluation and 70 % end semester examination.
b) 'Employability Skills' is introduced in revised syllabus through which art of applying basic concepts for designing system is taught and interest is created in the field of designing as a perspective career option.
c) More Practical oriented courses are introduced.
d) Advanced Storage Technologies , Big Data and Mongo DB are introduced in the subject Database Management Systems Applications (Computer Programme)
e) Forensics and Cyber Applications is the new area introduced with focus on foundations of digital forensics, Network basics for digital investigators and applying forensic science to networks (Computer Programme)

1.5 Any new Department/Centre introduced during the year. If yes, give details.

Humanity and Professional Department (HPD) has been created to emphasize on professional development skills, encourage students to prepare for competitative examinations and higher studies

Criterion – II

2. Teaching, Learning and Evaluation

2.1 Total No. of permanent faculty

Total	Asst. Professors	Associate Professors	Professors	Others
161	143	11	7	-

2.2 No. of permanent faculty with Ph.D.

10

2.3 No. of Faculty Positions Recruited (R) and Vacant (V) during the year

Asst. Professors		Associate Professors		Professors		Others		Total	
R	V	R	V	R	V	R	V	R	V
20		01		01				22	

2.4 No. of Guest and Visiting faculty and Temporary faculty

Nil	O2	Nil

2.5 Faculty participation in conferences and symposia:

No. of Faculty	International level	National level	State level
Attended	14	38	11
Presented papers	23	53	05
Resource Persons	01	00	03

2.6 Innovative processes adopted by the institution in Teaching and Learning:

1. Use of Virtual Labs.
2. Webinars
3. NPTEL Lectures
4. Industrial Visits
5. Moodle at departmental level
6. Online evaluation system for student performance.
7. The tools and techniques for self learning are imbibed among students by conducting ad-on- courses.
8. Guest Lectures
9. Seminars
10. Workshops
11. Relevant research papers are used (where ever possible) to teach beyond syllabus, also the same papers are provided to students for reference and study.
12. Use of MOOC

2.7 Total No. of actual teaching days during this academic year

90 / 90

2.8 Examination/ Evaluation Reforms initiated by the Institution (for example: Open Book Examination, Bar Coding, Double Valuation, Photocopy, Online Multiple Choice Questions)

Open Book Examination, Photocopy of answer sheet, Online Multiple Choice

2.9 No. of faculty members involved in curriculum restructuring/revision/syllabus development as member of Board of Study/Faculty/Curriculum Development workshop

02	21	60

2.10 Average percentage of attendance of students

77 %

2.11 Course/Programme wise distribution of pass percentage :   2014-15

Title of the Programme	Total no. of students appeared	Division				
		Distinction %	I %	II %	III %	Pass %
Chemical	53	45.32	32	7.46	Nil	85
Computer	132	19	56	19	1.5	95.44
Electronics	63	14,29	53.97	26.98	1.59	96.8
E & TC	94	35.11	32.97	22.34	Nil	90.42
IT	59	8.47	66.10	20.33	Nil	94.9
Mech	63	36.50	44.44	12.69	Nil	93.65

2.12 How does IQAC Contribute/Monitor/Evaluate the Teaching & Learning processes :

Internal quality audits are conducted every six months in the following aspects Review of Quality Policy and Quality Objectives, stake holders feedback, internal audit results, Product Conformity and Processes Performance and non conforming services including students, Corrective and Preventive action and follow up, Recommendations for improvement and Resources and Infrastructure requirement and any other point related quality and reviewed during the management review meeting.

2.13 Initiatives undertaken towards faculty development

Faculty / Staff Development Programmes	Number of faculty benefitted
Refresher courses	22
UGC – Faculty Improvement Programme	Nil
HRD programmes	02
Orientation programmes	08
Faculty exchange programme	Nil
Staff training conducted by the university	51
Staff training conducted by other institutions	61
Summer / Winter schools, Workshops, etc.	59
Others (CISCO / TSSC)	08

2.14 Details of Administrative and Technical staff

Category	Number of Permanent Employees	Number of Vacant Positions	Number of permanent positions filled during the Year	Number of positions filled temporarily
Administrative Staff	148	Nil	07	Nil
Technical Staff	44	Nil	04	Nil

Criterion – III

3. Research, Consultancy and Extension

3.1 Initiatives of the IQAC in Sensitizing/Promoting Research Climate in the institution

Quality objectives are revised at the start every academic year vide KRA's (Key result areas) and the FDPs/ workshops are conducted for promotion of research activities in the institute. Additional criteria based financial benefits are given to faculty contributing to the research .activities are arranged

3.2   Details regarding major projects

	Completed	Ongoing	Sanctioned	Submitted
Number	Nil	3	Nil	10
Outlay in Rs. Lakhs	Nil	69.6 L	Nil	186.5 L

3.3   Details regarding minor projects

	Completed	Ongoing	Sanctioned	Submitted
Number	0	5	7	14
Outlay in Rs. Lakhs	0	6.63 L	4.37 L	34.72 L

3.4   Details on research publications

	International	National	Others
Peer Review Journals	65	7	0
Non-Peer Review Journals	0	0	0
e-Journals	1	0	0
Conference proceedings	29	36	0

