

# **ANNUAL QUALITY ASSURANCE REPORT (AQAR) 2017-18**

**Submitted to**

**NATIONAL ASSESSMENT AND ACCREDITATION COUNCIL  
(NAAC)  
Bangalore, India**



**GHARDA FOUNDATION'S  
GHARDA INSTITUTE OF TECHNOLOGY, LAVEL**



# Annual Quality Assurance Report (AQAR) of the IQAC

## Part – A

### I. Details of the Institution

1.1 Name of the Institution

**Gharda Foundation's Gharda Institute of Technology**

1.2 Address Line 1

**At & Post Level**

Address Line 2

**Taluka: Khed**

City/Town

**District: Ratnagiri**

State

**Maharashtra**

Pin Code

**415708**

Institution e-mail address

**principal@git-india.edu.in**

Contact Nos.

**(02356) 262795/99**

Name of the Head of the Institution:

**Dr. P. S. Joshi**

Tel. No. with STD Code:

**(02356) 262795/99**

Mobile:

**09158779250**

Name of the IQAC Co-ordinator:

**Prof. S. R. Khedekar**

Mobile:

09403573999

IQAC e-mail address:

srkhedekar@git-india.edu.in

1.3 NAAC Track ID

MHCOGN 26633

1.4 NAAC Executive Committee No. & Date:

EC(SC)/24/A&A/15.1 dated May 02, 2017

1.5 Website address:

http://www.git-india.edu.in

Web-link of the AQAR:

http://git-india.edu.in/iqac/aqar.pdf

1.6 Accreditation Details

Sl. No.	Cycle	Grade	CGPA	Year of Accreditation	Validity Period
1	1 <sup>st</sup> Cycle	B+	2.61	2017	05 Yrs.

1.7 Date of Establishment of IQAC:

02/07/2014

1.8 AQAR for the year

2017-18

1.9 Details of the previous year's AQAR submitted to NAAC after the latest Assessment and Accreditation by NAAC

**Not Applicable**

1.10 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

(E.g. 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

#### 1.11 Type of Faculty/Programme

Arts  Science  Commerce  Law  PEI (Phys Edu)

TEI (Edu)  Engineering  Health Science  Management

Others (Specify)

NA

#### 1.12 Name of the Affiliating University (*for the Colleges*)

**Mumbai University**  
**(University of Mumbai)**

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

**No special status.**

Autonomy by State/Central Govt. / University

University with Potential for Excellence  UGC-CPE

DST Star Scheme  UGC-CE

UGC-Special Assistance Programme

DST-FIST

UGC-Innovative PG programmes

Any other (*Specify*)

UGC-COP Programmes

## **2. IQAC Composition and Activities**

2.1 No. of Teachers

**05**

2.2 No. of Administrative/Technical staff

**09**

2.3 No. of students

**02**

2.4 No. of Management representatives

**01**

2.5 No. of Alumni

**01**

2.6 No. of any other stakeholder and

**01**

Community representatives

2.7 No. of Employers/ Industrialists

**01**

2.8 No. of other External Experts

**01**

2.9 Total No. of members

**21**

2.10 No. of IQAC meetings held

**FOUR**

2.11 No. of meetings with various stakeholders:

No.

**05**

Faculty

**02**

Non-Teaching Staff Students

**02**

Alumni

**01**

Others

--

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. **08**

International

--

National

--

State

**07**

Institution Level

**01**

***Please see Annexure- V.***

(ii) Themes

**Multiskilling is the key to success**

#### 2.14 Significant Activities and contributions made by IQAC

- As per IQAC recommendations new recruitments of faculty with Ph.D. qualification done.
- The institute participated in UMA projects in “Jalyukta Shivar and Rural water supply schemes of Govt of Maharashtra.
- The data about testing carried out by various dept. was reviewed by IQAC. It recommended that in order to improve consultancy component it was suggested that each department should collate consultancy capability of their department. This should be given wide publicity through following means:
  - It should be published on website
  - Special brochure about Testing and Consultancy facility should be made and should be circulated to be the industries.

The above recommendations were implemented.

During the NAAC peer committee visit, it was suggested that the facilities provided to differently-abled students should be improved by –

-Number of ramps provided should increase.

-At least one wash-room, one each for boys & girls, should be made amenable to them.

The above recommendation of peer team was implemented.

- Up-gradation of Qualification: Issue of qualification up gradation of teachers was discussed in detail Accordingly, management has taken decision which saw significant number of faculty registering for PH. D in the academic year 2017-18
- Faculty Development program: It was decided that each department will conduct at least one Faculty Development Program for faculty, two workshops and three seminars in each semester. Also committee recommended that each department should conduct at least one workshop exclusively for students in each year. The list of tentative workshops/seminars/FDP/STTP proposed by heads of department was discussed.
- Committee suggested that College should establish Industry-Institute Partnership Cell. The said cell is now established. This has improved industry interaction.

#### 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
<b>Value Added Programmes-04</b>	<b>Value Added Programmes-04</b>
<b>Skill Oriented Programmes -02</b>	<b>Skill Oriented Programmes -02</b>
<b>Staff Development Programme -01</b>	<b>Staff Development Programme -01</b>

*\* Please see Annexure- I & V.*

2.15 Whether the AQAR was placed in statutory body Yes  No

Management  Syndicate  Any other body

Provide the details of the action taken

Following actions resulted due to recommendation and follow-up by IQAC

1. One Professor with Ph.D. and three Associate Professors with Ph.D. were recruited in 2017-18.
2. Two Faculty Members were given special concessions and encouragement in order to complete Ph. D work and they were awarded Ph.D. in 2017-18. Five more Faculty Members are expected to receive Ph.D. degrees in 2<sup>nd</sup> half of 2018 due to special concessions and encouragement given.
3. One workshop on .net was conducted for 15 days for 20 Computer Engg. Students in June 2018 by ATS Infotech Ltd., Pune.
4. Two 1-week AICTE-ISTE sponsored FDPs, three seminars were organized for Faculty & Students Development.
5. GIT faculty members and students were whole-heartedly involved in Unnat Maharashtra Abhiyan (UMA) Projects. RWSS Project named Assessment of Dalvatane Water Supply Scheme completed and presented by faculty members and students on 15-16 Jan18 at AVCOE, Sangamner. In total 12 projects under UMA are in progress in GIT.
6. All faculty & 50 % of the current students was imparted training for Communication Skill Development during the academic year.
7. MOOC courses: In the academic year 2017-18, the participation in MOOC courses increased and 42 acquired certificates and GIT received 3 gold certificate and 5 elite certifications.. Institute ranking now is 198 in all India level.

## Part – B

### Criterion – I

#### I. 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	--	--	--	--
PG	--	--	--	--
UG	<b>05</b>	--	<b>05</b>	--
PG Diploma	--	--	--	--
Advanced Diploma	--	--	--	--
Diploma	--	--	--	--
Certificate	--	--	--	--
Others	--	--	--	--
<b>Total</b>	<b>05</b>	--	<b>05</b>	--

Interdisciplinary	--	--	--	--
Innovative	--	--	--	--

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

###### CHBS

##### (ii) Pattern of programmes:

Pattern	Number of programmes
Semester	<b>05</b>

##### 1.3 Feedback from stakeholders\* (On all aspects)

Alumni	<input checked="" type="checkbox"/>	Parents	<input checked="" type="checkbox"/>	Employers	<input checked="" type="checkbox"/>	Students	<input checked="" type="checkbox"/>
Mode of feedback :	Online	<input checked="" type="checkbox"/>	Manual	<input checked="" type="checkbox"/>	Co-operating schools (for PEI)	<input type="checkbox"/>	

*\*Please see Annexure-I for sample copy of student feedback analysis.*

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

###### **Salient features:**

1) To meet the challenge of ensuring excellence in engineering education, the issue of quality needs to be addressed. Accreditation is the principal means of quality assurance in higher education. The major emphasis of accreditation process is to measure the outcomes of the program that is being accredited. In



line with this University of Mumbai has taken a lead in incorporating philosophy of outcome based education in the process of curriculum development.

2) In addition to outcome based education, **Choice Based Credit and Grading System** is also introduced to ensure quality of engineering education. It focuses on continuous evaluation which will enhance the quality of education. A transparent credit assignment policy is adapted to ten points scale to grade learner's performance. Credit grading based system was implemented for First Year of Engineering from the academic year 2016-2017. Subsequently this system was carried forward for Second Year Engineering in the academic year 2017-2018. For Third Year implantation year is the current year i.e 2018-19. For Final Year Engineering the implementation year will be 2019-2020.

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

<b>No</b>
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## Criterion – II

### 2. Teaching, Learning and Evaluation

2.1 Total No. of permanent faculty

Total	Asst. Professors	Associate Professors	Professors	Others – Principal
<b>51</b>	<b>48</b>	<b>02</b>	<b>00</b>	<b>01</b>

2.2 No. of permanent faculty with Ph.D.

<b>05</b>
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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
<b>02</b>	<b>00</b>	<b>01</b>	<b>09</b>	<b>01</b>	<b>05</b>	<b>00</b>	<b>00</b>	<b>04</b>	<b>14</b>

2.4 No. of Guest and Visiting faculty and Temporary faculty

--	--	<b>Temporary faculty =17</b>
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2.5 Faculty participation in conferences and symposia:

No. of Faculty	International level	National level	State level
Attended	<b>01</b>	<b>01</b>	<b>01</b>
Presented papers	<b>02</b>	<b>02</b>	--
Resource Persons	-	--	--

*\*Please see Annexure-III*

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

- 1) The faculty use audio visual aids like power point presentations, models etc. in teaching.
- 2) Further, debates, group discussions and public speeches are arranged to enhance their interactive learning, collaborative learning and independent learning skills.
- 3) As a part of curriculum, final year students in a group of four or five carry out one full year project to provide the solution to a given engineering problem by applying the knowledge gained in three years of graduation studies. A preliminary survey of literature is carried out to define the problem.

4) Extra coaching is provided to five weak and five good students in a class. This process helps to increase the result of students.

5) Our college is a centre of NPTEL local Chapter. A separate server is provided for offline access of NPTEL videos of sized nearly 8TB to students and faculties.

6) The college has six digital classrooms and six seminar halls (with projector audio, video system, white board)

7) A-View software, provided by IIT, Bombay is application software which provides way to communicate with students. The three way communication is possible due to A-View software.

