

## SHREE DEVI INSTITUTE OF TECHNOLOGY

(Affiliated to Visvesvaraya Technological University & Recognized by AICTE) AIRPORT ROAD, KENJAR, MANGALORE – 574 142

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Subject:	MANA	GEME	ENT AI	ND			Su	bject	Code	: 15A]	E51				
ENTREPRE	NEUR	SHIP													
					(	Cours	e Ou	tcome	es						
CO1	Und	ersta	nd th	e bas	ic cor	ncept	s of n	nanag	gemer	nt, pla	nnin	g, org	anizin	g and	
	staf	fing.				-		-		-				_	
CO2	Acq	uire tl	he kn	owled	lge to	becc	me e	ntrep	reneu	ur.					
CO3	Con	nprehend the requirements towards the small-scale industries and ect preparation.													
	proj	omprehend the requirements towards the small-scale industries and oject preparation.													
					CC	)-PO-	PSO	Mapp	ing						
COs						PC	Ds							PSOs	
	1	2	3	4	5	6	7	8	9	10	11	12	1	2	3
CO1	2	2	3	-	-	-	-	-	-	-	2	-			
CO2	2	2	3	-	-	-	-	-	-	-	2	-			
CO3	2	2	3	-	-	-	-	-	-	-	2	-			
Average	2	2	3	-	-	-	-	-	-	-	2	-			

Subject:	INTRO	DUCT	'ION T	0			Su	bject	Code	: 15A	E52					
COMPOSIT	E MA	ΓERIA	LS													
					(	Cours	e Ou	tcome	es							
CO1	Und	ersta	nd th	e adv	antag	jes of	com	posite	e mate	erials	com	pared	to			
	con	ventio	onal n	nateri	ials											
CO2	Eval	uate	te the properties of polymer matrix composites with fiber cements													
	rein	force	rcements in the manufacturing process and applications of composite materials													
CO3	Exp	nforcements plain the manufacturing process and applications of composite materials														
					CC	D-PO-	PSO	Mapp	ing							
COs						P	Os							PSOs		
	1	2	3	4	5	6	7	8	9	10	11	12	1	2	3	
CO1	3	3	-	2	2	-	-	-	1	-	-	1				
CO2	3	3	-	2	2	-	-	-	1	-	-	1				
CO3	3	3	-	2	2	-	-	-	1	-	-	1				
Average	3	3	-	2	2	-	-	-	1	-	-	1				

Subject: I	HEAT AND MASS	Subject Code: 15AE53	
TRANSFER			
	Course	Outcomes	
CO1	Understand the different modes	s of heat transfer.	
CO2	Understand the free convection	and forced convection.	
CO3	Acquire the knowledge of heat tra	nsfer problems in combustion ch	ambers.
	CO-PO-P	SO Mapping	
COs	PO	S	PSOs

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	1	2	3	4	5	6	7	8	9	10	11	12	1	2	3
CO1	2	2	3	-	2	-	-	-	-	-	-	-			
CO2	2	2	3	-	2	-	-	-	-	-	-	-			
CO3	2	2	3	-	2	-	-	-	-	-	-	-			
Average	2	2	3	-	2	-	-	-	-	-	-	-			

Subject:	15AE5	4					Su	bject	Code	: 15A]	E54					
						Cours	e Ou	tcome	es							
CO1	Con	prehe	end the	e basi	c con	cepts	of stre	ess and	d strai	n.						
CO2	Acq	uire t	he kn	owled	dge of	type	s of lo	ads o	on aei	rospa	ce ve	hicles	3.			
CO3	Und	ersta	nd th	e theo	ory of	elast	icity.									
		CO-PO-PSO Mapping														
COs						P	Os							PSOs		
	1	2	3	4	5	6	7	8	9	10	11	12	1	2	3	
CO1	2	2	-	2	1	-	-	-	-	-	-	1				
CO2	2	2	-	2	1	-	-	-	-	-	-	1				
CO3	2	2	-	2	1	-	-	-	-	-	-	1				
Average	2	2	-	2	1	-	-	-	-	-	-	1				