3.5 Details on Impact factor of publications:

Range	Average	h-index	Nos. in SCOPUS
0.4 to 4,4	0.5 to 2.65	4 to 6	3

3.6 Research funds sanctioned and received from various funding agencies, industry and other organisations

Nature of the Project	Duration Year	Name of the funding Agency	Total grant sanctioned	Received
Major projects	2013-16	AICTE	1638000	1569668
	2013-15	DAE-BRNS	2439000	2286000
Minor Projects	2013-15	BCUD	280000	238000
	2014-16		230000	0
	2013-15		175000	87000
	2013-15		100000	50000
	2013-15		140000	119000
	2014-16		122000	61000
Interdisciplinary Projects	Nil	Nil	Nil	Nil
Industry sponsored	Nil	Nil	Nil	Nil
Projects sponsored by the University/ College	Nil	Nil	Nil	Nil
Students research projects *(other than compulsory by the University)*	2014-15	Third Element	10000	10000
Any other(Specify)	2014-15	QIP-SPPU	400000	360000
	2014-15	NSDC	550000	500000
Total			6084000	5280668

3.7 No. of books published   i) With ISBN No.   4   Chapters in Edited Books   Nil

ii) Without ISBN No.   Nil   Nil

3.8 No. of University Departments receiving funds from

UGC-SAP   Nil   CAS   Nil   DST-FIST   Nil

DPE   Nil   DBT Scheme/funds   Nil

3.9 For colleges   Autonomy   Nil   CPE   Nil   DBT Star Scheme   Nil

INSPIRE   Nil   CE   Nil   Any Other (specify)   Nil

3.10 Revenue generated through consultancy   689807.00/-

3.11 No. of conferences

organized by the Institution

Level	International	National	State	University	College
Number	Nil	3	Nil	Nil	Nil
Sponsoring agencies		BCUD IEEE ASC, Cadd, IFS			

3.12 No. of faculty served as experts, chairpersons or resource persons ☐ 17

3.13 No. of collaborations International ☐ 1 National ☐ 13 Any other ☐ NIL

3.14 No. of linkages created during this year ☐ 1

3.15 Total budget for research for current year in lakhs :

From Funding agency ☐ 10.1 L   From Management of University/College ☐ 14 L

Total ☐ 24.1 L

3.16 No. of patents received this year

Type of Patent		Number
National	Applied	NIL
	Granted	NIL
International	Applied	NIL
	Granted	NIL
Commercialised	Applied	NIL
	Granted	NIL

3.17 No. of research awards/ recognitions   received by faculty and research fellows
Of the institute in the year

Total	International	National	State	University	Dist	College
6	2	1	0	3	0	0

3.18 No. of faculty from the Institution
who are Ph. D. Guides ☐ 3
and students registered under them ☐ 11

3.19 No. of Ph.D. awarded by faculty from the Institution ☐ Nil

3.20 No. of Research scholars receiving the Fellowships (Newly enrolled + existing ones)

JRF ☐ 1   SRF ☐   Project Fellows ☐   Any other ☐ 2

3.21 No. of students Participated in NSS events:

University level	100	State level	Nil
National level	Nil	International level	Nil

3.22 No. of students participated in NCC events:

University level	Nil	State level	Nil
National level	Nil	International level	Nil

3.23 No. of Awards won in NSS:

University level	Nil	State level	Nil
National level	Nil	International level	Nil

3.24 No. of Awards won in NCC:

University level	Nil	State level	Nil
National level	Nil	International level	Nil

3.25 No. of Extension activities organized

University forum	1	College forum			
NCC		NSS	4	Any other	

3.26 Major Activities during the year in the sphere of extension activities and Institutional Social Responsibility

- 12 Activities

Criterion – IV
4. Infrastructure and Learning Resources

4.1 Details of increase in infrastructure facilities:

Facilities	Existing	Newly created	Source of Fund	Total
Campus area	44967.40	Nil	College Funds	Nil
Class rooms	29	7		36
Laboratories	69	8		77
Seminar Halls	03	01		04
No. of important equipments purchased ($\geq$ 1-0 lakh) during the current year.	90	17	Dept. Fund, consultancy and research	107
Value of the equipment purchased during the year (Rs. in Lakhs)	710.8	57.36		768.2
Others	Nil	Nil	Nil	Nil

4.2 Computerization of administration and library

Online feed back system, online examination, online alumni and employer feedback. Central library uses slim 21 (4.2 Version). Library management software which contain various modules like circulation, acquisition etc.

4.3 Library services:

	Existing		Newly added		Total	
	No.	Value	No.	Value	No.	Value
Text Books	29446	8874653	824	362123	30270	9236776
Reference Books	2412	2897879	48	262676	2460	3160555
e-Books	363	217736	167	Open access	167	217736
Journals	97	2505243	06	14010	103	2519253
e-Journals	2366	6802984	N-List e-resources	5000	891	6807984
Digital Database	1763	377176	--	-	-	377176
CD & Video	352 video + 151 web (NPTEL Videos + web)	50739 + NPTEL	25 video + 30 web	Downloaded from the NPTEL web site	558	50739
Others (specify)	University Question paper Syllabus Project Report & List of various reference resources	In house developed in digital form	Article Indexing of journals	-	-	-

4.4 Technology up gradation (overall)

	Total Computers	Computer Labs	Internet	Browsing Centres	Computer Centres	Office	Depart-ments	Others
Existing	Existing	964	Nil	1) 50 MBPS 1:1 BW 2) 8 MBPS	1	1	1	Nil
Added	Added	43	Nil	Nil	Nil	Nil	Nil	Nil
Total	Total	1007	Nil	58 MBPS	1	1	1	Nil

4.5 Computer, Internet access, training to teachers and students and any other programme for technology upgradation (Networking, e-Governance etc.)

