

	Nutan Maharashtra Vidya Prasarak Mandal's NUTAN MAHARASHTRA INSTITUTE OF ENGINEERING & TECHNOLOGY	 ESTD : 1906
Approved by AICTE	Accredited by NAAC & NBA	Affiliated to SPPU
"Samarth Vidya Sankul", Vishnupuri, Telegaon Dabhade, Pune - 410507		
Tel. No. 02114 – 231666	E-mail: nmiettalegaon@gmail.com	Web : www.nmiet.edu.in

1.1.1.C Continuous Internal Assessment

The index of documents along with the case study of department of Electronics and Telecommunication Engineering is elaborated below.

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Nutan Maharashtra Vidya Prasarak Mandal's
**NUTAN MAHARASHTRA INSTITUTE
OF ENGINEERING & TECHNOLOGY**



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"Samarth Vidya Sankul", Vishnupuri, Telegaon Dabhade, Pune - 410507

Tel. No. 02114 – 231666

E-mail: nmietalegaon@gmail.com

Web : www.nmiet.edu.in



Nutan Maharashtra Vidya Prasarak Mandal's
Nutan Maharashtra Inst. of Engg. & Tech.

Record No.: ACDM/R/046

Revision: 00

Date: 15/06/2016

Time Table- Unit Test I

Department: E&TC

Academic Year: 2022 - 2023

Semester : I

Date : 27/09/2022

All the staff of **TE/BE E&TC Department** are hereby informed that Unit Test **I** will be conducted from **12/09/2022 to 16/09/2022** as per the following time table.

Date	Time	Year & Div	Subject	Seating Arrangement (Room No. & Roll No.)	Supervisor Name	Sign of staff
12/09/22	10:00 AM – 11:00 AM	TE E&TC	DC	207- TE 1 to 35 209- TE- 36 to 75	207- Prof. Bhagyashri Warhade 209-Prof. Nutan Patil	
	10:00 AM – 11:00 AM	BE E&TC	RMT	207- BE- 1 to 25 209- BE- 26 to 49	207- Prof. Mahesh Chinchole 209 Prof. Neeta Karhadkar	
13/09/22	10:00 AM – 11:00 AM	TE E&TC	EMFT	207- TE 1 to 35 209- TE- 31 to 75	207-Prof. Sagar Joshi 209- Prof. Gayatri Ambadkar	
	10:00 AM – 11:00 AM	BE E&TC	VLSI	207- BE- 1 to 25 209- BE- 26 to 49	207- Prof. Kiran Jadhav 209- Prof. Mahesh Chinchole	
14/09/22	10:00 AM – 11:00 AM	TE E&TC	Database Management	207- TE 1 to 35 209- TE- 36 to 75	207-Prof. Nutan Patil 209- Prof. Kiran Jadhav	
	10:00 AM – 11:00 AM	BE E&TC	Cloud Computing	207- BE- 1 to 25 209- BE- 26 to 49	209- Prof. Gayatri Ambadkar 209 - Prof. Neeta Karhadkar	
15/09/22	10:00 AM – 11:00 AM	TE E&TC	MC	207- TE 1 to 35 209- TE- 36 to 75	209- Prof. Bhagyashri Warhade 207-Prof. Nutan Patil	
	10:00 AM – 11:00 AM	BE E&TC	ELV-3 Modernized IoT	207- BE- 1 to 25 209- BE- 26 to 49	207-Prof. Sagar Joshi 209- Prof. Kiran Jadhav	



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16/09/22	10:00 AM – 11:00 AM	TE E&TC	ELV-1 (CN)	207- TE 1 to 35 209- TE- 36 to 75	209-Prof. Sagar Joshi 207- Prof. Gayatri Ambadkar	<i>GM</i> <i>me</i>
	10:00 AM – 11:00 AM	BE E&TC	ELV-4 EPD / Data Mining	207- BE- 1 to 25 209- BE- 26 to 49	207- Prof. Bhagyashri Warhade 209 - Prof. Neeta Karnhadkar	<i>W. Karnhadkar</i> <i>W. Karnhadkar</i>

Note: - Performance of Unit Test I is considered for **Term Work Assessment**. Absent & failed students have to appear for remedial lectures & test for their performance improvement.

