

Course Outcome

Regulation 2021 Year Of Study 2021-22

Subject Code :		HS3151	Semester :	I	Course Code :	C101		
Subject Name :		PROFESSIONAL ENGLISH I						
CO1	Write Essays,E-Mails, and Letters efficient way.							
CO2	Analyze the Events, Reports, Articles and Blogs through Comprehension.							
CO3	Analyze the	Process and Pr	oducts through	ı Technic	al Texts			
CO4	Write Recommendations and Transcoding from Non - Verbal to Verbal.							
CO5	Analyze the Vocabulary of various forms.							

Subject Code :		MA3151	Semester :	Ι	Course Code :	C102		
Subject N	lame :	MATRICES A	MATRICES AND CALCULUS					
C01	CO1 Apply Cayley- Hamilton theorem and orthogonal transformation for different process of matrices.							
CO2	Analyze the types of functions and differentiation rules for real life engineering problems.							
CO3	Apply the o Jacobians a	concepts of par and maxima and	tial derivatives a d minima of fun	and total ctions.	derivatives in Taylo	r's series,		
CO4	Apply the rule of integration in various functions.							
CO5	Evaluate the double and triple integrals for finding area and volume of different plane surfaces.					different		



Subje	ect Code :	PH3151	Semester:	I	Course Code:	C103		
Subje Name	ect ENGINEERING PHYSICS							
C01	Explain the basic concepts of mechanics.							
CO2	Describe wave equations of electromagnetic waves with its applications.							
CO3	Explain tl	he concept o	of oscillations	, LASERs and	Fibre optics			
CO4	Comprehend the importance of quantum mechanics.							
C05	Apply qua	antum mech	anical princi	ple towards tl	ne formation o	f energy bands		

Subject Code :		CY3151	Semester :	I	Course C	ode :	C	2104
Subject N	lame :	ENGINEERING CH	IEMISTRY					
C01	Summarize the methods to produce soft water for industrial use and potable water at cheaper cost							
CO2	Apply basic concepts of nanoscience and nanotechnology in designing the synthesis of nanomaterials for engineering and technology applications							
CO3	Apply requir	the knowledge ements	of phase rule	and o	composites	for ma	terial	selection
CO4	Describe the various types of fuels and the manufacture of solid, liquid and gaseous fuel to meet environmental sustainability							
C05	Explai solar e	n the principles and nergy and batteries	l generation of e	energy in	nuclear rea	ctor, wir	nd ener	gy and



Subject	Subject Code : GE3		Semester:	Ι	Course Code:	C105		
Subject Name: PROBLEM SOLVING AND PYTHON PROGRAMMING								
C01	CO1 Solve simple computational problems using Notations.							
CO2	Write Python Programs using statements and Expressions							
CO3	Apply	Control flow and	Functional conc	epts in a use	r defined problen	ns.		
CO4	Apply Python Data Structures Compound Data. List, Tuples and Dictionaries for Compound Data.							
C05	Descril	Describe File handling and Exceptional Handling in Python for Solving Problems.						

Subject Code :		GE3152	Semester:	Ι	Course Code:	C106			
Subject	Name:	HERITAGE OF	HERITAGE OF TAMILS						
C01	CO1 Summarize about languages, literatures and scripts.								
CO2	Explain middle stone, modern sculptures, panchalogaidols and musical instruments.								
CO3	Explair	n about the folk g	ods, arts and he	roic sports.					
CO4	Summarize the political theories of tamils.								
CO5	Summarize Indian national movement contribution of Tamils to Indian culture.								



Subject Code :		GE3171	Semester :	I	Course Code :	C107		
Subject Name : PROBLEM SOLVING AND PYTHON PROGRAMMING LABORATORY								
C01	Write a python programs for simple computational problems.							
CO2	Write python programs with conditionals and loops.							
CO3	Write a	a python programs step-	wise by defining	g functior	and calling them.			
CO4	Write a python programs using lists, tuples, and dictionaries for representing compound data.							
CO5	Write a	Write a python program for read and write data from to files in python.						

Subject Code :		BS3171	Semester:	Ι	Course Code:	C108		
Subject N	ame:	PHYSICS AND CHEMISTRY LABORATORY						
C01	CO1 Calculate the Young's modulus by non-uniform bending, simple harmonic oscillators by Torsion Pendulum.							
CO2	Calculate the thickness of a thin wire by air wedge and velocity of sound, compressibility of liquid using ultra sonic interferometer.							
CO3	Calcula	ate the wavelength, a	cceptance ang	le and num	erical aperture usir	ıg laser.		
CO4	Estimate the amount of Hardness, chloride,alkalinity in water samples.							
CO5	Estimate the amount of acid, iron content present in a given solution by using pl conductivity and potentiometric titration.							



Subject Code :		GE3172	Semester:	Ι	Course Code:	C109		
Subject Name: ENGLISH LABORATORY								
C01	CO1 Analyze general information as well as complex academic situations.							
CO2	Describe their personal experiences, events, documentaries and interviews in both temporary and permanent situations.							
CO3	Descrit	be products and proce	sses and explain	n their purp	oses clearly and acc	urately.		
CO4	Apply speaking skills in formal and informal communicative contexts.							
C05	Analyz	e or use their opinion	s effectively in	both formal	and informal discus	sion.		



