



**INTERNAL QUALITY ASSURANCE CELL (IQAC)**  
**ACADEMIC AND ADMINISTRATIVE AUDIT**

**For ACADEMIC YEAR: 2019-2020 SEM - II**  
 (Provide information for Academic Year 2019-2020 SEM - II)

**Section I: Basic Information**



1	Audit Date	11/04/2020
2	Name of Department	E&TC
3	Head of Department	Prof. Neeta Karhadkar
4	Number of Full time teachers	12
5	Number of Technical Staff	02
6	Number of Student	127
7	Student Full Time Teacher Ratio	1:10.58

**Section II: Curricular Aspects**

➤ **Academic Planning**

Sr. No	Particular	Yes / No	Remark (if any)
1	Departmental Academic Calendar	Yes	
2	Faculty Subject Choices	Yes	
3	Elective Choice from Student	Yes	
4	Course / Subject Distribution to Faculty	Yes	
5	All Time Tables	Yes	
6	Teaching plan & Laboratory plan	Yes	

➤ **Participation of the department in the curriculum development for courses offered by the Affiliating University.**

Sr. No.	Name of Faculty	Participated as	Course	Class
1		NA		Principal

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- **List of Elective Courses in Elective Course System conducted by department to students (TE/BE)**

Sr. No	Name of Elective Course	Semester
1	PLC's and Automation	VIII
2	Wireless Sensor Network	VIII

- **List of audit courses in CBCS system conducted by department**

Sr. No	Name of Audit Course	Class	Semester
1	Cyber Crime and Law	SE	IV
2	Embedded system design using MSP430	TE	VI
3	Team building , leadership and Fitness	BE	VIII

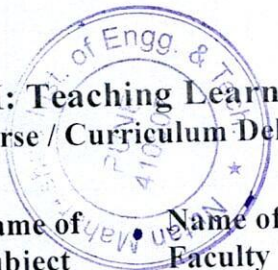
- **List of value added courses conducted in department**

Sr. No	Name of Value Added Course	Date of Event	No of Students Participated
1	Hands on workshop of Fundamentals of C, C++	26th Dec 2019 to 29th Dec 2019	40
2	Training Program by Campus Credential module 2	6th Jan 2020, 20th Feb 2020 10th Jan 2020, 25th Feb 2020	26

**Section III: Teaching Learning & Evaluation**

- **Course / Curriculum Delivery**

Sr. No.	Name of Subject	Name of Faculty	No. of Lectures / Practical's as	No. of Lectures / Practical's as	No. of Lectures/



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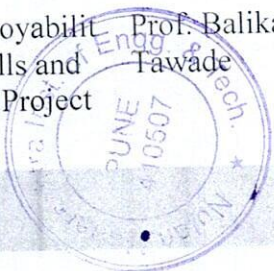


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TE (2015)					
1	Power Electronics	Prof. Balika Tawade	48	48	49
2	Information Theory, Coding and Communication Networks	Prof. Harsha Sarode	43	43	43
3	Business Management	Prof. Harsha Sarode	38	38	38
4	Advanced Processors	Prof. Sarika N.Patil	36	40	40
5	System Programming and Operating Systems	Prof. Sarika B.Patil	45	48	48
6	Power and ITCT Lab	Prof. Balika T. and Prof. Harsha S.	8	8	8
7	Advanced Processors Lab	Prof. Sarika N.Patil	8	8	8
8	System Programming Lab	Prof. Bhagyashri A. Warhade	8	8	8
9	Employability Skills and Mini Project	Prof. Balika Tawade	20	20	24
10	Employability Skills and Mini Project Lab	Prof. Balika Tawade	10	10	10



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BE (2015)  
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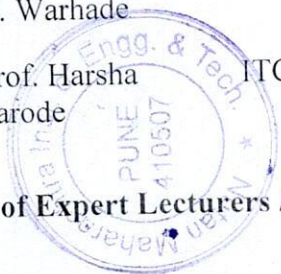


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1	Mobile Communication	Prof. Bhagyashri A. Warhade	46	46	46
2	Broadband Communication Systems	Prof. Sagar Joshi	42	42	43
3	Elective III (PLC)	Prof. Sarika N. Patil	36	37	36
4	Elective IV (WSN)	Prof. Gayatri Ambadkar	36	36	34
5	Lab Practice -III (MC LAB)	Prof. Nutan Patil	8	10	10
6	Lab Practice -III (BCS LAB)				
7	Lab Practice -IV PLC Lab	Prof. Nutan Patil	8	10	10

➤ **Use of ICT Tools in Teaching Learning**

Sr. No.	Name of Faculty	Name of Subject for which ICT Used	ICT Tool / Technique Used
1	Prof. Harsha Sarode	Business Management	PPT Presentation
2	Prof. Bhagyashri A. Warhade	System Programming and Operating System	PPT
3	Prof. Bhagyashri A. Warhade	Mobile Communication	PPT
4	Prof. Harsha Sarode	ITC&CN	Chalk, Board, Duster,