- Internet Access: Free internet access is provided for students at computer centre on all week days.
- Monday to Friday 8.30 AM to 8.30 PM
- Saturday and Sunday : 9.00 AM to 5.00 PM
- Training to students for technology up-gradation is provided through add on modules

4.6 Amount spent on maintenance in lakhs :

i) ICT	0.11
ii) Campus Infrastructure and facilities	7.64
iii) Equipments	20.29
iv) Others	
Total :	28.03

Criterion – V
5. Student Support and Progression

5.1 Contribution of IQAC in enhancing awareness about Student Support Services

1. Counselling and Grievance redressal by grievance faculty members.

2. Organising and conduction of Technical events such as Robocon, BAJA, Supera, Schemcon , world Skills international competitions etc.

3. Fostering Technical and personality growth of students on the aegis of various students chapters such as IEEE, IE(I), ACM, IETE, CSI etc.

5.2 Efforts made by the institution for tracking the progression

- Through ISO 9001 quality management systems (QMS) by checking attendance and academic Non conformity.
- Through continual assessment of curriculum delivery throughout the semester vide assignments, internal class tests, in semester examinations etc.
- Interim reviews for Projects and Seminars

5.3 (a) Total Number of students

UG	PG	Ph. D.	Others
2364	62	2	0

(b) No. of students outside the state

456

(c) No. of international students

Nil

Men
No	%
1745	71.92

Women
No	%
681	28.08

	Last Year						This Year				
General	SC	ST	OBC	Physically Challenged	Total	General	SC	ST	OBC	Physically Challenged	Total
1459	201	26	587	1459	2273	1527	203	28	605	1	2364

5.4 Details of student support mechanism for coaching for competitive examinations (If any)

We conduct weekly sessions on 'Aptitude' for coaching students for competitive examinations. Besides, we conduct awareness programmes and guest lectures on GRE, GMAT and GATE examinations

No. of students beneficiaries

250

5.5 No. of students qualified in these examinations

NET | Nil | SET/SLET | Nil | GATE | 09 | CAT | 03

IAS/IPS etc | Nil | State PSC | Nil | UPSC | 05 | Others | 05

5.6 Details of student counselling and career guidance

1. We counsel our students on career development. They are guided on various opportunities available for higher education in India and abroad.

2. Career guidance workshop under Humanity and Professional Development (HPD) and training and placement (T&P) cell.

No. of students benefitted   200

5.7 Details of campus placement

On campus			Off Campus
Number of Organizations Visited	Number of Students Participated	Number of Students Placed	Number of Students Placed
48	443	148	40

5.8 Details of gender sensitization programmes

Improving efficiency of female faculty at work place – Yoga & meditation supervised by external expert

5.9 Students Activities

5.9.1   No. of students participated in Sports, Games and other events

State/ University level | 72 | National level | Nil | International level | Nil

No. of students participated in cultural events

State/ University level | 30 | National level | Nil | International level | Nil

5.9.2 No. of medals /awards won by students in Sports, Games and other events

Sports : State/ University level [7]   National level [6]   International level [ ]

Cultural: State/ University level [2]   National level [ ]   International level [ ]

5.10 Scholarships and Financial Support

	Number of students	Amount
Financial support from institution	7	1,02,242/-
Financial support from government	1074	8,38,39,251/-
Financial support from other sources	0	0
Number of students who received International/ National recognitions	0	0

5.11   Student organised / initiatives

Fairs   : State/ University level [ ]   National level [ ]   International level [ ]

Exhibition: State/ University level [1]   National level [2]   International level [2]

5.12   No. of social initiatives undertaken by the student [9]

5.13 Major grievances of students (if any) redressed: Nil

Criterion – VI

6. Governance, Leadership and Management

6.1 State the Vision and Mission of the institution

Vision : **To develop the institute into a world-class learning centre with an excellent ambience for academics and research conjugated with vibrant environment for honing the extra and co curricular skills of all its stake holders to enable them to meet the challenge of a fiercely competitive world.**

Mission: Our Mission is to prepare competent engineers, imbibed with the spirit of professionalism and responsible citizenship in a competitive global environment. To this end, management and faculty commit themselves to the pursuit of excellence in technical education through discovery and dissemination of knowledge, development of technical and social and inculcation of values that define professional conduct.

6.2 Does the Institution has a management Information System

Computerization of administration: The institution has good computer network and following processes are partially or fully computerised

1) Accounts 2) Library 3) Online feedback 4) Online mid semester examination.

6.3 Quality improvement strategies adopted by the institution for each of the following:

6.3.1 Curriculum Development

- Exposure to international language (German) vide add on Module
- Communication and Soft Skill Courses vide add on module.
- Club activities like Robotics started.
- Add on modules related to industry requirements started to enhance placement.

6.3.2 Teaching and Learning

- Make up classes for weaker students.
- Standardization of feedback formats.
- Sharing of course notes vide moodle

6.3.3 Examination and Evaluation

- Assignments.
- Internal Class test.
- In semester examinations for third year Engineering.

6.3.4 Research and Development

- Identifying departmental thrust areas and leveraging consultancy work by the faculty, based on these thrust areas.
- Identifying training needs of the faculty and deputing them to attend various seminars workshops and conferences to fulfil those needs.
- Criteria based additional financial incentive for research and publications by faculty

6.3.5 Library, ICT and physical infrastructure / instrumentation

Library

- Central Library is using the SLIM 21 Library Software with various modules for all library activity.
- Bar coded based issue / return of books.
- Central Library has started SMS service.
- Softcopy of old question papers

ICT

- Broadband connection – connectivity speed improved. 50 MBPS 1:1 BW and 8 MBPS at Girls hostel.
- PC configuration – upgradation of PCs

Physical Infrastructure

- Campus security using surveillance cameras
- Renovation of T&P facility
- Food and canteen facility improvement
- New laboratories developed in civil Dept.