Subject:	Subject: THEORY OF VIBRATIONSCoCo1Understand the basic condCO2Understand the working prinCO3Acquire the knowledge of nuCO-CO5123CO-CO-CO-CO133-22-CO233-22-							bject	Code	: 15A]	E553				
					(	Cours	e Ou	tcome	es						
CO1	Und	ersta	nd th	e bas	ic cor	ncept	s of v	ibrati	ons.						
CO2	Und	erstan	d the	work	ing pr	incipl	e of v	ibratio	on me	asurir	ng ins	trume	nts.		
CO3	Acq	uire th	ne kno	wled	ge of 1	numei	rical n	netho	ds for	multi	-degre	ee free	edom	systen	ns.
			CO-PO-PSO Mapping												
COs						P	Os							PSOs	
	1	2	3	4	5	6	7	8	9	10	11	12	1	2	3
CO1	3	3	-	2	2	-	-	-	1	-	-	1			
CO2	3	3	-	2	2	-	-	-	1	-	-	1			
CO3	3	3	-	2	2	-	-	-	1	-	-	1			

Subject: AIRCRAFT TRANSPORTATION         SYSTEMS         CO1       Understand the air transport         CO2       Acquire the knowledge of a         CO3       Understand the navigation a         CO5       CO         CO5       1         2       3       4         CO1       2       3       -							Sul	bject	Code	: 15A]	E563				
SYSTEMS															
					(	Cours	e Out	tcome	es						
CO1	Und	ersta	nd th	e air t	ransp	ort sy	ystem	ıs.							
CO2	Acq	uire th	ne kno	wledg	ge of a	aircrat	ft cha	racteri	istics,	airlin	es and	d airpo	ort.		
CO3	Und	erstan	d the	navig	ation	and en	nviror	nment	al sys	tems.					
					CC	)-PO-	PSO	Mapp	ing						
COs						PC	Os							PSOs	
	1	2	3	4	5	6	7	8	9	10	11	12	1	2	3
CO1	2	2	3	-	2	-	-	-	-	-	-	-			
CO2	2	2	3	-	2	-	-	-	-	-	-	-			

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CO3	2	2	3	-	2	-	-	-	-	-	-	-		
Average	2	2	3	-	2	-	-	-	-	-	-	-		

Subject:	AEROI	DYNA	MICS	LAB			Su	bject	Code	: 15A]	EL57				
						Cours	e Ou	tcome	es						
CO1	Be a	icqua	inted	with	basic	princ	ples	of ae	rodyr	namic	s usi	ng wir	nd tun	nel.	
CO2	Acq	uire t	he kn	owled	dge or	า flow	visua	alizati	on te	chniq	ues.				
CO3	Und	ersta	nd th	e pro	cedur	es us	ed fo	r calc	ulatir	ng the	lift a	nd dra	ag.		
		CO-PO-PSO Mapping													
COs						PC	Os							PSOs	;
	1	2	3	4	5	6	7	8	9	10	11	12	1	2	3
CO1	2	2	3	1	-	-	-	-	-	-	-	-			
CO2	2	2	3	1	-	-	-	-	-	-	-	-			
CO3	2	2	3	1	-	-	-	-	-	-	-	-			
Average	2	2	3	1	-	-	-	-	-	-	-	-			

