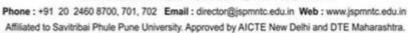


S. No. 12/2/2 and 14/9, Narhe, Tal : Haveli, Dist.: Pune - 411041



PUN Code: CEGP019070 AISHE Code: C-45874



Prof.(Dr.)T. J.Sawant D.E.E., B.E.(Electrical), Ph.D., MISTE Founder - Secretary

DTE Code: 6755

Prof.(Dr.)M.M.Sardeshmukh B.Tech (E&TC) M.Tech (E&TC),Ph.D.(Engg.) DIRECTOR

1.3.1 Institution integrates crosscutting issues relevant to Professional Ethics, Gender, Human Values, Environment and Sustainability in transacting the Curriculum and displayed on website.

Sr. No.	Documents	Digital Page No.
1.	University Curriculum Structure reflecting subjects and course	1
2.	IETE programs report	8
3.	Content of Project diary	18
4.	Women's day report	19

Savitribai Phule Pune University, Pune S.E. (Electronics / E&TC Engineering) 2019 Course (With effect from Academic Year 2020-21)

			5	Seme	ster-	111								
Course Code	Course Name		achi chem rs/W	c	1004	xamir	nation Ma		me a	ınd		Cre	dit	
		Theory	Practical	Tutorial	In-Sem	End-Sem	TW	PR	OR	Total	ТН	PR	TUT	Total
207005	Engineering Mathematics III	04	-	01	30	70	25	-	-	125	04	-	01	05
204181	Electronic Circuits	03		-	30	70		-	-	100	03	-	-	03
204182	Digital Circuits	03	-	-	30	70	-	-	-	100	03	-	-	03
204183	Electrical Circuits	03	7-	-	30	70		-	-	100	03	•	-	03
204184	Data structures	03	-	-	30	70	-	-	-	100	03	-	•	03
204185	Electronic Circuit Lab	-	02	-	-	-	87	50	-	50	•	01	-	01
204186	Digital circuits Lab		02					50		50		01		01
204187	Electrical Circuit Lab	-	02	-	-	-	25	•	-	25	-	01	-	01
204188	Data Structures Lab	-	02	-	·	-	-	-	25	25	_	01	2	01
204189	Electronic Skill Development	-	02	-	-	-	25	-	-	25	-	01	-	01

01 150 350

75

100 25 700

16

10

204190 Mandatory Audit Course 3 &

Total

22

Savitribai Phule Pune University, Pune S.E. (Electronics / E&TC Engineering) 2019 Course

(With effect from Academic Year 2020-21)

			5	Seme	ster-									
Course Code	Course Name	S	achin cheme irs/W	e	E	xamin	ation Ma		me ai	nd		Cre	dit	
		Theory	Practical	Tutorial	In-Sem	End-Sem	WT	PR	OR	Total	ТН	PR	TUT	Total
204191	Signals & Systems	03	-	01	30	70	25	-	•	125	03	-	01	04
204192	Control Systems	03			30	70		-	-	100	03	•	-	03
204193	Principles of Communication Systems	03	48	-	30	70	-			100	03	•	120	03
204194	Object Oriented Programming	03	-	-	30	70	-			100	03	20	3 = 3	03
204195	Signals & Control System Lab		02				50			50		01		01
204196	Principle of Communication Systems Lab	-	02	-			-	50	-	50	1.	01	•	01
204197	Object Oriented Programming Lab	-	02	-	-	-	*	• 3	50	50	-	01		01
204198			02				300		25	25		01		01
204199	Employability Skill Development	02	02	-	-	-	50	-	-	50	02	01	-	03
204200	Project Based Learning "	-	04				50		=	50		02		02
204201	Mandatory Audit Course 48	, -	-	-	-	-	-	-	-	-	-	-	-	-
	Total	14	14	01	120	280	175	50	75	700	14	07	01	22

Abbreviations:

In-Sem: In semester

End-sem: End semester

TH: Theory

TW: Term Work

PR: Practical

OR: Oral

TUT: Tutorial

Note: Interested students of S.E. (Electronics/E&TC) can opt any one of the audit course from the list of audit

courses prescribed by BoS (Electronics & Telecommunications Engineering)