6.3.6 Human Resource Management

- API system for faculty revised.

6.3.7 Faculty and Staff recruitment

- Presentation , technical / non technical interviews, establishment of panel for faculty recruitment involving Principal, ED nominee, Registrar, Head of the Department, and Subject experts outside college.

6.3.8 Industry Interaction / Collaboration

- Placement activity
- Guest lectures
- Professional Development Courses
- Industrial visits
- Communication skills and aptitude based training.
- Add on modules based on the requirement of industry.

6.3.9 Admission of Students

- Academic reforms to address needs of Industry, academia and Society at large vide add on modules.
- Encouraging students to participate at Engineering activities of repute at National and International level (Robocon, World Skills International competition, BAJA, Supra etc.) , E – Yantra, National level project competitions etc, making a vide publicity of the institution across the nation.
- Organizing technical Engineering events at National and International level.
- Organizing a National level technical event at high school level (Junior ROBOCON), creating a affection towards engineering (Free training is provided to all participants)

6.4 Welfare schemes for

Teaching	124798.00
Non teaching	
Students	418319.00

6.5 Total corpus fund generated

443.13 Lakhs

6.6 Whether annual financial audit has been done | √ | Yes | | No

6.7 Whether Academic and Administrative Audit (AAA) has been done?

Audit Type	External		Internal	
	Yes/No	Agency	Yes/No	Authority
Academic	Yes	American Quality Assurance (AQA)	Yes	Faculty / staff of other departments
Administrative	Yes		Yes	

6.8 Does the University/ Autonomous College declares results within 30 days?

For UG Programmes　　　Yes [　]　No [√]

For PG Programmes　　　Yes [　]　No [√]

Results are declared in about 30 to 45 days from the day of examination.

6.9 What efforts are made by the University/ Autonomous College for Examination Reforms?

> Curriculum and examination pattern are revised periodically. Online and in semester examinations have been introduced by affiliating university.

6.10 What efforts are made by the University to promote autonomy in the affiliated/constituent colleges?

> We are planning for academic autonomy and the committee visit is scheduled in the month of Sept. 2015.

6.11 Activities and support from the Alumni Association

> Nil

6.12 Activities and support from the Parent – Teacher Association

> Nil

6.13 Development programmes for support staff

> Nil

6.14 Initiatives taken by the institution to make the campus eco-friendly

> - . Paperless online Mid Semester Examination conducted every Semester for first and second year of Engineering.
> - Printouts and photocopies are taken on both sides of the paper
> - Wasted papers / NEWS papers etc. are forwarded for recycling purpose
> - Toner cartridge are recycled
> - Biometric attendance is used for all employees

Criterion – VII

7. Innovations and Best Practices

7.1 Innovations introduced during this academic year which have created a positive impact on the functioning of the institution. Give details.

1. Use of Virtual Labs.
2. Webinars
3. NPTEL Lectures
4. Industrial Visits
5. Moodle at departmental level
6. Online evaluation system for student performance.
7. The tools and techniques for self learning are imbibed among students by conducting add-on- courses.
8. Relevant research papers are used (where ever possible) to teach beyond syllabus, also the same papers are provided to students for reference and study.
9. Use of MOOC

7.2 Provide the Action Taken Report (ATR) based on the plan of action decided upon at the beginning of the year

1.Plan – Revise the curriculum of UG curriculum.

Action Taken: The Under Graduate Structure & Syllabus of third year Engineering has been revised.

2.Plan – To improve communication and Aptitude skills of students.

Action Taken - HPD (Humanity and Professional development department) started for the communication and professional development of students.

3 Plan – To form Department Advisory Boards

Action Taken – Identification of Board Members and acceptance of their consent

4. Plan – To apply for academic autonomy.

Action Taken Report submitted to UGC. The committee visit is scheduled in the last week of Sept. 2015

5. Plan: To update ISO 9001 system to the requirements of NAAC.

Action Taken – ISO 9001 system modified and re-registration audit by AQA is scheduled in the month of Sept. 2015

7.3 Give two Best Practices of the institution (please see the format in the NAAC Self-study Manuals)

> 1. Professional development Courses by Industry
> 2 Stake Holders' Feedback and its use for improvement
> 3 ISO 9001: 2008 implementation
> 4. Moodle at departmental level
> 5. Use of Virtual Labs.
> 6. Use of bulk SMS for communication.

7.4 Contribution to environmental awareness / protection

> 1.All electrical and electronics equipments are switched off when not in use are used at appropriate places.
> 2 Photographs / videos are digitally stored instead of paper albums or plastic tape
> 3. Greenery and plantation are made within the campus

7.5 Whether environmental audit was conducted? Yes [ ] No [√]

7.6 Any other relevant information the institution wishes to add. (for example SWOT Analysis)

> **Strengths**
>
> - Our final year results have been consistently good for all the academic disciplines.
> - Best teaching and learning practices
> - Funded research projects from the apex funding agencies like UGC, AICTE, DAE, DST, RPS, BRNS etc.
> - The institute conducts significant academic events for the development of faculty and students.
> - Additional skill areas like soft skills and add-on technical skills are covered for student development
> - A well implemented student counseling scheme
> - A state-of-the-art Central Library
> - 4 undergraduate engineering department accredited twice
> - Institute introduced Add-on Courses as per requirement of industry

Weaknesses

- Need to strengthen the Industry Institute Interaction activities
- Focus more on entrepreneurship development
- Lack of patents
- Inadequate number of faculty with vast industrial experience
- Consultancy activities to be enhanced
- Located in rural area

