Guru Nanak Educational Society's



Department of Applied Sciences and Humanities Engineering

Course Information Sheet

Name of the Program: Department of Applied Sciences & Humanities Engineering										
Course Code: BSE 1 – 2T	Course Name: Engineering Physics Semester/ Year: 1 st /1 st									
Prerequisite Courses:										
Course Objectives:	After the completion of this course, students should be able to:									
Course Objectives:	 CO 1: Apply principles of optics for meas Engineering Problems. CO 2: Develop understanding of phenome Engineering field and apply it for various CO 3: Understand the recent trends and ac know how it is implemented in applicatio CO 4: Explain the basic concepts to analys semiconductor devices. 	urement of various complex enon of acoustics in various applications. dvances in technologies and ns. ze and design a wide range of								
	knowledge of atomic systems.	incar problems and enhance								
	CO 6: Understand the method of synthesis the physical properties of nano materials be able to understand their technological	s of nano-particles and study and superconductors and also applications.								

Guru Nanak Educational Society's



GURU NANAK INSTITUTE OF ENGINEERING & TECHNOLOGY



APPROVED BY AICTE, DTE & AFFILIATED TO RTM NAGPUR UNIVERSITY, NAGPUR

Dahegaon, Opp. IOC Petrol Pump, Kalmeshwar Road, Nagpur – 441501 Ph. 07118-661400 Website: <u>www.gniet.ac.in</u> Email: gnietnagpur@gmail.com

Course Outcome:

CO	Course Outcome Statements
CO-1	Apply principles of optics for measurement of various complex Engineering Problems.
CO-2	Develop understanding of phenomenon of acoustics in various Engineering field and apply it for various applications.
CO-3	Understand the recent trends and advances in technologies and know how it is implemented in applications.
CO-4	Explain the basic concepts to analyze and design a wide range of semiconductor devices.
CO-5	Analyze and solve quantum mechanical problems and enhance knowledge of atomic systems.
CO-6	Understand the method of synthesis of nano-particles and study the physical properties of nano materials and superconductors and also be able to understand their technological applications.

CO-PO/PSO Mapping

СО	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12
CO-1	2	-	-	-	-	-	-	-	-	-	-	0
CO-2	3	1	-	-	-	-	-	-	-	-	-	0
CO-3	2	-	-	-	-	-	-	-	-	-	-	0
CO-4	2	-	-	-	-	-	-	-	-	-	-	0
CO-5	3	-	-	-	-	-	-	-	-	-	-	0
CO-6	2	1	-	-	-	-	-	-	-	-	-	0
Avg PO	2.3	1.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00

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CO-PO & PSO Mapping Justification:

CO-PO Mapping	Level	Justification
CO1-PO1	2	Student will be able to apply the knowledge of mathematics, science, engineering fundamentals, and an engineering specialization to the solution of complex engineering problems.
CO1-PO2	1	Student will be able to Identify, formulate, review research literature, and analyze complex engineering problems reaching substantiated conclusions using first principles of mathematics, natural sciences, and engineering sciences.
CO2-PO1	3	Student will be able to apply the knowledge of mathematics, science, engineering fundamentals, and an engineering specialization to the solution of complex engineering problems.
CO3-PO1	2	Student will be able to apply the knowledge of mathematics, science, engineering fundamentals, and an engineering specialization to the solution of complex engineering problems.
CO4-PO1	2	Student will be able to apply the knowledge of mathematics, science, engineering fundamentals, and an engineering specialization to the solution of complex engineering problems.
CO5-PO1	3	Student will be able to apply the knowledge of mathematics, science, engineering fundamentals, and an engineering specialization to the solution of complex engineering problems.
CO6-PO1	2	Student will be able to apply the knowledge of mathematics, science, engineering fundamentals, and an engineering specialization to the solution of complex engineering problems.
CO6-PO2	1	Student will be able to Identify, formulate, review research literature, and analyze complex engineering problems reaching substantiated conclusions using first principles of mathematics, natural sciences, and engineering sciences.