Subject:	ENERO	GY CO	NVER	SION	&		Su	bject	Code	: 15A]	EL58					
FLUID MEC	CHANI	ICS LA	В													
					(	Cours	e Out	tcome	es							
CO1	Fam	niliariz	e wit	h the	flash	point	, fire	point	and v	viscos	ity of	lubrio	cating	oils.		
CO2	Stuc	dy IC e Tram	engin	e part	s, op	ening	and	closir	ng of v	alves	to dr	aw th	e valv	e-tim	ing	
CO3	Gair mec	gram. n the knowledge of various flow meters and the concept of fluid chanics. derstand the Bernoulli's Theorem.														
CO4	Und	ersta	nd th	e Beri	noulli	's The	eorem	า.								
	•				CC	D-PO-	PSO	Mapp	ing							
COs						P	Os							PSOs	;	
	1	2	3	4	5	6	7	8	9	10	11	12	1	2	3	
CO1	3	3	-	2	2	-	-	-	1	-	-	1				
CO2	3	3	-	2	2	-	-	-	1	-	-	1				
CO3	3	3	-	2	2	-	-	-	1	-	-	1				
CO4	3	3	-	2	2	-	-	-	1	-	-	1				
Average	3	3	-	2	2	-	-	-	1	-	-	1				

Subject:	AEROI	DYNA	MICS-	II			Su	bject	Code	: 15A]	E61				
					(	Cours	e Out	tcome	es						
CO1	Und	ersta	nd th	e con	cepts	s of co	ompre	essibl	e flov	v and	shoc	k phe	nome	non	
CO2	CO2 Acquire the knowledge of oblique shock and expansion wave formation.														
CO3	CO2Acquire the knowledge of oblique shock and expansion wave formation.CO3Appreciate the measurement in high-speed flow.														
					CC	)-PO-	PSO	Mapp	ing						
COs						PC	Os							PSOs	
	1	2	3	4	5	6	7	8	9	10	11	12	1	2	3
C01	3	3	-	2	2	-	-	-	1	-	-	1			

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CO2	3	3	-	2	2	-	-	-	1	-	-	1		
CO3	3	3	-	2	2	-	-	-	1	-	-	1		
Average	3	3	-	2	2	-	-	-	1	-	-	1		

Subject:	GAS T	URBIN	NE TEO	CHNO	LOGY		Su	bject	Code	: 15A	E62				
						Cours	e Ou	tcome	es						
CO1	Con	npreh	end t	he typ	pes of	fengiı	nes a	nd its	appl	icatio	ns.				
CO2	Und	lersta	nd th	e mat	terials	s requ	ired f	or en	gine r	manu	factu	ring.			
CO3	Acquire the knowledge of engine performance and testing.														
CO-PO-PSO Mapping															
COs	CO-PO-PSO Mapping       POs     PSOs														
	1	2	3	4	5	6	7	8	9	10	11	12	1	2	3
CO1	2	2	3	1	-	-	-	-	-	-	-	-			
CO2	2	2	3	1	-	-	-	-	-	-	-	-			
CO3	2	2	3	1	-	-	-	-	-	-	-	-			
Average	2	2	3	1	-	-	-	-	-	-	-	-			

Subject:	AIRCR	AFT P	ERFO	RMAN	ICE		Su	bject	Code	: 15A]	E63				
					(	Cours	e Ou	tcome	es						
CO1	Und	ersta	nd th	e airc	raft p	erforr	manc	e in s	teady	unac	celer	ated	and		
	acc	elerat	ed flig	ght.											
CO2	Understand the airplane performance parameters. Acquire the knowledge on aircraft maneuver performance.														
CO3	Acquire the knowledge on aircraft maneuver performance.														
	CO-PO-PSO Mapping														
COs						PC	Os							PSOs	
	1	2	3	4	5	6	7	8	9	10	11	12	1	2	З
CO1	3	3	-	2	2	-	-	-	1	-	-	1			
CO2	3	3	-	2	2	-	-	-	1	-	-	1			
CO3	3	3	-	2	2	-	-	-	1	-	-	1			
Average	3	3	-	2	2	-	-	-	1	-	-	1			

