

## **2.6.2     *Attainment of PO's and CO's are evaluated***

### ***PO's and CO's ATTAINMENT***

# ***DEPARTMENT OF BBA- AVIATION MANAGEMENT (CBCS)***

No.31/1, Kadusonnapanahalli, Hennur-Bagalur Road, Kannur, Bangalore - 562149

**REGULATIONS PERTAINING TO B.B.A AVIATION (CBCS) DEGREE  
SEMESTER SCHEME 2014 - 15****I. OBJECTIVES :**

1. To develop ethical managers with inter disciplinary knowledge'
2. To develop entrepreneurs
3. To prepare students to take the responsibility of full line of Finance function of a company with special reference to SME sector.
4. To prepare students to take the responsibility of full line of Marketing function of a company with special reference to SME sector.
5. To prepare students to take the responsibility of full line of Human Resource function of a company with special reference to SME sector.
6. To develop IT enabled global middle level managers for solving real life business problems.
7. To develop business analysts for companies, capital markets and commodity markets.
8. To prepare students to take up higher education to become business scientists, researchers consultants and teachers, with core competencies.
9. Also to develop the students for competitive examinations of UPSC, KPSC, BSRB, Staff Selection Commission, etc.

**II. ELIGIBILITY FOR ADMISSION :**

Candidates who have completed Two years Pre – University course of Karnataka State or its equivalent are eligible for admission into this course.

**III. DURATION OF THE COURSE:**

The course of study is four (04) years of Eight Semesters. A candidate shall complete his/her degree within eight (08) academic years from the date of his/her admission to the first semester. However, students successfully complete Two (02) years of the course and leave the course, will be awarded Diploma in Commerce. Students successfully completes Three (03) years of the course will be awarded Bachelors Degree in Management (B.B.M). An option is provided to the students to continue the course to the Fourth year and those who successfully complete the Fourth year will be awarded Bachelors Degree in Management (Hon.) {B.B.M, (Hon.)}.

**IV. MEDIUM OF INSTRUCTION**

The medium of instruction shall be in English.

**V. CLASS ROOM STRENGTH OF STUDENTS**

There shall be Maximum of 60 students in each section.

**VI. ATTENDANCE:**

- a. For the purpose of calculating attendance, each semester shall be taken as a Unit.
- b. A student shall be considered to have satisfied the requirement of attendance for the semester, if he/she has attended not less than 75% in aggregate of the number of working periods in each of the subjects compulsorily.
- c. A student who fails to complete the course in the manner stated above shall not be permitted to take the University examination.

**VII. COURSE MATRIX**

See Annexure – 1

**VIII. TEACHING AND EVALUATION:**

M.Com/MBA/MFA/MBS graduates with B.Com, B.B.M, BBA & BBS as basic degree from a recognized university are only eligible to teach and to evaluate the subjects (excepting languages, compulsory additional subjects and core Information Technology related subjects) mentioned in this regulation. Languages and additional subjects shall be taught by the graduates as recognized by the respective board of studies.

**VIII. SKILL DEVELOPMENT / RECORD MAINTENANCE AND SUBMISSION:**

- a. Every college is required to establish a dedicated business lab for the purpose of conducting practical/on line assignments to be written in the record.
- b. In every semester, the student should maintain a Record Book in which a minimum of 5 exercises/programs per subject are to be recorded. This Record has to be submitted to the Faculty for evaluation at least 15 days before the end of each semester.

**IX. SCHEME OF EXAMINATION:**

- There shall be a university examination at the end of each semester. The maximum marks for the university examination in each paper shall be 70.
- Of the 30 marks of Internal Assessment, 20 marks shall be based on Two tests. Each test shall be of at least 01 hour duration to be held during the semester. The average of two tests shall be taken as the internal assessment marks. The remaining 10 marks of the Internal Assessment shall be based on Attendance and Skill Development Record of 05 marks each.
- The marks based on attendance shall be awarded as given below:

75% to 80%	= 02 marks.
81% to 85%	= 03 marks.
86% to 90%	= 04 marks.
91% to 100%	= 05 marks.

- Marks for skill development shall be awarded by the faculty concerned based on Skill Development exercises provided in the syllabus of each paper. The student is required to prepare/workout the concerned exercises in a Record Book maintained by him/her and shall submit it the faculty concerned at least 15 days before the last date of the semester.

**X. PROJECT REPORT AND VIVA-VOCE:**

- The Project report in the sixth semester carries 100 marks (70 marks for project report and 30 marks for viva – voce) which shall form part of Sixth semester examination.
- There shall be single valuation of project report and this will be done simultaneously along with Vive - Voce. Internal Assessment does not carry any marks.
- A batch of Two (02) Project Report and Viva – Voce Examiners shall evaluate and conduct Viva - Voce examinations for a maximum of Thirty (30) Project Reports and Conduct Viva – Voce Examinations for the same candidates.
- The principal of the college shall submit the project reports of the students, to the university within three days after the completion of Viva - Voce examination.
- Candidate shall obtain a minimum of 40% marks (Including Viva-Voce) in this subject (project Report) failing which he she shall revise and resubmit before the commencement of the next examination. However, no student shall be allowed to resubmit the project report after three consecutive chances.
- The student who fails to submit the project report shall not be permitted to take the examination.

- g) The board of examiners or their nominees“ shall conduct viva-voce examination for Project Report.

## **XI. APPEARANCE FOR THE EXAMINATION:**

- a) A candidate shall apply for all the parts in each examination when he/she appears for the first time. A candidate shall be considered to have appeared for the examination only if he/she has submitted the prescribed application for the examination along with the required fees to the university.
- b) A candidate who has passed any language under Part-I shall be eligible to claim exemption from the study of the language if he/she has studied and passed the language at the corresponding level.
- c) Further, candidates shall also be eligible to claim exemption from studying and passing in those commerce subjects which he/she has studied and passed at the corresponding level, subject to the conditions stipulated by the university.
- d) A candidate who is permitted to seek admission to this degree course on transfer from any other University shall have to study and pass the subjects which are prescribed by the University. Such candidates shall not however, be eligible for the award of ranks.

## **XII. MINIMUM FOR A PASS:**

Candidates who have obtained a minimum of 35% marks in university examination (i.e. 25 marks out of 70 marks of theory examination) and 40% in aggregate (i.e., total of university examination and internal assessment marks) in each subject shall be eligible for a pass or exemption in that subject.

## **XIII. CLASSIFICATION OF SUCCESSFUL CANDIDATES:**

1. The results of the First to Sixth semester degree examination shall be declared and classified separately as follows:
  - a. First Class: Those who obtain 60% and above of the total marks of parts I, II and III.
  - b. Second Class: Those who obtain 50% and above but less than 60% of total marks of parts I, II and III.
  - c. Pass Class: Rest of the successful candidates who secure 40% and above but less than 50% of marks in part I, II and III.
2. Class shall be declared on the basis of the aggregate marks obtained by the candidates in this degree course (excluding languages (part I) and non-core subjects (Part III)) as a whole. However, only those candidates who have passes each semester university examination in the

first attempt only shall be eligible for award of ranks. The first ten ranks only shall be notified.

#### **XIV. MEDALS AND PRIZES:**

No candidates passing an external examination shall be eligible for any scholarship, fellowship, medal, prize or any other award.