Savitribai Phule Pune University, Pune T.E. (Electronics& Telecommunication Engineering) 2019 Course (With effect from Academic Year 2021-22)

			S	Seme	ster-	V								
			chin hemo	2	Ex	amin	ation S Mar		ie ai	nd		Cre	dit	
Course Code	Course Name	Theory	Practical	Tutorial	In-Sem	End-Sem	TW	PR	OR	Total	ТН	PR	TUT	Total
304181	Digital Communication	03	-	-	30	70	-	7. *	-	100	03	•	-	03
304182	Electromagnetic Field Theory	03	-	01	30	70	25	-	-	125	03	-	01	04
304183	Database Management	03	-	-	30	70	-	-	-	100	03	•	-	03
304184	Microcontrollers	03	-	-	30	70	-	-	-	100	03	•	•	03
304185	Elective - I	03	-	-	30	70	-	2	-	100	03	-	-	03
304186	Digital Communication		02	2075	-	-		50	0	50	2	01	-	01
304187	Database Management	-	02	-	•	-		П	25	25	•	01	-	01
304188	Microcontroller Lab	() = ()	02	-	-	-	-	50		50	-	01	-	01
304189	Elective I Lab	-	02	-	-	0	320	25	-	25	-	01	-	01
304190	Skill Development	-	02	1:-	-	-	25	-	-	25	==	01	-	01
304191A	Mandatory Audit Course	-	-	-	-	5	:=	-		•	·	-	-	-
	Tota	15	10	01	150	350	50	125	25	700	-		-	-
	•					T	otal (redit			15	05	01	21

Elective -I

- 1) Digital Signal Processing
- 2) Electronic Measurements
- 3) Fundamentals of JAVA Programming
- 4) Computer Networks

Savitribai Phule Pune University, Pune T.E. (Electronics& Telecommunication Engineering) 2019 Course (With effect from Academic Year 2021-22)

~		
Semes	ter-VI	

Course			each Schei urs/V	-		Zxami		on Scl larks	ieme	and		Cre	edit	
Code	Course Name	Theory	Practical	Tutorial	In-Sem	End-Sem	WT	PR	OR	Total	ТН	PR	TUT	Total
304192	Cellular Networks	03	-	-	30	70	-	12	-	100	03	-	-	03
304193	Project Management	03	-	-	30	70	200	323	-	100	03	-	-	03
304194	Power Devices & Circuits	03	-	17.1	30	70	-	•	-	100	03	-	-	03
304195	Elective-II	03	-		30	70	-	-	Þ	100	03	-	-	03
304196	Cellular Networks Lab	-	02	-	-	-	-	-	50	50	-	01	-	01
304197	Power Devices & Circuits Lab	-	02	-	-	۰	-	50	121	50		01		01
304198	Elective-II Lab	12	02	-	-	-	7=7	25	-	25	-	01	-	01
304199	Internship**	-	-	-	-	-	100	-	-	100	-	-	04	04
304200	Mini Project	2.5	04	-	-	-	25	-	50	75	-	02	-	02
304191 B	Mandatory Audit Course 6 &	-		-	-	-	-	-	-50	- 1	-		-	-
-	Total	12	10	00	120	280	125	75	100	700	12			
						To	otal (Credi	t		12	05	04	21

Abbreviations:

In-Sem: In semester

End-Sem: End semester

TH: Theory

TW: Term Work

PR: Practical

OR: Oral

TUT: Tutorial

Note: Students of T.E. (Electronics & Telecommunications) have to opt any one of the audit course from the list of audit courses prescribed by BoS (Electronics & Telecommunications Engineering)

Elective -II

- 1) Digital Image Processing
- 2) Sensors in Automation
- 3) Advanced JAVA Programming
- 4) Embedded Processors
- 5) Network Security

Savitribai Phule Pune University, Pune B.E. (Electronics & Telecommunication) 2019 Course (With effect from Academic Year 2022-23)