Subject: I ANALYSIS	EXPER	RIMEN	TAL S	TRES	S		Su	bject	Code	: 15A]	E654				
						Cours	e Ou	tcome	es						
CO1	Und	erstan	d the	basic	s of m	neasur	ement	ts.							
CO2	Stud	ly abo	ut the	elect	rical r	esista	nce st	rain g	auges	•					
CO3	Acq	uire tł	ne kno	wled											
	•				CO	D-PO-	PSO	Mapp	ing						
COs						P	Os							PSOs	
	1	2	3	4	5	6	7	8	9	10	11	12	1	2	3
CO1	2	2	3	1	-	-	-	-	-	-	-	-			
CO2	2	2	3	1	-	-	-	-	-	-	-	-			
CO3	2	2	3	1	-	-	-	-	-	-	-	-			
Average	2	2	3	1	-	-	-	-	-	-	-	-			

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Subject:	MAIN	FENA	NCE, C	VERH	IAUL &	&	Su	bject	Code	: 15A	E664				
REPAIR OF	AIRC	RAFT	SYSTI	EMS											
					(	Cours	e Out	tcome	es						
CO1	Con	npreh	end t	he fu	ndam	ental	s of n	nainte	enanc	e and	d certi	ificati	on.		
CO2	Acq	uire th	ne kno	wledg	ge of o	docun	nentat	ion fo	r mai	ntenai	nce.				
CO3	Und	erstan	d the	Aircr	aft Ma	ainten	ance,	safety	and t	troubl	e sho	oting.			
	CO3 Understand the Aircraft Maintenance, safety and trouble shooting. CO-PO-PSO Mapping														
COs						PC	Os							PSOs	;
	1	2	3	4	5	6	7	8	9	10	11	12	1	2	3
CO1	3	3	-	2	2	-	-	-	1	-	-	1			
CO2	3	3	-	2	2	-	-	-	1	-	-	1			
CO3	3	3	-	2	2	-	-	-	1	-	-	1			
Average	3	3	-	2	2	-	-	-	1	-	-	1			

Subject:	AIRCR	AFT S	TRUC	TURE	S LAB		Su	bject	Code	: 15A	EL66				
						Cours	e Ou	tcome	es						
CO1	Leai	rn abo	out th	e sim	ply sı	uppor	ted b	eam,	canti	lever	bean	າ.			
CO2	Und	ersta	nd th	e Max	well'	s theo	orem	and F	oisso	on rati	on.				
CO3	Acquire the knowledge about buckling load, shear failure and shear center.														
CO-PO-PSO Mapping															
COs						PC	Os							PSOs	;
	1	2	3	4	5	6	7	8	9	10	11	12	1	2	3
CO1	2	2	3	1	-	-	-	-	-	-	-	-			
CO2	2	2	3	1	-	-	-	-	-	-	-	-			
CO3	2	2	3	1	-	-	-	-	-	-	-	-			
Average	2	2	3	1	-	-	-	-	-	-	-	-			

Subject:	AIRCR	AFT P	ROPU	LSION	LAB		Su	bject	Code	: 15A]	EL67				
					(	Cours	e Ou	tcome	es						
CO1	Und	ersta	nd ho	w to	do the	e heat	t tran	sfer							
CO2	Con	npreh	end t	he ca	scad	e test	ing of	axial	com	press	or an	d axia	ıl turb	ine bl	ade
	row.														
CO3	Study the performance of propeller and jet engines.														
CO3 Study the performance of propeller and jet engines. CO-PO-PSO Mapping															
COs						PC	Os							PSOs	;
	1	2	3	4	5	6	7	8	9	10	11	12	1	2	3
CO1	3	3	-	2	2	-	-	-	1	-	-	1			
CO2	3	3	-	2	2	-	-	-	1	-	-	1			
CO3	3	3	-	2	2	-	-	-	1	-	-	1			
Average	3	3	-	2	2	-	-	-	1	-	-	1			