#### **XV. TERMS AND CONDITIONS:**

- a) A candidate is allowed to carry all the previous unleared papers to the subsequent semester/semesters.
- b) Such of those candidates who have failed/remained absent for one or more papers henceforth called as repeaters, shall appear for exam in such paper/s during the three immediately succeeding examinations. There shall be no repetition for internalassessment test.
- c) The candidate shall take the examination as per the syllabus and the scheme of examination in force during the subsequent appearances.

#### **XVI. PATTERN OF QUESTION PAPER:**

Each theory question paper shall carry 70 marks and the duration of examination is 3 hours. The Question paper shall ordinarily consist of three sections, to develop testing of conceptual skills, understanding skills, comprehension skills, articulation and application of skills. The question paper setter shall be asked to prepare TWO sets of papers with a maximum of 10% repetition. The Question Paper will be as per the following Model:

<b>SECTION-A</b> 1. a,b,c,d,e,f,g,	(Conceptual questions) Answer any Five	(05 X 02 = 10 Marks)
<b>SECTION -B:</b> 2,3,4,5,6.	(Analytical questions) Answer any Three	(03 X 06 = 18 Marks)
<b>SECTION-C:</b> 7,8,9,10,11.	(Essay type questions) Answer any THREE	(03 X 14 = 42 Marks)
<b>Total</b>		<b>70 Marks</b>

#### **XVII. PROVISION FOR IMPROVEMENT OF RESULTS:**

The candidate shall be permitted to improve the results of the whole examination or of any Semester or a subject within the prescribed time by the university after the publication of the results. This provision shall be exercised only once during the course and the provision once exercised shall not be revoked. The application for improvement of results shall be submitted to the Registrar (Evaluation) along with the prescribed fee.

#### **XVIII. REMOVAL OF DIFFICULTY AT THE COMMENCEMENT OF THESE REGULATIONS:**

If any difficulty arises while giving effect to the provision of these Regulations, the Vice Chancellor may in extraordinary circumstances, pass such orders as he may deem fit.



Recognized by Govt. of Karnataka | Recognized by UGC with 2(f) | permanently affiliated to Bengaluru  
North University

NAAC Accredited Institution | ISO 9001-2015 Certified Institution

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**DEPARTMENT OF  
BBA-Aviation Management**

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### **VISION**

“To spearhead aviation education, fostering innovation, excellence and sustainability by nurturing a diverse community of aspiring aviation professionals empowered with advanced competencies and universal human values to address the industry dynamic challenges”

### **MISSION**

“To empower young talents for the aviation industry by commitment to excellence in education, innovation and industry partnerships, while upholding the highest standards of ethics, values, morale and attitude, preparing graduates to thrive in a dynamic and evolving aerospace landscape

### **Program Educational Outcome**

**PEO1.** Prepare graduates with a strong foundation in aviation management principles, with practical skills and knowledge to analyse and solve complex problems encountered in various aspects of the aviation industry

**PEO2.** Foster leadership qualities and teamwork abilities to enable graduates to effectively manage diverse teams and projects within aviation organizations.

**PEO4.** Develop graduates who possess a global perspective and understanding of the interconnectedness of the aviation industry with other sectors of the economy.

**PEO5.** Prepare graduates to adapt to the dynamic and evolving nature of the aviation industry by instilling a commitment to lifelong learning and professional development.

## **Program Outcome**

**PO1.** Critical Thinking and creativity- Analysing complex problems and identifying opportunities for novel solutions through interdisciplinary approaches and generating innovative ideas to address societal, scientific, and business challenges.

**PO2.** Team work and Collaboration - To work effectively in teams, demonstrating collaboration, interpersonal skills, and the ability to leverage diverse perspectives to achieve common goals and objectives.

**PO3.** Business Ethics and social Responsibility- To have an awareness of ethical challenges within business environments and exhibit a dedication to upholding ethical standards and promoting social responsibility in their professional conduct.

**PO4:** Self-directed and Lifelong learning- To embody a commitment to lifelong learning and research, continuously seeking new knowledge and methodologies to innovate, solve problems, and contribute to their respective fields

## **Program Specific Outcome**

**PSO1.** Aviation Industry Knowledge and Competence: Graduates will exhibit a comprehensive understanding of the aviation industry, including airline operations, airport management, aviation regulations, safety protocols, ground handling, aircraft maintenance, and passenger services.

**PSO2.** Customer Service Excellence and Regulatory Compliance: Graduates will demonstrate knowledge of aviation regulations and compliance requirements set forth by regulatory bodies and equipped with the skills to provide exceptional customer service experiences within the aviation industry, fostering positive relationships with passengers, clients, and stakeholders.

**PSO3. Industry Networking:** Graduates will have established professional networks within the aviation industry through internships, industry partnerships, and networking opportunities, facilitating career advancement and professional growth.

**PSO4. Financial & Organisational Management:** Graduates will be proficient in aviation-specific financial management practices, including budgeting, cost control, revenue management, and financial analysis within the context of aviation organizations.

**BENGALURU NORTH UNIVERSITY KOLAR - 563103**

**Model Curriculum Structure for**

**BBA-Aviation Management Programme (BBAAM Degree)**

**(Choice based credit system-Semester Scheme)**

Semester	Course Code	Title of the Paper
I	A021	Introduction to aviation and airline industry
	A022	Fundamentals of accountancy
	A023	Principles of airline and airport operations
	A024	Entrepreneurship and Project management
II	B021	Organisational Behaviour
	B022	Economics for Executives
	B023	Mathematics for Management
	B024	Cost and Management Accounting
III	C021	Business Communication
	C022	Production and Material Management
	C023	Marketing Management
	C024	Management Information System
	C025	Income Tax
	C026	Retail Management
	C027	Airline and Travel and Tourism Industry –Introduction
IV	D021	Human Resource Management

	D022	Financial Management
	D023	Principles of Airlines and Airport Management
	D024	PC Software –Theory and Practical
	D025	Logistics and Air cargo management
	D026	Business Law
	D027	Consumer Behaviour
	<b>V</b>	E021
E022		Airline Finance and Insurance
E023		Aviation law and Aircraft Rules and Regulations
E024		Air Traffic Control
E025		Air Transportation Safety and Security
E026		Mini Project on Airport Operations
<b>VI</b>	F021	Airport Strategic Planning
	F022	Airline and Airport Marketing Management
	F023	Service Marketing
	F024	Aircraft Maintenance Management
	F025	Customer Relationship Management
	F026	Major Project on Airport operations

## Course Outcome:

### I semester

Subject Code :A021	MANAGEMENT PROCESS
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At the end of this course, Students will be able to

CO-1	Understand basic concept of management and its Application
CO-2	Understand principles of management
CO-3	Understand Concept of organization, delegation of authority & MBO
CO-4	Understand Significance of staffing
CO-5	Understand The importance of control in the Management

### Attainment of Outcomes

#### Course: Management Process

CO	Course Outcome	Knowledge category ( <i>Factual/ Conceptual/ Procedural/ Metacognitive</i> )	Cognitive Level	No. of hours	POs/PSOs
CO1	Understand basic concept of management and its application	<i>Factual &amp; Procedural</i>	Analyze and Understand	08	PO1,PO2,PSO1
CO2	Understand principles of management	<i>Factual &amp; Procedural</i>	Analyze and Understand	12	PO1,PO2,PSO1,PSO2
CO3	Understand Concept of organization, delegation of authority & MBO	<i>Factual &amp; Procedural</i>	Analyze and Understand	12	PO1,PO2,PSO1,PSO3