-			5	Seme	ster-	VII								
			Sch	ching eme /Wee		Exar	ninatio M	n Scl larks		and		Cr	edit	
Course Code	Course Name	Theory	Practical	Tutorial	In-Sem	End-Sem	WI	PR	a	Total	TH	PR	TUT	Total
			-	-	30	-		-	-	100	03	-	-	03
A100	Radiation & Microwave Theory	03	-	_	11,500,00		-	-	+-	100	03	-	-	03
404182	VLSI Design and Technology	03	-	-	30		-		_		03	<u> </u>	-	03
404183	Cloud Computing	03	-		30	70	-	-	-	100				03
		03	-	-	30	70	-	Ē	-	100	03	-	-	
	Elective - 3/	(1000000) (10000000)			30	70	-	-	-	100	03	-		03
404185	Elective - 4	03	-	-	30		25		50	75		02	-	02
404186	Lab Practice - 1	2	04	-	-	-	25	-	30	75				
	(RMT & Cloud Computing)	-	04	_	-	-	25	50	-	75	-	02	-	02
404187	Lab Practice - 2 (VLSI Design & Elective -3)	-	0-1							50		01		01
404198	Project Stage - I	-	02	-	-	-	50	-	-	50	-	-	_	-
404180	Mandatory Audit Course 7	-	-	-	-	-	-	-	-	-	-	-	_	-
404102	Total	15	10	-	150	350	100	50	50	700	-	-		
						To	tal Cre	edits			15	05	-	20

Elective - 3	Elective - 4
Speech Processing	1. Data Mining
2. PLC SCADA & Automation	2. Electronic Product Development
3. JAVA Script	3. Deep Learning
4. Embedded & RTOS	4. Low Power CMOS
5. Modernized IoT	5. Smart Antennas

	Mandatory Audit Course - 7
1.	Management Information System
2.	Patent Search & Analysis
3.	Knowledge Management
4.	Energy Economics & Policy
5.	Educational Leadership
6.	Human Resource Development

Savitribai Phule Pune University, Pune B.E. (Electronics & Telecommunication) 2019 Course (With effect from Academic Year 2022-23)

			S	emes	ter-`	VIII								
			Feacl Sche ours/			Exar	ninati N	on S Iark		e and		Cr	edit	
Course Code	Course Name	Theory	Practical	Tutorial	In-Sem	End-Sem	TW	6	OR	Total	HT	PR	TUT	Total
404190	Fiber Optic Communication	03	-	-	30	70	-	-	-	100	03		-	03
	Elective - 5	03	1-	-	30	70	121	-	-	100	03	-	-	03
le le	Elective - 6)	03	-	-	30	70	-	1 -	-	100	03	-	-	03
	1:-	-	-	02	-	-	50	-	-	50	•		02	02
404193	Digital Business Management	-	-	02	-	-	50	-	-	50	=	-	02	02
			02	-	-	-	25	-	50	75		01	-	01
	Fiber Optic Lab		02			-	25	50	-	75	-	01	-	01
404196	Lab Practice - 3 (Elective - 5)	-	1000000				100	-	50	150		05	-	05
404197	Project Stage - II / Total	09	10 14	04	90	210	250	50	100	700	-	-	-	-
	10121	07	14				tal Cr	edit	S		09	07	04	20

Elective - 5	Elective - 6
Biomedical Signal Processing	1. System on Chip
Blomedical Signal Processing Industrial Drives & Automation	2. Nano Electronics
Industrial Drives & Nationalist Android Development	3. Remote Sensing
Android Development Embedded System Design	4. Digital Marketing
5. Mobile Computing	5. Open Elective



Jaywant Shikshan Prasark Mandal's

JSPM NARHE TECHNICAL CAMPUS PUNE-411041 DEPARTMENT OF ELECTRONICS AND TELECOMMUNICATIONS ENGINEERING



Event Name	Industrial Visit
Centre (name)	IETE Pune
Visit Place	Giant Metrewave Radio Telescope Tata Institute of Fundamental Research Narayangaon, Junnar,Pune
Date & Time	28 February 2024 2.00 P.M
Organized By	IETE-SF JSPM Narhe Technical Campus, Narhe
Attended by	Faculty members: Prof. Mrs. N. R. Kadam Prof. Mrs. S. P. Kurlekar Prof. Mr. V .S. Tupe Along with Second and Third Year Students of E&TC Department

Report

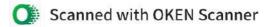
Industrial Visit by IETE-SF

"GMRT-Tata Institute of Fundamental Research

Narayangaon, Junnar, Pune " Date: 28 February 2024

Industrial Visits have always played an essential role in helping students to think outside the walls of their academic curriculum and gain knowledge about real life applications regarding their field of study. This year, IETE-SF organized an industrial visit to Giant Metrewave Radio Telescope (GMRT), Pune, which was held on 28th February 2024 (Science Day).