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Subject:	Projec	t Work	Phase -	- 1			Su	bject	Code	e: 15A	EP68					
					Cou	rse (	Jutco	omes								
CO1	Iden	tify and	interpr	et the	e realist	ic me	char	ical e	ngine	ering	proble	ems a	nd rel	ated		
	syste	ems.														
CO2	Appl	y the ba	asic prii	nciple	es and o	conce	pts o	fmec	hanic	al eng	gineer	ing in	real w	vorld		
	syste	ems ba	sed on	profe	ssional	ethic	s and	dresp	onsib	ilities						
CO3	Criti	cize an	d exper	imen	t to ach	ieve c	ptim	um sc	olutio	ns for	mech	anica	l engi	neerir	າg	
	prob	problems. Analyze, evaluate and review the obtained solution for problems in mechanical														
CO4	Anal	Analyze, evaluate and review the obtained solution for problems in mechanical engineering systems.														
	engi	engineering systems.														
CO5	Dem	engineering systems. Demonstrate professionalism with ethics; present effective communication skills														
	and	relate e	nginee	ring is	ssues to	o broa	ider s	ocieta	al con	text.						
					CO-P	O-PS	O Ma	apping	5							
COs						POs								PSOs	5	
	1	2	3	4	5	6	7	8	9	10	11	12	1	2	3	
CO1	3				1	2	2	-	3	3	1	2				
CO2	3	1			2	1	-	1	3	3	1	3				
CO3	3	2	2	2	2	2	1		3	3	1	2				
CO4	3	2	2	2	2	2	1		3	3	1	2				
CO5						1		3	3	3		1				
Average	2.5	2.33	2.33	2	1.75	2	2	2.5	3	3	1.6	2.6				

Subject:	CONT	ROL E	NGIN	EERIN	IG		Sul	bject	Code	: 15AE	71					
					(	Cours	e Out	tcome	s							
CO1	Appl	y the o	conce	pts of	contr	ol syst	tems.									
CO2	Redu	uce th	e bloc	k diag	grams	and si	ignal f	low gi	raphs							
CO3	Dete	Determine the frequency response analysis by using various types of plots.														
	CO-PO-PSO Mapping															
COs	CO-PO-PSO Mapping POs PSOs															
003		POs PSOs PSOs 1 2 3 4 5 6 7 8 9 10 11 12 1 2 3														
003	1	I         2         3         4         5         6         7         8         9         10         11         12         1         2         3														
CO1	<b>1</b> 2	<b>2</b> 2	<b>3</b> 3	<b>4</b> -	5 -	6 -	)s 7 -	8 -	9	10 -	<b>11</b> 2	12 -	1	2	3	
CO1 CO2	<b>1</b> 2 2	<b>2</b> 2 2	<b>3</b> 3 3	<b>4</b> - -	5 - -	6 - -	7 - -	8 - -	9 - -	10 - -	<b>11</b> 2 2	12 - -	1	2 2	3	
CO1 CO2 CO3	<b>1</b> 2 2 2	<b>2</b> 2 2 2	<b>3</b> 3 3 3	4 - -	5 - - -	PC 6 - - -	25 7 - - -	8 - - -	9 - -	10 - -	<b>11</b> 2 2 2	12 - -	1	2	3	

Subject:	СОМР	UTATI	ONAL	FLUI	D		Sul	bject	Code	<b>:</b> 15AE	72				
DYNAMICS	5														
					(	Cours	e Out	tcome	es						
CO1	Diffe	rentia	ite the	FDM	, FVM	and F	EM								
CO2	Perfo	orm th	ie flov	/, stru	ctural	and t	herma	al ana	lysis.						
CO3	Utiliz	ze the	discre	etizati	on me	thods	ассо	rding	to the	appli	cation	ı <b>.</b>			
					CC	)-PO-	PSO	Mapp	ing						
COs						PC	Ds							PSOs	;
	1	2	3	4	5	6	7	8	9	10	11	12	1	2	3
CO1	3	З	I	2	2	-	-	-	1	-	-	1			
CO2	3	3	-	2	2	-	-	-	1	-	-	1			

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CO3	3	3	-	2	2	-	-	-	1	-	-	1		
Average	3	3	-	2	2	-	-	-	1	-	-	1		