CO4	Significance of staffing	<i>Factual &amp; Procedural</i>	Analyze and Understand	12	PO1,PO2,PSO1,PSO4
CO5	The importance of control in the management	<i>Factual &amp; Procedural</i>	Analyze and Understand	12	PO1,PO2,PSO1,PSO2

**Direct Attainment of COs**

**Assessment Plan for CIE**

CO	A1 (5)	A2 (5)	T1 (10)	T2 (10)
CO1	1	1	4	0
CO2	1	1	4	0
CO3	1	1	2	2
CO4	1	1	0	4
CO5	1	1	0	4

**Attainment of COs from CIE**

**Class average in CIE (As Calculated)**

CO	A1 Cl. Ave (5)	A2 Cl. Ave (5)	T1 Cl. Ave (10)	T2 Cl. Ave (10)	CIE Class Average (%)
CO1	0.88	0.88	3.52	0	88
CO2	0.9	0.9	3.6	0	90
CO3	0.86	0.86	1.72	1.72	86
CO4	0.85	0.85	0	3.4	85
CO5	0.87	0.87	0	3.48	87

**Attainment of COs from SEE**

CO	Class Average in SEE
CO1	45
CO2	45
CO3	45
CO4	45
CO5	45

**Computation of CO Direct Attainment in the course:**

CO	CIE Cl. Ave	SEE Cl. Ave	Direct CO Attainment $0.3 * \text{CIE Cl. Ave} + 0.7 * \text{SEE Cl. Ave}$
CO1	88	45	57.9
CO2	90	45	58.5
CO3	86	45	57.3
CO4	85	45	57
CO5	87	45	57.6

**Targets:** Targets are set for each CO of a course separately as

CO	Target (Class Average)
CO1	59
CO2	60
CO3	62
CO4	57
CO5	56
CO6	80

### CO Attainment Gap

CO	CO Attainment	Target (Class Average)	CO attainment Gap CA-COA
CO1	77	59	1
CO2	77.3	60	1.5
CO3	76.4	62	4.7
CO4	76.1	57	0
CO5	76.1	56	-1.6

### Closure of the Quality Loop for COs:

	Target	CO Attainment gap (%)	Action proposed to bridge the gap	Modification of target where achieved
CO1	59	1	Assignments to be given	60
CO2	60	1.5	Assignments to be given	62
CO3	62	4.7	Question paper solving and Assignments	65
CO4	57	0		
CO5	56	-1.6		



**CO-PO/PSO Mappings**

CO	POs/PSOs	Class Sessions
CO1	PO1,PO2,PSO1	08
CO2	PO1,PO2,PSO1,PSO2	12
CO3	PO1,PO2,PSO1,PSO3	12
CO4	PO1,PO2,PSO1,PSO4	12
CO5	PO1,PO2,PSO1,PSO2	12

**Course – PO/PSO Mapping Strength (0,1,2,3) 100%-3 below 40-99-2%, below 40%-1**

Percentage of Sessions devoted to each PO/PSO	Mapping Strength
56 out of 56 (100%) devoted to PO1	3
56 out of 56 (100%) devoted to PO2	3
56 out of 56 (100%) devoted to PSO1	3
24 out of 56 (43%) devoted to PSO2	2
12 out of 56 (22%) devoted to PSO3	1
12 out of 56 (22%) devoted to PSO4	1

**Course-POs/PSO Mapping**

Course	POs											PSOs						
	1	2	3	4	5	6	7	8	9	1	1	1	1	2	3	4	5	
TOC	3	3												3	2	1	1	

**CO Attainment and POs/PSOs**

CO	POs	CO Attainment (%ge)
CO1	PO1,PO2,PSO1	77
CO2	PO1,PO2,PSO1,PSO2	77.3

CO3	PO1,PO2,PSO1,PSO3	76.4
CO4	PO1,PO2,PSO1,PSO4	76.1
CO5	PO1,PO2,PSO1,PSO2	76.1

**PO and PSO Attainment**

Attainment of PO/PSO = (Average of attainments of relevant COs) x Scale Factor  
 Scale Factor = (Actual Mapping Strength / Maximum Possible Mapping Strength)  
 = Actual Mapping Strength / 3

PO/PSO	Attainment (%)
PO1	$3/3(77+77.3+76.4+76.1+76.1)/5= 76.58$
PO2	$3/3(77+77.3+76.4+76.1+76.1)/5= 76.58$
PSO1	$3/3(77+77.3+76.4+76.1+76.1)/5= 76.58$
PSO2	$2/3(77.3+76.1)/2= 51.13$
PSO3	$1/3(76.4)/1= 25.46$
PSO4	$1/3(76.1)/1= 25.3$

**Attainment of POs and PSOs**

Course	POs	PSOs
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	1	2	3	4	5	6	7	8	9	10	11	12	1	2	3	4	5
MGP	3	3											3	2	1	1	
Attainment	0.76	0.76											0.76	0.51	0.25	0.25	

Subject Code: .A022	FINANACIAL ACCOUNTING
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At the end of this course, Students will be able to

CO-1	Student will understand about the branches of accounting
CO-2	To create the knowledge on the business entity concepts and revenue recognition
CO-3	Develop the knowledge of reason for differences in cash book and pass book..
CO-4	They will be able to understand different types of heads involved in balance sheet
CO-5	Students will understand the importance of preparing account of non-trading institution.

**Course: FINANCIAL ACCOUNTING**

CO	Course Outcome	Knowledge category (Factual/ Conceptual/ Procedural/ Metacognitive)	Cognitive Level	No. of hours	POs/PSOs
CO1	Student will understand about the branches of accounting	Factual & Procedural	Analyze and Understand	08	PO1,PO2,PSO1
CO2	To create the knowledge on the business entity concepts and revenue recognition	Factual & Procedural	Analyze and Understand	12	P01,PO2,PSO1,PSO2

CO3	Develop the knowledge of reason for differences in cash book and pass book	<i>Factual &amp; Procedural</i>	Analyze and Understand	12	PO1,PO2,PSO1,PSO3
CO4	They will be able to understand different types of heads involved in balance sheet	<i>Factual &amp; Procedural</i>	Analyze and Understand	12	PO1,PO2,PSO1,PSO4
CO5	Students will understand the importance of preparing account of non-trading institution	<i>Factual &amp; Procedural</i>	Analyze and Understand	12	P01,PO2,PSO1,PSO2

**CO Attainment**

**Direct Attainment of COs  
 Assessment Plan for CIE**

CO	A1 (5)	A2 (5)	T1 (10)	T2 (10)
CO1	1	1	4	0
CO2	1	1	4	0
CO3	1	1	2	2
CO4	1	1	0	4
CO5	1	1	0	4

**Attainment of COs from CIE  
 Class average in CIE (As Calculated)**

CO	A1 Cl. Ave (5)	A2 Cl. Ave (5)	T1 Cl. Ave (10)	T2 Cl. Ave (10)	CIE Class Average (%) (assumption)
CO1	0.91	0.91	3.64	0	91
CO2	0.88	0.88	3.52	0	88
CO3	0.86	0.86	1.72	1.72	86
CO4	0.92	0.92	0	3.68	92
CO5	0.87	0.87	0	3.48	87

