EXCEL ENGINEERING COLLEGE

(Autonomous)

Approved by AICTE, New Delhi & Affiliated to Anna University, Chennai

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KOMARAPALAYAM – 637303

DEPARTMENT OF AERONAUTICAL ENGINEERING

PG AERO 2020-22

R2020 Syllabus			
S.NO	Course Code	Sub Code	Course Title
SEMESTER - I			
1	C101	20PMA101	Advanced Mathematical Methods
2	C102	20PAR101	Advanced Propulsion System
3	C103	20PAR102	Theory of Vibrations
4	C104	20PAR103	Advanced Aerodynamics
5	C105	20PARE05	Experimental Stress Analysis
6	C106	20PAR104	Advanced Structural Mechanics
7	C107	20PAR105	Technical Presentation Seminar
SEMESTER - II			
8	C201	20PAR201	Advanced UAV Design
9	C202	20PAR202	Aircraft Flight Dynamics
10	C203	20PARE14	Industrial Aerodynamics
11	C204	20PARE15	Hypersonic Aerodynamics
12	C205	20PAR203	Finite Element Method for Aircraft structure Design
13	C206	20PAR204	Computational Fluid Dynamics for Aerodynamics
14	C207	20PAR205	Technical Presentation Seminar
SEMESTER - III			
15	C301	20PEE301	Research Methodology and Intellectual Property Rights
16	C302	20PARE22	Design and Analysis of Turbomachines
17	C303	20PARE23	Helicopter Aerodynamics
18	C304	20PAR301	Project Phase – I
19	C305	20PAR302	Internship Training
SEMESTER - IV			
20	C401	20PAR401	Project Phase – II

Incharge

HoD

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DEPARTMENT OF AERONAUTICAL ENGINEERING

PG -AERONAUTICAL ENGINEERING 2020-22 BATCH

CO ATTAINMENT

COURSE CODE	CO 1	CO2	CO3	CO4	CO5	CO Average
SEMESTER I						
C101	3.0	1.0	2.0	2.0	2.0	2.0
C102	3.0	3.0	3.0	3.0	3.0	3.0
C103	1.7	1.7	1.7	1.7	1.7	1.7
C104	1.7	1.7	1.7	1.7	1.7	1.7
C105	2.2	2.4	2.0	2.0	2.0	2.1
C106	2.2	2.2	2.2	2.0	2.2	2.2
C107	1.7	1.7	2.0	1.7	1.7	1.8
SEMESTER II						
C201	1.2	1.2	1.2	1.7	1.7	1.4
C202	1.7	1.7	1.7	1.7	1.7	1.7
C203	1.7	1.7	1.7	1.7	1.7	1.7
C204	1.4	1.7	1.7	1.7	1.7	1.6
C205	2.2	2.0	2.2	2.0	2.0	2.1
C206	2.2	2.2	2.2	2.2	2.2	2.2
C207	3.0	3.0	3.0	3.0	3.0	3.0
SEMESTER III						
C301	1.1	1.1	1.1	1.1	1.1	1.1
C302	1.3	1.1	1.8	1.9	1.7	1.6
C303	1.4	1.4	2.0	2.0	2.0	1.8
C304	3.0	2.8	2.4	2.8	2.4	2.7
C305	3.0	2.8	2.4	2.4	2.4	2.6
SEMESTER IV						
C401	3.0	3.0	2.4	2.4	3.0	2.8