Subject: /	AIRCR	AFT S	TABIL	ITY AN	1D		Su	bject	Code	: 15AE	73				
					(	Cours	e Ou	tcome	es						
CO1	Appl	y the l	basic	conce	epts of	aircra	aft sta	bility a	and co	ontrol					
CO2	Diffe	erentia	ate the	e statio	c longi	itudin	al and	statio	c direc	tiona	l stabi	lity			
CO3	Estir	nate t	he dyı	namic	deriv	atives	•								
					CC	)-PO-	PSO	Mapp	ing						
COs						PC	Os							PSOs	;
	1	2	3	4	5	6	7	8	9	10	11	12	1	2	3
CO1	2	2	3	-	2	-	-	-	-	-	-	-			
CO2	2	2	3	-	2	-	-	-	-	-	-	-			
CO3	2	2	3	-	2	-	-	-	-	-	-	-			
Average	2	2	3	-	2	-	-	-	-	-	-	-			

Subject:	HELIC	OPTE	R DYN	AMIC	S		Sul	bject	Code	: 15AE	743				
					(	Cours	e Out	tcome	s						
CO1	Appl	y the l	basic	conce	pts of	helico	opter	dynan	nics.						
CO2	Com	pute	the cri	tical s	speed	by usi	ng va	rious r	methc	ods.					
CO3	Distinguish the turborotor system stability by using transfer matrix and finite element formulation.														
	formulation.														
CO-PO-PSO Mapping															
COs						PC	Ds							PSOs	;
	1	2	3	4	5	6	7	8	9	10	11	12	1	2	3
CO1	2	2	-	2	1	-	-	2	2	-	-	1			
CO2	2	2	-	2	1	-	-	2	2	-	-	1			
CO3	2	2	-	2	1	-	-	2	2	-	-	1			
Average	2	2	-	2	1	-	-	2	2	-	-	1			

Subject:	FLIGH	T SIM	JLATI	ON LA	В		Sul	bject	Code	<b>:</b> 15AE	L76				
					(	Cours	e Out	tcome	es						
CO1	Plot	the ro	ot loc	us and	d bode	e plot									
CO2	Calc	ulate	the dy	nami	cs res	ponse	e of air	craft.							
CO3	Use	comp	utatio	nal to	ols to	mode	el aircr	aft tra	ijecto	ry					
CO-PO-PSO Mapping															
COs	POs														
	1	2	3	4	5	6	7	8	9	10	11	12	1	2	3
CO1	2	2	3	1	-	-	-	-	-	-	-	-			
CO2	2	2	3	1	-	-	-	-	-	-	-	-			
CO3	2	2	3	1	-	-	-	-	-	-	-	-			

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Average	2	2	3	1	-	-	-	-	-	-	-	-			
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Subject:	MODE	LING	& ANA	LYSIS	S LAB		Su	bject	Code	<b>:</b> 15AE	L77					
					(	Cours	e Ou	tcome	es							
CO1	Drav	v the g	geome	etric m	nodels	of syr	nmet	ric, ca	mber	ed aeı	ro foil,	nozzl	e, win	g and		
	othe	r stru	ctures													
CO2	Appl	y diffe	erent t	ypes o	of mes	shing.										
CO3	Perf	Perform the flow and stress analysis.														
	CO-PO-PSO Mapping															
COs						PC	Ds							PSOs	;	
	1	2	3	4	5	6	7	8	9	10	11	12	1	2	3	
CO1	2	2	3	1	-	-	-	-	-	-	-	-				
CO2	2	2	3	1	-	-	-	-	-	-	-	-				
CO3	2	2	3	1	-	-	-	-	-	-	-	-				
Average	2	2	3	1	-	-	-	-	-	-	-	-				