Opportunities

- Situated near the Chakan industrial area which will allow us to collaborate with industry and help strengthen the industrial research and placements of students.
- Scope for research in robotics and other upcoming areas in engineering.
- Honing the skills and abilities of the students for their self-development and thereby the development of the institute.
- Scope for Inter-disciplinary research
- International relations (joint research and PhD programmes) will give international exposure to the students and faculty members.
- Higher Education
- Collaborative research along with students

Threats

- Changing socio-economic scenario leading to unpredictable future.
- Rapidly changing technology and the industrial requirements ask for enhancing the employability of students for which extra measures need to be taken.
- Increasing the number of international tie-ups.
- Fill up the gap between ensuing and advanced knowledge

8. Plans of institution for next year

1. Successful Implementation of Academic Autonomy
2. Improving Placement of your students
3. Supporting Students in career services in your department: this includes both student development and higher education assistance to students.
4. Value added courses in every Dept. and every term.
5. Use of the language department effectively : with major focus on English and business communication.
6. Participating in some National / International well known students Technical event.
7. Organizing STTP/Workshops/FDP/ Seminars/ for faculties and Student Development programs.
8. Improvement in SE/TE/BE results compared to last year
9. Publishing research papers.
10. Submitting research proposal to various funding agencies

Name Dr. Mahesh D Goudar   Name Dr. Yogesh J Bhalerao

_____   _____

Signature of the Coordinator, IQAC   Signature of the Chairperson, IQAC

_____***_____

Annexure I

Abbreviations:

AAA	-	Academic and Administrative audit
AQA	-	American Quality Assessors
CAS	-	Career Advanced Scheme
CAT	-	Common Admission Test
CBCS	-	Choice Based Credit System
CE	-	Centre for Excellence
COP	-	Career Oriented Programme
CPE	-	College with Potential for Excellence
DPE	-	Department with Potential for Excellence
GATE	-	Graduate Aptitude Test
NET	-	National Eligibility Test
PEI	-	Physical Education Institution
SAP	-	Special Assistance Programme
SF	-	Self Financing
SLET	-	State Level Eligibility Test
TEI	-	Teacher Education Institution
UPE	-	University with Potential Excellence
UPSC	-	Union Public Service Commission

Annexure – II (Interaction with stake holders)

1. Alumni
2. Parents
3. Employer
4. Students

1. Alumni

a)

MIT Academy Of Engineering Alandi(D),Pune
Department Of Computer Engineering
Alumni Feedback
Academic Year 2014-15

Sr.No.	Points Of Feedback	Average	Remark
1	After learning & graduating from MIT, how much an inclined student is capable to succeeds in competitive exam like GATE,UPSC,MPSC etc.	76%	Very Good
2	How much MIT prepares students' technical knowledge background so that a he/she is capable to succeed in higher studies like M.E, M.B.A, M.Tech etc.	73%	Very Good
3	After learning in MIT, how much you think that your communication skill & personality has improved.	79%	Very Good
4	How much do you think MIT learning has imparted you the required technical knowledge & skills to work in any computer engineering industry without any difficulty	75%	Very Good
5	How much the staff is motivated to provide good technical learning process in our dept. & staff is also working hard to give proper guidance to student.	67%	Very Good
6	How much do you think learning in MIT is useful to solve engineering problem in computer engineering projects you are working on, and it also makes you life long learner.	80%	Excellent
7	How much do you think MIT teaching-learning process and its system is capable of producing a good entrepreneur.	69%	Very Good
8	How much do you think a student learns good professional ethics in our college & he/she will be useful to society as a comp. engineer of commitment	75%	Very Good
9	How much do you think the MIT learning environment develops skills to work in team, discipline and good leadership qualities	77%	Very Good
10	How much dynamic & evolving MIT system & learning environment you think is, which will always keep pace with outside world & develop its student to face modern challenges	79%	Very Good

Note No of students attended alumni meet -83
Average calculation point= marks/no.of students attended alumni meet *100

80% -100% Excellent
60% - 79% Very Good
45% - 59 % Average
Below 44% Poor

Prepared By

Sr No	Stake holders	Observations (suggestion given during meet)	Action
1.	Alumni	1. There should be one common portal for all the alumni 2. More interaction with industries 3. Students should develop professional skills	-Frequent industrial visit, Industrial training and guest lectures are been arranged for students for enhancing the interaction between industries and students -Personality development classes, aptitude classes, communication skill classes, German classes and entrepreneurship workshops are been arranged for overall development of students
2	Alumni	Learning in MITAOE should be made more useful for projects in industry	- Add on modules on latest technologies such as MSP-430 is arranged - Academic calendar is scheduled across the institution

2 a)

MIT Academy of Engineering, Alandi(D.), Pune

Department of Computer Engineering

Parent Meet Feedback Analysis

Year :- 2014 -2015

Class :- SE, TE, BE

Semester :- I & II

Sl. No.	Description	Remark
1	Parents views on organizing Parent – Teacher Meet	Good
2	Parents views regarding conduction of academics in College	Good
3	Parents views on Facilities available at Department / College / Hostel	Excellent
4	Parents Views about weakness in their ward	Some of the subjects are difficult for the students.
5	Suggestions on how to help their ward in improving	Conduct Extra Lectures and practical in difficult Subjects
6	Any Suggestions for further improvement	Regularity in attending lectures and practical should be improved.
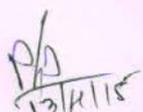
Mr. Pramod D. Ganjewar

Class Teacher In charge
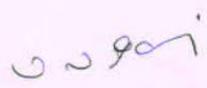
Prof. Uma Nagaraj