Academic coordinator

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DEPARTMENT OF AERONAUTICAL ENGINEERING
2018-22 BATCH

CO- PO ATTAINMENT

COURSE CODE	PO 1	PO 2	PO 3	PO 4	PO 5	PO 6	PO 7	PO 8	PO 9	PO 1	PO 11	PO 12	PSO 1	PSO 2	PSO 3
SEMESTER I															
C101	1.0	1.7	1.0	1.5	1.0	1.0	1.3	1.5	1.2	1.5		1.7	1.0	2.0	2.0
C102	1.7		1.4		0.9	0.7			1.0			1.2			1.0
C103	1.5	0.7	0.8			0.6	0.9	0.6		0.6		0.6	0.4	1.2	
C104	0.9	0.9		1.6	0.9	0.6	0.6	1.0			1.1	0.7			1.0
C105	1.2		1.2		1.2	1.2			1.0		1.1	1.2			
C106	1.0			1.0				1.2		1.2			1.2		
C107	1.7	1.7	1.7	1.7	1.6	1.2	1.2			0.6		0.6	3.0	3.0	
SEMESTER II															
C201	2.4	2.8	2.0	2.2		1.0	1.0	1.0				1.0	1.0	1.7	1.7
C202	2.4	2.8	2.0	2.2		1.0	1.0	1.0				1.0		1.7	
C203		3.0		2.6		0.0		1.0				1.0			
C204	2.4	0.0	0.0	0.0		1.0	0.0	0.0	0.0	2.0	0.0	1.0		2.0	2.0
C205	1.2		1.2		1.8			1.2	1.2		1.2		1.2		1.1
C206		1.2		1.1			1.1			1.1		1.1		1.1	
C207	3.0	0.0	0.0	0.0	0.0	2.0	2.6	3.0	0.0	0.0	0.0	1.0	1.0	1.0	1.0
SEMESTER III															
C301	2.6	2.6	2.4	2.6	3.0	3.0	3.0	3.0	3.0	3.0	3.0	3.0	2.4	2.6	2.6
C302	2.4		1.2		1.2		2.4		2.4	2.4		2.4		2.4	
C303	1.2				1.4			1.4							
C304	2.6	2.6		2.6	3.0	3.0	3.0	3.0	3.0	3.0	3.0	3.0	2.4	2.6	
C305	2.6	2.4	2.4	2.4			1.2		1.6				3.0	1.0	1.0
SEMESTER IV															
C401	2.6	2.6	2.4	2.6	3.0	3.0	3.0	3.0	3.0	3.0	3.0	3.0	2.4	2.6	2.6
DIRECT ATTAINENT (80%)	2.6	2.4	2.4	2.2	2.2	1.8	1.9	1.8	2.0	2.1	2.0	2.0	2.7	2.3	2.1
	2.1	1.9	1.9	1.8	1.7	1.4	1.6	1.4	1.6	1.6	1.6	1.6	2.1	1.7	1.7
INDIRECT ATTAINMENT (20%)	2.6	2.4	2.4	2.2	2.2	1.8	1.9	1.8	2.0	2.1	2.0	2.0	2.7	2.3	2.1
	0.5	0.5	0.5	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.5	0.4	0.4
TOTAL ATTAINMENT (100%)	2.58	2.41	2.42	2.23	2.18	1.81	1.94	1.79	2.03	2.05	2.02	2.03	2.68	2.15	2.08

Academic coordinator

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KOMARAPALAYAM – 637303
Department of Aeronautical Engineering
Mapping of COs with POs and PSOs

R2020 for PG (Aeronautical Engineering)

PROGRAM LEVEL COURSE – PO MATRIX OF ALL COURSES INCLUDING FIRST YEAR COURSES															
COURSE CODE	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12	PSO 01	PSO 02	PSO 03
C101	1	1.67	1	1.5	1	1	1.3	1.5	1.2	1.5	1	1.67	1	2	2
C102	2	3	2.4	2.6	1.6	1.2	-	-	1.8	-	-	2	2	1	1
C103	2	1.25	1.33	1	1.5	1	1	1	-	1	-	1	2	3	2
C104	1	-	2	-	1.2	1	-	-	-	2	-	1	-	2	1
C105	1	3	2.8	-	-	2	2	-	1.2	3	-	3	1	3	1
C106	1	1.6	-	2.75	1.75	1	1	1	1.8	-	1	1.2	1	3	3
C107	3	3	3	2	2.8	2	2	-	-	1	-	1	3	3	-
C201	2	1.5	-	2	-	-	-	-	1.5	-	-	-	-	2	-
C202	2	2.8	2	-	1.2	1	1	1	-	-	-	1	-	3	1
C203	3	3	-	0	-	-	-	1	1.5	-	-	1	-	1	1
C204	1	-	2	-	1.2	1	-	-	-	2	-	1	-	2	1
C205	1	3	2.8	-	-	2	2	-	1.2	3	-	3	1	3	1
C206	2	3	3	3	-	2	-	3	-	-	1	3	1	1	-
C207	3	-	-	2.4	2.6	-	-	1	-	1	-	3	3	1	-
C301	2	2	-	3	-	-	-	1.7	-	-	-	3	1	2	1
C302	2	3	3	3	-	2	-	3	-	-	1	3	1	1	-
C303	3	-	-	2.4	2.6	-	-	1	-	1	-	3	3	1	-
C304	2	3	3	3	-	2	-	3	-	-	1	3	1	1	-
C305	3	-	-	2.4	2.6	-	-	1	-	1	-	3	3	1	-
C401	3	1	-	-	-	-	2	1	-	-	2	1	1	1	-
AVERAGE	2.00	2.39	2.36	2.22	1.82	1.48	1.54	1.55	1.46	1.65	1.17	2.05	2.33	1.93	1.15
80% of Average	1.60	1.91	1.89	1.77	1.46	1.18	1.23	1.24	1.17	1.32	0.93	1.64	1.86	1.25	1.36
20% of Indirect	0.60	0.60	0.60	0.60	0.60	0.60	0.60	0.60	0.60	0.60	0.60	0.60	0.6	0.6	0.6
PO s Target	2.20	2.51	2.49	2.37	2.06	1.78	1.83	1.84	1.77	1.92	1.53	2.24	2.62	1.32	1.31