#### Attainment of COs from SEE

CO	Class Average in SEE
CO1	49
CO2	49
CO3	49
CO4	49
CO5	49

#### Computation of CO Direct Attainment in the course:

CO	CIE Cl. Ave	SEE Cl. Ave	Direct CO Attainment $0.3 * \text{CIE Cl. Ave}$ $+0.7 * \text{SEE Cl. Ave}$
CO1	91	49	61.6
CO2	88	49	60.7
CO3	86	49	60.1
CO4	92	49	61.9

CO5	87	49	60.4
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**Targets:** Targets are set for each CO of a course separately as

CO	Target (Class Average)
CO1	62
CO2	63
CO3	64
CO4	58
CO5	59
CO6	60

#### CO Attainment Gap

CO	CO Attainment	Target (Class Average)	CO attainment Gap CA-COA
CO1	61.6	62	0
CO2	60.7	63	2.3
CO3	60.1	64	3.9
CO4	61.9	58	-3.9
CO5	60.4	59	-1.4

#### Closure of the Quality Loop for COs:

	Target	CO Attainment gap (%)	Action proposed to bridge the gap	Modification of target where achieved
CO1	62	0		
CO2	63	2.3	Question paper solving	
CO3	64	3.9	Assignments to be given	
CO4	58	-3.9		60
CO5	59	-1.4		62

### CO-PO/PSO Mappings

CO	POs/PSOs	Class Sessions
CO1	PO1,PO2,PSO1	08
CO2	PO1,PO2,PSO1,PSO2	12
CO3	PO1,PO2,PSO1,PSO3	12
CO4	PO1,PO2,PSO1,PSO4	12
CO5	PO1,PO2,PSO1,PSO2	12

### Course – PO/PSO Mapping Strength (0,1,2,3) 100%-3 below 40-99-2%, below 40%-1

Percentage of Sessions devoted to each PO/PSO	Mapping Strength
56 out of 56 (100%) devoted to PO1	3
56 out of 56 (100%) devoted to PO2	3
56 out of 56 (100%) devoted to PSO1	3
24 out of 56 (43%) devoted to PSO2	2
12 out of 56 (22%) devoted to PSO3	1
12 out of 56 (22%) devoted to PSO4	1

### Course-POs/PSO Mapping

Course	POs	PSOs
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	1	2	3	4	5	6	7	8	9	1	1	1	1	2	3	4	5
FAC	3	3												3	2	1	1

### CO Attainment and POs/PSOs

CO	POs	CO Attainment (%ge)
CO1	PO1,PO2,PSO1	61.6
CO2	PO1,PO2,PSO1,PSO2	60.7
CO3	PO1,PO2,PSO1,PSO3	60.1
CO4	PO1,PO2,PSO1,PSO4	61.9
CO5	PO1,PO2,PSO1,PSO2	60.4

### PO and PSO Attainment

Attainment of PO/PSO = (Average of attainments of relevant COs) x Scale Factor  
 Scale Factor = (Actual Mapping Strength / Maximum Possible Mapping Strength)  
 = Actual Mapping Strength / 3

PO/PSO	Attainment (%)
PO1	61
PO2	61
PSO1	61
PSO2	40
PSO3	20

### Attainment of POs and PSOs



Course	POs												PSOs				
	1	2	3	4	5	6	7	8	9	10	11	12	1	2	3	4	5
TOC																	
Attainment	.61	.61											.61	.60	.40	0.20	

Subject Code:A023	<b>Mathematics for Management</b>
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At the end of this course, Students will be able to

CO-1	Students will develop the knowledge different method of Collection. classification and diagrammatic representation of the data..
CO-2	Students can enhance the knowledge about different measure such as mean, median, mode, standard Deviation.
CO-3	It gives the clear idea about the relationship between the Variables and its mathematical measurement.
CO-4	It will help them understand the concept such as simple interest and the compound
CO-5	It gives a understanding on the concept of consumer price index number and its applications and measurement of trend.

**Course: MATHEMATICS FOR MANAGEMENT - I**

CO	Course Outcome	Knowledge category ( <i>Factual/ Conceptual/ Procedural/ Metacognitive</i> )	Cognitive Level	No. of hours	POs/PSOs
CO1	Students will develop the knowledge different method of	<i>Factual &amp; Procedural</i>	Analyze and Understand	08	PO1,PO2,PSO1

	collection. classification and diagrammatic representation of the data				
CO2	Students can enhance the knowledge about different measure such as mean, median, mode, standard deviation	<i>Factual &amp; Procedural</i>	Analyze and Understand	12	P01,PO2,PSO1,PSO2
CO3	It gives the clear idea about the relationship between the variables and its mathematical measurement	<i>Factual &amp; Procedural</i>	Analyze and Understand	12	P01,PO2,PSO1,PSO3
CO4	It will help them understand the concept such as simple interest and the compound	<i>Factual &amp; Procedural</i>	Analyze and Understand	12	P01,PO2,PSO1,PSO4
CO5	It gives an understanding on the concept of consumer price index number and its applications and measurement of trend.	<i>Factual &amp; Procedural</i>	Analyze and Understand	12	P01,PO2,PSO1,PSO2

**CO Attainment**

**Direct Attainment of COs  
 Assessment Plan for CIE**

CO	A1 (5)	A2 (5)	T1 (10)	T2 (10)
CO1	1	1	4	0
CO2	1	1	4	0
CO3	1	1	2	2
CO4	1	1	0	4
CO5	1	1	0	4

**Attainment of COs from CIE  
 Class average in CIE (As Calculated)**

CO	A1 Cl. Ave (5)	A2 Cl. Ave (5)	T1 Cl. Ave (10)	T2 Cl. Ave (10)	CIE Class Average (%) (assumption)
CO1	0.9	0.9	3.6	0	90
CO2	0.91	0.91	3.64	0	91
CO3	0.92	0.92	1.84	1.84	92
CO4	0.89	0.89	0	3.56	89
CO5	0.88	0.88	0	3.52	88

**Attainment of COs from SEE**

CO	Class Average in SEE
CO1	30

CO2	30
CO3	30
CO4	30
CO5	30

**Computation of CO Direct Attainment in the course:**

CO	CIE Cl. Ave	SEE Cl. Ave	Direct CO Attainment $0.3 * \text{CIE Cl. Ave}$ $+0.7 * \text{SEE Cl. Ave}$
CO1	90	30	48
CO2	91	30	48.3
CO3	92	30	48.6
CO4	89	30	47.7
CO5	88	30	47.4

**Targets:** Targets are set for each CO of a course separately as

CO	Target (Class Average)
CO1	50
CO2	46
CO3	47
CO4	48
CO5	49
CO6	51

**CO Attainment Gap**

CO	CO Attainment	Target (Class Average)	CO attainment Gap <b>CA-COA</b>
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CO1	48	50	2
CO2	48.3	46	-2.3
CO3	48.6	47	-1.6
CO4	47.7	48	0.3
CO5	47.4	49	1.6

#### Closure of the Quality Loop for COs:

	Target	CO Attainment gap (%)	Action proposed to bridge the gap	Modification of target where achieved
CO1	78	2	Question paper solving	80
CO2	77	-2.3		
CO3	76	-1.6	Question paper solving	
CO4	75	0.3	Assignments to be given	78
CO5	79	1.6	Assignments to be given	80