8) Technical Societies and Student chapters of National/International Associations are active and students are encouraged to present technical papers at National/ International Conferences. Peer interaction is done through inter collegiate student technical symposia which are arranged and conducted by students and funded by the College. During the period of stay, many Industrial visits are arranged to the nearby industries every year by each department. Through these the students visit many industries across the country.

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

169
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2.8 Examination/ Evaluation Reforms initiated by the Institution  
(for example: Open Book Examination, Bar Coding, Double Valuation, Photocopy, Online Multiple Choice Questions)

- |  |
|--|
| <ul style="list-style-type: none"><li>• <b>Masking and coding, of college level examination</b></li><li>• <b>Scrutiny of answer sheets,</b></li><li>• <b>Double valuation</b></li><li>• <b>Photocopy</b></li></ul> |
|--|

2.9 No. of faculty members involved in curriculum restructuring/revision/syllabus development

04
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05
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01
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*\*Please see Annexure-IV*

2.10 Average percentage of attendance of students

78%

2.11 Course/Programme wise distribution of pass percentage:

Title of the Programme	Total no. of students appeared	Division			Pass %
		Distinction %	I %	Pass %	
<b>B.E. Chemical</b>	<b>66</b>	<b>27.27</b>	<b>39.39</b>	<b>24.24</b>	<b>90.9</b>
<b>B.E. Civil</b>	<b>85</b>	<b>8.23</b>	<b>36.47</b>	<b>40</b>	<b>84.7</b>
<b>B.E. Computer</b>	<b>31</b>	<b>3.22</b>	<b>41.93</b>	<b>45.16</b>	<b>90.31</b>
<b>B.E. EXTC</b>	<b>45</b>	<b>8.90</b>	<b>24.44</b>	<b>42.22</b>	<b>75.56</b>
<b>B.E. Mechanical</b>	<b>89</b>	<b>13.48</b>	<b>35.95</b>	<b>25.84</b>	<b>75.27</b>

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

- 1) Academic monitoring committee takes weekly review of teaching and suggest the policies to be adopted for smooth conduction of teaching learning process. These reports are discussed in IQAC.
- 2) Feedback of students and other stake holders are taken on regular basis.
- 3) Students are encouraged to take Industry sponsored projects or research projects. Concerned faculties ensure to complete those within time and students will get enough exposure to industry and state of the art technology.
- 4) Recommendations for improvement of Resources, Infrastructure and any other point related to quality are discussed and reviewed during IQAC meeting.
- 5) Faculty members are encouraged for research. Various workshops, seminars are conducted for students and staff.
- 6) IQAC conducts regular meetings of IQAC committee and takes reviews of teaching learning processes.
- 7) Assessment of teaching learning method is done and presented to IQAC in the form of statistical analysis.

2.13 Initiatives undertaken towards faculty development

<i>Faculty / Staff Development Programmes</i>	<i>Number of faculty benefitted</i>
Refresher courses	<b>02</b>
UGC – Faculty Improvement Programme	<b>01</b>
HRD programmes	<b>30</b>

Orientation programmes	<b>10</b>
Faculty exchange programme	<b>00</b>
Staff training conducted by the university	<b>01</b>
Staff training conducted by other institutions	<b>13</b>
Summer / Winter schools, Workshops, etc.	<b>67</b>
Others	<b>10</b>

*\*Please see Annexure-V*

#### 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	<b>18</b>	-	-	<b>01</b>
Technical Staff	<b>21</b>	-	-	<b>02</b>

## Criterion – III

### 3. Research, Consultancy and Extension

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

- 1) Financial assistance to attend conferences, STTP, Workshops, and Seminar
- 2) Guidance for research proposal preparation and submission to get research grant.
- 3) Participation in Unnat Bharat and Unnat Maharashtra Abhiyan.

3.2 Details regarding major projects

	Completed	Ongoing	Sanctioned	Submitted
Number	--	---	--	<b>02</b>
Outlay in Rs. Lakhs	--	--	--	<b>37.50 Lakh</b>

3.3 Details regarding minor projects

	Completed	Ongoing	Sanctioned	Submitted
Number	<b>01</b>	<b>04</b>	--	--
Outlay in Rs. Lakhs	<b>0.55 Lakh</b>	<b>1.15 Lakh</b>	--	--

*\*Please see Annexure-VI*

3.4 Details on research publications

	International	National	Others
Peer Review Journals	<b>10</b>	--	--
Non-Peer Review Journals	<b>06</b>	--	--
e-Journals	<b>05</b>	--	--
Conference proceedings	<b>01</b>	--	--

*\*Please see Annexure-VII*

3.5 Details on Impact factor of publications:

Range **0.2 - 6.17** Average **2.68** h-index  Nos. in SCOPUS **06**

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	--	--	--	--

Minor Projects	<b>01</b>	<b>Mumbai University</b>	<b>1.2 Lakh</b>	<b>1.2 Lakh</b>
Interdisciplinary Projects	--	--	--	--
Industry sponsored	--	--	--	--
Projects sponsored by the University/ College	<b>01</b>	<b>IITB-CTARA</b>	<b>0.08 Lakhs</b>	<b>0.08 Lakhs</b>
Students research projects (other than compulsory by the University)	--	--	--	--
Any other(Specify)	--	--	--	--
<b>Total</b>	<b>01</b>	<b>--</b>	<b>1.28 Lakh</b>	<b>1.28 Lakh</b>

***\*Please see Annexure-VIII***

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

ii) Without ISBN No.

3.8 No. of University Departments receiving funds from

UGC-SAP  CAS  DST-FIST   
DPE  DBT Scheme/funds

3.9 For colleges Autonomy  CPE  DBT Star Scheme   
INSPIRE  CE  Any Other (specify)

3.10 Revenue generated through consultancy

3.11 No. of conferences organized by the Institution:

Level	International	National	State	University	College
Number	--	--	<b>02</b>	--	<b>01</b>
Sponsoring agencies	--	--	<b>1-NPTEL, IITB &amp; MHRD</b> <b>1-Self Finance</b>	--	<b>Self Finance</b>

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

*\*Please see Annexure - IX*

3.13 No. of collaborations  International  National  Any other

*\*Please see Annexure - X*

3.14 No. of linkages created during this year

3.15 Total budget for research for current year in lakhs:

From funding agency  From Management of University/College   
Total

3.16 No. of patents received this year

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

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
01	<b>DST Travel Grant = 2.5 Lakh</b>	--	--	--	--	--

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

1) No. of faculty from the Institution who are Ph. D. Guides

2) Students registered under them

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



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

JRF  SRF  Project Fellows  Any other

3.21 No. of students Participated in NSS events:

University level  State level   
National level  International level

3.22 No. of students participated in NCC events: Nil

University level  State level   
National level  International level

3.23 No. of Awards won in NSS:

University level  State level   
National level  International level

3.24 No. of Awards won in NCC: Nil

University level  State level   
National level  International level

3.25 No. of Extension activities organized

University forum  College forum   
NCC  NSS  Any other

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

- 1) Blood donation camp 22/9/2017
- 2) Cleanliness Rally 17/08/2017
- 3) Tree Plantation 02/07/2017
- 4) Book donation to schools
- 5) Cleanliness and grass cutting of Village Level
- 6) Local dam or bandhara construction for Boraj Village
- 7) Library reading room made available for students from adjoining villages.
- 8) Organisation of school science exhibition of adjoining schools.
- 9) Career guidance programs for two districts Junior college students. Total of such 39 programs were organised in the academic year 2017-18.

## 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	<b>23.12</b> Acres Built-up area: <b>32555</b> Sq. m.	--	College budget	<b>23.12</b> Acres Built-up area: <b>32555</b> Sq. m.
Class rooms	<b>23</b>	--	College budget	<b>23</b>
Laboratories	<b>45</b>	<b>01</b>	Cypress Semi conductor Lab	<b>46</b>
Seminar Halls	<b>07</b>	--	College budget	<b>07</b>
No. of important equipments purchased ( $\geq$ 1-0 Lakh) during the current year.	<b>102</b>	<b>02</b>	College budget	<b>104</b>
Value of the equipment purchased during the year (Rs. in Lakhs)	<b>254.291</b>	<b>7.528</b>	College budget	<b>261.819</b>
Others	--	--	--	--

#### 4.2 Computerization of administration and library

**Library and administration is computerised. Library has SLIM-21 software. Issue and collection is done through that software.**

#### 4.3 Library services:

	Existing		Newly added		Total	
	No.	Value (Rs)	No.	Value (Rs)	No.	Value (Rs)
Text Books	<b>15691</b>	<b>5853041</b>	<b>884</b>	<b>326439</b>	<b>16575</b>	<b>6179480</b>
Reference Books	<b>3276</b>	<b>936020</b>	<b>228</b>	<b>96835</b>	<b>3504</b>	<b>1032855</b>
e-Books	<b>---</b>	<b>---</b>	<b>4850</b>	<b>35400</b>	<b>4850</b>	<b>35400</b>

Journals	45	84060	75	118379	120	202439
e-Journals	--	--	2400	35400	2400	35400
Science Direct	275	556756	275	672319	275	672319
IEEE	169	441207	169	532818	169	532818
Digital Database	---	---	---	684220	---	684220
CD & Video	---	---	---	---	1200	120000
Others (specify)	---	---	---	---	---	---

#### 4.4 Technology up gradation (overall)

	Total Computers	Computer Labs	Internet	Browsing Centres	Computer Centres	Office	Departments	Others
Existing	440	220	40	03	45	35	72	25
Added	50	01	46	01	--	07*	--	02
Total	490	221	86	04	45	35	72	27

\* Computers replaced with new one

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

The college has 490 Desktop computers. All Desktop computers are connected to LAN. In addition to this college has 131 thin client computers. Internet access is available to all faculties and student through LAN and through wifi. The institute is working as remote centre to IIT Bombay for advancement of teachers as per the training schedule. Class rooms have been upgraded to smart classrooms which include audio video system, projector and smart board. The Internet bandwidth is upgraded from 34 to 80 Mbps. The wifi facility is provided to students in their hostel and in academic campus too. Many students and teachers are enrolled for NPTEL Courses for knowledge up gradation.