ACADEMIC COORDINATOR

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DEPARTMENT OF AERONAUTICAL ENGINEERING

R - 2017			
S.NO	Course Code	Sub Code	Course Title
SEMESTER - I			
1	C101	HS8151	Communicative English
2	C102	MA8151	Engineering Mathematics - I
3	C103	PH8151	Engineering Physics
4	C104	CY8151	Engineering Chemistry
5	C105	GE8151	Problem Solving and Python Programming
6	C106	GE8152	Engineering Graphics
7	C107	GE8161	Problem Solving and Python Programming Laboratory
8	C108	BS8161	Physics and Chemistry Laboratory
SEMESTER - II			
9	C109	HS8251	Technical English
10	C110	MA8251	Engineering Mathematics - II
11	C111	PH8251	Materials Science
12	C112	BE8253	Basic Electrical, Electronics and Instrumentation Engineering
13	C113	GE8291	Environmental Science and Engineering
14	C114	GE8292	Engineering Mechanics
15	C115	GE8261	Engineering Practices Laboratory
16	C116	BE8261	Basic Electrical, Electronics and Instrumentation Engineering Laboratory
SEMESTER - III			
17	C201	MA8353	Transforms and Partial Differential Equations
18	C202	ME8392	Manufacturing Technology
19	C203	AE8301	Aero Engineering Thermodynamics
20	C204	CE8394	Fluid Mechanics and Machinery
21	C205	CE8395	Strength of Materials for Mechanical Engineers
22	C206	AE8302	Elements of Aeronautical Engineering
23	C207	CE8381	Strength of Materials and Fluid Mechanics & Machinery Laboratory
24	C208	AE8311	Thermodynamics Laboratory
25	C209	HS8381	Interpersonal Skills/Listening & Speaking
SEMESTER - IV			