Signature of Faculty

PAC- Auditor

Head of the Department

NAAC

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SUMIT WASUDEO BHOYAR 5 6 5 6 5 5 9 11 46 SURAJ VIJAYRAO LEKURWALE 5 5 5 6 6 5 5 9 11 42 VILAS DHUPLAL MANDE 5 4 5 6 6 5 4 10 12 43 VILAS DHUPLAL MAHURE 5 4 4 6 4 5 4 10 12 46 WILAS DHUPLAL MAHURE 4 5 4 6 5 6 5 9 11 42 WILAS DHUPLAL MAHURE 5 4 4 6 5 6 5 9 11 42 WILAS DHUPLAL MAHAD MUMTAZ NAZEER ALI 4 5 5 5 5 9 11 42 Total No. Of Student 56 </td <td></td> <td></td> <td>SHUBHAM RAMCHANDRA MATHURKAR</td> <td>5</td> <td>6</td> <td>5</td> <td>6</td> <td>6</td> <td>4</td> <td>5</td> <td>4</td> <td>10</td> <td>12</td> <td>42</td>			SHUBHAM RAMCHANDRA MATHURKAR	5	6	5	6	6	4	5	4	10	12	42		
SURA / UJAYRAO LEKURWALE 5 5 5 6 6 5 5 9 11 42 VAIB HAV DHAONDU MANTKAR 5 4 5 6 5 4 10 12 43 VII.AS DHUPLAL MAHURE 5 4 4 4 6 5 6 5 9 11 42 WIX.AS DHUPLAL MAHURE 4 5 4 6 5 6 5 9 11 42 WAGA AHMAD MUMTAZ NAZER ALI 4 5 4 5 5 5 5 9 112 43 Total No. Of Student 56			SUMIT WASUDEO BHOYAR	5	6	5	6	5	5	5	5	9	11	46		
VABRAV DHAANDU MANTKAR 5 4 5 4 10 12 43 VILABRAV DHAANDU MANTKAR 5 4 5 4 10 12 43 VILABRAV DHAANDU MANTKAR 5 4 6 5 4 10 12 43 VILABRAV DHAANDU MANTKAR 5 4 6 5 6 5 5 9 11 42 WADAR AHMAD MUMTAZ NAZEER ALI 4 5 4 5 5 5 5 9 12 43 Total No. Of Student 56 43 2 2173913 2 2173913 2 2173913 2 2 2 2 3 3 3 3 3 3 3 3 2 2 2173913 2 2 2 2 2 3 2 </td <td></td> <td></td> <td>SURAJ VIJAYRAO LEKURWALE</td> <td>5</td> <td>5</td> <td>5</td> <td>5</td> <td>6</td> <td>6</td> <td>5</td> <td>5</td> <td>9</td> <td>11</td> <td>42</td>			SURAJ VIJAYRAO LEKURWALE	5	5	5	5	6	6	5	5	9	11	42		
Image: Number of Students SadarCke 3 4 5 4 6 4 6 5 5 9 112 44 Image: Note Student Studen			VAIBHAV DHAONDU MAMTKAR	5	4	5	6	5	4	5	4	10	12	43		
Image: Name of Student above Threshold 1 5 1 6 5 5 5 9 12 43 Total No. Of Student 56 <t< td=""><td></td><td></td><td>VILAS DHUFLAL MAHORE</td><td>4</td><td>4</td><td>4</td><td>6</td><td>5</td><td>6</td><td>5</td><td>5</td><td>9</td><td>11</td><td>40</td></t<>			VILAS DHUFLAL MAHORE	4	4	4	6	5	6	5	5	9	11	40		
Total No. Of Student 56 </td <td></td> <td></td> <td>WAQAR AHMAD MUMTAZ NAZEER ALI</td> <td>4</td> <td>5</td> <td>4</td> <td>5</td> <td>5</td> <td>5</td> <td>5</td> <td>5</td> <td>9</td> <td>12</td> <td>43</td>			WAQAR AHMAD MUMTAZ NAZEER ALI	4	5	4	5	5	5	5	5	9	12	43		
Number of Students above Threshold 56 56 56 56 56 56 45 Percentage of Students above Threshold 100<	Тс	otal No. Of Stude	nt	56	56	56	56	56	56	56	56	56	56	68		
Percentage of Students above Threshold 100		Numb	er of Studnets above Threshold	56	56	56	56	56	56	56	56	56	56	45		
Level 3 <td></td> <td>Percent</td> <td>age of Students above Threshold</td> <td>100</td> <td>65.2173913</td>		Percent	age of Students above Threshold	100	100	100	100	100	100	100	100	100	100	65.2173913		
Attainment Level of Cos Over all CO Attainent 1 3 2 2 3 2 3 3 2 3 3 2 4 3 2 5 3 2 6 3 2			Level	3	3	3	3	3	3	<u>3 3 3 2</u>				2		
COFrom IAFrom ESEOver all CO Attainemt1322.22322.23322.24322.25322.26322.2Level 3More than 80 percentage students scoring above XLevel 4Level 260-80 percentage students scoring above XLevel 5322.26322.2Level 3More than 60 percentage students scoring above XLevel 4Level 3Level 5More than 60 percentage students scoring above XLevel 640-60 percentage students scoring above XLevel 740-60 percentage students scoring above X			Attainment Level of Cos		-		ĺ		, 	3 3 2				2		
1322.22322.23322.24322.25322.26322.2Level 3More than 80 percentage students scoring above XLevel 4Constraint of the state	CO	From IA	From ESE	Over all CO	Attainemt					Rubrics for	or Attainme	nt Calculatio	ons			
Z322.23322.24322.25322.26322.2Level 260-80 percentage students scoring above XLevel 3Level 1Less than 60 percentage students scoring above X6322.2Level 3More than 60 percentage students scoring above XLevel 3Level 3Level 3Level 3Level 3Level 240-60 percentage students scoring above XLevel 240-60 percentage students scoring above X	1	3	2	2	.2			L	evel			For IA				
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5 3 2 2.2 6 3 2 2.2 Level 3 More than 60 percentage students scoring above X Level 2 40-60 percentage students scoring above X	4	3	2	2	.2			Le	evel 1	Less t	han 60 nero	entage student	ents scoring	z above X		
6 3 2 2.2 Level 3 More than 60 percentage students scoring above X Level 2 40-60 percentage students scoring above X	5	3	2	2	.2			L	evel		- parte	For ESE				
Level 2 40-60 percentage students scoring above X	6	3	2	2	.2			Le	evel 3	More	than 60 perc	entage stud	lents scorin	ig above X		
								Le	evel 2	40	-60 percent	age students	s scoring ab	oove X		