#### 4.6 Amount spent on maintenance in lakhs:

i) ICT	2.88
ii) Campus Infrastructure and facilities	18.59
iii) Equipments	1.03
iv) Others	14.10
<b>Total:</b>	<b>36.60</b>

## Criterion – V

### 5. Student Support and Progression

#### 5.1 Contribution of IQAC in enhancing awareness about Student Support Services

As discussed in IQAC, awareness enhancement activities were carried out using following methodologies:

- Visit of IQAC members with student groups
- Improvement in website and creation of special tabs wherever required in website
- Creation of online grievance system
- Change in library timings
- Monitoring the utilisation of Student Support Services through snap polls and surveys

#### Existing support services:

- Parent teacher and class teacher activity.
- Provision of Gym
- Health centre facility
- Grievance redressal committee
- Hostel facility for both boys and girls
- Canteen facility for both boys and girls
- Library Facility
- Training and Placement Centre.
- Programmes under different clubs (Nature Club, English Club etc.)
- Scholarship facility
- Common research Centre.
- Coaching for competitive exams
- Sport Facility

#### 5.2. Efforts made by the institution for tracking the progression

- 1) All student support systems are in digital format and are tracked regularly by monthly reports. Statistical correlation is established annually about the effectiveness of the student support systems provided by the institute.
- 2) Exam evaluation of the students is done by institute on a regular basis and necessary measures are taken to improve the results of the students. Statistical data was collected through snap polls and surveys.
- 3) Mentor-mentee system is effectively used for improvement in the support systems provided by the institution.

5.3 (a) Total Number of students

UG	PG	Ph. D.	Others
<b>1044</b>	--	--	--

(b) No. of students outside the state

<b>23</b>
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(c) No. of international students

<b>00</b>
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Men	No	%	Women	No	%
	<b>835</b>	<b>80</b>		<b>209</b>	<b>20</b>

Last Year						This Year					
General	SC	ST	OBC	Physically Challenged	Total	General	SC	ST	OBC	Physically Challenged	Total
<b>555</b>	<b>114</b>	<b>9</b>	<b>482</b>	<b>1</b>	<b>1161</b>	<b>475</b>	<b>104</b>	<b>7</b>	<b>458</b>	<b>0</b>	<b>1044</b>

Demand ratio: **1:1**      Dropout %: **1**

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

Study material related to GATE and other competitive exam is available in the college central library. College organises guest (Lecture/Test) session for competitive examinations and civil services. Classes are organized for improving proficiency in English for vernacular medium students. Lecture on “Introduction to GATE-2018” for Final year students was arranged.

No. of students beneficiaries

<b>198</b>
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5.5 No. of students qualified in these examinations

NET	<table border="1"><tr><td>--</td></tr></table>	--	ET/SLET	<table border="1"><tr><td>--</td></tr></table>	--	GATE	<table border="1"><tr><td><b>02</b></td></tr></table>	<b>02</b>	CAT	<table border="1"><tr><td>--</td></tr></table>	--
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<b>02</b>											
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IAS/IPS etc	<table border="1"><tr><td>--</td></tr></table>	--	State PSC	<table border="1"><tr><td>--</td></tr></table>	--	UPSC	<table border="1"><tr><td>--</td></tr></table>	--	Others	<table border="1"><tr><td>--</td></tr></table>	--
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5.6 Details of student counselling and career guidance

Following programs were organized.

1. Awareness session about Training and placement activity - All Branches
2. Training session for Pre-SSB Interview of Indian Navy - All branches
3. Training session for Aptitude, GD and Mock interview - All Branches

4. 1 day motivational session sponsored by Barclays - All Branches

5. Session on GATE preparation and opportunities after GATE - All branches

No. of students benefitted

#### 5.7 Details of campus placement

<i>On campus</i>			<i>Off Campus</i>
Number of Organizations Visited	Number of Students Participated	Number of Students Placed	Number of Students Placed
<b>28</b>	<b>305</b>	<b>178</b>	<b>32</b>

#### 5.8 Details of gender sensitization programmes

1) Seminar on “Haemoglobin deficiency and general health care”: Sept 27, 2017

2) Seminar on "Funding Proposal Opportunities for Women": Jan 18, 2018

3) A special program to commemorate the 23<sup>rd</sup> International Women’s Day with the theme “Press for Progress” to achieve the mission women empowerment: March 8, 2018

4) A competition on “Women Start-up Ideas”: March 8, 2018

#### 5.9 Students Activities

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

State/ University level  National level  International level

No. of students participated in cultural events

State/ University level  National level  International level

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

Sports: State/ University level  National level  International level

Cultural: State/ University level  National level  International level

### 5.10 Scholarships and Financial Support

	Number of students	Amount (Rs)
Financial support from institution	<b>123</b>	<b>609700/-</b>
Financial support from government	<b>744</b>	<b>34145923/-</b>
Financial support from other sources	<b>01</b>	<b>25000/-</b>
Number of students who received International/ National recognitions	<b>00</b>	<b>00</b>

### 5.11 Student organised / initiatives

Fairs : State/ University level  National level  International level   
 Exhibition: State/ University level  National level  International level

5.12 No. of social initiatives undertaken by the students

5.13 Major grievances of students (if any) redressed: **YES, redressed.**

## Criterion – VI

### **6. Governance, Leadership and Management**

6.1 State the Vision and Mission of the institution

**Vision of Institute:**

To play a distinct role in transforming individuals into engineering professionals for betterment of society

**Mission of Institute:**

- Impart knowledge through relevant curricula
- Develop skills to apply knowledge to profession
- Create awareness and understanding of continuous learning

6.2 Does the Institution have a management Information System:

**Yes. The Institution has a management Information System.**

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

6.3.1 Curriculum Development

- Curriculum is defined by University of Mumbai
- Extra sessions to cover gaps in curriculum
- Add-on courses by subject and industry experts
- Workshops/seminars in allied subjects
- NPTEL courses
- In-plant/Industrial Training
- Industrial Visits
- Industry projects

6.3.2 Teaching and Learning

- Academic Audit after every semester
- Extra remedial lectures and lab sessions
- Training to use E-LRC and its updation
- Encourage to participate in NPTEL, MOOC courses
- Frequent revision on difficult topics
- Adoption of academically Weak and poor students
- Practice tests with regular frequency



### 6.3.3 Examination and Evaluation

Examinations are conducted as per rule and regulations of Mumbai University. Evaluation of Internal Marks is done based on Continuous assessment of students' performance through tests, assignments, seminars and projects.

### 6.3.4 Research and Development

- Minor research proposals
- Major research proposals
- Research publications
- Faculty research committee
- Student research committee
- Financial aid for consumables
- Financial aid for equipments
- Participation of students in innovation/project competitions
- Deputation of faculty for Doctoral programs
- Deputation of faculty for FDP/STTP
- Travel grant
- Financial aid to attend International conferences

### 6.3.5 Library, ICT and physical infrastructure / instrumentation

Library committee has representative members from each dept. The committee ensures requirement of books, journals including online subscriptions are fulfilled in time. Library and administration of library are computerized. Library has SLIM-21 software and Issue and Collection is done through that system. Online subscription is provided for E Journals. The college has E- learning system which provides study material like video, e-books and notes to the students. The college has digital library in addition to digital class rooms and laboratories with equipments. Reading time beyond college hours in library promotes reading culture of text & reference books.

### 6.3.6 Human Resource Management

There is a well established HR committee which manages Human Resource of college, such as recruitment, development, appointments, promotions, training, assessment of faculty and staff. Service rules are made transparent and all other benefits are given as per the given norms regularly. As per the AICTE norms, faculty requirement is forwarded to Recruitment committee consisting of Principal, HOD, senior faculty and External subject expertise for further action.

### 6.3.7 Faculty and Staff recruitment

- Based on the vacancy in all departments for all positions, the advertisement is published in the Leading daily newspapers.
- The recruitment committee comprises Principal, HOD's and senior faculties will conduct the interview, select the candidates and further approval is based on qualification, experience and performance.

#### 6.3.8 Industry Interaction / Collaboration

Training and Placement Cell & All Heads of department have taken efforts to have strong interaction with industries. The collaboration is done with 5 industries. Due to this many students are benefited to get industry sponsored projects, summer training/Internships.

Following workshops are conducted in various departments.

- Industry Institute Interaction Program
- Advanced concrete mixing workshop – benefitted for Local Builders & Contractors
- STAAD-Pro
- 3D Max software
- Total Station

In addition to workshops, industrial visits are also organized.

#### 6.3.9 Admission of Students Branding Committee

Admissions are executed by the Govt. of Maharashtra, Directorate of Technical Education through online centralized admission process on the basis of student's merit. For college level admissions applications are invited through advertisements in newspapers. Admissions are conducted according to merit.

#### 6.4 Welfare schemes for

Teaching	EPF, Gratuity, Group Insurance, Mediclaim policy
Non teaching	EPF, Gratuity, Group Insurance, Mediclaim policy
Students	College Financial aid to needy students, Group Insurance, Government scholarships, GIT Merit Scholarship, Late Dr. Ramanathan Endowment Scholarship, Late Smt. Vasanti Vasant Nimkar Scholarship

#### 6.5 Total corpus fund generated: **Nil**

6.6 Whether annual financial audit has been done    Yes  No

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

Audit Type	External		Internal	
	Yes/No	Agency	Yes/No	Authority
Academic	<b>No</b>	<b>--</b>	<b>Yes</b>	<b>Audit Committee</b>
Administrative	<b>Yes</b>	<b>External Auditor</b>	<b>No</b>	<b>--</b>

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

For UG Programmes      Yes       No

For PG Programmes      Yes       No

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

**University of Mumbai has introduced Choice based grading system.**

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

**Not Applicable**

6.11 Activities and support from the Alumni Association

Following Alumni activities are conducted in academic year 2017-18

- The alumni meet and convocation ceremony was organized by Alumni association.
- Department of EXTC engineering organized seminar on “Big data and Linux” from 23/03/2018 to 24/03/2018 for TE and BE students of Computer and EXTC Department. Seminar Delivered by Alumni Mr. Amit Koli.
- Department of Mechanical Engineering organized Expert lecture on “Awareness about opportunities in Indian Army” on date 29/09/2018 for BE Mechanical Students. The lecture was delivered by Mr. Rahil Palekar who working as Junior Engineer in Goa Shipyard Ltd.
- Department of Chemical Engineering arranged a talk on “How to prepare for campus interviews” on 19/07/2017 for BE Students. The talk was given by Mr. Mitesh Bhanushali (college Alumni).

#### 6.12 Activities and support from the Parent – Teacher Association

There are activities organised by the college wherein parents are encouraged to attend. In the beginning of the academic year it is mandatory that parents of first year students attend an Orientation on academic programme and student support services offered on campus. Departments organise meetings ones in a semester with parents whose children need further support and counselling services to enhance performance. Institute also invites the parents on various occasions like college annual function, Tech-Fest. etc.