26	C210	MA8491	Numerical Methods
27	C211	AE8401	Aerodynamis - I
28	C212	AE8402	Aircraft Systems and Instruments
29	C213	PR8451	Mechanics of Machines
30	C214	AE8403	Aircraft Structures - I
31	C215	AE8404	Propulsion - I
32	C216	ME8381	Computer Aided Machine Drawing
33	C217	AE8411	Aerodynamics Laboratory
		SEMESTER - V	
34	C301	AE8501	Flight Dynamics
35	C302	AE8502	Aircraft Structures - II
36	C303	AE8503	Aerodynamics - II
37	C304	AE8504	Propulsion - II
38	C305	AE8505	Control Engineering
39	C306	OCE551	Air Pollution and Control Engineering
40	C307	OAT551	Automotive Systems
41	C308	OBM551	Bio Chemistry
42	C309	OIC551	Biomedical Instrumentation
43	C310	OIT552	Cloud Computing
44	C311	OIT551	Database Management Systems
45	C312	OME551	Energy Conservation and Management
46	C313	OAI551	Environment and Agriculture
47	C314	OPT551	Fibre Reinforced Plastics
48	C315	OCE552	Geographic Information System
49	C316	OME553	Industrial Safety Engineering
50	C317	OAT552	Internal Combustion Engines
51	C318	OML551	Introduction To Nanotechnology
52	C319	OIM552	Lean Manufacturing
53	C320	OBM552	Medical Physics
54	C321	OML552	Microscopy
55	C322	OAI552	Participatory Water Resources Management
56	C323	OCH552	Principles of Chemical Engineering
57	C324	OBT554	Principles of Food Preservation
58	C325	OMF551	Product Design and Development
59	C326	OAI553	Production Technology of Agricultural Machinery
60	C327	ORO551	Renewable Energy Sources
61	C328	OAN551	Sensors and Transducers
62	C329	OIC552	State Variable Analysis And Design
63	C330	OTL553	Telecommunication Network Management
64	C331	OIM551	World Class Manufacturing
65	C332	AE8511	Aircraft Structures Laboratory
66	C333	AE8512	Propulsion Laboratory

67	C334	HS8581	Professional Communication
		SEMESTER - VI	
68	C335	AE8601	Finite Element Method
69	C336	AE8602	Experimental Aerodynamics
70	C337	AE8603	Composite Materials and Structures
71	C338	AE8604	Aircraft Design
72	C339	AE8605	Experimental Stress Analysis
73	C340	PR8072	New Product Development
74	C341	AE8001	Space Mechanics
75	C342	AE8002	Aircraft General Engineering and Maintenance Practices
76	C343	AE8003	Heat Transfer
77	C344	GE8075	Intellectual Property Rights
78	C345	GE8073	Fundamentals of Nano Science
79	C346	AE8611	Aero Engine and Airframe Laboratory
80	C347	AE8612	Computer Aided Simulation Laboratory
81	C348	AE8613	Aircraft Design Project - I
		SEMESTER - VII	
82	C401	GE8077	Total Quality Management
83	C402	AE8751	Avionics
84	C403	ME8093	Computational Fluid Dynamics
85	C404	OAI751	Agricultural Finance, Banking and Co-operation
86	C405	OEE751	Basic Circuit Theory
87	C406	OGI751	Climate Change and its Impact
88	C407	OCS751	Data Structures and Algorithms
89	C408	OML752	Electronic Materials
90	C409	OCE751	Environmental and Social Impact Assessment
91	C410	OGI752	Fundamentals of Planetary Remote Sensing
92	C411	OEN751	Green Building Design
93	C412	OAI752	Integrated Water Resources Management
94	C413	OEI 751	Introduction to Embedded Systems
95	C414	OMF751	Lean Six Sigma
96	C415	OAN751	Low Cost Automation
97	C416	OMT751	MEMS and NEMS
98	C417	ORO751	Nano Computing
99	C418	OEC755	Photonic Networks
100	C419	OCH751	Process Modeling and Simulation
101	C420	OAT751	Production of Automotive Components
102	C421	OIE751	Robotics
103	C422	OML753	Selection of Materials
104	C423	OME753	Systems Engineering
105	C424	OML751	Testing of Materials

106	C425	OAT752	Vehicle Styling and Design
107	C426	OTT751	Weaving Mechanisms
108	C427	OPR751	Basics in Manufacturing and Metal Cutting Process
109	C428	OPR752	Processing of Polymer and Composites
110	C429	OMV751	Marine Vehicles
111	C430	AE8004	Helicopter Theory
112	C431	AE8005	Aero Engine Maintenance and Repair
113	C432	AE8006	UAV Systems
114	C433	AE8007	Aircraft Materials
115	C434	AE8008	Vibration and Elements of Aeroelasticity
116	C435	GE8071	Disaster Management
117	C436	AE8009	Airframe Maintenance and Repair
118	C437	AE8010	Fatigue and Fracture
119	C438	PR8071	Lean Six Sigma
120	C439	ME8097	Non Destructive Testing and Evaluation
121	C440	GE8074	Human Rights
122	C441	AE8711	Aircraft Systems Laboratory
123	C442	AE8712	Flight Integration Systems and Control Laboratory
124	C443	AE8713	Aircraft Design Project - II
SEMESTER - VIII			
125	C444	AE8011	Hypersonic Aerodynamics,
126	C445	AE8012	Wind Tunnel Techniques
127	C446	AE8013	Rockets and Missiles
128	C447	AE8014	Structural Dynamics
129	C448	AE8015	Industrial Aerodynamics
130	C449	PR8491	Computer Integrated Manufacturing
131	C450	AE8016	Flight Instrumentation
132	C451	AE8017	Theory Of Elasticity
133	C452	AE8018	Air Traffic Control and Planning
134	C453	MG8591	Principles of Management
135	C454	GE8076	Professional Ethics in Engineering
136	C455	AE8811	Project Work