Direct Assessment CO	2.2
Indirect Assessment CO	2.8
Overall CO Attained	2.32

BEEFC703PE course todes Partial Construction VII VII<			Gurn I	lanak Institute	of Engineerin	g and Te	chnolog	y,Dahega	ion , Nagpu	r					
BEETCORPEOUTONE Name of the StudentOUTONE NAME of the StudentCOUTONE NAME OF CONCORECOUTONE NAME OF CONCOREC				epartment of	Electronics &	Telecom	municat	ion Engin	neering						
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<	Co	urse Code:	BEETC703PE	-	Course N	ame		Optical	Communic	ation	Sem	VIII	Batch	2022-23	
Full Mark <	Sr.No	Enrolment No	Name of the Student		Unit lest				0	nit lest li		Assignment		End Sem Exam	
Full Mark 1 8 1 8 1 15 15 60 ■ ADBA SADA* MOID ZHAR AQEEL 4 55 4 55 5 5 5 9 11 43 ■ BHAYKA RATENDEA ANDEKAR 4 5 4 5 5 5 5 9 11 43 ■ DARSHANA PURUSHOTTAM VADHYA 4 5 4 5 5 5 5 9 11 43 ■ DARSHANA PURUSHOTTAM VADHYA 4 4 4 4 5 5 5 5 9 11 47 ■ DARSHANA PURUSHOTAM VADHYA 4 4 4 4 5 5 5 5 9 11 47 48 ■ PROIA MURANTARIA DAYAM 4 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5			Full Beauly		01	- 0	02	-	03		4	CO5 CO6		001-006	
Intestinuo (A) Add S.3 4 5.3 4 5.3 4 7.3 7.3 7.4 7.3 7.4 7.3 7.4 7.3 7.4 7.3 <th7.3< th=""> <t< td=""><td>-</td><td></td><td></td><td>25</td><td>8</td><td>25</td><td>8</td><td>25</td><td>8</td><td>25</td><td>8</td><td colspan="2">75 75</td><td>80</td></t<></th7.3<>	-			25	8	25	8	25	8	25	8	75 75		80	
Image: Solution of the state of the second secon				3.5	4 5	3.5	4	5.5	4	5.5	4	7.5	1.5	42	
Individue Name (NEW NAME PROCESSING TEAM VALIDITYAM V			ADIBA SADAF MOND AZNAK AQEEL	4	5	4	5	5	5	5	5	9	11	43	
DRAMINATION CONTACT NAME 4 5 4 5 5 5 12 13 14 14 14 14 14 14 14 14 14 14 14 14 14 14 14 14 14 14 14			DARCHANA DUDUSHOTTAM VAIDUVA	4	5	4	5	5	5	5	5	9	11	40	
Image: Normal back in the second s			NILIMA GAIANAN IARAD	4	4	4	4	5	4	5	4	10	11	47	
Image: Construction of the constru			DOOLA NIL KANTHRAO SAYAM	1	5		5	5	5	5	5	9	11	19	
International methods S			PRACHI DAMODHAR TIBOI F	5	5	5	5	5	5	5	4	10	11	40	
International of the second			PRADNYA RAILI MADANKAR	5	5	5	5	5	5	5	4	10	11	46	
Image: Constraint of Students above Threshold 4 5 4 5 5 5 5 9 11 43 1 AKAMALDAMODHAR BAGDE 4 4 4 4 5 4 5 4 100 111 42 1 VAIBHAY GAJENDRA GIRADKAR 4 4 4 4 5 4 5 4 100 111 42 1 NILESH ANAND RAIT 4 5 4 5 5 5 5 9 111 42 1 POONAM OMKAR BARGAT 4 5 4 5 5 5 5 5 5 9 111 43 1 PRATIK PUNDLIK MOHIJE 5 5 5 5 5 5 5 5 4 10 111 43 1 No. Of Student 14<			SHIFA TAHA MOHAMMAD ZAFAR	4	5	4	5	5	5	5	5	9	11	52	
Image: Number of Students above Threshold 4 4 4 4 4 5 4 10 11 42 Image: Number of Students above Threshold 4 5 4 5 5 5 5 9 11 42 Image: Number of Students above Threshold 4 5 4 5 5 5 5 5 9 11 42 Image: Number of Students above Threshold 14			RAFAT TASNEEM MOHAMMAD RIYAZ	4	5	4	5	5	5	5	5	9	11	43	
VABHAV GAIENDRA GIRADKAR 4 4 4 4 5 4 5 4 10 11 46 NLESH ANAND RAUT 4 5 4 5 5 5 5 9 11 42 POONAM OMKAR BARGAT 4 5 4 5 5 5 5 9 11 43 PRATIK PUNDLIK MOHUE 5 5 5 5 5 5 4 10 11 45 Number of Student 14			RAJKAMAL DAMODHAR BAGDE	4	4	4	4	5	4	5	4	10	11	42	