Head of Department

b)

MIT Academy of Engineering
Alandi (D), Pune- 412105

Department of E&TC Engg.
Advancing Humanity through Technology
(Accredited by NBA, ISO 9001:2008 Certified)
FEED BACK ANALYSIS OF PARENT TEACHER MEET ON 09/08/2014

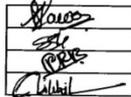| Sr. No.	Parameter	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	32	33	34	35	36	37	38	39	40	41	42	43	44	45	46	47	48	49	50	TOTAL
1	Vision and Mission	4	3	3	5	5	4	5	5	5	4	3	4	4	5	4	5	4	3	4	4	4	5	4	5	5	4	4	4	1	3	3	4	4	5	5	3	4	4	4	4	5	5	5	3	5	4	5	4	5	5	23
2	Objectives and Outcomes	2	4	3	4	5	4	5	5	5	4	3	4	4	3	3	5	4	3	3	5	3	4	4	5	4	4	4	4	1	3	4	4	4	4	4	3	3	3	3	4	5	5	5	4	5	5	5	4	5	5	22
3	Curriculum	4	3	2	4	4	4	0	5	5	2	3	4	4	3	3	5	3	4	3	4	3	5	3	4	3	4	5	5	1	3	3	4	5	5	5	2	3	3	3	4	5	5	4	3	5	4	5	4	4	5	21
4	Teaching Learning Process	3	3	3	4	5	4	5	5	5	4	3	4	4	4	4	5	4	3	4	4	4	4	3	4	4	5	4	4	1	2	5	0	4	5	5	3	2	3	3	5	5	5	4	3	5	3	4	4	4	4	21
5	Faculty and Staff	3	3	4	4	5	4	5	5	5	4	4	4	4	4	4	5	5	4	4	5	4	4	3	5	5	4	5	5	1	3	4	5	4	5	5	3	2	3	3	5	5	5	4	3	4	3	4	4	4	4	23
6	Academic facility (Class Room & Labs)	3	4	3	4	4	4	5	4	5	5	3	4	4	3	4	5	3	4	2	3	2	4	3	4	4	5	5	5	1	4	4	4	5	4	4	2	2	2	2	4	5	5	3	4	4	3	4	4	3	5	21
7	Administrative facilities	2	2	2	4	5	4	4	4	5	5	3	4	4	4	4	5	4	3	3	3	3	4	3	4	4	4	4	4	1	3	3	3	4	5	5	2	1	2	2	4	5	5	4	4	5	4	4	4	4	5	20
8	Placements	2	2	0	4	5	4	0	0	5	3	2	4	4	4	3	5	3	4	3	4	2	0	3	4	3	4	4	4	1	3	5	3	4	4	4	1	1	3	3	3	4	5	0	4	0	3	4	4	0	5	17
9	Overall Impression	3	3	2	5	5	4	5	5	5	5	2	4	4	4	5	5	3	4	3	4	3	4	3	5	4	4	4	4	1	3	4	4	4	5	5	3	1	3	3	4	5	5	4	4	5	4	4	4	4	5	22
	TOTAL																																																			4

Class coordinators
Smita S. Pawar
Smita S. Kulkarni
Prachi R. Rajarapollu
Nikhil R. Shimpi

CT - Class Test   A - Assignment   CC - Class Coordinator

c)

Department of Electronics & Telecommunication Engineering
Parent Teacher meet (Term II)
Academic Year 2014-15
Feedback Analysis

SN	Parameter	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23
1	Vision and Mission	4	4	4	4	4	5	4	5	4	5	4	5	5	4	5	4	4	4	5	5	3	5	3
2	Objective and Outcomes	3	4	4	4	4	5	4	4	4	4	4	4	4	3	5	3	3	3	4	4	3	3	3
3	Curriculum	4	4	4	4	4	5	5	5	3	4	4	5	3	3	5	3	4	5	5	4	3	4	3
4	Teaching Learning Process	4	4	4	4	4	5	4	5	3	4	5	5	4	3	5	3	5	4	5	3	2	4	2
5	Faculty and Staff	4	4	4	4	4	5	4	5	4	4	4	5	4	3	5	3	4	5	5	5	2	4	3
6	Academic Facilities	4	4	4			4	5	5	3	4	4	3	5	2	4	4	4	5	4		3	4	5
7	Administrative facilities	3	4	4			5	5	4	4	4	4	5	5	4	4	4	4	4	5	4	2	4	5
8	Placement	4	4	4			5		4	3	4	4	3	5	3	4	2	4	4	3			4	4
9	Overall Impression	5	4	4	4	4	5	5	5	4	4	5	4	4	3	5	3	4	4	4	4	1	4	3
	Total	35	36	36	24	24	44	36	42	32	37	38	39	39	28	42	29	36	38	40	29	19	36	31

SN	Parameter	24	25	26	27	28	29	30	31	32	33	34	35	36	37	38	39	40	41	42	43		
1	Vision and Mission	5	4	5	4	3	5	4	4	4	4	5	5	4	4	4	5	4	5	4	4	185	4
2	Objective and Outcomes	5	5	5	3	3	5	4	3	3	4	4	4	4	3	4	5	5	5	3	4	167	4
3	Curriculum	5	4	4	3	3	5	4	3	4	4	4	4	4	4	4	5	4	5	3	3	172	4
4	Teaching Learning Process	5	5	5	3	4	4	5	3	3	4	5	5	5	5	4	5	5	5	3	4	178	4
5	Faculty and Staff	5	4	5	3	4	4	5	4	3	5	5	5	5	4	4	5	4	5	3	4	180	4
6	Academic Facilities	5	4	5	3	4	5	5	3	4	4	5	5	4	5	4	4	5	5	2	4	165	4
7	Administrative facilities	5	5	5	3	3	4	4	3	3	4	5	5	4	5	4	5	4	5	4	4	171	4
8	Placement	5	5	5		3	5	4	4	4	4	5	5	4	4	4	4	3	5	3	2	146	3
9	Overall Impression	5	5	5	3	3	5	4	4	4	4	5	5	4	4	4	5	4	5	3	3	176	4
	Total	45	41	44	25	30	42	39	31	32	37	43	43	38	38	36	43	38	45	28	32		4
	Overall																						4