The main objective of this visit was that, as a part of the Electronics and Telecommunication Engineering, the students need to know practical fundamentals, Implementation, functionality, and mechanism of antennas as also to get the knowledge of the Radio Telescope, different components involved, hardware software co-design, etc.



After introduction all students were shown the big antenna and were told about how it works and were guided about its various functionalities. Fourteen of the thirty dishes are located more or less randomly in a compact central array in a region of about 1 sq. km. The remaining sixteen dishes are spread out along the 3 arms of an approximately 'Y'-shaped configuration over a much larger region, with the longest interferometric baseline of about 25 km.

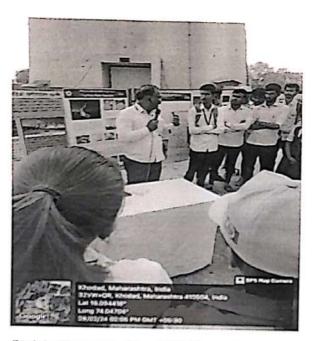
As the GMRT has a total of 30 telescopes spread over a range of 25 km, in order to collect data from different locations and combine them to generate images. A miniature model of all the GMRT telescopes was shown to the students at the beginning and an explanation regarding all the basic

details of the facility was given to the students by a technician on the grounds. He started off with an

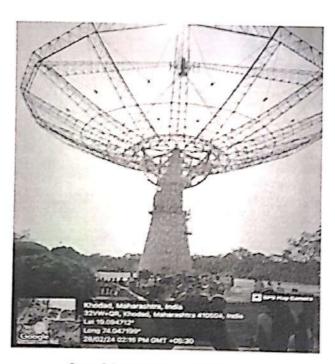
overview on what a radio telescope is, explaining the meaning of each word in 'Giant Metrewave Radio Telescope'. This was followed by a briefing on how GMRT works, from collecting information to generating a combined image in order to generate information in a comprehensible manner. The students also gained knowledge regarding the antenna rotation and elevation control process as they gained an inside access of the facility.



Students at GMRT along with faculty members



Explaination on Working of GMRT was given



One of the 30 dishes of GMRT

IETE Coordinator

HOD



Jaywant Shikshan Prasark Mandal's

JSPM NARHE TECHNICAL CAMPUS PUNE



DEPARTMENT OF ELECTRONICS AND TELECOMMUNICATIONS ENGINEERING

Organized by IETE Student Forum



Event Name	Poster pre	COSTERRIFIC: esentation competition & AMBHASHAN: roup Discussion
Centre (name)	IETE Pune	
Venue (College/Institute)	JSPM Narhe Technical Campus,Narhe Pune-411041	
Date & Time	10 th February 2024 11:00 A.M	
Important dignitaries attended	Dr. M. M. Sardeshmukh Dr. S. A. Choudhari Dr.A. S. Patil Prof.Mrs.Shruti Naik Prof.Mr.Pravin Wayal Prof.Mrs. M. P. Hajare Jury Members: Mr. Gan	(Director, JSPM NTC) (Dean Engineering, JSPM NTC) (HOD, E&TC Department) (HOD, Comp Department) (HOD, FE) (IETE Coordinator) nesh Bhosale, Mrs. Pratibha Rasa

Report on

POSTERRIFIC & SAMBHASHAN

JSPM Narhe Technical Campus, Narhe Pune Date: 10 February 2024

The IETE Students Forum organized a captivating technical event filled with innovation and knowledge on February 10, 2024. Titled "POSTERRIFIC: Poster Presentation Competition" and "SAMBHASHAN: A Group Discussion," the event showcased the talents and intellect of tech enthusiasts from various branches and years of college.