HS
 Dept. Exam Co-ordinator
 (Prof. Harsha Sarode)

V. Deotare
 H.O.D. (E&TC)
 (Dr. Vilas Deotare)



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Nutan Maharashtra Inst. of Engg. & Tech.

Record No.: ACDM/R/046

Revision: 00

Date: 15/06/2016

Unit Test I . Syllabus Notice

Department: E&TC


Academic Year: 2022- 2023

Date : 27 / 08 /2022


All the students of **TE & BE** of **E&TC Department** are hereby informed that syllabus for **Unit Test 1** conducted from **12/09/2022 to 16/09/2022** will be as follow.

Class	Syllabus	Marks
TE	1 st & ,2 nd Unit	30
BE	1 st & ,2 nd Unit	30


Note: - Performance of Unit Test I is considered for **Term Work Assessment**. Failed or absent students will have to appear for Remedial test to improve their performance.


Dept. Exam Co-ordinator
(Prof. Harsha Sarode)




H.O.D. (E&TC)
(Dr. Vilas V. Deotare)

	Nutan Maharashtra Vidya Prasarak Mandal's NUTAN MAHARASHTRA INSTITUTE OF ENGINEERING & TECHNOLOGY	
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	Nutan Maharashtra Vidya Prasarak Mandal's Nutan Maharashtra Inst. of Engg. & Tech. Department of E&TC Engineering Unit Test	Record No.: ACDM/R/045
		Revision: 00
		Date: 15.6.2016

Academic Year: 2022-23 (Semester I)

MAX.MARKS- 30

YEAR/ SEM- B. E. Sem-VII

SUB- Radiation and Microwave Techniques (404183)

TIME- 1 HR

Instructions:

1. Assume suitable data, if necessary
2. Draw Neat & Clean Diagram
3. Attempt Question no 1 or 2 and 3 or 4

CO	Blooms Level (1-6)	QN	Questions	Marks	Unit No.
1	L3	Q1A)	Determine the electrical field intensity at a distance of 10 KM from an antenna having directive gain of 5 dB and radiating a total power of 20KW.	4	1
1	L3	Q1B)	An antenna has radiation resistance of 72 ohm, a loss resistance of 8 ohm, power gain of 12dB. Determine antenna efficiency and its directivity.	6	1
1	L2	Q1C)	What is polarization of wave? Describe in detail Linear, Elliptical and Circular Polarization	5	1
1	L2	Q2A)	Difference between Radiation Power Density and Radiation Intensity	4	1
1	L2	Q2B)	Explain the antenna radiation mechanism in detail.	6	1
1	L2	Q2C)	Explain the field regions surrounded by an antenna.	5	1
2	L3	Q3A)	A rectangular waveguide is filled by dielectric material of $\epsilon_r = 9$ and has inside dimensions of 7×3.5 cm. It operates in the dominant TE ₁₀ mode. (i) Determine the cut off frequency. (ii) Find the phase velocity in the guide at a frequency of 2GHz. (iii) Find the guided wavelength at the same frequency.	8	2
2	L2	Q3B)	Describe the cavity resonator and rectangular cavity resonator in detail.	7	2
2	L2	Q4 A)	Explain the structure of strip lines and it's application.	8	2
2	L3	Q4 B)	An air filled rectangular waveguide with dimensions 2 cm x 1 cm internally has a 10 GHz signal propagated in it. Calculate the cut off frequency, the cut-off wavelength, the guide wavelength, the group and phase velocities and the characteristic wave impedance for (a) the TE ₁₀ mode and (b) TM ₁₁ mode.	7	2





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PCET's Nutan Maharashtra Vidya Prasarak Mandal's