➤ **List of Expert Lecturers / Workshops Conducted**



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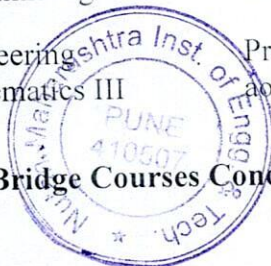
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Sr. No	Expert Lecture Topic Name	Expert Speaker /	Date of	Target Audience (FE/ SE / TE/ BE)
1	Hands on workshop of Fundamentals of C, C++	Bhushan Attarde.Anjum Pathan	26/12/19 to 29/12/19	TE,BE
2	Seminar on Job Opportunities for E&TC engineer in IT Company	Mr.Abijeet Patil	30th Dec 2019	TE,BE

➤ **Activities for Slow and Advanced Learner**

Sr. No.	Name of Subject	Name of Faculty	Slow Learners / Adv. Learners Identified (Yes / No)	No. of Sessions Conducted for Slow Learners	Activities / Task Assigned for Advanced Learner
1	System Programming and Operating Systems	Prof.Sarika B.Patil	Yes	3	
2	Power Electronics	Prof. Balika Tawade	Yes	4	
3	Information Theory, Coding and Communication Networks	Prof..Harsha Sarode	Yes	4	
4	Object Oriented Programming	Dr.Vilas Deotare	Yes	3	
5	Engineering Mathematics III	Prof.Shankarrao Ugale	Yes	6	

➤ **List of Bridge Courses Conducted**



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Sr. No	Name of Subject for which Bridge Course Conducted	Name of Faculty	Class	Semester
	NA			

➤ **Counselling and Mentoring**

Sr. No.	Particular	Yes / No	Remark (if any)
1	Mentor Allocation	Yes	
2	Class wise Student Profile Record Maintained	Yes	
3	Mentor Mentee Session Record Maintained	Yes	

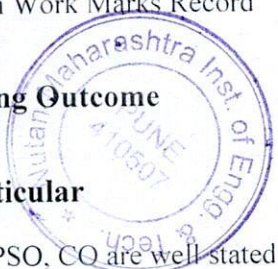
No. of Students in Department	No. of Full Teachers in Department	Mentor: Mentee Ratio
127	12	1:10.58

➤ **Internal Evaluation System**

Sr. No.	Particular	Yes / No	Remark (if any)
1	Continuous Evaluation Record	Yes	
2	Mock Online Exam Record	NO	
3	Unit Test / Class test Record	Yes	
4	Prelim Exam Record	Yes	
5	Mock Oral Practical Record	NO	
6	Seminar / Project Review Record	Yes	
7	Term Work Marks Record	Yes	

➤ **Learning Outcome**

Sr. No.	Particular	Yes/No	Remark (if any)
1	PO,PSO, CO are well stated	Yes	



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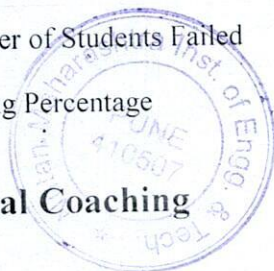
2	Correlation of COs in PSOs and POs	Yes
3	Course Outcome attainment Calculated	Yes
4	Program Specific Outcome & Program Outcome attainment through course Outcome calculated	Yes

➤ **Student Performance in University Exam**

❖ **Semester II**

Sr. No.	Particular	SE	TE	BE
1	Number of Students Appeared	48	35	30
2	Number of All cleared Students	48	32	30
3	Number of Students Passed with Distinctions	35	16	26
4	Number of Students Passed with First Class	12	14	4
5	Number of Students Passed with Higher Second Class	1	2	0
6	Number of Students Passed with Second Class	0	0	0
7	Number of Students Failed	0	3	0
8	Passing Percentage	100	91.42 ✓	100

➤ **Remedial Coaching**



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Sr. No.	Name of Subject for which Remedial Coaching Conducted	Name of Faculty	Class	Semester
1	Integrated Circuits	Prof. Gayatri Ambadkar	SE	II
2	Advanced Processors	Prof. Sarika N.Patil	TE	II
3	System Programming and Operating Systems	Prof. Sarika B.Patil	TE	II

#### Section IV: Structured Feedback

Sr. No.	Particular	Yes / No	Remark (if any)
1	Student Feedback on Teaching Learning Conducted & Analysed	Yes	
2	Parent Meet / Parent Feedback Conducted & Analysed	Yes	
3	Student Exit Survey Conducted & Analysed	Yes	Analysis in Progress
4	Alumni Feedback Conducted & Analysed	Yes	Analysis in Progress