The day began with an inaugural ceremony featuring Saraswati Pujan and the felicitation of distinguished dignitaries. These dignitaries then imported valuable advice to students on the importance of event participation. Following this, everyone was escorted to the seminar hall to commence the competition.

In the "POSTERRIFIC" segment, participants unleashed their creativity through visually stunning handmade posters, exploring the realms of innovation and design. The competition encouraged descriptive presentations, pushing participants to articulate their ideas effectively.

Meanwhile, in "SAMBHASHAN," engaging group discussions tackled a range of topics including current events, business and economy, sports, technology, and social issues. Participants delved into these subjects, sharing insights and perspectives with fellow enthusiasts.

Both competitions were held in the C-313 Seminar Hall of the E&TC Department, commencing at 11:00 AM. The event attracted a diverse pool of participants from different departments and academic years (from FE to BE)

Exciting Prizes were awarded to the top performers, recognizing their outstanding contributions to the competitions. Additionally, all the participants received e-certificates in recognition of their participation and effort.

Overall, the Technical Event provided a platform for students to showcase their talents, engage in meaningful discussions, and foster a spirit of innovation and collaboration within the college community.



Participants with posters



Insights of Group Discussion competition



Jury Members along with the Participants







ISF Id Cards and Badges Distribution

IETE Coordinator

ROD



Jaywant Shikshan Prasark Mandal's

JSPM NARHE TECHNICAL CAMPUS PUNE



DEPARTMENT OF ELECTRONICS AND TELECOMMUNICATIONS ENGINEERING

Event Name	Institute Visit	
Visit Place	Indian Institute of Science Education and Research, Pashan ,PUNE	
Date & Time	20 January 2024 10:00 A.M	
Organized By	JSPM Narhe Technical Campus,Narhe	
Attended by	Faculty members: Prof. Mrs. S. P. Kurlekar Prof. Mrs. M. P. Hajare	
	Along with Students of E&TC, Computer, Mechanical and Civil department	

Report

Institute Visit at

Indian Institute of Science Education and Research, Pune

India Science Festival

Date: 20 January 2024

Visiting institutes can provide valuable insights into various fields of engineering, research facilities, academic programs, and career opportunities. During the visit, students can explore campus facilities, labs, interact with faculty, and learn about ongoing research projects. Additionally, attending information sessions, workshops, or seminars can offer deeper insights into the institute's programs and opportunities for students. This year college organized a institute visit to HSER as Indian Science Festival 2024 was held there on 20 January 2024.

The Indian Institutes of Science Education and Research (HSER) during the Indian Science Festival can be an enriching experience for engineering students. During the visit, students can participate in various activities such as interactive science exhibitions, workshops, lectures by renowned scientists, and demonstrations of cutting-edge research projects. Additionally, students may have the opportunity to interact with faculty members and



researchers, learn about the institute's academic programs, research facilities, and career opportunities in scientific fields.

Various events were organized. 60+ Talk Show from scientists at MIT, Havard, IITs, IISc and more were held at the festival. 20+ exhibits which included driverless cars, prosthetics, robot showcase and many models related to new technology. Prizes were handed to games and competition winners.

The Indian Science Festival included many different events at different grounds at IISER. It had talk shows, panel discussion, fireside chat and book talks, debate, keynote session, performance, games and competitions. It included discussion on topics such as Nuclear Science, Chandrayaan-3, AI for social good and many more. Competitions included Tangram Competition, Inquisitive Science Quiz, Science Pictionary.



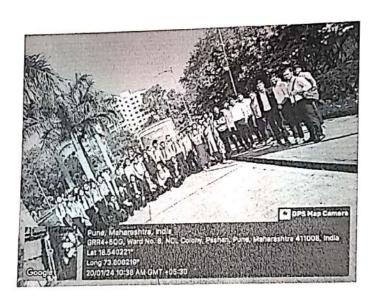
Students at IISER along with faculty members



Explanation on Radio Astrophysics



Students at IISER



Industrial Visit Coordinator

HOD



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JSPM Narhe Technical Campus Rajarshi Shahu School of Engineering & Research, Narhe



Department of Electronics & Telecommunication Engineering

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Jayawant Shikshan Prasarak Mandal's JSPM Narhe Technical Campus

S. No. 12/2/2 and 14/9, Narhe, Tal : Haveli, Dist.: Pune - 411041

Phone: +91 20 2460 8700, 701, 702 Email: director@jspmntc.edu.in Web: www.jspmntc.edu.in Affiliated to Sevitribal Phule Pune University. Approved by AICTE New Delhi and DTE Maharashtra.