Prachi R Rajarapollu

TE Class Coordinator

| Sr No	Stake holders	Observations (suggestion given during meet)	Action
1.	Parents	1. Parents requested to inform them about their ward's activities more frequently	-Monthly attendance is been sent to all the parents. Parents are also informed about their wards results.
		2. Parents requested for frequently arranging such meets	-Parent meet is arranged twice in a year in every semester
		3. They requested for enhancing the sports and gym facilities in MIT AoE campus	-Basketball ground and separate playground has been constructed
		4. Request for water purification system in campus	-An Reverse osmosis plant is been installed in campus for drinking water purification

3 a) Employers feedback

MIT Academy of Engineering

Department of Computer Engineering

Training and Placement

Employer Feedback Analysis

Academic Year 2014-2015

SLNo	Point	Ratings				Average Rate out of 5	Overall Remark
		Excellent	Good	Average	Poor		
1	Technical						
a	Understanding Core Subjects and their Application	2	16	8	0	2.8	Average
b	Understanding new technologies	0	12	14	0	2.5	Average
2	Communication Skills						
a	Oral Communication Skill	2	13	10	1	2.7	Average
b	Written Communication Skill	1	11	10	3	2.3	Average
3	Discipline	2	23	1	0	3.1	Good
4	Overall Rating of Institute	4	20	1	0	3.2	Good
	Point	Yes		No			
5	Institute Needs some extra sessions on diversity, etiquettes and foreign language	15		7			Required

* Number of companies given feedback: 26

Points Rated   Excellent: 5   Good: 3   Averege: 2   Poor: 1
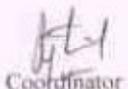
Coordinator
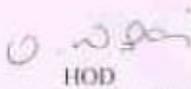
HOD
Dept. of Computer Enginnering

4 a) Students feedback

MIT Academy of Engineering, Alandi (D)
Department of Computer Engineering
2014-2015 Sem II Feedback Analysis
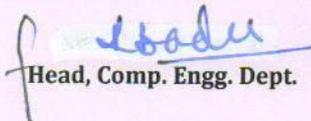
Summary Sheet

COURSE EVALUATION (Quantitative on a 10 point scale)

Course - SE - A (EM - III)   Instructor : Mr. Satish Gajbhiv
Total no. of student - 42

| Q. No	Responses					Score Obtained
	a	b	c	d	e	
1	30	9	3			0.59
2	34	5	3			0.63
3	30	10	1	1		0.82
4	25	7	5	3	2	1.16
5	26	8	3	3	2	0.88
6	27	4	5	3	2	0.20
7	30	10	2			0.53
8	30	10	2			0.63
9	27	5	4	3	2	0.41
10	30	11	1			0.94
11	32	10				0.38
12	29	5	4	2	2	0.41
13	24	17				0.35
Total						7.92

Head, Comp. Engg. Dept.

MIT Academy of Engineering, Alandi (D)
Department of Computer Engineering
2014-2015 Sem II Feedback Analysis
Summary Sheet

Course - SE- B (EM - III)
Total no. of student - 57

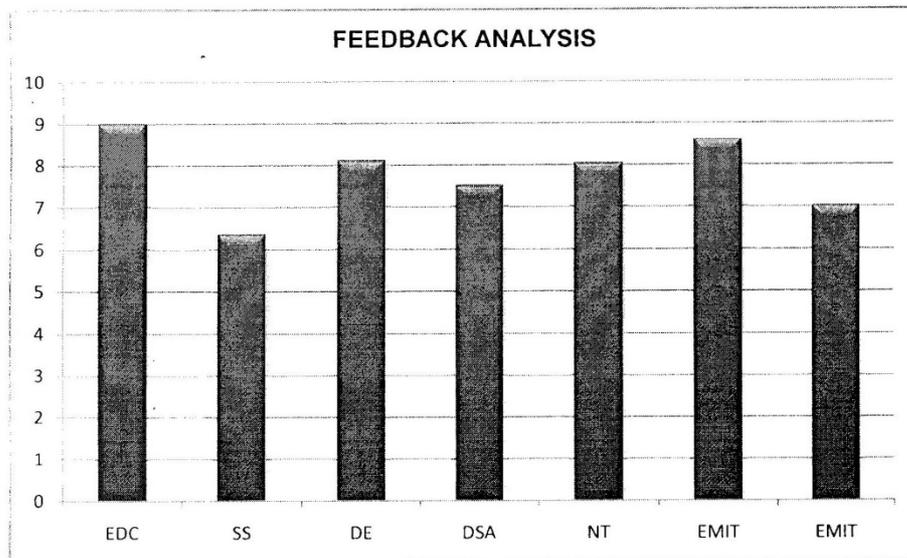Instructor : Mr. Satish Gajbhiv

Q. No	Responses					Score Obtained
	a	b	c	d	e	
1	50	11	4			0.61
2	28	5	2			0.63
3	53	8	2	2		0.84
4	37	15	7	4	2	1.18
5	50	8	2	3	1	0.98
6	43	12	5	3	2	0.18
7	40	20	5			0.49
8	45	10	5	5		0.58
9	40	15	5	3	2	0.42
10	40	20	5			0.86
11	50	15				0.38
12	35	15	6	7	2	0.36
13	35	30				0.32
Total						7.84
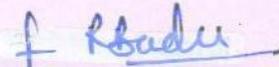
Head, Comp. Engg. Dept.