Incharge

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2018-22 BATCH

CO ATTAINMENT

COURSE CODE	CO 1	CO2	CO3	CO4	CO5	CO Average
SEMESTER I						
C101	3.0	1.0	2.0	2.0	2.0	2.0
C102	3.0	3.0	3.0	3.0	3.0	3.0
C103	1.7	1.7	1.7	1.7	1.7	1.7
C104	1.7	1.7	1.7	1.7	1.7	1.7
C105	1.7	1.7	1.7	1.7	1.7	1.7
C106	1.7	1.7	1.7	1.7	1.7	1.7
C107	3.0	3.0	3.0	3.0	3.0	3.0
C108	3.0	3.0	3.0	3.0	3.0	3.0
C109	3.0	3.0	3.0	3.0	3.0	3.0
SEMESTER II						
C110	3.0	3.0	3.0	3.0	3.0	3.0
C111	1.08	1.08	1.08	1.08	1.08	1.1
C112	1.1	1.1	1.1	1.1	1.1	1.1
C113	1.08	1.08	1.08	1.08	1.08	1.1
C114	1.72	1.72	1.72	1.72	1.72	1.7
C115	1.1	1.1	1.1	1.1	1.1	1.1
C116	3	3	3	3	3	3.0
C117	3.0	3.0	3.0	3.0	3.0	3.0
SEMESTER III						
C201	1.7	1.7	1.7	1.7	1.7	1.7
C202	1.7	1.7	1.7	1.7	1.7	1.7
C203	1.2	1.2	1.2	1.7	1.7	1.4
C204	1.7	1.7	1.7	1.7	1.7	1.7
C205	1.7	1.7	1.7	1.7	1.7	1.7
C206	2.2	2.2	2.2	2.2	2.2	2.2
C207	3.0	3.0	3.0	3.0	3.0	3.0
C208	3.0	3.0	3.0	3.0	3.0	3.0
C209	3.0	3.0	3.0	3.0	3.0	3.0
SEMESTER IV						
C210	1.1	1.1	1.1	1.1	1.1	1.1
C211	1.3	1.1	1.8	1.9	1.7	1.6
C212	1.4	1.1	1.1	1.1	1.1	1.1
C213	1.1	1.1	1.1	1.1	1.1	1.1
C214	1.1	1.1	1.1	1.1	1.1	1.1
C215	3.0	1.5	1.4	1.5	1.5	1.8
C216	1.7	1.7	1.7	1.7	1.7	1.7
C217	1.9	1.7	1.9	1.8	1.8	1.8
C218	3.0	3.0	3.0	3.0	3.0	3.0