Subject:	Projec	t Work	Phase -	- 1			Su	bject	Code	e: 15A	EP78					
					Cou	rse (	Jutco	omes								
CO1	Iden	tify and	interpr	et the	e realist	ic me	echar	ical e	ngine	ering	proble	ems a	nd rel	ated		
	syste	ems.														
CO2	Appl	y the ba	asic prii	nciple	es and o	conce	epts o	fmec	hanic	alen	gineer	ing in	real w	vorld		
	syste	ems ba	sed on	profe	ssional	ethic	s and	dresp	onsib	ilities						
CO3	Criti	cize an	d exper	imen	t to ach	ieve o	ptim	um sc	olutio	ns for	mech	anica	l engi	neerir	ıg	
	prob	lems.														
CO4	Anal	yze, eva	aluate a	and re	eview th	e obt	ainec	l solut	ion fo	or prol	olems	in me	chan	ical		
	engi	ngineering systems. Demonstrate professionalism with ethics; present effective communication skills														
CO5	Dem	emonstrate professionalism with ethics; present effective communication skills														
	and	emonstrate professionalism with ethics; present effective communication skills nd relate engineering issues to broader societal context.														
					CO-P	O-PS	O Ma	apping	2							
COs						POs	;							PSOs	5	
	1	2	3	4	5	6	7	8	9	10	11	12	1	2	3	
CO1	3				1	2	2	-	3	3	1	2				
CO2	3	1			2	1	-	1	3	3	1	3				
CO3	3	2	2	2	2	2	1		3	3	1	2				
CO4	3	2	2	2	2	2	1		3	3	1	2				
CO5						1		3	3	3		1				
Average	2.5	2.33	2.33	2	1.75	2	2	2.5	3	3	1.6	2.6				

Subject:	FLIGHT TESTING	Subject Code: 15AE831
	Course	Outcomes
CO1	Measure the flight parameters.	
CO2	Estimate the performance of flight.	

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CO3	Appl	y the	FAR re	gulati	ons.										
					CC	)-PO-	PSO	Mapp	ing						
COs						PSOs	i								
	1	2	3	12	1	2	3								
CO1	2	1	-	1											
CO2	2	1	-	-	-	-	-	-	-	-	-	1			
CO3	2	1	-	-	-	-	-	-	-	-	-	1			
Average	2	1	-	-	-	-	-	-	-	-	-	1			

Subject:	AVION	IICS					Su	bject	Code	<b>:</b> 15AE	81					
					(	Cours	e Ou	tcome	es							
CO1	Sele	ct the	suital	ble da	ta bus	base	d on t	he ap	plicat	ion.						
CO2	lden	tify th	e suita	able n	avigat	ion sy	stem	s.								
CO3	Disti	inguis	h the a	avioni	cs sys	tem a	rchite	cture								
	CO-PO-PSO Mapping															
COs		POs PSOs														
	1	2	3	4	5	6	7	8	9	10	11	12	1	2	3	
CO1	2	1	-	-	-	-	-	-	-	-	-	1				
CO2	2	1	-	-	-	-	-	-	-	-	-	1				
CO3	2	1	-	-	-	-	-	-	-	-	-	1				
Average	2	1	-	-	-	-	-	-	-	-	-	1				

Subject:	Project	Phase –	·				Su	bject	Code	e: 15A	EP8	3				
					Cou	ırse (	Dutco	omes								
CO1	Iden	tify and	interpr	et the	e realist	ic me	echar	nical e	ngine	ering	proble	ems a	nd rel	ated		
	syste	ems.														
CO2	Appl	y the ba	asic prii	nciple	es and o	conce	epts o	f mec	hanic	alen	gineer	ing in	real v	vorld		
	syste	ems ba	sed on	profe	ssional	ethic	s and	dresp	onsib	ilities	•					
CO3	Criti	cize an	d exper	imen	t to ach	ieve o	optim	um sc	olutio	ns for	mech	anica	l engi	neerir	וg	
	prob	lems.														
CO4	Anal	yze, eva	aluate a	and re	eview th	e obt	ainec	l solut	ion fo	or prol	blems	in me	chan	ical		
	engi	ngineering systems. Demonstrate professionalism with ethics; present effective communication skills														
CO5	Dem	emonstrate professionalism with ethics; present effective communication skills														
	and	Demonstrate professionalism with ethics; present effective communication skills nd relate engineering issues to broader societal context.														
					CO-P	O-PS	O Ma	apping	5							
COs						POs	;							PSOs		
	1	2	3	4	5	6	7	8	9	10	11	12	1	2	3	
CO1	3				1	2	2	-	3	3	1	2				
CO2	3	1			2	1	-	1	3	3	1	3				
CO3	3	2	2	2	2	2	1		3	3	1	2				
CO4	3	2	2	2	2	2	1		3	3	1	2				
CO5						1		3	3	3		1				
Average	2.5	2.33	2.33	2	1.75	2	2	2.5	3	3	1.6	2.6				