#### Section V: Research, Innovation, Publication

- > Research grants, projects completed and ongoing from funding agencies (like SPPU, BCUD, UGC, AICTE, DST)

Sr. No.	Principal Investigator	Title of Project	Funding Agency	Amount (Rs. In Lakh)	Remark (if any)
					NIL

#### > Faculty Publications

Number of Publication in National Journals



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Number of Publication in International Journals

Number of Publication in National Conferences

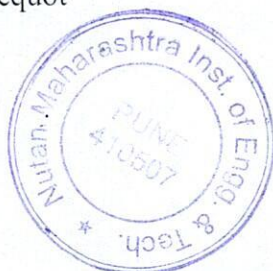
Number of Publication in International Conferences

**□ National Journal**

Sr. No.	Title of Paper	Name of the Author/s	Name of Journal	ISBN/ISSN	Number

**□ International Journal**

Sr. No.	Title of Paper	Name of the Author/s	Name of Journal	ISBN/ISSN
1	Forensic Human Identification using Dual Cross Patterns of Dental	Prof.Sagar Joshi	Helix, Vol. 10, page: 01-06.	EISSN – 2319-5592
2	Secure Multimodal Biometric Authentication Using Face, Palmprint and Ear: A Feature Level Fusion Approach,&quot;	Prof.Gayatri Ambadkar	10th International Conference on Computing, Communication and Networking Technologies (ICCCNT), 2019, pp. 1-5, DOI: 10.1109/ICCCNT45670.2019.8944755 [Indexing: Scopus, IEEE]	ISBN Number: 978-1-5386-4429-4



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3	Multivariate Analytic Technique for Forensic Human Identification based on Dual Cross Patterns of Hand Radiographs	Prof.Sagar Joshi	IJITEE, pp. 2546-2552, January 2020  DOI: 10.35940/ijitee.C8629.019320	ISSN: 2278-3075
4	Deep Learning based person Authentication using hand Radiographs: A Forensic Approach	Sagar Joshi	IEEE Access, <a href="http://creativecommons.org/licenses/by/4.0">http://creativecommons.org/licenses/by/4.0</a>	Volume 8 2020

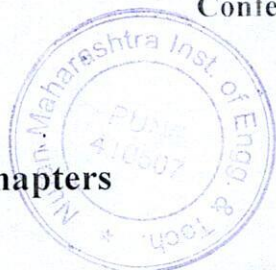
**National Conference**


Sr. No.	Title of Paper	Name of the Author/s	Title of the Proceedings of the Conference	Name of the Conference	ISBN/ISSN Number	Publisher
				NIL		

**International Conference**

Sr. No.	Title of Paper	Name of the Author/s	Title of the Proceedings of the Conference	Name of the Conference	ISBN/ISSN Number	Publisher
				NIL		

**Books / Book Chapters**



  
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Sr. No.	Title of the Book/chapters Published	Name of the Author/s	ISBN/ISSN Number	Publisher
		NIL		

## Section VI: Collaborations & Linkages

### > Student Internships:

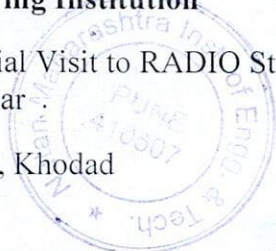
Sr. No.	Name of Student	Name of Sponsored Industry / Research Institute / Partnering Institution	Duration

### > Sponsored Projects

Sr. No.	Project Title	Name of Student	Name of Sponsored Industry/ Research Institute / Partnering Institution
01.	High Frequency Spark Testing	Pratima Honrao Tejashri Bhopale Sayali Dalvi	Transfer Technology & Solution Vadgaon Budruk, Pune

### > Industrial Visits

Sr. No.	Name of Industry / Company Research Institute / Partnering Institution	Date of Visit	Number of Student Participated
1	Industrial Visit to RADIO Station, Hadapsar	10/02/2020	40
2	GMRT, Khodad	28/02/2020	30



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28/02/2020  
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➤ **Functional Memorandum of Understanding (MoU)**

Sr. No.	Name of Industry / Company Research Institute / Partnering Institution	Date of commencement	Duration

**Section VII: Student Progression**

➤ **Placements**

Sr. No.	Name of Students	Name of Company
1	PIYUSHA BALU DESAI	Ugam solutions pvt ltd
2	SONALI DEVRAM GATE	Softcell
3	PAVAN SHALIVAN KAVATE	NXTDIGITAL LIMITED
4	RAHUL HANUMANT KHOD	Star Engineers India Pvt. Ltd
5	SUPRIYA SANTOSH THORAT	TUV Nord
6	NEHA SATISH JOSHI	Capgemini

➤ **Higher Education**

Sr. No.	Name of Students	Name of Institution Admitted To	Name of Program Admitted To
		NIL	