COURSE CODE	CO 1	CO2	CO3	CO4	CO5	CO Average
SEMESTER V						
C301	1.6	1.8	1.0	1.0	1.6	1.4
C302	1.56	1.56	0.96	0.96	1.56	1.3
C303	3.0	3.0	2.4	2.4	3.0	2.8
C304	1.6	1.8	1.0	1.0	2.5	1.6
C305	2.6	2.7	1.8	1.8	2.5	2.3
C306	2.0	2.0	1.4	1.4	2.0	1.8
C307	2.0	2.0	1.4	1.4	2.0	1.8
C308	2.0	2.8	1.4	1.4	3.0	2.1
C309	3.0	3.0	2.4	2.4	3.0	2.8
SEMESTER VI						
C310	3.0	3.0	2.4	2.4	3.0	2.8
C311	3.0	3.0	2.4	2.4	3.0	2.8
C312	3.0	3.0	2.4	2.4	3.0	2.8
C313	3.0	3.0	2.4	2.4	3.0	2.8
C314	3.0	3.0	2.4	2.4	3.0	2.8
C315	3.0	3.0	2.4	2.4	3.0	2.8
C316	3.0	3.0	2.4	2.4	3.0	2.8
C317	3.0	3.0	2.4	2.4	3.0	2.8
C318	2.4	2.4	2.4	3.0	3.0	2.6
C319	3.0	2.4	3.0	3.0	2.4	2.8
SEMESTER VII						
C401	3.0	3.0	2.4	2.4	3.0	2.8
C402	3.0	3.0	2.4	2.4	3.0	2.8
C403	3.0	3.0	2.4	2.4	3.0	2.8
C404	3.0	3.0	2.4	2.4	3.0	2.8
C405	3.0	3.0	2.4	2.4	3.0	2.8
C406	3.0	3.0	2.4	2.4	3.0	2.8
C407	3.0	3.0	2.4	2.4	3.0	2.8
C408	3.0	3.0	2.4	2.4	3.0	2.8
C409	3.0	3.0	2.4	2.4	3.0	2.8
SEMESTER VIII						
C410	3	3	2.4	2.4	3	2.8
C411	3.0	3.0	2.4	2.4	3.0	2.8
C412	3.0	3.0	2.4	2.4	3.0	2.8
C413	3.0	3.0	2.4	2.4	2.4	2.6

Academic coordinator

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HOD / AERONAUTICAL ENGINEERING
EXCEL ENGINEERING COLLEGE,
KOMARAPALAYAM - 637 303.

EXCEL ENGINEERING COLLEGE

(Autonomous)

Approved by AICTE, New Delhi & Affiliated to Anna University, Chennai

Accredited by NBA(AERO, CSE, ECE, MECH & NAAC with "A+" and Recognised by UGC (2f &12B)

KOMARAPALAYAM – 637303

DEPARTMENT OF AERONAUTICAL ENGINEERING

2018-22 BATCH

CO- PO ATTAINMENT

COURSE CODE	PO 1	PO 2	PO 3	PO 4	PO 5	PO 6	PO 7	PO 8	PO 9	PO 1	PO 11	PO 12	PSO 1	PSO 2	PSO 3
SEMESTER I															
C101	1.0	1.7	1.0	1.5	1.0	1.0	1.3	1.5	1.2	1.5		1.7			
C102	1.7	1.7	1.4	1.5	0.9	0.7			1.0			1.2			
C103	1.5	0.7	0.8	0.6	0.9	0.6	0.9	0.6		0.6		0.6			
C104	0.9	0.9		1.6	0.9	0.6	0.6	1.0			1.1	0.7			
C105	1.7	1.7	1.7	1.7	1.6	1.2	1.2			0.6		0.6			
C106	3.0	3.0	2.0	1.0	3.0	3.0	3.0		2.0	3.0		3.0			
C107	3.0	3.0	3.0	3.0	3.0	2.0	2.0			1.0	2.0	1.0			
C108	2.4	2.0	2.5	2.0	2.0	1.5	2.3	1.0	1.4	1.0	1.6	2.2			
C109	2.8	1.6	-	1.5	1.0	1.5	2.8	1.3	1.4	1.0	1.0	2.0	-		-
SEMESTER II															
C110	2.0	1.7	1.8	2.7	1.5	1.5	2.0	1.4	1.0	2.0	1.3	1.5			
C111	1.0	1.0	0.9	0.9	0.7	0.6			0.7			0.9			
C112	0.9	0.5	0.7	0.7	0.9	0.6	0.5	0.4		0.4		0.7	0.4	0.7	0.7
C113	1.1	0.7	0.8	0.5	0.8	0.5	0.4			0.8	0.6	0.7	0.9	0.4	
C114	1.4	1.3	1.1	1.1	1.3	1.0			0.9		0.8	1.4			
C115	1.1	1.1	1.1	1.1	0.7	1.1	1.1		0.7	0.4	0.4	1.1			
C116	1.5	2.5	2.7		1.3			1.0			1.3	1.8			
C117	3.0	2.6	2.6	3.0	2.0	2.0	2.6	2.0	3.0	2.6	1.0	3.0	2.6	1.0	1.0
SEMESTER III															
C201	2.4	2.8	2.0	2.2	0.0	1.0	1.0	1.0	0.0	0.0	0.0	1.0		1.7	1.7
C202	2.4	2.8	2.0	2.2	0.0	1.0	1.0	1.0	0.0	0.0	0.0	1.0		1.7	
C203	3.0	3.0	0.0	2.6	0.0	0.0	0.0	1.0	0.0	0.0	0.0	1.0	1.0	0.0	0.0
C204	2.4	0.0	0.0	0.0	0.0	1.0	0.0	0.0	0.0	2.0	0.0	1.0		2.0	2.0
C205	3.0	0.0	0.0	0.0	0.0	2.0	2.6	3.0	0.0	0.0	0.0	1.0		1.0	1.0
C206	3.0	0.0	1.0	0.0	0.0	2.0	0.0	2.4	2.0	1.0	3.0	1.0	0.4	1.2	
C207	2.0	2.8	2.4	0.0	2.4	0.6	0.0	0.0	0.0	0.0	1.2	0.0	3.0	3.0	
C208	2.4	0.0	0.0	0.0	2.4	0.6	0.0	0.0	0.0	0.0	1.2	0.0	3.0	3.0	
C209	3.0	0.0	0.0	0.0	2.4	0.6	0.0	0.0	0.0	0.0	1.2	0.0	3.0	3.0	3.0