#### CO-PO/PSO Mappings

CO	POs/PSOs	Class Sessions

CO1	PO1,PO2,PSO1	08
CO2	P01,PO2,PSO1,PSO2	12
CO3	PO1,PO2,PSO1,PSO3	12
CO4	PO1,PO2,PSO1,PSO4	12
CO5	P01,PO2,PSO1,PSO2	12

**Course – PO/PSO Mapping Strength (0,1,2,3) 100%-3 below 40-99-2%, below 40%-1**

Percentage of Sessions devoted to each PO/PSO	Mapping Strength
56 out of 56 (100%) devoted to PO1	3
56 out of 56 (100%) devoted to PO2	3
56 out of 56 (100%) devoted to PSO1	3
24 out of 56 (43%) devoted to PSO2	2
12 out of 56 (21%) devoted to PSO3	1
12 out of 56 (21%) devoted to PSO4	1

**Course-POs/PSO Mapping**

Course	POs											PSOs					
	1	2	3	4	5	6	7	8	9	1	1	1	1	2	3	4	5
MTM	3	3											3	2	1	1	

**CO Attainment and POs/PSOs**

CO	POs	CO Attainment (%)
CO1	PO1, PO2, PSO1	48
CO2	PO1,PO2,PSO1,PSO2	48.3
CO3	PO1,PO2,PSO1,PSO3	48.6
CO4	PO1,PO2,PSO1,PSO4	47.7

CO5	PO1,PO2,PSO1,PSO2	47.4
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### PO and PSO Attainment

Attainment of PO/PSO = (Average of attainments of relevant COs) x Scale Factor  
 Scale Factor = (Actual Mapping Strength / Maximum Possible Mapping Strength)  
 = Actual Mapping Strength / 3

PO/PSO	Attainment (%)
PO1	$3/3(48+48.3+48.6+47.7+47.4)/5= 48.02$
PO2	$3/3(48+48.3+48.6+47.7+47.4)/5= 48.02$
PSO1	$3/3(48+48.3+48.6+47.7+47.4)/5= 48.02$
PSO2	$2/3(48.3+47.4)/2= 31.9$
PSO3	$1/3(48.6)/1= 16.2$
PSO4	$1/3(47.7)/1= 15.9$

### Attainment of POs and PSOs

Course	POs												PSOs				
	1	2	3	4	5	6	7	8	9	10	11	12	1	2	3	4	5
MTM	3	3											3	2	1	1	
Attainment	0.48	0.48											0.48	0.31	0.16	0.15	

Subject Code:A024	<b>Entrepreneurship and Project Management</b>
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At the end of this course, Students will be able to

CO-1	Student should be able to define who is an Entrepreneur and Understand t3 what his or her characteristic features are' what skills made them successful and what qualities are required to become an Entrepreneur..
CO-2	Students should be able to understand the concept of Business environment and the various factors influencing it .Government and its role in encouraging and supporting Entrepreneurship through various services including EDP training programs
CO-3	Students are expected to get capabilities to select Products doing a Prefeasibility report and evaluate it
CO-4	Students should be able to explain the various issues involved in stating a venture , apply the growth strategies and scaling up the venture and also how to launch a product
CO-5	Students are equipped to start a venture , monitor and evaluate it for avoiding sickness, how to revive sick units and effectively manage small business units

### Course: ENTREPRENEURSHIP AND PROJECT MANAGEMENT

CO	Course Outcome	Knowledge category ( <i>Factual/ Conceptual/ Procedural/ Metacognitive</i> )	Cognitive Level	No. of hours	POs/PSOs
CO 1	Student should be able to define who is an Entrepreneur and what his or her characteristic features are' what skills made them successful and what qualities are required to become an	<i>Factual &amp; Procedural</i>	Analyze and Understand	08	PO1,PO2,PSO1



	Entrepreneur				
CO2	Students should be able to understand the concept of business environment and the various factors influencing it, government and its role in encouraging and supporting entrepreneurship through various services including EDP training programs	<i>Factual &amp; Procedural</i>	Analyze and Understand	12	PO1,PO2,PSO1,PSO2
CO3	Students are expected to get the capabilities to select products doing a pre feasibility study, and prepare a feasibility report and evaluate it	<i>Factual &amp; Procedural</i>	Analyze and Understand	12	PO1,PO2,PSO1,PSO3
CO4	Students should be able to explain the various issues involved in starting a venture, apply	<i>Factual &amp; Procedural</i>	Analyze and Understand	12	PO1,PO2,PSO1,PSO4

	the growth strategies and scaling up the venture and also how to launch a product				
CO5	Students are equipped to start a venture, monitor and evaluate it for avoiding sickness, how revive sick units and effectively manage small business units	<i>Factual &amp; Procedural</i>	Analyze and Understand	12	P01,PO2,PSO1,PSO2

**CO Attainment**

**Direct Attainment of COs**

**Assessment Plan for CIE**

CO	A1 (5)	A2 (5)	T1 (10)	T2 (10)
CO1	1	1	4	0
CO2	1	1	4	0
CO3	1	1	2	2
CO4	1	1	0	4
CO5	1	1	0	4

**Attainment of COs from CIE**

**Class average in CIE (As Calculated)**

CO	A1 Cl. Ave (5)	A2 Cl. Ave (5)	T1 Cl. Ave (10)	T2 Cl. Ave (10)	CIE Class Average (%)

					(assumption)
CO1	0.89	0.89	3.56	0	89
CO2	0.9	0.9	3.6	0	90
CO3	0.87	0.87	1.74	1.74	87
CO4	0.88	0.88	0	3.52	88
CO5	0.91	0.91	0	3.64	91

**Attainment of COs from SEE**

CO	Class Average in SEE
CO1	37
CO2	37
CO3	37
CO4	37
CO5	37

**Computation of CO Direct Attainment in the course:**

CO	CIE Cl. Ave	SEE Cl. Ave	Direct CO Attainment 0.3 * CIE Cl. Ave +0.7 * SEE Cl. Ave
CO1	89	37	52.6
CO2	90	37	52.9
CO3	87	37	52
CO4	88	37	52.3
CO5	91	37	53.2

**Targets:** Targets are set for each CO of a course separately as

CO	Target (Class Average)
CO1	54
CO2	55
CO3	56
CO4	50
CO5	49
CO6	48

### CO Attainment Gap

CO	CO Attainment	Target (Class Average)	CO attainment Gap CA-COA
CO1	52.6	54	1.4
CO2	52.9	55	2.1
CO3	52	56	4
CO4	52.3	50	-2.3
CO5	53.2	49	-4.2

### Closure of the Quality Loop for COs:

	Target	CO Attainment gap (%)	Action proposed to bridge the gap	Modification of target where achieved
CO1	54	1.4	Assignments to be given	

CO2	55	2.1	Assignments to be given	
CO3	56	4	Question paper solving	
CO4	50	-2.3		52
CO5	49	-4.2		50

**CO-PO/PSO Mappings**

CO	POs/PSOs	Class Sessions
CO1	PO1,PO2,PSO1	08
CO2	P01,PO2,PSO1,PSO2	12
CO3	PO1,PO2,PSO1,PSO3	12
CO4	PO1,PO2,PSO1,PSO4	12
CO5	P01,PO2,PSO1,PSO2	12