#### 6.13 Development programmes for support staff

- Workshops were arranged on “Total station” and “Viscosity”
- “Know your Labs” program was organized in each department.

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

- Energy Conservation
- Rain Water Harvesting
- Awareness of Carbon Neutrality
- Tree Plantation
- Waste Management (E-waste & solid waste)
- Bio-Fertilizer
- Bio-Gas
- Bio-Filter

The college undertakes various activities through N.S.S. like beautification, water and power management. The biodegradable waste, segregated by the college, was utilized for composting. To create eco-friendly awareness among the students, college arranges special programmers by inviting the experts, who train and educate the public. Students are encouraged to participate in eco-friendly activities.

## 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.

- Mentorship Programme: All the students are mentored by the respective faculty members regularly.
- Students' difficulty solving session during University Theory Examination: Students academic difficulties are solved by the respective subject teachers one day before the Theory examination in respective subject in the library.

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

- Motivation for innovation through Mentorship programme.
- Conduction of National level Technical festival in odd semester.
- Institute level funding to selected Student projects.
- Encouraged faculty members to participate in various Quality Improvement Programs.
- Motivated students to participate in different meritorious and innovation-based scholarship programs, project competitions.
- MoUs between industries and other organizations
- MANTHAN (Debate and Elocution Competitions) conducted
- First phase of up-gradation of Computer labs completed

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

**1. Title of the practice:** Area adoption program (AAP)

**2. Goals:**

1. To provide facility for launching civil and computer related complaints.
2. To coordinate computer and civil maintenance work in a centralized manner

**3. Context:**

Following challenging issues were addressed in designing and implementing the practice.

- List of complaints was prepared.
- Earlier, all the complaints were under one head i.e. civil. Due to increase in number of complaints, it was difficult to sort the complaints department wise. Then, different heads were formed for computer related complaints.

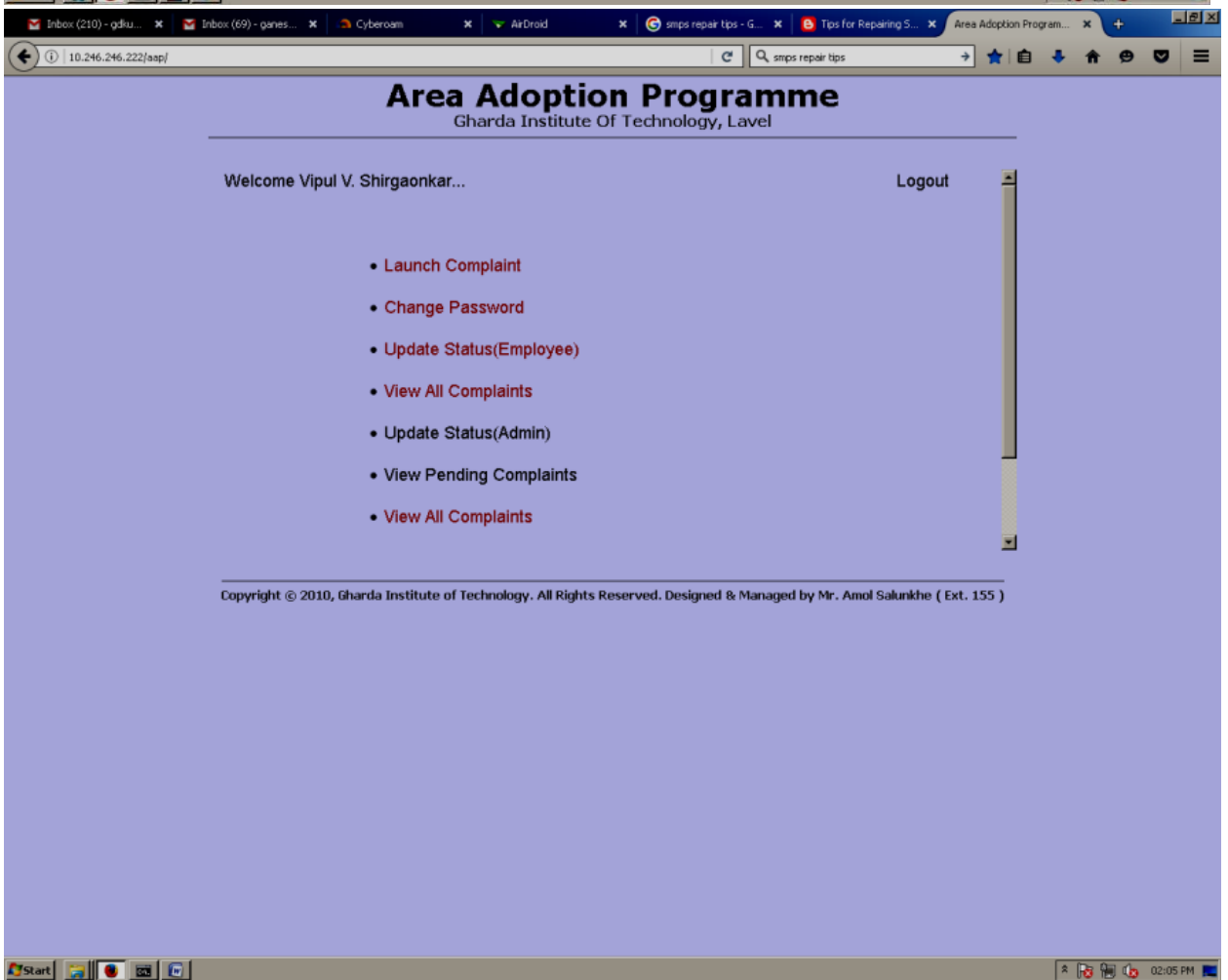
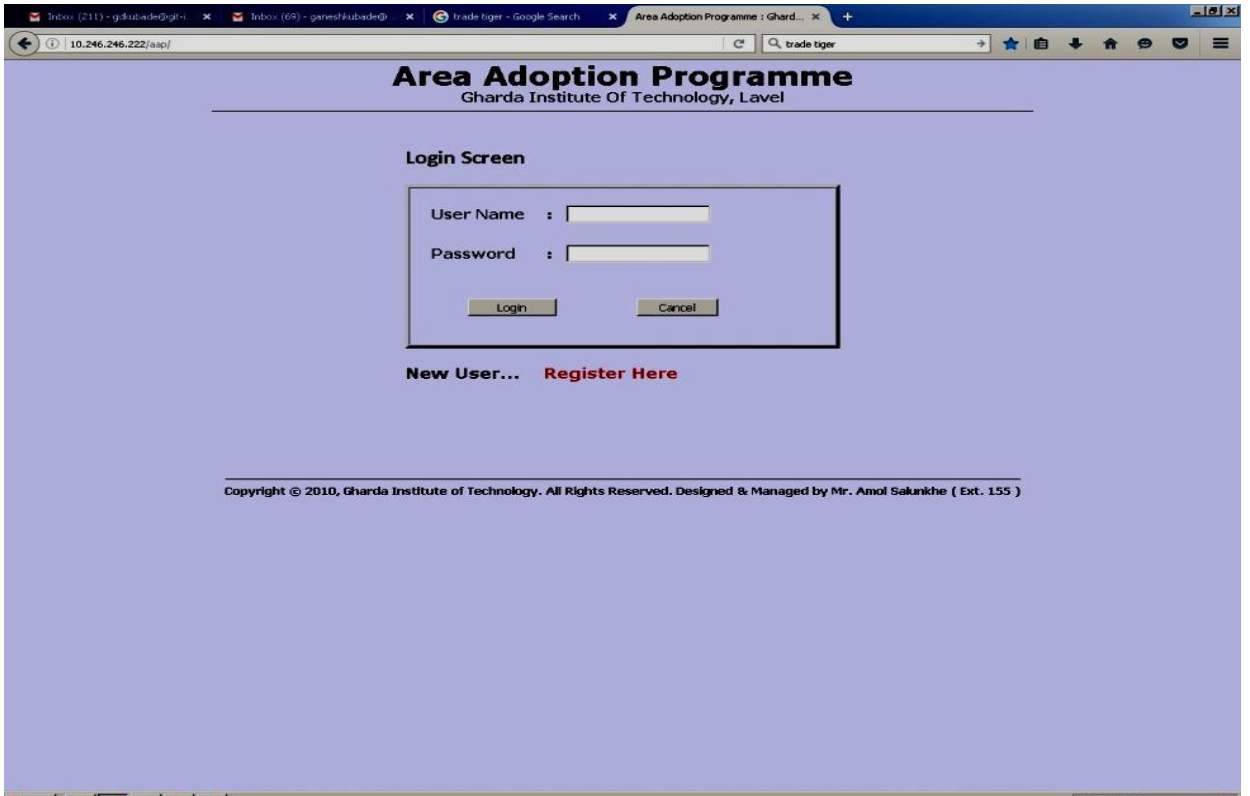
- Total campus of 23.16 acres is divided into several areas and each is assigned a owner.
- A group of students, teaching and non teaching staff is allocated to each area. Responsibility of cleanliness and maintenance of that area is assigned to the concern group.
- GUI based application which can work in intranet is developed in house to receive the complaints.
- As budgetary provision is done by head of the institute in advance, it is difficult to take decision at institute level for some major complaints. Such cases need to be addressed by the management.

#### **4. The Practice:**

This application works in intranet. IT helpdesk provides username and password to every faculty.

Faculties launch their complaints through <http://10.246.246.222/aap>.

- After receiving complaint, complaint ID is provided to user to take follow up. Users can also check the status of their complaint using their complaint ID.
- Institute has project and IT help desk department to take care of their concerned maintenance work.
- Project Department: This department takes care of all complaints including cleanliness of campus, electrical, plumbing, civil maintenance.
- IT Help Desk: This department takes care of computer and Intercom related complaints.
- Project and IT helpdesk department are having administrator login to view the complaints and give their remarks.
- Project and IT helpdesk submit the monthly report in their Monthly Information System (MIS) to the local managing committee (LMC). If any complaint needs budgetary provision, then Local Managing Committee takes a decision.