COURSE CODE	PO 1	PO 2	PO 3	PO 4	PO 5	PO 6	PO 7	PO 8	PO 9	PO 1	PO 11	PO 12	PSO 1	PSO 2	PSO 3
SEMESTER IV															
C210	3.0	0.0	0.0	2.6	-	0.0	1.0	-	-	-	-	2.0		1.0	1.0
C211	2.0	1.4	1.5	1.5	-	0.0	0.0	-	-	-	-	0.5	1.0	0.0	
C212	3.0	0.0	0.0	2.0	-	2.0	2.8	-	1.2	1.4	-	0.0		0.0	0.0
C213	2.4	0.0	0.0	2.6	-	0.0	1.0	1.0	0.0	0.0	1.2	2.0		1.0	
C214	3.0	0.0	0.0	2.0	-	2.0	2.8	0.0	0.0	0.0	0.0	0.0		0.0	0.0
C215	2.4	2.5	0.0	1.8	-	0.0	0.0	0.8	0.0	0.0	0.0	0.6	0.6	0.0	1.0
C216	3.0	2.5	2.0	0.0	1.2	0.0	0.0	2.4	2.0	1.0	3.0	1.0	3.0	1.6	
C217	3.0	2.6	0.0	2.8	0.0	1.6	0.0	0.0	2.0	2.0	0.0	1.0	1.0	0.0	0.0
C218	3.0	2.5	2.4	2.6	0.0	1.0	0.0	1.0	2.0	2.0	0.0	1.0		1.0	1.0
SEMESTER V															
C301	2.9	1.9	2.6	1.9	-	1.7	1.7	-	-	-	0.9	1.3	-	0.9	
C302	2.9	2.9	2.9	2.9	2.9	2.9	2.9	2.9	2.9	2.9	1.9	2.9	2.9	2.9	
C303	1.4	-	-	1.1	1.2	-	-	0.5	-	0.5	-	0.5	0.5	0.5	0.5
C304	1.4	1.3	0.9	1.2	-	-	-	-	-	-	-	0.5	0.9	-	-
C305	3.0	2.8	2.2	2.8	-	1.8	-	3.0	-	-	1.0	1.0	-	2.2	2.2
C306	2.8	-	-	2.4	2.6	-	-	1.0	-	1.0	-	1.0	-	1.0	1.0
C307	3.0	3.0	3.0	3.0	3.0	3.0	3.0	3.0	3.0	3.0	3.0	3.0	3.0	3.0	
C308	2.6	1.7	1.7	2.6	-	0.9	-	0.9	1.7	1.7	-	-	0.9	-	-
C309	2.4	-	-	2.8	2.3	0.9	-	0.9	-	1.7	-	0.9	0.9	1.4	1.4
SEMESTER VI															
C310	2.8	-	2.6	2.8	3.0	-	-	-	1.0	-	-	-	2.8	3.0	
C311	3.0	3.0	2.6	3.0	3.0	3.0	3.0	3.0	2.0	2.6	2.0	3.0	3.0	3.0	
C312	3.0	3.0	2.6	3.0	3.0	3.0	3.0	3.0	2.0	2.6	2.0	3.0	3.0	3.0	
C313	2.8	-	2.6	-	2.8	-	-	-	1.0	2.0	-	2.0	2.8	3.0	3.0
C314	3.0	2.8	2.0	2.4	-	-	1.8	2.6	-	-	-	1.0	1.0	-	-
C315	2.6	2.0	2.2	2.6	-	1.8	-	3.0	-	-	-	1.0	1.0	-	-
C316	2.6	2.5	-	2.2	2.2	-	-	-	1.2	-	-	1.2	2.0	-	-
C317	2.6	1.7	1.7	2.6	-	0.9	-	0.9	1.7	1.7	-	0.9	1.7	-	-
C318	2.6	2.6	2.2	2.4	2.4	2.0	2.0	3.0	1.8	3.0	3.0	1.2	2.8	3.0	3.0
C319	-	0.6	-	0.4	-	0.2	2.4	-	0.2	3.0	-	-	1.0	2.0	
SEMESTER VII															
C401	1.0	-	-	-	0.4	2.0	-	3.0	1.6	-	1.8	1.0	-	2.4	2.4
C402	1.0	-	-	-	0.4	2.0	-	3.0	1.6	-	1.8	1.0	2.0	-	-
C403	2.8	2.2	-	1.6	2.6	-	-	1.0	-	2.0	-	1.0	3.0	1.0	1.0
C404	2.8	2.3	2.7	-	-	2.0	2.4	1.8	-	-	1.8	1.0	-	2.0	
C405	2.6	2.6	2.4	2.6	3.0	3.0	3.0	3.0	3.0	3.0	3.0	3.0	2.4	2.6	2.6
C406	2.6	2.6	2.4	2.6	3.0	3.0	3.0	3.0	3.0	3.0	3.0	3.0	2.4	2.6	
C407	2.6	2.4	2.4	2.4	2.7	-	1.2	-	1.6	-	-	-	3.0	1.0	1.0
C408	2.6	2.4	2.4	2.4	2.7	-	1.2	-	1.6	-	-	-	3.0	1.0	
C409	2.6	2.7	-	-	-	1.8	-	2.2	-	3.0	-	-	1.0	3.0	3.0