b)

MIT Academy of Engineering	CLASS FEEDBACK REPORT	
Alandi (D), Pune - 412105	ACADEMIC YEAR	2014 - 15
DEPARTMENT OF E&TC ENGG.	TERM	I ·
	CLASS	S. E. (E&TC) - A

Sr. No.	Course	Faculty	Score - 1	Score - 2	Average
1	EDC	Smita S. Pawar	9	9	9
2	SS	Vinayak B. Kulkarni	6.3	6.4	6.35
3	DE	Nutan V. Bansode	8	8.2	8.1
4	DSA	Rahul D. Bhivare	7.1	7.9	7.5
5	NT	Kaliprasad A. Mahapatro	8	8.1	8.05
6	EMIT	Prasheel V. Suryawanshi	8.7	8.5	8.6
7	EMIT	Amit V. Nagarale	6.8	7.2	7

FEEDBACK ANALYSIS

Prasheel V. Suryawanshi
22|9|14
Head of Department

			CLASS FEEDBACK REPORT		
MIT Academy of Engineering					
Alandi (D), Pune - 412105			ACADEMIC YEAR	2014 - 15	
DEPARTMENT OF E&TC ENGG.			TERM	I	
			CLASS	T. E. (E&TC)	

Sr. No.	Course	Faculty	Score - 1	Score - 2	Average
1	DC	Sukumar B. Chougule Prashant K. Aher	7.6	8.1	7.85
2	DSP	Prasheel V. Suryawanshi	9.1	9	9.05
3	MCA	Prachi R. Rajarapollu	8.6	8.5	8.55
4	ETL	Aniket D. Gundecha	6.1	7	6.55
5	SPOS	Bhairavi N. Savant	7.9	8.3	8.1
6	ESED	Vinayak B. Kulkarni	6	5.2	5.6

FEEDBACK ANALYSIS

Prasheel V. Suryawanshi

22|9|14

Head of Department

MIT	Academy of Engineering	CLASS FEEDBACK REPORT	
Alandi (D), Pune - 412105		ACADEMIC YEAR	2014 - 15
DEPARTMENT OF E&TC ENGG.		TERM	II
		CLASS	T. E. (E&TC)

Sr. No.	Course	Faculty	Score - 1	Score - 2	Average
1	ITCT	Nutan V. Bansode	7.7	---	7.7
2	AWP	Aniket D. Gundecha	7.6	---	7.6
3	EP	Bhairavi N. Savant	9	---	9
4	IM	Prachi R. Rajarapollu	8.4	---	8.4
5	PE	Sandip S. Lokhande	8.4	---	8.4
6	PE (Pr)	Kaliprasad A. Mahapatro	7.1	---	7.1
7	MPS	Vinayak B. Kulkarni	5.9	---	5.9
8	MPS	Prashant K. Aher	7.5	---	7.5
9	MPS	Amit V. Nagarale	8.4	---	8.4
10	MPS	Prachi R. Rajarapollu	8.4	---	8.4

FEEDBACK ANALYSIS
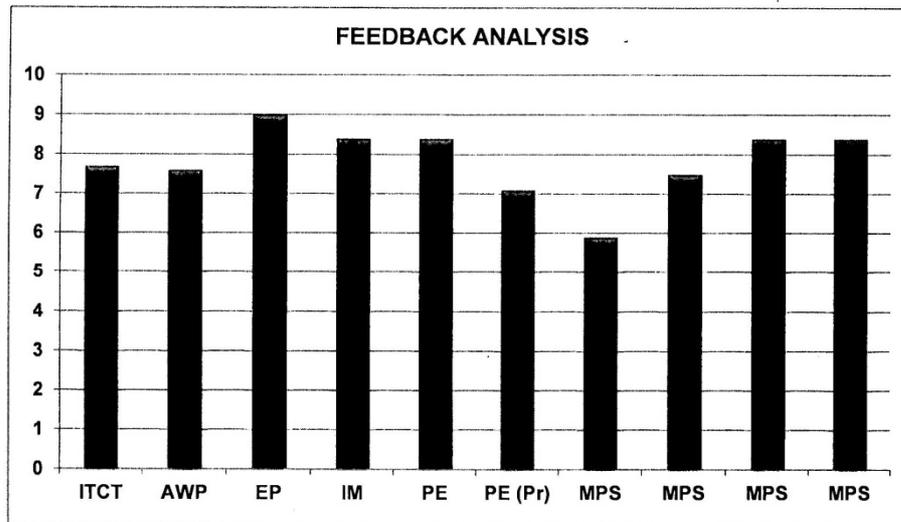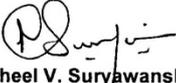
Prasheel V. Suryawanshi

Head of Department

AQAR MITAOE, Pune 2014-15   Page 44
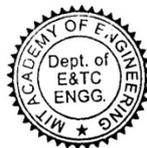
Sr No	Stake holders	Observations (suggestion given during meet)	Action
3.	Students	1. Sports facilities ie basketball ground should be provided 2. Drinking water purification plant should be installed 3. Proper cleaning of washroom	-Separate basketball ground made available. - RO plant

****