Record No.: ACDM/R/047

NUTAN MAHARASHTRA INSTITUTE OF ENGINEERING &
TECHNOLOGY, PUNE

Revision: 00

Date: 15/06/2016

Attendance and Assessment Record

Department: E&TC

Academic Year: 2022-2023

Semester: I

Year & Div: BE

Subject: Radiation & Microwave
Techniques

Max. Marks: 30

Date of Exam: 12/09/22

Examination: Pre-Insem (Unit Test)

Sr No.	Roll No.	Name of Student	Sign	Marks obtained
1	BEN01	AMANGE AMIT TUKARAM		24
2	BEN02	BAGATE VEDANT VITTHAL		26
3	BEN03	BHANDARI SAIRAJ KUMAR		23
4	BEN04	BOKKA PAWAN KUMAR SRINIWAS		23
5	BEN05	CHAUDHARI CHETAN PRAKASH		12
6	BEN06	DEDE SAGAR DADASAHEB		25
7	BEN07	DHORE PRARTHANA VISHNU		12
8	BEN08	DHUMAL ABHIJEET ARUN		26
9	BEN09	FURDE VAIBHAV AABA		18
10	BEN10	GAIKWAD SAGAR ARUN		21
11	BEN11	KALOKHE AKSHADA UTTAM		26
12	BEN12	KUMAR ADITYA		25
13	BEN13	KUMBHAR ABHISHEK KUMAR		24
14	BEN14	MATE SEJAL CHANDRASHEKHAR		23
15	BEN15	NAIK PRATHAMESH SUDHAKAR		25
16	BEN16	PATIL SUJAL MAHESH		13
17	BEN17	PAWAR MRUNMAYEE SAMPAT		20
18	BEN18	SADULE PRADIP ASHOK		15
19	BEN19	SALGAR GAURI UMAKANT		18
20	BEN20	SANDBHOR YOGESH PRAKASH		16
21	BEN21	SAWANT HARSHADA SANDIP		21
22	BEN22	SINGH NAMRATA UDHAM		24
23	BEN23	TOTE VARAD VIDYANAND		21
24	BEN24	WAGH ANURAG RAJU		23
25	BEN25	BHOITE PRANITA DEEPAK		19
26	BEN26	DUKARE SAURABH RAJABHAU		17
27	BEN27	KARPE DISHA ANIL		26





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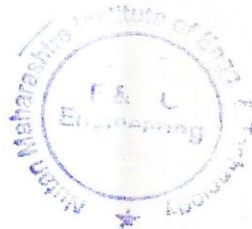
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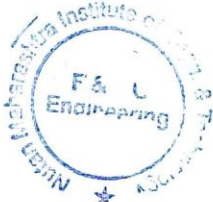

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Web : www.nmiet.edu.in


28	BEN28	KUNDU SAGAR JANARDAN	Sagar	15	SL
29	BEN29	PATIL ASHUTOSH ANIL	Patil	21	
30	BEN30	PATIL PANKAJ SANDESH	Patil	20	
31	BEN31	PATIL SANSKRUTI HEMANT	Sanskriti	22	
32	BEN32	PAWAR SHREERAM RAJU	Pawar	24	
33	BEN33	SAWANT RUTUJA RAMESH	Sawant	20	
34	BEN34	SHINDE SAKSHI NARENDRA	NSS	20	
35	BEN35	ZORE SEEMA ANAND	ZSA	12	SL
36	BEN36	KALEKAR OMKAR JEETENDRA	KOT	25	
37	BEN37	SHETE OMKAR DILIP	SCP	17	SL
38	BEN38	BHOR OM SAKHARAM	BOS	27	
39	BEN39	KOKATE ONKAR SHAHAJI	KOS	21	
40	BEN40	GORE SAKSHI YUVRAJ	GSY	19	
41	BEN41	ARAGADE USHA DNYANESHWAR	Aragade	20	
42	BEN42	DESHMUKH NIKITA NAMDEV	Nikita	27	
43	BEN43	KALAGATE RUCHIKA SHASHIKANT	Shashikant	20	
44	BEN44	MAHAJAN SAKSHI SANJAY	Sakshy	18	
45	BEN45	ROZARIO CHELSEA JOSEPH	Rozario	13	SL
46	BEN46	SHERKHANE POOJA DILIP	Pooja	15	
Total No. of Students: 46		Total No. of Students Present: 46	Total No. of Students Absent: 00		
Supervisor's Name & Signature:		Ajay Bhuske S.S.			
Total No. of Students Pass:	Pass %: 100		Subject Teacher Name & Signature: S.S.		
Total No. of Students fail:	Fail %: 0				