**Course – PO/PSO Mapping Strength (0,1,2,3) 100%-3 below 40-99-2%, below 40%-1**

Percentage of Sessions devoted to each PO/PSO	Mapping Strength
56 out of 56 (100%) devoted to PO1	3
56out of 56 (100%) devoted to PO2	3
56out of 56 (100%) devoted to PSO1	3
24 out of 56 (43%) devoted to PSO2	2
12 out of 56 (22%) devoted to PSO3	1
12 out of 56 (22%) devoted to PSO4	1

**Course-POs/PSO Mapping**

Course	POs											PSOs						
	1	2	3	4	5	6	7	8	9	1	1	1	1	2	3	4	5	
EPM	3	3												3	2	1	1	

### CO Attainment and POs/PSOs

CO	POs	CO Attainment (%)
CO1	PO1,PO2,PSO1	52.6
CO2	PO1,PO2,PSO1,PSO2	52.9
CO3	PO1,PO2,PSO1,PSO3	52
CO4	PO1,PO2,PSO1,PSO4	52.3
CO5	PO1,PO2,PSO1,PSO2	53.2

### PO and PSO Attainment

Attainment of PO/PSO = (Average of attainments of relevant COs) x Scale Factor

Scale Factor = (Actual Mapping Strength / Maximum Possible Mapping Strength)

= Actual Mapping Strength / 3

PO/PSO	Attainment (%)
PO1	52.6
PO2	52.6
PSO1	52.6
PSO2	35.3
PSO3	17.3
PSO4	17.4

### Attainment of POs and PSOs

Course	POs									PSOs							
	1	2	3	4	5	6	7	8	9	10	11	12	1	2	3	4	5
EPM	3	3											3	2	1	1	
Attainment	0.5	0.5											0.5	0.3	0.1	0.1	
	2	2											2	5	7	7	

## II semester

BO21	<b>Organisational Behaviour</b>
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CO-1	General history of management theory and practice and frame how organizational behaviour has developed from these into a discreet field
CO-2	Organizational behaviour and differentiate between the three levels of influence
CO-3	Contemporary issues and topics in organizational behaviour
CO-4	The history of leadership as a topic inside organizational behaviour
CO-5	Various organizational structure and their history

CO	Course Outcome	Knowledge category ( <i>Factual/ Conceptual/ Procedural/ Metacognitive</i> )	Cognitive Level	No. of hours	POs/PSOs

CO1	General history of management theory and practice and frame how organizational behaviour has developed from these into a discreet field	Factual, conceptual		08	PO1, PO2, PSO1, PSO2, PSO3
CO2	Organizational behaviour and differentiate between the three levels of influence	Factual, conceptual		12	PO1, PO3, PSO1, PSO3
CO3	Contemporary issues and topics in organizational behaviour	Factual, conceptual		12	PO1, PO2, PO3, PSO1, PSO2
CO4	The history of leadership as a topic inside organizational behaviour	Factual, conceptual, metacognitive		12	PO2, PO3, PSO1, PSO2
CO5	Various organizational structure and their history	Factual, conceptual, metacognitive		12	PO1, PO3, PSO1, PSO3

### CO Attainment

#### Direct Attainment of COs

#### Assessment Plan for CIE

CO	A1 (5)	A2 (5)	T1 (10)	T2 (10)
CO1	1	1	4	0
CO2	1	1	4	0
CO3	1	1	2	2
CO4	1	1	0	4
CO5	1	1	0	4

#### Attainment of COs from CIE



**Class average in CIE (As Calculated)**

CO	A1 Cl. Ave (5)	A2 Cl. Ave (5)	T1 Cl. Ave (10)	T2 Cl. Ave (10)	CIE Class Average (%) (assumption)
CO1	0.89	0.89	3.56	0	89
CO2	0.88	0.88	3.52	0	88
CO3	0.87	0.87	1.74	1.74	87
CO4	0.86	0.86	0	3.44	86
CO5	0.85	0.85	0	3.4	85

**Attainment of COs from SEE**

CO	Class Average in SEE
CO1	74
CO2	74
CO3	74
CO4	74
CO5	74

**Computation of CO Direct Attainment in the course:**

CO	CIE Cl. Ave	SEE Cl. Ave	Direct CO Attainment $0.3 * \text{CIE Cl. Ave} + 0.7 * \text{SEE Cl. Ave}$
CO1	89	74	78.5
CO2	88	74	78.2

CO3	87	74	77.9
CO4	86	74	77.6
CO5	85	74	77.3

**Targets:** Targets are set for each CO of a course separately as

CO	Target (Class Average)
CO1	80
CO2	78
CO3	76
CO4	75
CO5	74

#### CO Attainment Gap

CO	CO Attainment	Target (Class Average)	CO attainment Gap CA-COA
CO1	78.5	80	1.5
CO2	78.2	78	-0.2
CO3	77.9	76	-1.9
CO4	77.6	75	-2.6
CO5	77.3	74	-3.3

**Closure of the Quality Loop for COs:**

	Target	CO Attainment gap (%)	Action proposed to bridge the gap	Modification of target where achieved
CO1	80	1.5	Model question papers	82
CO2	78	-0.2		
CO3	76	-1.9		
CO4	75	-2.6		
CO5	74	-3.3		

### CO-PO/PSO Mappings

CO	POs/PSOs	Class Sessions
CO1	PO1, PO2, PSO1, PSO2, PSO3	08
CO2	PO1, PO3, PSO1, PSO3	12
CO3	PO1, PO2, PO3, PSO1, PSO2	12
CO4	PO2, PO3, PSO1, PSO2	12
CO5	PO1, PO3, PSO1, PSO3	12

### Course – PO/PSO Mapping Strength (0,1,2,3) 100%-3 below 40-99-2%, below 40%-1

Percentage of Sessions devoted to each PO/PSO	Mapping Strength
44 out of 56 (79%) devoted to PO1	2
32 out of 56 (57%) devoted to PO2	2
48 out of 56 (86%) devoted to PO3	2
56 out of 56 (100%) devoted to PSO1	3
32 out of 56 (57%) devoted to PSO2	2
32 out of 56 (57%) devoted to PSO3	2

### Course-POs/PSO Mapping

Course	POs									PSOs								
	1	2	3	4	5	6	7	8	9	1	1	1	1	2	3	4	5	
ORB	2	2	2											3	2	2		

### CO Attainment and POs/PSOs

CO	POs	CO Attainment (%ge)
CO1	PO1, PO2, PSO1, PSO2, PSO3	78.5
CO2	PO1, PO3, PSO1, PSO3	78.2
CO3	PO1, PO2, PO3, PSO1, PSO2	77.9
CO4	PO2, PO3, PSO1, PSO2	77.6
CO5	PO1, PO3, PSO1, PSO3	77.3

### PO and PSO Attainment

Attainment of PO/PSO = (Average of attainments of relevant COs) x Scale Factor  
 Scale Factor = (Actual Mapping Strength / Maximum Possible Mapping Strength)  
 = Actual Mapping Strength / 3