DTE Code: 6755 PUN Code: CEGP019070 AISHE Code: C-45874

Prof.(Dr.)T. J.Sawant D.E.E., B.E.(Electrical),Ph.D., MISTE Founder - Secretary



Prof.(Dr.) S.A.Choudhari B.E.(CWM),M.E.(WRE) Ph.D.(Engg.) DIRECTOR

Date: 09/03/23

Event Summary Report

Event: Workshop/Conference/Seminar/Expert Lecture/EVENT: SANSPARSH Department of: - Institutional Event

- > Name of Event: INTERNATIONAL WOMEN'S DAY
- > Date & Time of Event: 08/03/23 at 02:00P.M
- > Venue: BUILDING C SEMINAR HALL C- 313
- > Objectives of Event:
- 1. Sansparsh- To actively encourage women to participate in identifying their individuality.
- 2. To appreciate herself for the quality work she is being doing throughout her life span.
- 3. Mental & Physical Fitness.
- > Outcome of Event:
- 1. Sansparsh itself explains the Story of an Empowered Women.
- 2. Quality time for SWOTE Analysis.
- 3. Health and Hygiene Awareness
- > Number of Participants: 45
- > Expert details:
 - 1. Ms. A. D. Halwe (Art of Living Teacher) organized an lively session on "Mental & Physical Peace through Yoga"
 - 2. Ms. P. M. Rasal (MBA- Human Resources) conducted a seminar on "Value of Work Management"
- > Summary of Feedback:

All the participates enjoyed and felt very happy and empowered.

Documents Maintained: Proposal/Budget /Poster/Invitation letter/Thanks letter/ Agenda/ Attendance Sheet/Feedback/ Certificate/Photographs with caption

Coordinator/Convener Ms. Aboli Halve

Dr. S. A. Choudhari



Jayawant Shikshan Prasarak Mandal's JSPM Narhe Technical Campus

S. No. 12/2/2 and 14/9, Narhe, Tal : Haveli, Dist.: Pune - 411041

Phone: +91 20 2460 8700, 701, 702 Email: director@jspmntc.edu.in Web: www.jspmntc.edu.in Affiliated to Savitribai Phule Pune University. Approved by AICTE New Delhi and DTE Maharashtra.

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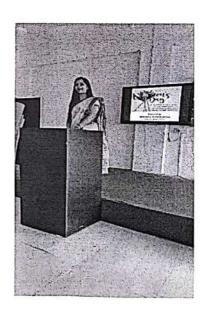
Prof.(Dr.) S.A.Choudhari B.E.(CWM),M.E.(WRE) Ph.D.(Engg.) DIRECTOR



Women's Day Celebration in JSPM Narhe Technical Campus



Ms. A. D. Halwe (Art of Living Teacher)



Ms. P. M. Rasal (MBA- Human Resources)

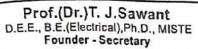


Jayawant Shikshan Prasarak Mandal's JSPM Narhe Technical Campus

S. No. 12/2/2 and 14/9, Narhe, Tal : Havell, Dist.: Pune – 411041

Phone: +91 20 2460 8700, 701, 702 Email: director@jspmntc.edu.in Web: www.jspmntc.edu.in Affiliated to Savitribal Phule Pune University. Approved by AICTE New Delhi and DTE Maharashtra.

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Prof.(Dr.) S.A.Choudhari B.E.(CWM),M.E.(WRE) Ph.D.(Engg.) DIRECTOR



Ms. R. A. Yadav taking session on Health and Hygiene



Glimpse of Activity

Coordinator/Convener Ms. Aboli Halve

Dr. S. A. Choudhari