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Regulation 2021 Year Of Study 2021-22

Subject Code :		HS3251	Semester :	II	Course Code :	C110		
Subject Name :		PROFESSIONAL ENGLISH II						
CO1	Write essays and emails in different forms effectively.							
CO2	Write letters and responses to complaints for the causal relations.							
CO3	Analyze the	e news reports,	excerpts and c	ase studi	es.			
CO4	Write the reports of events and transcoding.							
CO5	Write job application with resume in the context of job search.							

Subject Code :		MA3251	Semester :	II	Course Code :	C102		
Subject Name : STATISTICS AND NUMERICAL METHODS								
C01	Analyze the concepts of sampling, mean and variance using various tests.							
CO2	Analyze the concepts of design of experiments using ANOVA.							
CO3	Solve the a	llgebraic and nu	imerical equation	ons using	numerical techniqu	es.		
CO4	Evaluate the numerical differentiation and integration using different methods.							
CO5	Solve the f	Solve the first order differential equations using various methods.						



Subje	ect Code :	PH3256	Semester:	II	Course Code:	C112		
Subject Name: PHYSICS FOR INFORMATION SCIENCE								
C01	01 Explain the significance of electron theories and energy band structures.							
CO2	Apply the basics of semiconductor physics and its applications in various devices.							
CO3	Comprehen data storage	d the different 1 e.	nagnetic proper	ties of mat	terials and their ap	oplications in		
CO4	Summarize the functioning of optical materials for opto-electronic devices.							
CO5	Describe the basics of quantum structures and their applications in nano electronics.							

Subje	ect Code :	Code : PH3254 Semester: II Course Code:						
Subje	ect Name:	PHYSICS F	OR ELECTRON	ICS ENGINEE	RING			
C01	Summariz	Summarize the basics of crystallography and its importance.						
CO2	Explain th	e electrical a	nd magnetic pr	operties of m	aterials.			
CO3	Apply the b	asics of sem	iconductor phys	sics in device	applications.			
CO4	Comprehend the different properties of optical materials and the functioning of opto- electronic devices.							
C05	Describe th	e basics of q	uantum structu	res and their	applications in nar	no devices		



Subject (Code :	РН3202	Semester :	II	Course Code :	C115	
Subject	Name :	PHYSICS FOR ELF	ECTRICAL ENGI	NEERIN	G		
C01	CO1 Explain the basics of dielectric and insulation materials.						
CO2	Descr	ibe the electrical an	d magnetic prop	perties of	f materials and their	applications.	
CO3	Apply	the concepts of ser	niconductor phy	vsics in d	evice applications.		
CO4	Comprehend the different properties of optical materials and functioning of opto- electronic devices.						
CO5	Descr	ibe the basics of qu	antum structure	es and the	eir applications in na	ano devices.	

Subject (Code :	GE3252	Semester : II Course Code :		C116			
Subject	Name :	TAMILS AND TECHNOLOGY						
C01	Sumr	Summarize the ancient history and technology of Tamil.						
CO2	Expla	in the lifestyle and a	architectural tec	hniques	of the sangam perio	d.		
CO3	Expla	in the business prac	tices and curren	ncy excha	ange of ancient Tami	il people.		
CO4	Sumn	Summarize the Agriculturen and Irrigation Technology in sangam period.						
CO5	Explai	n the computer app	lications in Tar	il techno	ological development	t.		



Subject	Code :	CS3251	Semester:	II	Course Code:	C117	
Subject Name: PROGRAMING IN C							
C01	Descril	be the basic const	ruct and syntax	of C program	nming.		
CO2	Write I	Programs using a	rrays and string	S.			
CO3	Write I	Programs using fu	inction and poir	iters.			
CO4	Apply	Apply the concept of union and structure for user defined problems					
C05	Descril	be the file handlir	ng in C.				

Subject Co	ode :	GE3251	Semester :	II	Course Code :	C118		
Subject N	ame :	ENGINEERING GRAPH	IICS					
CO1	Draw the various curves used in engineering practices.							
CO2	Draw t	Draw the projections of straight lines which are inclined to both the planes.						
CO3	Drawt	the projections of solids	inclined to one j	plane and	l parallel to other I	plane.		
CO4	Draw the projections of sectioned solids and draw the development of lateral surfaces of a solid.							
CO5	Drawt	the isometric projections	s and perspectiv	e project	ions of simple soli	ds.		