## 5. Evidences of Success:

Before the implementation of Area Adoption Program (AAP), institute was facing problems related with computer and civil maintenance. Complaints related with the same were not properly identified. Also they were not sent to concerned department in time. Hence those complaints remain unattended. Also it was difficult to decide the priority of complaints based on their urgency. Introduction of Area Adoption Program has made large impact to overcome such maintenance related problems. AAP helps to distinguish between IT and Civil maintenance work. With the help of AAP, faculty can launch complaint to the concerned department directly. The status of solved and pending issues is discussed in monthly meeting of Local Managing Committee. Concerned persons are called in the meeting to discuss major issues for implementation, if any. AAP has provided single window solution for solving maintenance related problems. Format of AAP reports are given below:

Sr. No.	Cmp No.	Area Name	Who launched	Against Whom	Team Leader	Complaint Description	Registration Date	Material Used	Total Expenditure	Closing Date	Admin Remark
1	3246	10. C-Wing Ground floor (Mechanical Dept.)	Manjunath Charudatta Marathe	IT HelpDesk	H.O.D Mechanical Engg	CAD- II(Cats)lab 02nos PC no 5 & 19 are not working please check working	28-06-2016	NIL	0	14-07-2016	serviced pcs working fine
2	3249	6. B-Wing Ground floor (West side - FE Dept.)_Seminar room	Girls Hostel No. 1 ( Ajinkyatara )	IT HelpDesk	H.O.D First Year	near seminar room chemical department( computer adapter problem )	01-07-2016	NIL	0	02-07-2016	Adapter power socket loose re-soldered working fine
3	3250	6. B-Wing Ground floor (West side - FE Dept.)_Seminar room	Girls Hostel No. 1 ( Ajinkyatara )	IT HelpDesk	H.O.D First Year	near seminar room chemical department( computer keyboard problem )	01-07-2016	ps/2 to usb converter	100	14-07-2016	pc received for repair ps/2 problem tried to repair but no success need to install ps/2 to usb converter
4	3251	4. A-Wing 1st floor (East Side - Admission/Account)	SWAPNIL GURAV	IT HelpDesk	Registrar	Computer is take lot of time to open any type of file. EXCEL, MSWORD...	02-07-2016	NIL	0	02-07-2016	pc cleaned for temp files and make some settings working fine
5	3252	6. B-Wing Ground floor (West side - FE Dept.)_Seminar room	Sushma Kanhaiyalal Vishwakarma	IT HelpDesk	H.O.D First Year	near seminar hall,chemical dept. MS office need to be installed on PC.	02-07-2016	new smps	750	25-08-2016	new smps installed working fine smps problem need to replace please put requisition for same
6	3253	10. C-Wing Ground floor (Mechanical Dept.)	Manjunath Charudatta Marathe	IT HelpDesk	H.O.D Mechanical Engg	CAD-I lab Pc no.8 Not starting. Please Check	05-07-2016	NIL	0		NIL
7	3254	1. All Security Cabins, Canteen	Vipul V. Shirgaonkar	IT HelpDesk	Registrar	test	05-07-2016	NIL	0	08-07-2016	NIL
8	3255	10. C-Wing Ground floor (Mechanical Dept.)	Itendra Y Acharya	IT HelpDesk	H.O.D Mechanical Engg	Please install Printer at my Newcabin(opposite HOD Mechanical Cabin) on both PCs.	05-07-2016	NIL	0	08-07-2016	printer installed
9	3256	10. C-Wing Ground floor (Mechanical Dept.)	Deepak M. Dubbawar	IT HelpDesk	H.O.D Mechanical Engg	unable to download the video lectures. please solve the problem before starting the semester.	05-07-2016	NIL	0	14-07-2016	Checked problem, Problem is with plugins.
10	3258	10. C-Wing Ground floor (Mechanical Dept.)	Itendra Y Acharya	IT HelpDesk	H.O.D Mechanical Engg	The computer of Faculty cabin no C-01-16 is not working properly. This computer is accessed by Prof.Pravin N. Jadhav	08-07-2016	Old smps	100	08-07-2016	SMPS faulty replaced with old working smps
11	3259	10. C-Wing Ground floor (Mechanical Dept.)	Pravin N. Jadhav	IT HelpDesk	H.O.D Mechanical Engg	Computer in my faculty cabin no C-01-16 is not working properly	08-07-2016	NIL	0	08-07-2016	duplicate entry



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File Edit View Window Help											
Tools Sign Comment											
			DEOKAR			second is IBM (SHORT CKTS IN CIRCUIT OR MOTHERBOARD)				burnt please give requisition for new motherboard second pc re-installation done	
38	3298	10. C-Wing Ground floor (Mechanical Dept.)	Manjunath Charudatta Marathe	IT HelpDesk	H.O.D Mechanical Engg	CAD-II PC No 2,5,15 has starting trouble. Please Check	19-07-2016	NIL	0	01-08-2016	Checked reset graphics card problem solved
39	3299	6. B-Wing Ground floor (West side - FE Dept.) Seminar room	Lahane Mahesh	IT HelpDesk	H.O.D First Year	Extension wire to extension instrument numbered 162 is required at NAAC office.	19-07-2016	NIL	0		NIL
40	3300	6. B-Wing Ground floor (West side - FE Dept.) Seminar room	chetan	IT HelpDesk	H.O.D First Year	Re installation of OS is necessary on Chetan Shinde PC. VIRUS issue.	19-07-2016	NEW MOTHERBOARD AVERTEX	2100	08-08-2016	WORK COMPLETED re installation attempted but now the motherboard seems to faulty please put requisition for new motherboard
41	3301	12. C-Wing 1st floor (East side- IT Dept.)	mayur jadhav	IT HelpDesk	H.O.D IT Engg	HP Printer P1007 Print Black Line	20-07-2016	NIL	0	29-07-2016	checked and found no problem to printer
42	3304	10. C-Wing Ground floor (Mechanical Dept.)	Satej L More	IT HelpDesk	H.O.D Mechanical Engg	CAD-I lab, HMT-lab, MMM-lab, Telephone instruments not working	20-07-2016	NIL	0		NIL
43	3307	10. C-Wing Ground floor (Mechanical Dept.)	Manjunath Charudatta Marathe	IT HelpDesk	H.O.D Mechanical Engg	CAD-II Catia software not connecting. Please Check.	20-07-2016	NIL	0	01-08-2016	problem solved
44	3308	7. B-Wing Ground floor (East side - FE Dept.)	Mane Satyawan Suresh	IT HelpDesk	H.O.D First Year	PC is not working properly, please do the needful.	21-07-2016	NIL	0	02-08-2016	Antivirus updated, Temp files deleted.
45	3309	4. A-Wing 1st floor (East Side - Admission/Account)	Sameer Gajmal	IT HelpDesk	Registrar	telephone instrument not working (201 t&p) wire removed from the socket.	22-07-2016	NIL	0	02-08-2016	Problem Solved. Cable not connected properly
Total Expenditure = 10504.00 Rs.											
		Estate Supervisor	Maintenance Supervisor	Project Co-Ordinator	Principal	Managing Trustee					

## Problems encountered and resources required:

Following problems were encountered while implementing the AAP:

- Software designing: This was addressed by faculty members.
- Software maintenance: The issue was eventually addressed and at present ownership of maintenance lies with IT Help Desk.
- The programme acceptability: The acceptability of the programme was a problem in the beginning. But after a while usefulness of the scheme was understood by all the users and the programme now has turned out to be very popular.
- Resources required: Following resources were needed while implementing AAP:  
IT resources like Intranet, Wi-Fi accessibility and Server of normal specification.

**1. Title of the Practice:** Weekly planner of individual faculty

**2. Goal**

Weekly planning is essential to create clear path for the development of individual faculty and student as well. It maintains a healthy balance between academic and individual growth. Planning can greatly reduce one's stress quotient. It gives understanding of formulation of feasible plan of action. With the help of weekly planning long term goals are attainable. Weekly planning process is creating a contingency plan for unexpected problems and thus helps in making one prepared for emergencies. Planning weekly activities will clearly illustrate schedule of individual faculty, develop self-awareness in learners and faculty, effectively demonstrates to learners the rationale for changing or not changing teaching and learning activities in response to feedback.

### **3. The Context:**

Every Saturday, our faculty plans the activities for the forthcoming week and displays a weekly planner on the notice board. Weekly planner is derived from the academic schedule, goals or objectives of the individual faculty. Weekly planner is helpful for the time management of the faculty. It is one of the most popular choices of our faculty for their own planning. Implementation of weekly planner is important for utilization of academic schedule of the faculty for the betterment of students. With the help of weekly planner of individual faculty and students get to know the availability of faculty. Initially, most of the faculty members are unaware about better management of time in institute. So it is decided to have weekly plan of individual faculty. But initially, faculty is unaware of contents of weekly plan. To overcome these issues, brainstorming sessions for faculty members are organized. After such various brainstorming sessions, weekly plan format is finalized.

### **4. Practices:**

The following tips will provide strategies to implement planning to achieve goals.

- Weekly planning can be used to clearly define goals. Writing goals into planner is beneficial for achieving success.
- After defining goal, brainstorming is done on the tasks that are required to complete in a week. Ordering all the necessary tasks into a logical order and assigning an estimated time for completing each goal is important to plan these activities.
- When preparing weekly schedule it is important to plan a daily schedule as well. Although weekly schedule is important for achieving goal, it is the daily planning that helps to track faculty progress and determine whether they are on a right track.
- Evaluation of progress can be done during day at any time to evaluate progress and make adjustments as necessary.
- At the end of every week, review is taken to determine success of planning. This will help to illustrate plan of subsequent week for any modification.

Weekly plan covers following contents:

- Lecture schedule
- Practical schedule
- Project schedule
- Tutorial schedule
- Research work (if any)
- Departmental work
- Meeting schedule
- Students interaction
- Mentoring
- Library visit schedule
- Continuous assessment

### **5. Evidences of Success:**

Evidence of success in performance against targets, benchmarks & review of results are given below-  
Before the start of this practice of weekly plan, following difficulties are faced.

- Faculty were not able to set the priority of work
- Proper planning of preparation of lectures was not possible.
- Students were not able to meet the faculty for clearing their doubts in busy schedule.
- Faculty were not able to focus on their long term goal

Once the list of strategies is created in the form of weekly plan following improvements have been observed:

- Specific time is allotted for the meetings. Exceptions can be made, but only if the meeting is of extremely high importance and/or urgent.
- Faculty is able to focus on their short & long term goals.
- Students are able to meet faculty for solving their academic related doubts.
- Faculty gives proper time for their knowledge up gradation and personal growth.

### **Problems encountered and resources required:**

There are no resources required for the weekly plan preparation.