**Section VIII Activity Conducted / Organized by Department**

➤ **Technical Event / Workshop for Students**



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Name of Event / Workshop	Date of Event	No. Of Participants
Add on course "Cracking the Code: Mastering C and C++ "	26th Dec 2019 to 29th Dec 2019	40
Training Program by Campus Credential module 2	6th Jan 2020 , 20th Feb 2020 10th Jan 2020, 25th Feb 2020	24

➤ **FDP / Workshop/ STTP/ Conference for faculty**

Sr. No.	Name of Event / Workshop	Date of Event	Level (University / State National / International)	No. of Participants
			NIL	

**Section IX: Achievements**

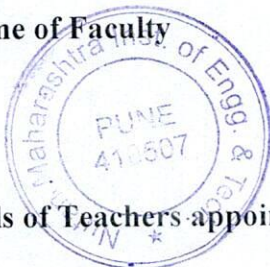
➤ **Awards and Prizes received by students**

Sr. No.	Name of Student	Event Name / Details	Organized by	Achievement / Position / Prize
1	Maheshkumar Deole	Photography	Intercollegiate Youth Festival -First Rank	District level

➤ **Participation of teachers in various activities as members of committees at University level, State level, National level, International level bodies**

Sr. No.	Name of Faculty	Members of committees at University level / State level /International level as
		NIL

➤ **Details of Teachers appointed/ Nominated on Editorial Boards / Reviewers**



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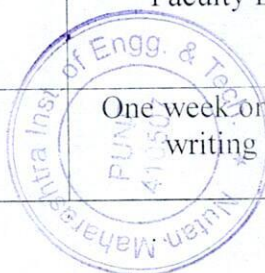
Sr. No.	Name of Faculty	Name of Editorial Boards/ Conference
		NIL

➤ Awards / Prizes and recognitions received by teachers at university, state, national and international level:

Sr. No	Name of Faculty	Name of Award
		NIL

➤ Details of Teachers participated in Refresher courses, Orientation courses, Seminars, Workshops, Conferences at national and international levels.

Sr. No.	Name of Faculty	FDP/STTP/Workshop/ Conference Title	Organize d on	Duratio n (in days / weeks)
1	Bhagyashri A Warhade	AICTE Training And Learning (ATAL) Academy FDP on "Cyber Security"	15/12/2019 - 19/12/2019	1 Week
2	Bhagyashri A Warhade	Faculty Oriented Communication Skill Upgradation Sessions (FOCUS),	27/04/2020 - 02/05/2020	1 Week
3	Nutan Patil	Faculty Oriented Communication Skill Upgradation Sessions (FOCUS),	27/04/2020 - 02/05/2020	1 Week
4	Bhagyashri A Warhade	One Week Faculty Development Programme on "LaTeX"	20/04/2020 - 27/04/2020	1 Week
5	Gayatri Ambadkar	One Week Faculty Development Programme on "LaTeX"	20/04/2020 - 27/04/2020	1 Week
6	Gayatri Ambadkar	One week online FDP on Effective proposal writing and Research and Funding	13/05/2020 - 18/05/2020	1 Week



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7	Gayatri Ambadkar	One Week Faculty Development Program (Online) on Optimizing Techniques for Industrial Practices 4.0	11.05.2020 to 15.05.2020	1 Week
8	Neeta Karhadkar	One Week Faculty Development Program on "eSim"	05/05/2020 - 10/05/2020	1 Week
9	Nutan Patil	One week FDP program on "Arduino"	25/04/2020 - 30/04/2020	1 Week
10	Sarika B Patil	One Week Faculty Development Program on "eSim"	05/05/2020 - 10/05/2020	1 Week
11	Sarika N Patil	One week FDP program on "Arduino"	25/04/2020 - 30/04/2020	1 Week
12	Sushma S Bhosle	One week FDP on Data Science	10/06/2019 - 16/06/2019	1 Week
13	Dr Vilas Deotare	One week online FDP on Python 3.4.3	20/04/2020 - 25/04/2020	1 Week
14	Balika Tawade	Faculty Oriented Communication Skill Upgradation Sessions (FOCUS),	27/04/2020 - 02/05/2020	1 Week
15	Balika Tawade	One week FDP on Data Science	10/06/2019 - 16/06/2019	1 Week



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**Declaration by HOD:**

I am aware that the above information provided by the department will be validated by the IQAC Committee during the visit.

Date:



*Handwritten signature of HOD*

**Head of Department**

**HEAD OF THE DEPARTMENT**

Electronics & Tele Communication  
Nutan Maharashtra Inst. of Engg. & Tech  
Talgaon Dabhade, Pune - 410 507

**Recommendations:**

Need improvement in placement  
 Take initiatives in TIE  
 Arrange industrial visit.

Dean Academics

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**PRINCIPAL**

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