Subject C	ode :	BE3251	Semester:	II	Course Code:	C119
Subject Name: BASICS OF ELECTRICAL AND ELECTRONICS ENGINEERING						
CO1	Solve E	Electric Circuits usin	g Basic Electric	c Laws		
CO2	Explain	n the construction ,v	vorking princip	oles and ap	plications of Electri	cal Machines
CO3	Descril Analog	be the construction Devices	,working princ	ciples, char	acteristics and appl	lications of
CO4	Design the Digital Logic Circuits using Karnaugh Map					
CO5	Compr	ehend the Construc	tion and Opera	ting Princi	ples of Measuring Ir	nstruments

Subject Co	ode:	BE3254	Semester :	II	Course Code :	C120	
Subject N	ubject Name : BASIC ELECTRICAL AND INSTRUMENTATION ENGINEERING						
CO1	Explair	the Construction, types	s and working o	f transfor	mers		
CO2	Explair	Explain the Construction, types and working of Dc Machines					
CO3	Explair	the Construction, types	s and working o	f AC Rota	ting Machines		
CO4	Describ	Describe the functional elements and working of measuring instruments					
C05	Descrit	be the basics of power sy	rstems and prot	ection sch	nemes		



Subject Code :		EC3251	Semester:	II	Course Code:	C121		
Subject Name:		CIRCUIT ANALYSI	S					
C01	Analyz	e the Different meth	ods of circuit a	inalysis usi	ng Duality and Topo	ology.		
CO2	Solve t	Solve the DC and AC by using Network Theorems.						
CO3	Analyz	e the Resonance and	l coupled Circu	it				
CO4	Analyz	Analyze the Transient Resonance of the RLC circuit.						
CO5	Summa	arize the COUPLED (CIRCUITS AND	TOPOLOGY	7			

Subject Co	Code :BE3255Semester :IICourse Code :C12						
Subject N	ame :	e : BASIC CIVIL AND MECHANICAL ENGINEERING					
C01	Summarize profession of Civil and Mechanical Engineering						
CO2	Descrit in Civil	be the principles of surve Engineering.	eying and elucid	ate the aj	oplications of mate	erials	
CO3	Explair	n the elements of constru	iction and categ	orize the	various forms of s	structures.	
CO4	Explair and en	Explain the constituents and operational principles of diverse power plants and engines.					
CO5	Explai	n the operational princip	oles of refrigerat	tion and a	air conditioning sy	stems	



Subject C	ect Code : EE3251 Semester: II Course Code: C1				C123			
Subject Name:		ELECTRIC CIRCUI	T ANALYSIS					
C01	Analyz	Analyze D.C and A.C Circuits using basic circuit laws.						
CO2	Solve D.C and A.C Circuits using Network Theorems and Network reduction techniques.							
CO3	Analyz	e the transient resp	onse of RL, RC	and RLC Cir	rcuits using Laplace	e transform.		
CO4	Describe the behavior of resonance and coupled circuits.							
CO5	Analyz load.	e three phase balan	ced and unbala	nced circu	its with star and de	lta connected		

Subject Code :		GE3272	Semester:	II	Course Code:	C124	
Subject Name: COMMUNICATION LABORATORY / FOREIGN LANGUAGE							
C01	Apply profes	Apply various group discussion skills to take part in effective discussions in a professional context.					
CO2	Analyz clearly	Analyze concepts and problems and make effective presentations explaining them clearly					
CO3	Write	essays, emails, repor	ts and letters o	efficient wa	у		
CO4	Write	Write the short articles and instructions					
CO5	Write a	a job application, cov	ver letter and r	ecommend	ations.		



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Subject Co	Code: GE3271 Semester: II Course Code: C12					
Subject Name : ENGINEERING PRACTICES LABORATORY						
C01	CO1 Summarize the plumbing and carpentry of residential and industrial building					
CO2	Design of different joints using welding work					
CO3	Demon	strate of foundry opera	tions & fitting m	odels		
CO4	Design of residential house wiring , lamp wiring and energy meter calibration					
CO5	Study o	of electronic equipments	,Assembling an	d testing	of PCB component	ts

Subject Code :		CS3271	Semester:	II	Course Code:	C126		
Subject Name:		PROGRAMMING IN C LABORATORY						
CO1	Write Programs using basic constructs.							
CO2	Write Programs using arrays and strings.							
CO3	Write Programs using function and recursive function.							
CO4	Write Programs using union and structure for user defined problems							
CO5	Write Programs using file handling methodologies in C.							

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Subject Code :		EC3271	Semester :	II	Course Code :	C127	
Subject N	ame :	CIRCUITS ANALYSIS LABORATORY					
C01	Evaluate output current and voltage for electric circuits using Thevenin's and Norton's Theorems.						
CO2	Evaluate output current and voltage for electric circuits using fundamental electrical laws with experimental set up.						
CO3	Evaluate output current voltage and power n for electric circuits using Reciprocity and Maximum transfer Theorems.						
CO4	Analyze Frequency response of series & parallel resonance circuits using experimental methods.						
CO5	Analyze the Transient of RL and RC circuits						

Subject Code :		EE3271	Semester:	II	Course Code:	C128	
Subject Name:		ELECTRIC CIRCUITS LABORATORY					
C01	Evaluate output current and voltage for electric circuits using Thevenin's and Norton's Theorems.						
CO2	Evaluate output current and voltage for electric circuits using fundamental electrical laws with experimental set up.						
CO3	Evaluate output current voltage and power n for electric circuits using Reciprocity and Maximum transfer Theorems.						
CO4	Analyze Frequency response of series & parallel resonance circuits using experimental methods.						
CO5	Analyze the Transient of RL and RC circuits						