### **7.4 Contribution to environmental awareness / protection**

The environmental awareness programmes conducted in the year covered topics like causes of pollution, conservation of soil, water, energy conservation. In curriculum of first year Engineering, Chemical engineering and Civil engineering there are subjects of environmental engineering. Other than the

programmes related to environment protection and pollution control related programmes; a special programme was conducted related to snakes.

1) Nature Club

Topic: Snake's Amazing Life and Types

Nature club arranged a program on "Various aspects and minute aspects of snake and its behaviour".

7.5 Whether environmental audit was conducted? Yes  No

Environmental audit consists of following types of audits,

1) Green Audit

2) Energy Audit

3) Carbon Credit

4) Water Consumption Audits

**1) Green Audit**

The college conducted the Internal Green Audit in academic year 2016 - 17 and strives to maintain eco-friendly atmosphere on the campus.

**2) Energy Audit .**

Energy audit is done annually and the recommendations of the auditors are implemented.

**3) Carbon Credit**

Students are not allowed to use vehicles inside the campus. The other sources of Carbon emission in the Campus in GIT at department level are printers due to consumption of paper and ink besides power. Following are the indirect sources and direct sources for carbon credits.

**a) Indirect sources**

**1) Purchased electricity**

- Our college purchases electricity from Maharashtra State Electricity Distribution Co Ltd. from Koyana Hydro Electric power plant. College conducted energy audit in our college from external agency (GCL). Authorised persons mentioned below conducted audit.  
**i) Mr. Benjamin ii) Dr. V. R. Ambike**
- The college maintains power factor close to unity and takes improved power factor rebate in the Monthly bills from the MSEDCL

**2) Transportation for Staff & Student: Use of Public Transport & sharing,**

**b) Direct Sources**

**Solid waste**

**Solution:**

- E-waste Certificate of recycling,
- Regular AMC,
- Certificate of stationary cycling,
- Human waste used in biogas plant
- Waste treatment plant,
- Food waste is converted to fertilizer.

**i) E-waste & stationary:** Disposal of scrap material is one of the most important functions of materials management in any organization. This has become necessary as the equipment and other items tend to become unserviceable etc. over a period of time due to its long usage. The disposal of this type of material is needed to be done on periodic basis, especially disposal of computers and peripheral devices. The handling and disposal of Hazardous, Chemical, Radioactive, and Biological waste requires specialized training and facilities. College has e-waste policy in accordance and follows all the rules and regulations of the govt. Disposal of e-waste is done as per the procedure and with the help of Govt. authorized vendors.

**ii) Human Waste:** Feedstock production for biogas is very diverse, ranging from livestock waste, manure, to harvest surplus. Also, wastewater sludge, municipal solid wastes and organic wastes from households can be used as feedstock. College has an in-house campus has a Bio-gas plant.

**iii) Food Waste:** Nowadays, with growing population, the solid waste has increased. Different types of organic waste such as food waste, kitchen waste, meat, garden waste and market waste etc pose a challenge. Thus to control organic waste, college uses the “Organic Waste Converter.” This organic waste converter converts the food waste from hostel and canteens/messes of our college into the compost. Composting is the best method to convert this organic waste and this resultant product is called as manure, which is an excellent fertilizer for the plants and trees in the campus.

**c) Other Sources:****i) Refrigerants**

Solution: Following precautions are taken while using AC in GIT

- Operating between 24 to 26 degrees Celsius.
- Closing the room from all sides to avoid less of cooling.
- Proper power saving star rating.
- Operation below 26 °C increases energy consumption of AC.
- Cleaning the filter of AC regularly as it can help reduce energy consumption by almost 10%.
- Periodic maintenance of the AC for the better performance.

**ii) Chemicals**

Solution: Chemicals are sent to GCL for treatments

**iii) Printing Process:**

Solution: Indoor plants, Regular AMC

**iv) Generator:**

Solution: Tree plantation & no laboratory practical on Monday (The day of weekly load Shedding in this area), following protocols, Regular AMC

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

**Strengths:**

- Excellent infrastructure and well equipped laboratories.
- A unique mix of experienced and young enthusiastic human resources
- Implementing outcome based teaching-learning process.
- Open, well-defined continuous assessment system for students.

**Weaknesses:**

- R & D and Consultancy work in past years.
- Intellectual Property rights.

**Opportunities:**

- Industry-institute interaction.
- Preparing student for GATE/GRE & Government /Public sector examination.
- Consultancy activity for internal revenue generation.
- Implementation of project based learning.

**Concerns/constraints:**

- Lack of academic autonomy especially in the curriculum and syllabus front.
- Poor intake quality of students.
- Fetching reputed core industries for campus placements.

**8. Plans of institution for next year**

- Establishment of common resource centre
- Establishment of grass root level innovation centre/incubation centre

Name Sachin R. Khedekar

Name DR. PRAMOD JOSHI

  
Signature of the Coordinator, IQAC

  
Signature of the Chairperson, IQAC

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## ACADEMIC CALENDAR JULY 2017 TO DEC 2017 (ODD SEMESTER)

July-17							Aug-17										
SUN	MON	TUE	WED	THU	FRI	SAT	SUN	MON	TUE	WED	THU	FRI	SAT				
						1				1	2	3	4	5			
													New Term (FE)				
2	3	4	5	6	7	8	6	7	8	9	10	11	12				
9	10	11	12	13	14	15	13	14	15	16	17	18	19				
Start of New Term (SE, TE, BE)									PH		PH						
16	17	18	19	20	21	22	20	21	22	23	24	25	26				
23	24	25	26	27	28	29	Sessional Exam-I							Mid Term Break			
30	31						27	28	29	30	31						
10 Start of New Term (SE, TE, BE)							Mid Term Break							IV	PH*		
Sep-17							Oct-17										
SUN	MON	TUE	WED	THU	FRI	SAT	SUN	MON	TUE	WED	THU	FRI	SAT				
						1	2	1	2	3	4	5	6	7			
						IV	PH		PH								
3	4	5	6	7	8	9	8	9	10	11	12	13	14				
		Teach. Day			Formation of SRC		15	16	17	18	19	20	21				
10	11	12	13	14	15	16				PH*	PH	PH	PH				
		Engg. Day					22	23	24	25	26	27	28				
17	18	19	20	21	22	23	Sessional Exam-II							Term End			
24	25	26	27	28	29	30	29	30	31								
						PH	Start of Oral & Practical Exam (SE, TE & BE)										
1 Industrial Visit (IV) 2 Bakri Id (PH) 5 Teachers Day 8 Formation of SRC 15 Engineers Day 30 Dasara (PH)							2 Mahatma Gandhi Jayanti (PH) 18 Narak Chaturdashi (PH) 19 Laxmi Pujan (PH) 20 Diwali (PH) 21 Bhaubeej (PH) 25-27 Sessional Exam-II (SE, TE & BE) 28 Term End (SE, TE & BE) 30 Start of Oral & Practical Exam (SE, TE & BE)										
Nov-17							Dec-17										
SUN	MON	TUE	WED	THU	FRI	SAT	SUN	MON	TUE	WED	THU	FRI	SAT				
				1	2	3	4							1	2		
													PH				
5	6	7	8	9	10	11	3	4	5	6	7	8	9				
							Exp. Date of Commencement of Theory Exam (FE)										
12	13	14	15	16	17	18	10	11	12	13	14	15	16				
19	20	21	22	23	24	25	17	18	19	20	21	22	23				
Expected Date of Commencement of Theory Exa(SE, TE, BE)							24	25	26	27	28	29	30				
26	27	28	29	30				PH									
							31										
4 Guru Nanak Jayanti (PH) 20 Commencement of Theory Exam (SE, TE, BE) 25 Term End (FE)							1 Id-E-Milad (PH) 4 Commencement of Theory Exam (FE) 25 Christmas (PH)										

PH: Government Declared Public Holidays, PH\*: Collector Declared Holidays

## IMPORTANT NOTE :

- 1 TERM (SE, TE, BE): JULY 10, 2017 TO OCT 28, 2017 ( 15 WEEKS )
- 2 TERM (FE): AUGUST 04, 2017 TO NOV 25, 2017 ( 15 WEEKS )
- 3 Mid Term Break: AUGUST 25 TO AUGUST 29, 2017
- 4 WORKING DAYS FOR COMPENSATION OF LOSS OF ACADEMICS ON AUGUST 30 & SEPT 1: AUGUST 7 (Raksha Bandhan), SEPTEMBER 5 (Anant Chaturdashi)
- 5 STUDENTS MUST ALWAYS KEEP WATCH ON NOTICE BOARD FOR CHANGED ANNOUNCEMENTS.
- 6 ABOVE ACADEMIC CALENDAR IS SUBJECT TO CHANGE AS PER THE GUIDELINES OF MUMBAI UNIVERSITY AND OTHER GOVERNING AUTHORITIES.

**ACADEMIC CALENDAR JAN 2018 TO JUN 2018 (EVEN SEMESTER)**

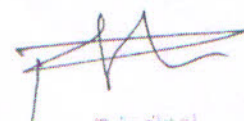
Jan-18							Feb-18							
SUN	MON	TUE	WED	THU	FRI	SAT	SUN	MON	TUE	WED	THU	FRI	SAT	SUN
	1	2	3	4	5	6						1	2	3
7	8	9	10	11	12	13	4	5	6	7	8	9	10	
Start of Second Term														
14	15	16	17	18	19	20	11	12	13	14	15	16	17	
							Annual Sports							
21	22	23	24	25	26	27	18	19	20	21	22	23	24	
				PH			Sessional Exam.- I							
28	29	30	31				25	26	27	28				
8 Start of Second Term (Even Semester) 26 Republic Day (PH)							11-14 Annual Sports 13 Mahashivratri (PH) 16-17 Social & Cultural Activities 19 Chhatrapati Shivaji Maharaj Jayanti (PH) 22-24 Sessional Examination-I							
Mar-18							Apr-18							
SUN	MON	TUE	WED	THU	FRI	SAT	SUN	MON	TUE	WED	THU	FRI	SAT	SUN
					1	2	1	2	3	4	5	6	7	
					PH									
4	5	6	7	8	9	10	8	9	10	11	12	13	14	
						Tech-Fest						PH		
11	12	13	14	15	16	17	15	16	17	18	19	20	21	
Tech-Fest							Sessional Exam-II							
18	19	20	21	22	23	24	22	23	24	25	26	27	28	
							Start of Oral & Pract. Exam.							
25	26	27	28	29	30	31	29	30						
				PH	PH		14 Dr. Babasaheb Ambedkar Jayanti (PH) 19-21 Sessional Exam-II 21 Term End 23 Start of Oral & Practical Exam. 30 Buddha Pournima (PH)							
2 Holi (2nd day) (PH) 10-11 Technical Festival (SHODH) 29 Mahavir Jayanti (PH) 30 Good Friday (PH)														
May-18							Jun-18							
SUN	MON	TUE	WED	THU	FRI	SAT	SUN	MON	TUE	WED	THU	FRI	SAT	SUN
			1	2	3	4						1	2	
		PH												
6	7	8	9	10	11	12	3	4	5	6	7	8	9	
Start of Theory Examination														
13	14	15	16	17	18	19	10	11	12	13	14	15	16	
												PH		
20	21	22	23	24	25	26	17	18	19	20	21	22	23	
27	28	29	30	31			24	25	26	27	28	29	30	
1 Maharashtra Day (PH) 8 Start of Theory Examination							16 Ramzan Id (PH)							