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Image: POONAM OMKAR BARGAT 4 5 4 5 5 5 5 9 11 43 PRATIK PUNDLIK MOHUE 5 14 100 100			NILESH ANAND RAUT	4	5	4	5	5	5	5	5	9	11	42	
Image: Partik PUNDLIK MOHIJE 5 5 5 5 5 4 10 11 45 Total No. Of Student 14 45 14 45 4 100 <td></td> <td></td> <td>POONAM OMKAR BARGAT</td> <td>4</td> <td>5</td> <td>4</td> <td>5</td> <td>5</td> <td>5</td> <td>5</td> <td>5</td> <td>9</td> <td>11</td> <td>43</td>			POONAM OMKAR BARGAT	4	5	4	5	5	5	5	5	9	11	43	
Total No. Of Student 14 <			PRATIK PUNDLIK MOHIJE	5	5	5	5	5	5	5	4	10	11	45	
Number of Studnets above Threshold 14	т	otal No. Of Stude	nt	14	14	14	14	14	14	14	14	14	14	68	
Percentage of Students above Threshold 100 10		Numb	er of Studnets above Threshold	14	14	14	14	14	14	14	14	14	14	45	
$\begin{tabular}{ c c c c } \hline $Level$ & 3 & 1 & 2 & 1 & $$		Percent	age of Students above Threshold	100	100	100	100	100	100	100	100	100	100	65.2173913	
			Level	3	3	3	3	3	3	3	3	3	3	2	
Attainment Level of Cos From IA From ESE Over all CO Attained 1 3 2 2.2 3 3 2 2.2 3 3 2 2.2 4 3 2 2.2 5 3 2 2.2 6 3 2 2.2 Level 3 More than 80 percentage students scoring above X Level 4 Level 5 60-80 percentage students scoring above X Level 5 3 2 2.2 Level 6 More than 60 percentage students scoring above X Level 7 Level 8 For ESE Level 8 More than 60 percentage students scoring above X Level 9 40-60 percentage students scoring above X Level 2 40-60 percentage students scoring above X Level 2 40-60 percentage students scoring above X			Average of Level		3		3		3	3			3	2	
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2 3 2 2.2 3 3 2 2.2 4 3 2 2.2 5 3 2 2.2 6 3 2 2.2 Level 1 Less than 60 percentage students scoring above X Level 3 More than 80 percentage students scoring above X 6 3 2 2.2 Level 1 Level 3 More than 60 percentage students scoring above X Level 3 More than 60 percentage students scoring above X	1	3	2	2	2.2			L	.evel	For IA					
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4 3 2 2.2 5 3 2 2.2 6 3 2 2.2 Level 1 Less than 60 percentage students scoring above X Level 3 Level 3 Level 3 Level 3 Level 2 40-60 percentage students scoring above X	3	3	2	2	2.2			Le	evel 2	60-80 percentage students scoring above X				bove X	
5 3 2 2.2 6 3 2 2.2 Level More than 60 percentage students scoring above X Level 2 40-60 percentage students scoring above X	4	3	2	2	2.2			Le	evel 1	Less t	han 60 perc	entage stud	lents scorin	g above X	
6 3 2 2.2 Level 3 More than 60 percentage students scoring above X Level 2 40-60 percentage students scoring above X	5	3	2	2	2.2			L	evel			For ESE			
Level 2 40-60 percentage students scoring above X	6	3	2	2	2.2	l		Le	evel 3	More t	han 60 per	centage stu	dents scorir	ng above X	
								Le	evel 2	40	-60 percent	age student	s scoring al	bove X	

Direct Assessment CO	2.2
Indirect Assessment CO	2.8
Overall CO Attained	2.32