PO/PSO	Attainment (%)
PO1	$\frac{2}{3}(78.5+78.2+77.9+77.3)/4= 51.9$
PO2	$\frac{2}{3}(78.5+77.9+77.6)/3= 52$
PO3	$\frac{2}{3}(78.2+77.9+77.6+77.3)/4= 51.8$
PSO1	$3/3(78.5+78.2+77.9+77.6+77.3)/5= 77.9$
PSO2	$\frac{2}{3}(78.5+77.9+77.6)/3= 52$
PSO3	$\frac{2}{3}(78.5+78.2+77.3)/3= 77.3$

### Attainment of POs and PSOs

Course	POs									PSOs							
	1	2	3	4	5	6	7	8	9	10	11	12	1	2	3	4	5
ORB	2	2	2										3	2	2		

Attainment	0.5 1	0.5 2	0.5 1									0.7 7	0.5 2	0.7 7		
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BO22	<b>Economics for Executives</b>
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CO-1	The function of market and prices as allocative mechanisms.
CO-2	Apply the concept of equilibrium to both microeconomics and macroeconomics.
CO-3	Identify key macroeconomic indicators and measures of economics change, growth, and development.
CO-4	Identify and discuss the key concepts underlying comparative advantage
CO-5	Identify and explain major types of market failures.

CO	Course Outcome	Knowledge category (Factual/	Cognitive Level	No. of hours	POs/PSOs
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		<i>Conceptual/ Procedural/ Metacognitive)</i>			
CO1	The function of market and prices as allocative mechanisms.	<i>Factual, conceptual</i>	Analyse And understand	08	PO1,PO2,PO3, PSO1
CO2	Apply the concept of equilibrium to both microeconomics and macroeconomics.	<i>Factual, conceptual</i>	Analyse and understand	12	PO1,PO2,PSO1,PSO2
CO3	Identify key macroeconomic indicators and measures of economics change, growth, and development.	<i>Factual, conceptual and procedural</i>	Analyse and understand	12	PO1,PO2, PO3, PSO1,PSO2, PSO3
CO4	Identify and discuss the key concepts underlying comparative advantage	<i>Factual &amp; Procedural</i>	Analyse and understand	12	PO1,PO2,PSO1,PSO4
CO5	Identify and explain major types of market failures.	<i>Factual &amp; Procedural</i>	Analyse and understand	12	P01,PO2,PSO1,PSO2, PSO4

### CO Attainment

**Direct Attainment of COs**

**Assessment Plan for CIE**

CO	A1 (5)	A2 (5)	T1 (10)	T2 (10)
CO1	1	1	4	0
CO2	1	1	4	0
CO3	1	1	2	2
CO4	1	1	0	4
CO5	1	1	0	4

**Attainment of COs from CIE**

**Class average in CIE (As Calculated)**

CO	A1 Cl. Ave (5)	A2 Cl. Ave (5)	T1 Cl. Ave (10)	T2 Cl. Ave (10)	CIE Class Average (%) (assumption)
CO1	0.89	0.89	3.56	0	89
CO2	0.88	0.88	3.52	0	88
CO3	0.87	0.87	1.74	1.74	87
CO4	0.86	0.86	0	3.44	86
CO5	0.85	0.85	0	3.4	85

**Attainment of COs from SEE**

CO	Class Average in SEE
CO1	74
CO2	74
CO3	74
CO4	74
CO5	74

### Computation of CO Direct Attainment in the course:

CO	CIE Cl. Ave	SEE Cl. Ave	Direct CO Attainment $0.3 * \text{CIE Cl. Ave} + 0.7 * \text{SEE Cl. Ave}$
CO1	89	74	78.5
CO2	88	74	78.2
CO3	87	74	77.9
CO4	86	74	77.6
CO5	85	74	77.3

**Targets:** Targets are set for each CO of a course separately as

CO	Target (Class Average)
CO1	81
CO2	79
CO3	77
CO4	76
CO5	76

### CO Attainment Gap

CO	CO Attainment	Target (Class Average)	CO attainment Gap <b>CA-COA</b>
CO1	78.5	81	2.5
CO2	78.2	79	0.8
CO3	77.9	77	-0.9
CO4	77.6	76	-1.6
CO5	77.3	76	-1.3

### Closure of the Quality Loop for COs:

Target	CO Attainment gap (%)	Action proposed to bridge the gap	Modification of target where achieved



CO1	81	2.5	Model question papers	83
CO2	79	0.8	Model question papers	80
CO3	77	-0.9		
CO4	76	-1.6		
CO5	76	-1.3		

### CO-PO/PSO Mappings

CO	POs/PSOs	Class Sessions
CO1	PO1,PO2,PO3, PSO1	08
CO2	PO1,PO2,PSO1,PSO2	12
CO3	PO1,PO2, PO3, PSO1,PSO2, PSO3	12
CO4	PO1,PO2,PSO1,PSO4	12
CO5	PO1,PO2,PSO1,PSO2, PSO4	12

### Course – PO/PSO Mapping Strength (0,1,2,3)100%-3 below 40-99-2%, below 40%-1

Percentage of Sessions devoted to each PO/PSO	Mapping Strength
56 out of 56 (100%) devoted to PO1	3
56 out of 56 (100%) devoted to PO2	3
20 out of 56 (36%) devoted to PO3	1
56 out of 56 (100%) devoted to PSO1	3
36 out of 56 (64%) devoted to PSO2	2
12 out of 56 (21%) devoted to PSO3	1
24 out of 56 (43%) devoted to PSO4	2

### Course-POs/PSO Mapping

Course	POs	PSOs
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	1	2	3	4	5	6	7	8	9	1	1	1	1	2	3	4	5
EC	3	3	1											3	2	1	2

### CO Attainment and POs/PSOs

CO	POs	CO Attainment (%ge)
CO1	PO1,PO2,PO3, PSO1	78.5
CO2	PO1,PO2,PSO1,PSO2	78.2
CO3	PO1,PO2, PO3, PSO1,PSO2, PSO3	77.9
CO4	PO1,PO2,PSO1,PSO4	77.6
CO5	PO1,PO2,PSO1,PSO2, PSO4	77.3

### PO and PSO Attainment

Attainment of PO/PSO = (Average of attainments of relevant COs) x Scale Factor  
 Scale Factor = (Actual Mapping Strength / Maximum Possible Mapping Strength)  
 = Actual Mapping Strength / 3

PO/PSO	Attainment (%)
PO1	$3/3(78.5+78.2+77.9+77.6+77.3)/5= 77.9$
PO2	$3/3(78.5+78.2+77.9+77.6+77.3)/5= 77.9$
PO3	$1/3(78.5+77.9)/2= 26.06$
PSO1	$3/3(78.5+78.2+77.9+77.6+77.3)/5= 77.9$
PSO2	$2/3(78.2+77.9+77.3)/3= 51.8$
PSO3	$1/3(77.9)/1= 25.9$
PSO4	$2/3(77.6+77.3)/2= 51.6$

### Attainment of POs and PSOs

Course	POs									PSOs							
	1	2	3	4	5	6	7	8	9	1	1	1	1	2	3	4	5
										0	1	1	2				

EC	3	3	1								3	2	1	2
Attainment	0.7	0.7	0.2								0.7	0.5	0.2	0.5
	7	7	6								7	1	5	1
BO23			<b>Mathematics for Management-II</b>											

CO-1	Understand the foundations of mathematics
CO-2	Be able to perform basic computations in higher mathematics
CO-3	Be able to read and understand basic proofs
CO-4	Be able to write and understand basic proofs
CO-5	Develop and maintain problem solving skills