PH-Public Holiday. Following holidays fall on Sunday: March 18 - Gudi Padva, March 25 - Ram Navmi

**IMPORTANT NOTE :**

- 1 TERM: JAN 8, 2018 TO APR 21, 2018 ( 15 WEEKS )
- 2 STUDENTS MUST ALWAYS KEEP WATCH ON NOTICE BOARD FOR CHANGED ANNOUNCEMENTS.
- 3 ABOVE ACADEMIC CALENDAR IS SUBJECT TO CHANGE AS PER THE GUIDELINES OF MUMBAI UNIVERSITY AND OTHER GOVERNING AUTHORITIES.



  
 Principal  
 GHARDA INSTITUTE OF TECHNOLOGY  
 A/P Lavel, Tal. Khed, Dist. Patnagiri  
 Pin 415 708, Maharashtra State



Academic Year : 2017-2018

Class : SE EXTC Sem 2

Division : none

Teacher : PANKAJ WARAK

Subject : Signals & Systems(PP)

Batch : None

Department : Electronics And Tele-communication Engineering Performance Index : 86.31 %

Sr.No	Question	Excellent	Very Good	Good	Satisfactory	Not Satisfactory	Total Marks	Out Of	Percentage
1	Whether LCD /OHP are used as required?	10	10	2	2	1	101	125	80.8 %
2	Whether practical/real life examples are given?	14	8	1	1	1	108	125	86.4 %
3	Whether teacher creates subject interesting?	12	9	1	2	1	104	125	83.2 %
4	Whether faculty reports at right time to class?	13	7	4	1	0	107	125	85.6 %
5	Whether board writing visible to last benches?	15	7	2	1	0	111	125	88.8 %
6	Whether models are used?	10	9	5	1	0	103	125	82.4 %
7	Whether review is made on previous class?	11	10	2	2	0	105	125	84 %
8	Whether notes provided?	11	11	2	1	0	107	125	85.6 %
9	Whether voice is clear & understandable?	13	10	1	1	0	110	125	88 %
10	Whether teaching relevant to syllabus ?	11	9	5	0	0	106	125	84.8 %
11	Whether allotted time is fully utilized?	14	9	2	0	0	112	125	89.6 %
12	Whether hand writing is legible?	14	8	3	0	0	111	125	86.8 %
13	Whether students doubts addressed satisfactorily?	11	11	3	0	0	108	125	86.4 %
14	overall impression of teacher.	14	10	1	0	0	113	125	90.4 %
15	Whether teacher available for clearing doubts?	12	10	3	0	0	109	125	87.2 %
16	Whether audible to last benches?	13	10	2	0	0	111	125	88.8 %
17	Whether the language is simple and understandable?	11	11	3	0	0	108	125	86.4 %
Total		209	159	42	12	3	1834	2125	86.31 %
% Total		49.18	37.41	9.88	2.82	0.71			

Class Teacher

Feedback Coordinator

Head of Department

Principal

GHARDA INSTITUTE OF TECHNOLOGY  
 WP. Lavel, Tal. Khed, Dist. Ratnagiri  
 Pin 415 708, Maharashtra State

**Annexure-III Faculty participation in conferences and symposia**

<b>Name of Faculty</b>	<b>Attended/ Presented paper/ Resource Person</b>	<b>Name of conferences and symposia</b>	<b>International/National/State level</b>	<b>Date</b>
Prof. Howal S. A.	Attended & Presented Paper	International Conference on Nanotechnology & Human Welfare	International	1/02/2018 to 3/02/2018
Prof. Dhawale S. K.	Attended	Chemistry the Mirror of Industry	State Level Seminar	30/06/2018
Dr. Kolekar N. A.	Attended & Presented Paper	Impact of Globalization on Language, Literature, Education, Social Sciences, Library, Environment, Sports & Games.	National	17/03/2018
Dr. Gharat S.H.	Presented Paper	Micromechanics of Granular Media, Powders & Grain 2017, Montpellier France	International	03/07/2017 to 07/07/2017
Dr. Gharat S.H.	One of the author (Presented by Mr. Ajitesh Dubey)	National Conference on New Frontiers in Chemical Engineering organized by Department of Chemical Engineering Pravara Rural Engineering College, Loni, Ahmednagar Maharashtra	National	14/03/2018 to 16/03/2018

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

<b>Name of Faculty</b>	<b>Involved as a member of Board of Study/Faculty/Curriculum Development workshop</b>	<b>Organizing Institute/University</b>	<b>Date</b>
Prof. Gadre M.S.	Faculty	DTE & L & T	11/06/18 to 15/06/18
Prof. Potdar Bharat	Faculty	University of Mumbai	20/07/2017
Prof. Mhetre Punam S.	Faculty	University of Mumbai	10/11/2017
Prof. Pandharkame Subodh N.	Faculty	University of Mumbai	21/07/2017
Prof. Mohite Madhusudan A.	Faculty	University of Mumbai	20/07/2017
Prof. Warak Pankaj L.	Faculty	University of Mumbai	19/07/2017
Prof. Gajmal Sameer S.	Faculty	University of Mumbai	28/07/2017
Prof. Kumbhar Niles K.	Faculty	University of Mumbai	28/07/2017
Prof. Gadre Mangesh S	Faculty	University of Mumbai	09/01/2018
Prof. Kalamkar Rohan R.	Faculty	University of Mumbai	20/01/2018
Prof. Muchande Shrishell K	Faculty	University of Mumbai	15/01/2018

## Annexure-V

### Initiatives undertaken towards faculty development

Name of Faculty	Name of Programmes (Refresher courses/ UGC – Faculty Improvement Programme/ HRD programmes/ Orientation programmes/ Faculty exchange programme/ Staff training conducted by the university/ Staff training conducted by other institutions/ Summer / Winter schools, Workshops/ Others)	Organizing Institute/University/Resource Person	Date
Prof. Koppa N. H.	UGC – Faculty Improvement Programme	VTU, Belgum	23/10/2017
Prof. Kasar V.R.	Workshop on Jalyukt Shivar Abhiyan Assessment	WCD, GOM, IITB CTARA& PRMIT, Badnera, Amravati	05/02/18 to 06/02/18
Prof. Shinde C. S.	INUP Hands on training workshop on Nanofabrication Technology	IIT , Bombay	23/10/2017 to 27/10/2017
Prof. Howal S. A.	INUP Hands on training workshop on Nanofabrication Technology	IIT, Bombay	29/11/2017 to 1/12/2017
Prof. Howal S. A.	NCPRE Familiarization Workshop on Photovoltaics	IIT, Bombay	30/11/2017 to 30/11/2017
Prof. Dhawale S. K.	Science Academies’ Refresher Course in Chemistry	Modern College of Arts, Sciences & Commerce, Pune.	27/11/2017 to 11/12/2017
Prof. Satpute M. S.	Workshop by Rubber Skill Development Council	IRMRA	18/04/2018 to 20/04/2018
Prof. Potdar B. S.	Science Academies’ Refresher Course in Mathematics	Dayanand Science College, Latur.	11/06/2018 to 25/06/2018
60 Faculty Members of the college including 15 Faculty & Staff members of Comp. Engg. Deptt.	Faculty Development Programme (FDP) on Soft Skill Development organized by Professor & H.O.D of Comp. Engg. with support from Management of the College.	College	20/03/ 2018 to 20/04/2018. 3 hrs. /day for 45 hrs. duration
15 Internal Faculty Members & One	1-week AICTE-ISTE approved FDP on Big Data Analytics	Prof. Godson D’Silva and his team from	1/1/2018 to 5/1/2018

External Faculty Member		SJCEM, Palgarh, near Mumbai under University of Mumbai and Dr. M. Sasikumar, Director , C-DAC, Mumbai under MeitY, Govt. of India.	
15 Faculty Members	Invited Guest Lecture on “A Tour to Cloud Computing”	Mr. P. Chakrabarty, Director (Cloud Computing), Oracle India Pvt. Ltd., Bengaluru.	17/03/2018
21 Faculty Members	Invited Guest Lecture on “Privacy Challenges in Social Networks”	Prof. (Dr.) R.K. Shyamasundar, Distinguished Visitor, Professor, IIT Bombay & Ex-Dean / Senior Professor, TIFR, Mumbai	08/11/ 2017
21 Faculty Members	ISTE Approved IITB Remote Centre FDP for 1-week during July 2017 on “ Hands-on Experience on Python programming”	Spoken Tutorial Team of IITB, Mumbai	06/07/2017 to 10/07/2017
16 Faculty Members	Invited Guest Lecture on “Machine Learning for Richer Analytics”	Dr. M. Sasikumar, Director-CDAC, Mumbai uner MeitY, Govt. of India	05/01/2018
One Faculty member got certificate for successfully completing the various modules.	Industrial Visit to Oppulent Infotech Ltd., Pune	Team of Engineers from Oppulent Infotech Ltd., Pune	19/09/17
Three Faculty Members of computer dept.	.Net Training for Faculty	Microsoft Certified Trainers from ATS Infotech Ltd.	June 2018 for 10 days
Five Faculty Members of computer dept.	ISTE workshop through MOOC, FDP101x (ICT for Education)	IIT Bombay Faculty Members	8-3-2018 to 20-04-2018
Dr. Danawade B.A.	Seminar on Outcome based education	Gharda Institute of	19/08/2017

		technology	
Mr. Patil P.M.	3D Modelling using Autodesk Inventor	Gharda Institute of technology	15/10/2017
Faculty members of mechanical dept.	Training on 3D printing Technology	Fractalworks, Bangalore	03/02/2018