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Subject:	Semina	r					Su	bject	Code	: 15A]	ES84					
					(	Cours	e Ou	tcome	es							
CO1	lden	tify re	cent t	echni	cal top	oics fr	om in	terest	ed do	mains						
CO2	Acqu	uire ba	asic sl	cills fo	r perf	ormin	gliter	ature	survey	/.						
CO3	Impi	rove th	neir Pr	esent	ation	and C	ommı	unicat	ion sk	ills.						
CO4	Deve	Develop skills for preparing technical report CO-PO-PSO Mapping														
	CO-PO-PSO Mapping															
COs		POs PSOs														
	1	2	3	4	5	6	7	8	9	10	11	12	1	2	3	
CO1	2	2	3	1	-	-	-	-	-	-	-	2				
CO2	2	2	3	1	-	-	-	-	-	-	-	2				
CO3	2	2	3	1	-	-	-	-	-	-	-	2				
CO4	2	2	3	1								1				
Average	2	2	3	1	-	-	-	-	-	-	-	1.8				

Subject:	FLIGH	T VEH	ICLE [	DESIG	N		Sul	bject	Code	: 15AE	82				
					(	Cours	e Out	tcome	es						
CO1	Calc	ulate	the th	rust to	o weig	ht rati	o and	wing	loadir	ıg.					
CO2	Corr	npute	the flig	ght vel	hicle p	perform	mance	e.							
CO3	Sele	ct the	subsy	stem	s as p	er veh	icle d	esign.							
CO-PO-PSO Mapping															
COs	POs PSOs														
	1	2	3	4	5	6	7	8	9	10	11	12	1	2	3
CO1	3	2	2	2	2	-	-	-	-	-	-	2			
CO2	3	2	2	2	2	-	-	-	-	-	-	2			
CO3	3	2	2	2	2	-	-	-	-	-	-	2			
Average	3	2	2	2	2	-	-	-	-	-	-	2			

	Sub	ject: I	nterns	hip			Su	bject	Code	e: 15A	EI85					
					(	Cours	e Ou	tcom	es							
CO1	Con	ducte	experi	ment	s to ev	/aluat	e the	desig	n chai	racteri	stics o	of vario	us ma	achine		
	elen	nents	subje	cted t	o vari	ous lo	ading	ş.								
CO2	Anal	lyse th	ne the	oretic	al and	d expe	erimer	ntal co	oncep	ot in ma	achine	eleme	ents s	ubject	ed	
	to va	arious	loadi	ng.												
CO3	Und	nderstand and discuss the design characteristics of various systems subjected to echanical loading.														
	mec	mechanical loading.														
	mechanical loading. CO-PO-PSO Mapping															
COs						Р	Os							PSOs	\$	
	1	2	3	4	5	6	7	8	9	10	11	12	1	2	3	
CO1	2	2	3	1	-	-	-	-	-	-	-	2				
CO2	2	2	3	1	-	-	-	-	-	-	-	2				
CO3	2	2	3	1	-	-	-	-	-	-	-	2				
Average	2	2	3	1	-	-	-	-	-	-	-	2				

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