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: 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.	

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

CO	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**

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**

Gurn Nanak Institute of Engineering and Technology,Dahegaon , Nagpur

Department of Electrical Engineering

Course Code:		BEELE804E	Course Name		COMPUTER APPLICATIONS IN POWER				Sem		VIII		Batch	2022-23
Sr.No	Enrolment No	Name of the Student	Unit Test I				Unit Test II				Assignment			End Sem Exam
			CO1		CO2		CO3		CO4		CO5	CO6		CO1-CO6
Full Mark			7	8	7	8	7	8	7	8	15	15		80
Threshhold (X)			3.5	4	3.5	4	3.5	4	3.5	4	7.5	7.5		28
		ACHAL RUPCHAND WADBUDHE	5	6	5	6	6	6	5	6	10	11		43
		ARTI DINESH KHAMBALKAR	4	5	4	5	5	5	5	5	9	12		46
		BHAVIKA NILKANTH SHENDE	4	5	4	5	5	5	5	5	9	12		52
		OJASVI SANJAY BURANDE	5	4	5	5	5	6	6	5	10	11		47
		PALLAVI DEORAO GHONGE	4	5	4	5	5	5	5	5	9	12		48
		POOJA DILIPRAO SHENDE	5	5	5	5	5	5	5	4	10	11		49
		PUNAM CHANDRABHAN MAHURE	6	5	4	6	8	6	6	5	10	12		46
		RAKHIBAI KESHORAO PATLE	4	5	4	5	5	5	5	5	9	11		52
		SADHANA SOVINDAS BISEN	4	5	4	5	5	5	5	5	9	11		43
		SHREYA SANGAM KAPSE	5	6	5	5	6	4	6	5	10	12		42
		SHWETA BAPURAO RANDKHE	4	4	4	4	5	4	5	4	10	11		46
		SHWETA KIRANRAO GHATOLE	4	5	4	5	5	5	5	5	9	12		42
		SUSHMA RAJENDRA MENDHE	5	6	5	6	7	4	6	6	10	11		43
		VAISHNAVI RAJU MADANKAR	4	5	4	5	5	5	5	5	9	12		28
		VANDANA SHOBHARAM MOHANKAR	4	5	4	5	5	5	5	5	9	11		43
		YOGITA TEJRAM UKEY	4	5	4	5	5	5	5	5	9	12		46
		AJINKYA JANKIDAS MATE	5	6	5	5	6	4	6	5	10	11		52
		AKHIL HIRALAL CHHANIKAR	6	6	5	6	5	5	6	6	10	12		47
		ANKIT UPASRAO KAWADKAR	5	5	5	5	5	5	5	4	10	12		48
		ARJUN SHESHRAO DESHMUKH	5	5	5	5	5	5	5	4	10	12		49
		BADAL SOMAJI RANGARI	4	5	4	5	5	5	5	5	9	11		46
		BHAGWAT DINESH DEVSARKAR	4	5	4	5	5	5	5	5	9	12		52
		BHUSHAN VISHNU MURODIYE	4	4	4	4	5	4	5	4	10	11		43
		CHETAN WASUDEO AMBAGADE	4	4	4	4	5	4	5	4	10	12		42
		DEEPAK CHAMANLAL PACHE	4	5	4	5	5	5	5	5	9	11		46
		DHAMMANAND PRABHUDAS MOHOD	4	5	4	5	5	5	5	5	9	12		42
		GAJANAN SANTOSH GAHULE	4	5	4	5	5	5	5	5	9	11		43
		GANESH RAMRAO BHANDARWAD	5	6	7	5	5	6	5	5	10	12		43
		GAURAV SHESHRAO DAKHARE	4	5	4	5	5	5	5	5	9	11		46
		GAURAV SUDHIR MADEKAR	4	5	6	4	5	6	6	4	10	12		52
		HARSHAL PANDURANG JAIWAR	4	5	4	5	5	5	5	5	9	11		47
		JITESH KASHINATH GHARPURE	5	5	5	5	5	5	5	4	10	12		48
		KIRTESH PRABHAKAR SATPUTE	6	5	5	4	5	4	5	4	10	12		49
		MAHESH DILIP MUSALE	5	6	4	6	5	5	6	6	10	12		46
		MAHESH RAJU VERMA	4	5	4	5	5	5	5	5	9	12		52
		MAYUR RAJENDRA BHAKTE	4	4	4	4	5	4	5	4	10	11		43
		MILIND KULDEEP GADLING	4	4	4	4	5	4	5	4	10	12		42
		NIKHIL MADHUKAR BHALERAO	4	5	4	5	5	5	5	5	9	11		46
		NIRAJ SHRIPAD NILE	4	5	4	5	5	5	5	5	9	12		42
		PRASAD SHRIDHAR TEMBHURNIKAR	5	6	5	6	6	5	6	5	10	11		43
		PRITAM SANJAYRAO CHAPLE	4	5	4	5	5	5	5	5	9	12		43
		RAJAT MADHUKAR KUTHE	4	5	4	5	5	5	5	5	9	11		46
		RAVINDRA VINAYAK HOLE	4	4	5	4	6	4	5	4	10	12		52
		RUGWED SHIVSHANKAR TEMBHARE	4	5	5	5	5	5	5	5	9	11		47
		SANKET PRAVIN GUND	5	5	5	6	6	5	5	4	10	11		48
		SARVAN NARAYAN GOUR	5	5	5	6	6	5	5	4	10	12		49
		SATISH ARVIND DUDHE	4	6	5	6	5	6	5	5	9	11		46
		SAURABH GOPAL KHUJNARE	4	6	5	6	6	5	5	5	9	12		52
		SHUBHAM MADHAVRAO RAJEPWAD	4	6	5	6	5	6	5	4	10	11		43
		SHUBHAM RAMCHANDRA MATHURKAR	5	6	5	6	6	4	5	4	10	12		42
		SUMIT WASUDEO BHOYAR	5	6	5	6	5	5	5	5	9	11		46
		SURAJ VIJAYRAO LEKURWALE	5	5	5	5	6	6	5	5	9	11		42
		VAIBHAV DHAONDU MAMTKAR	5	4	5	6	5	4	5	4	10	12		43
		VILAS DHUPLAL MAHURE	5	4	4	4	6	4	5	4	10	12		46
		VIVEK SURAJLAL SAHARE	4	5	4	6	5	6	5	5	9	11		42
		WAQAR AHMAD MUMTAZ NAZEER ALI	4	5	4	5	5	5	5	5	9	12		43
Total No. Of Student			56	56	56	56	56	56	56	56	56	56		68
Number of Stusnets above Threshold			56	56	56	56	56	56	56	56	56	56		45
Percentage 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
Average of Level			3		3		3		3		3			2
Attainment Level of Cos														