## Annexure-VI

### Details regarding minor projects

Name of the Project	Name of Faculty Involved	Outlay in Rs. Lakhs	Status during 2017-18 (Completed/Ongoing/Sanctioned/Sub mitted)
Exploration of Oxyanionic Fe-based Cathodes for Secondary Batteries.	Prof. Shinde C. S.	0.25	Ongoing
Digital India: Implementing Multivariate Data Mining Mechanisms For A Secure Enterprise Transaction In Core Rural Areas	Prof. Mangore Anirudh, Prof. Nair Vijesh Mundokalam	0.25	Ongoing
Estimating hydrogen storage properties of metal hybrids	Prof. Kalamkar R.R.	0.35	Ongoing
Shearing strength of adhesive in wood steel composites	Dr. Danawade B.A.	0.55	Completed
Prediction of mixing time in external air lift reactor	Prof. Teli S. M.	0.30	Ongoing

## Annexure-VII

### Details on research publications

Name of Faculty	Title of the paper	Name of the Journal	Volume	ISSN	Impact Factor	Type of Journal (Peer Review/ Non-Peer Review/ e-Journals/ Conference proceedings)	International/National/Other
Prof.Amardep D. Bhosale	Slope Bottom Tuned Liquid Dampers for Suppressing Horizontal Motion of Structures	International Journal of Engineering Technology Science & Research (IJETSR)	4, June2017	2394-3386	-	Non – Peer Review	International
Prof.Amardep D. Bhosale	Expt. Investigation of Effectiveness of Slope Bottom Tuned Liquid Damper	International Journal of Engineering Technology Science & Research (IJETSR)	4, Issue-05, May2017	2394-3386		Non – Peer Review	International
Prof. V.D. Kamble	Design STP & to increase efficiency of existing sewage Treatment Plan By Modification in the conventional Design	International Research Journal of Engineering & Technology(IRJET)	8,ISSUE-01, April2018	e-ISSN-2395-0056	6.17	e- journal	International
Prof. M.D. Ghadage	Performance of Hollow sections with and without infill under compression and Flexure	International Journal of Engineering Science Invention(IJESI)	Vol-7, Issue2, Feb.2018	e-ISSN-2319-6734, ISSN 2319-6726	-	e- Journal	International
Prof. V.R. Kasar	Reuse of Natural Waste material(Coconut waste)for making Light weight Bricks	International Research Journal of Engineering & Technology(IRJET)	Vol-05, Issue-04, May 2018	e-ISSN-2395-0056	6.17	e- Journal	International
Dr. Mane S S	Characteristics of English for Science and Technology	International Journal of English Language, Literature in Humanities	V, Dec 17	2321-7065	5.7 (SIJF)	e-Journal	International
Dr. Mane S S	Role of Media and Nation's Development	Bulletin of Indian Society and Culture	IV, Dec 17	2395-3748		e-Journal	International



Dr. Mane S S	The Status of English as a Second Language in Indian Classroom	Aayushi International Interdisciplinary Research Journal	V, March 2018	2349-638x	4.574	Refereed & Indexed Journal	International
Prof. Howal S A	Photodegradation of Spent Wash, a Sugar Industry Waste, Using Vanadium-doped TiO <sub>2</sub> Nanoparticles	RSC Advances	VIII, May 2018	20394-20405	3.096	Peer Reviewed	International
Dr. Kolekar N A	Social Perspectives in Dissociative Identity Order	Aayushi International Interdisciplinary Research Journal	March, 2018	2349-638x	4.754	Refereed & Indexed Journal	International
Prof. S.R.Khedekar	Analysis of Estimation of Direction of Arrival by Comparative Study	Elsevier Materials Today Proceedings, pp. 1696–1703, 5, 2018.	Jan 2018	2214-7853	0.71	Scopus Indexed	International
Dr. Danawade B.A.	"Vibration characteristics of teak wood filled steel tubes."	AIP Conference Proceedings			0.165 Scopus	Scopus	International
Dr. Khalkar V.R.	Paradigm for natural frequency of an un-cracked simply supported beam and its application to single-edged and multi-edged cracked beam	Journal of vibrations in physical systems	2018,29	2018028	0.2	Scopus	International
Dr. Khalkar V.R.	Analysis of the effect of V-shape and Rectangular Shape cracks on the natural frequencies of a spring steel cantilever beam, Materials Today Proceedings Journal, Volume 5, Issue 1, Part 1, 2018, Pages 855-862.	Materials Today Proceedings Journal	Proceeding 5		0.7	Scopus, Web of Science	International
Dr. V.R. Khalkar	Investigation of the effect of two open cracks on the characteristics roots of a steel cantilever beam, Materials Today Proceedings Journal, Volume 5, Issue 1, Part 1,	Materials Today Proceedings Journal	Proceeding 5		0.7	Scopus, Web of Science	International

	2018, Pages 207-213.						
Dr. Khalkar V.R.	The effect of crack geometry on stiffness of a cracked cantilever beam	Journal of low frequency noise vibration and active control	Vibration and Active Control(0) 1-13		1.491	Scopus, Web of Science	International
Prof. Kalamkar R. R.	Development of experimental setup for measurement of stored hydrogen in solid by volumetric method	Techno- Societal, International Conference Proceeding, Springer Publication	2.58				International
Prof. Kumbhar N.K.	Castor oil based magneto rheological fluids	International journal of science & tech			0.3	1	International
Dr. Gharat S.H.	Dynamics of granular segregation in quasi 2D system	European Physical Journal	140	<a href="https://doi.org/10.1051/epjconf/20174003039">https://doi.org/10.1051/epjconf/20174003039</a>	1.56	Conference proceedings Journal	International
Dr. Wadhvani P. A.	Application of artificial neural networks and response surface methodology approaches for the prediction of oil agglomeration process	Fuel	220	<a href="https://doi.org/10.1016/j.fuel.2018.02.040">https://doi.org/10.1016/j.fuel.2018.02.040</a>	4.9	Peer Review	International
Dr. Tekade S.P.	Hydrogen generation in an annular micro-reactor: an experimental investigation and reaction modeling by shrinking core model	International journal of chemical reactor engineering	16	<a href="https://doi.org/10.1515/ijcre-2017-0202">https://doi.org/10.1515/ijcre-2017-0202</a>	0.9	Peer Review	International
Dr. Tekade S.P.	Hydrogen Generation in Water Splitting Reaction Using Aluminum: Effect of NaOH Concentration and Reaction Modelling Using SCM	International journal of chemical reactor engineering	16	<a href="https://doi.org/10.1515/ijcre-2017-0250">https://doi.org/10.1515/ijcre-2017-0250</a>	0.9	Peer Review	International

**Annexure-VIII****Research funds sanctioned and received from various funding agencies, industry and other organisations**

<b>Nature of the Project (Minor/Major/ Interdisciplinary/ Industry sponsored/ Projects sponsored by the University/ College/ Students research projects (other than compulsory by the University)/ Any other(Specify))</b>	<b>Name of the funding Agency</b>	<b>Name of faculty Involved</b>	<b>Total grant Sanctioned (Rs)</b>	<b>Received ((Rs)</b>
Jalyukt Shivar Abhiyan Assessment	IITB-CTARA	Prof. Kasar V.R, Dr. Kulkarni Y.R. Prof. Gujarathi S.S.	8000/-	8000/-
Minor research project	Mumbai University	Prof. Kalamkar R.R.	35000/-	35000/-
Minor research project	Mumbai University	Dr. Danawade B.A.	55000/-	55000/-
Prediction of mixing time in external air lift reactor	Mumbai University	Prof. Teli S.M.	30000/-	30000/-

**Annexure-IX****No. of faculty served as experts, chairpersons or resource persons**

Name of Faculty	Served as experts, chairpersons or resource persons	Name of the Program	Date
Prof. Warak P. L.	Expert	Guest Lecture on “Industrial Instrumentation”, Maharashtra polytechnic, Mandan gad.	20/2/2018.
Prof. Warak P. L.	Expert	Guest Lecture on “Industrial Instrumentation” Sheth Shri Otarmal Sheshmal Parmar College of Diploma Engineering, Nagothane.	26/2/2018
Prof. Gadre M. S.	Resource Person	Guest Lecture on “Transformer Protection” Maharashtra polytechnic, Mandangad.	20/2/2018
Prof. Munghate S. C.	Resource Person	Guest Lecture on “Microprocessor” Sheth Shri Otarmal Sheshmal Parmar College of Diploma Engineering. Nagothane	26/2/2018
Prof. Londhe & Prof. Pawar R.	Resource Person	Guest Lecture on “Python Programming at Maharashtra Polytechnic, Mandangad	20/02/2018
Prof. Londhe & Prof. Nair V.	Resource Person	Guest Lecture on “Python Programming” at Sahyadri Polytechnic, Sawarde	21/02/2018
Prof. Mangore A. and Prof. Modani	Resource Person	Guest Lecture on “.Net Technologies” at Smt Geeta D. Tatkare Polytechnic, Roha	24/02/2018
Prof. Patil P. P.	Resource Person	Guest Lecture on “Cloud Computing” at SSOSP College of Diploma Engg., Nagothane, , Raigad	26/02/2018.
Mr. Swami V. M.	Resource person	Expert lecture on Engineering Graphics	06/10/2017 to 07/10/2017
Dr. Danawade B.A & Swami V.M.	Resource person	NBA overview	01/11/2017

## Annexure-X

### List of Industries collaborated:

Sr. No	Name of Industry
1.	Opulent Infotech Pvt Ltd., Pune
2.	Lavand Traders, Malkapur
3.	EXYnow Pvt. Ltd., Panjim
4.	Harilal Natural Wines, Sangli
5.	Rohan Industries, Kolhapur
6.	Geometric Ltd. Vikhroli, Mumbai
7.	Excel Industries Ltd., Lote
8.	Vighaharta Developers, Dapoli
9.	Ravindra D. Karandikar (Architect Firm) Chiplun
10.	Vighnaharta Developers, Kharghar
11.	SP Design & Developers LLP, Pune
12.	A-Tech Consultancy, Kolhapur
13.	SIRA Construction, Khed
14.	Duflon Industries Pvt. Ltd.
15.	Privi Organics Ltd.
16.	Ogniben India Pvt. Ltd.
17.	Kansai Nerolac
18.	SI Group
19.	Webtech Developers
20.	Allure Software