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	Nutan Maharashtra Vidya Prasarak Mandal's Nutan Maharashtra Inst. of Engg. & Tech.	Record No.: ACDM/R/046	
		Revision: 00	
		Date: 15/06/2016	
Time Table- Prelim Exam			
Department: E&TC	Academic Year: 2022 - 2023	Semester : I Date : 29/11/2022	
<p>All the students of TE & BE of E&TC Department are hereby informed that Prelim Exam of 70 marks on 4 units will be conducted from 01/12/2022 to 03/12/2022 as per the following time table.</p>			
Date	Time	Year & Div	Subject
01/12/22	9:30 AM – 12:00 PM	TE E&TC	DC
	9:30 AM – 12:00 PM	BE E&TC	RMT
01/12/22	1:00 PM – 3:30 PM	TE E&TC	EMFT
	1:00 PM – 3:30 PM	BE E&TC	VLSI
02/12/22	9:30 AM – 12:00 PM	TE E&TC	Database Management
	9:30 AM – 12:00 PM	BE E&TC	Cloud Computing
02/12/22	1:00 PM – 3:30 PM	TE E&TC	MC
	1:00 PM – 3:30 PM	BE E&TC	ELV-3 Modernized IoT
03/12/22	9:30 AM – 12:00 PM	TE E&TC	ELV-1 (CN)
	9:30 AM – 12:00 PM	BE E&TC	ELV-4 EPD / Data Mining
<p>Note: - Performance of Prelim Exam is considered for Term Work Assessment.</p>			
 Dept. Exam Co-ordinator (Prof. Harsha Sarode)		 H.O.D. (E&TC) (Dr. Sagar Joshi)	

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	Nutan Maharashtra Vidya Prasarak Mandal's Nutan Maharashtra Inst. of Engg. & Tech. Department of E&TC Engineering PRELIM EXAM	Record No.: ACDM/R/045
		Revision: 00
		Date: 15.6.2016

Academic Year: 2022-23 (Semester I)

YEAR/ SEM- B. E. Sem.-VII

SUB- Radiation and Microwave Techniques (404183)

TIME-2 Hour 30 Minutes

MAX.MARKS- 70

Instructions:

1. Assume suitable data, if necessary
2. Draw Neat & Clean Diagram
3. Attempt Question no 1 or 2 , 3 or 4 , 5 or 6 and 7 or 8.

CO	Blooms Level (1-6)	QN	Questions	Marks	Unit No.
3	L3	Q1A)	Determine the properties of S matrix.	6	3
3	L3	Q1B)	Why E.H. plane is called as magic Tee? With the help of diagram explain the Magic Tee used to measure the impedance. Also describe its applications	8	3
3	L2	Q1C)	Describe the Faraday's Rotation Principle	4	3
3	L2	Q2A)	With the help of schematic, explain the working of principle of a ferrite isolator.	7	3
3	L2,L4	Q2B)	Describe the working principle of circulator with the help of Magic Tee. Also explain the use of circulator as an isolator and as a duplexer.	7	3
3	L2	Q2C)	Explain the construction and working of gyrator.	4	3
4	L4	Q3A)	With the help of Applegate diagram illustrate the bunching process of two cavity klystron amplifier and derive the bunching parameter also.	10	4
4	L2	Q3B)	Distinguish between TWT and Klystron Tube with suitable diagram.	8	4
4	L2	Q4 A)	Define Velocity modulation and how velocity modulation changes to current density modulation in Klystron Amplifier:	9	4
4	L3	Q4 B)	Describe the Construction, operation and advantage of TWT Amplifier.	9	4
5	L2, L4	Q5 A)	Draw equivalent circuit of varactor diode. Write in detail its construction and operation.	8	5
5	L4	Q5 B)	Describe in detail the working of a parameter amplifier and explain its applications.	9	5
5	L5	Q6 A)	Distinguish between Tunnel Diode and PIN Diode with suitable diagram.	8	5
5	L5	Q6 B)	Compare IMPATT, TRAPATT and BARITT diodes.	9	5
6	L4	Q7 A)	Derive the Radar range equation.	7	6
6	L3	Q7 B)	Describe in detail techniques used for VSWR measurement.	5	6
6	L3	Q7 C)	Describe any three medical applications of microwave.	5	6
6	L3	Q8 A)	Draw the block diagram of a typical microwave bench setup and label all the parts. What are the parameters that can be measured using the setup?	7	6
6	L5	Q8 B)	Write a short note on microwave power measurement.	5	6
6	L4	Q8 C)	Illustrate with neat block diagram power measurement using Bolometer and Calorimeter,	5	6