COURSE CODE	PO 1	PO 2	PO 3	PO 4	PO 5	PO 6	PO 7	PO 8	PO 9	PO 1	PO 11	PO 12	PSO 1	PSO 2	PSO 3
SEMESTER VIII															
C410	3.0	2.0	-	-	-	-	1.4	1.0	-	-	2.7	2.0	-	-	-
C411	2.7	-	0.8	-	-	-	2.0	1.8	-	-	-	1.0	1.0	-	-
C412	2.7	2.4	-	-	-	1.8	-	1.7	-	3.0	-	-	1.7	2.0	3.0
C413	2.7	2.2	2.2	2.7	2.7	1.8	3.0	3.0	2.2	3.0	2.4	2.2	3.0	3.0	
DIRECT ATTAINENT (80%)	2.6	2.4	2.4	2.2	2.2	1.8	1.9	1.8	2.0	2.1	2.0	2.0	2.7	2.3	2.1
	2.1	1.9	1.9	1.8	1.7	1.4	1.6	1.4	1.6	1.6	1.6	1.6	2.1	1.7	1.7
INDIRECT ATTAINMENT (20%)	2.6	2.4	2.4	2.2	2.2	1.8	1.9	1.8	2.0	2.1	2.0	2.0	2.7	2.3	2.1
	0.5	0.5	0.5	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.5	0.4	0.4
TOTAL ATTAINMENT (100%)	2.58	2.41	2.42	2.23	2.18	1.81	1.94	1.79	2.03	2.05	2.02	2.03	2.68	2.15	2.08

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