CO	From IA	From ESE	Over all CO Attainemt
1	3	2	2.2
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

Rubrics for Attainment Calculations	
Level	For IA
Level 3	More than 80 percentage students scoring above X
Level 2	60-80 percentage students scoring above X
Level 1	Less than 60 percentage students scoring above X
Level	For ESE
Level 3	More than 60 percentage students scoring above X
Level 2	40-60 percentage students scoring above X
Level 1	Less than 40 percentage students scoring above X

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

Gurn Nanak Institute of Engineering and Technology,Dahegaon , Nagpur

Department of Electronics & Telecommunication Engineering

Course Code:		BEETC703PE	Course Name		Optical Communication				Sem	VIII	Batch	2022-23
Sr.No	Enrolment No	Name of the Student	Unit Test I				Unit Test II				Assignment		End Sem Exam
			CO1		CO2		CO3		CO4		CO5	CO6	CO1-CO6
Full Mark			7	8	7	8	7	8	7	8	15	15	80
Threshhold (X)			3.5	4	3.5	4	3.5	4	3.5	4	7.5	7.5	28
		ADIBA SADAF MOHD AZHAR AQEEL	4	5	4	5	5	5	5	5	9	11	43
		BHAVIKA RAJENDRA TANDEKAR	4	5	4	5	5	5	5	5	9	11	46
		DARSHANA PURUSHOTTAM VAIDHYA	4	5	4	5	5	5	5	5	9	11	52
		NILIMA GAJANAN JARAD	4	4	4	4	5	4	5	4	10	11	47
		POOJA NILKANTHRAO SAYAM	4	5	4	5	5	5	5	5	9	11	48
		PRACHI DAMODHAR TIBOLE	5	5	5	5	5	5	5	4	10	11	49
		PRADNYA RAJU MADANKAR	5	5	5	5	5	5	5	4	10	11	46
		SHIFA TAHA MOHAMMAD ZAFAR	4	5	4	5	5	5	5	5	9	11	52
		RAFAT TASNEEM MOHAMMAD RIYAZ	4	5	4	5	5	5	5	5	9	11	43
		RAJKAMAL DAMODHAR BAGDE	4	4	4	4	5	4	5	4	10	11	42
		VAIBHAV GAJENDRA GIRADKAR	4	4	4	4	5	4	5	4	10	11	46
		NILESH ANAND RAUT	4	5	4	5	5	5	5	5	9	11	42
		POONAM OMKAR BARGAT	4	5	4	5	5	5	5	5	9	11	43
		PRATIK PUNDLIK MOHIJE	5	5	5	5	5	5	5	4	10	11	45
Total No. Of Student			14	14	14	14	14	14	14	14	14	14	68
Number of Studnets above Threshold			14	14	14	14	14	14	14	14	14	14	45
Percentage 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
Average of Level			3		3		3		3		3		2
Attainment Level of Cos													

CO	From IA	From ESE	Over all CO Attainemt
1	3	2	2.2
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

Rubrics for Attainment Calculations	
Level	For IA
Level 3	More than 80 percentage students scoring above X
Level 2	60-80 percentage students scoring above X
Level 1	Less than 60 percentage students scoring above X
Level	For ESE
Level 3	More than 60 percentage students scoring above X
Level 2	40-60 percentage students scoring above X
Level 1	Less than 40 percentage students scoring above X

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