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Record No.: ACDM/R/047

NUTAN MAHARASHTRA INSTITUTE OF ENGINEERING &
TECHNOLOGY, PUNE

Revision: 00

Date: 15/06/2016

Attendance and Assessment Record

Department: E&TC

Academic Year: 2022-2023

Semester: I

Year & Div: BE

Subject: Radiation & Microwave

Max. Marks: 70

Date of Exam: 01/07/22

Examination: Pre-Endsem (Prelim) Techniques

Sr No.	Roll No.	Name of Student	Sign	Marks obtained
1	BEN01	AMANGE AMIT TUKARAM	<i>Ami</i>	40
2	BEN02	BAGATE VEDANT VITTHAL	<i>Vedant</i>	41
3	BEN03	BHANDARI SAIRAJ KUMAR	<i>Sairaj</i>	36
4	BEN04	BOKKA PAWAN KUMAR SRINIWAS	<i>Pan</i>	43
5	BEN05	CHAUDHARI CHETAN PRAKASH	<i>Chetan</i>	40
6	BEN06	DEDE SAGAR DADASAHEB	<i>DeDe</i>	42
7	BEN07	DHORE PRARTHANA VISHNU	<i>Dhore</i>	40
8	BEN08	DHUMAL ABHIJEET ARUN	<i>D.A.Bhi</i>	34
9	BEN09	FURDE VAIBHAV AABA	<i>FVA</i>	38
10	BEN10	GAIKWAD SAGAR ARUN	<i>ARUN</i>	39
11	BEN11	KALOKHE AKSHADA UTTAM	<i>U.Akshada</i>	33
12	BEN12	KUMAR ADITYA	<i>K.ad</i>	38
13	BEN13	KUMBHAR ABHISHEK KUMAR	<i>Abhishek</i>	35
14	BEN14	MATE SEJAL CHANDRASHEKHAR	<i>Sejal</i>	33
15	BEN15	NAIK PRATHAMESH SUDHAKAR	<i>Prathamesh</i>	33
16	BEN16	PATIL SUJAL MAHESH	<i>Patil Sujal</i>	36
17	BEN17	PAWAR MRUNMAYEE SAMPAT	<i>Pawar</i>	39
18	BEN18	SADULE PRADIP ASHOK	<i>Pradip</i>	35
19	BEN19	SALGAR GAURI UMAKANT	<i>Salgar</i>	39
20	BEN20	SANDBHOR YOGESH PRAKASH	<i>Yogesh</i>	39
21	BEN21	SAWANT HARSHADA SANDIP	<i>Sawant</i>	46
22	BEN22	SINGH NAMRATA UDHAM	<i>Namrata</i>	48
23	BEN23	TOTE VARAD VIDYANAND	<i>Varad</i>	46
24	BEN24	WAGH ANURAG RAJU	<i>Wagh</i>	47
25	BEN25	BHOITE PRANITA DEEPAK	<i>Pranita</i>	44
26	BEN26	DUKARE SAURABH RAJABHAU	<i>Saurabh</i>	43
27	BEN27	KARPE DISHA ANIL	<i>Karpe</i>	46





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28	BEN28	KUNDU SAGAR JANARDAN	<i>Kundu</i>	40
29	BEN29	PATIL ASHUTOSH ANIL	<i>Patil</i>	41
30	BEN30	PATIL PANKAJ SANDESH	<i>Patil</i>	54
31	BEN31	PATIL SANSKRUTI HEMANT	<i>Patil</i>	48
32	BEN32	PAWAR SHREERAM RAJU	<i>Pawar</i>	45
33	BEN33	SAWANT RUTUJA RAMESH	<i>Sawant</i>	46
34	BEN34	SHINDE SAKSHI NARENDRA	<i>Shinde</i>	47
35	BEN35	ZORE SEEMA ANAND	<i>Zore</i>	39
36	BEN36	KALEKAR OMKAR JEETENDRA	<i>Kalekar</i>	43
37	BEN37	SHETE OMKAR DILIP	<i>Shete</i>	41
38	BEN38	BHOR OM SAKHARAM	<i>Bhor</i>	44
39	BEN39	KOKATE ONKAR SHAHAJI	<i>Kokate</i>	44
40	BEN40	GORE SAKSHI YUVRAJ	<i>Gore</i>	43
41	BEN41	ARAGADE USHA DNYANESHWAR	<i>Ushade</i>	46
42	BEN42	DESHMUKH NIKITA NAMDEV	<i>Nikite</i>	44
43	BEN43	KALAGATE RUCHIKA SHASHIKANT	<i>Ruchika</i>	43
44	BEN44	MAHAJAN SAKSHI SANJAY	<i>Sakshima</i>	41
45	BEN45	ROZARIO CHELSEA JOSEPH	<i>Chelsea</i>	40
46	BEN46	SHERKHANE POOJA DILIP	<i>Poojadilip</i>	36
Total No. of Students: 46		Total No. of Students Present: 46	Total No. of Students Absent: 0	
Supervisor's Name & Signature: <i>[Signature]</i>				
Total No. of Students Pass:		Pass %: 100	Subject Teacher Name & Signature: <i>[Signature]</i>	
Total No. of Students fail:		Fail %: 0		



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NUTAN MAHARASHTRA INSTITUTE OF ENGINEERING AND TECHNOLOGY		
Under Administrative Support - Pimpri Chinchwad Education Trust		
Approved by AICTE	Accredited by NAAC	Affiliated to SPPU
"Samarth Vidya Sankul", Vishnupuri, Telegaon Dabhade, Taluka Maval, District Pune - 410507 Tel. No. 02114 – 231666, E-mail : nmiettalegaon@gmail.com Web : www.nmiet.edu.in		
Academic Year:-2022-23	Rubrics for assignment	Term-1

Department: - E&TC Engg.

At the start of semester, course coordinator prepares assignment for respective course considering CO's which are made according to the Bloom's Taxonomy Levels. While preparing the assignment, the course coordinator considers various aspects of teaching learning process like formulating and analysing the problems, use of modern tools, complex engineering problems etc. The course coordinator prepares assessment structure for assignments and conveys the same to students. The course coordinator prepares the assignment analysis and CO attainment.

Assignments are evaluated by using the assessment structure as shown in Table below.

Sr. No.	Parameters	Mark	5 Marks	4 Marks	3 Marks	2 Marks	1 Marks	0 Marks
1	Solution	05 Marks	Students Solved all the questions accurately with unique solution	Students Solved all the questions moderately with unique solution	Students solved all the questions but no unique solution	Students solved all the questions with the help of other members.	Students copied the answers of questions	Students did not solve the questions.
2	Punctuality	02 Marks				Students completed Assignment within time.	Students completed Assignment after a week.	Students completed Assignment at the end of Semester.
3	Understanding	03 Marks			Student answered all questions with all correct answers, shows full understanding of topic.	Student answered all questions with few correct answers, shows good understanding of topic.	Student answered few questions, shows partial understanding of topic.	Students did not answer any questions, shows no understanding of topic.
Total		10 Marks						