CO	Course Outcome	Knowledge category ( <i>Factual/ Conceptual/ Procedural/ Metacognitive</i> )	Cognitive Level	No. of hours	POs/PSOs
CO1	Understand the foundations of mathematics	<i>Factual &amp; Procedural</i>	Analyse and understand	08	PO1,PO2,PSO1
CO2	Be able to perform basic computations in higher mathematics	<i>Factual &amp; Procedural</i>	Analyse and understand	12	PO1,PO2,PSO1,PSO2
CO3	Be able to read and understand basic proofs	<i>Factual &amp; Procedural</i>	Analyse and understand	12	PO1,PO2,PSO1,PSO3
CO4	Be able to write and understand basic proofs	<i>Factual &amp; Procedural</i>	Analyse and understand	12	PO1,PO2,PSO1,PSO4

CO5	Develop and maintain problem solving skills	<i>Factual &amp; Procedural</i>	Analyse and understand	12	P01,PO2,PSO1,PSO2
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### CO Attainment

#### Direct Attainment of COs

#### Assessment Plan for CIE

CO	A1 (5)	A2 (5)	T1 (10)	T2 (10)
CO1	1	1	4	0
CO2	1	1	4	0
CO3	1	1	2	2
CO4	1	1	0	4
CO5	1	1	0	4

#### Attainment of COs from CIE

#### Class average in CIE (As Calculated)

CO	A1 Cl. Ave (5)	A2 Cl. Ave (5)	T1 Cl. Ave (10)	T2 Cl. Ave (10)	CIE Class Average (%) (assumption)
CO1	0.89	0.89	3.56	0	89
CO2	0.88	0.88	3.52	0	88
CO3	0.87	0.87	1.74	1.74	87
CO4	0.86	0.86	0	3.44	86
CO5	0.85	0.85	0	3.5	85

#### Attainment of COs from SEE

CO	Class Average in SEE
CO1	73
CO2	73
CO3	73
CO4	73
CO5	73

**Computation of CO Direct Attainment in the course:**

CO	CIE Cl. Ave	SEE Cl. Ave	Direct CO Attainment 0.3 *CIE Cl. Ave +0.7 * SEE Cl. Ave
CO1	89	73	77.8
CO2	88	73	77.5
CO3	87	73	77.2
CO4	86	73	76.9
CO5	85	73	76.6

**Targets:** Targets are set for each CO of a course separately as

CO	Target (Class Average)
CO1	81
CO2	80
CO3	79
CO4	78
CO5	77

**CO Attainment Gap**

CO	CO Attainment	Target (Class Average)	CO attainment Gap CA-COA
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CO1	77.8	81	3.2
CO2	77.5	80	2.5
CO3	77.2	79	1.8
CO4	76.9	78	1.1
CO5	76.6	75	-1.6

#### Closure of the Quality Loop for COs:

	Target	CO Attainment gap (%)	Action proposed to bridge the gap	Modification of target where achieved
CO1	81	3.2	Assignments and model question paper	83
CO2	80	2.5	Assignments and model question paper	82
CO3	79	1.8	Model question papers	81
CO4	78	1.1	Model question papers	80
CO5	75	-1.6		

#### CO-PO/PSO Mappings

CO	POs/PSOs	Class Sessions
CO1	PO1,PO2,PSO1	08
CO2	PO1,PO2,PSO1,PSO2	12
CO3	PO1,PO2,PSO1,PSO3	12
CO4	PO1,PO2,PSO1,PSO4	12
CO5	PO1,PO2,PSO1,PSO2	12

#### Course – PO/PSO Mapping Strength (0,1,2,3)100%-3 below 40-99-2%, below 40%-1

Percentage of Sessions devoted to each PO/PSO	Mapping Strength
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56 out of 56 (100%) devoted to PO1	3
56 out of 56 (100%) devoted to PO2	3
56 out of 56 (100%) devoted to PSO1	3
24 out of 56 (43%) devoted to PSO2	2
12 out of 56 (21%) devoted to PSO3	1
12 out of 56 (21%) devoted to PSO4	1

### Course-POs/PSO Mapping

Course	POs									PSOs							
	1	2	3	4	5	6	7	8	9	1	1	1	1	2	3	4	5
MTM	3	3												3	2	1	1

### CO Attainment and POs/PSOs

CO	POs	CO Attainment (%)
CO1	PO1,PO2,PSO1	77.8
CO2	PO1,PO2,PSO1,PSO2	77.5
CO3	PO1,PO2,PSO1,PSO3	77.2
CO4	PO1,PO2,PSO1,PSO4	76.9
CO5	PO1,PO2,PSO1,PSO2	76.6

### PO and PSO Attainment

Attainment of PO/PSO = (Average of attainments of relevant COs) x Scale Factor  
 Scale Factor = (Actual Mapping Strength / Maximum Possible Mapping Strength)  
 = Actual Mapping Strength / 3

PO/PSO	Attainment (%)
PO1	$3/3(77.8+77.5+77.2+76.9+76.6)/5= 77.2$
PO2	$3/3(77.8+77.5+77.2+76.9+76.6)/5=77.2$

PSO1	$3/3(77.8+77.5+77.2+76.9+76.6)/5= 77.2$
PSO2	$2/3(77.5+76.6)/2= 51.3$
PSO3	$1/3(77.2)/1= 25.7$
PSO4	$1/3(76.9)/1= 25.6$

### Attainment of POs and PSOs

Course	POs											PSOs					
	1	2	3	4	5	6	7	8	9	10	11	12	1	2	3	4	5
MTM	3	3											3	2	1	1	
Attainment	0.7	0.7											0.7	0.5	0.2	0.2	
	7	7											7	1	5	5	

BO24	<b>Cost and Management Accounting</b>
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CO-1	To use and interpret the results of costing techniques appropriate to different activities and decision
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CO-2	Formulate and use standards and budgets for planning and control purpose
CO-3	Understand the role of responsibility accounting and performance
CO-4	Analyse the relationship between the cost-volume and profit
CO-5	Explain break-even sales price. break-even sales volume, the total contribution margin, the unit contribution margin, margin of safety. security ratio. profit margin concept

CO	Course Outcome	Knowledge category ( <i>Factual/ Conceptual/ Procedural/ Metacognitive</i> )	Cognitive Level	No. of hours	POs/PSOs
CO1	To use and interpret the results of costing techniques appropriate to different activities and decision	<i>Factual, conceptual or Procedural</i>	Analyse and understand	08	PO1,PO2,PSO1
CO2	Formulate and use standards and budgets for planning and control purpose	<i>Factual &amp; Procedural</i>	Analyse and understand	12	PO1,PO2,PSO1,PSO2
CO3	Understand the role of responsibility accounting and performance	<i>Factual &amp; Procedural</i>	Analyse and understand	12	PO1,PO2,PSO1,PSO3
CO4	Analyse the relationship between the cost-	<i>Factual &amp; Procedural</i>	Analyse and understand	12	PO1,PO2,PSO1,PSO4

	volume and profit				
CO5	Explain break-even sales price. break-even sales volume, the total contribution margin, the unit contribution margin, margin of safety. security ratio. profit margin concept	<i>Factual &amp; Procedural</i>	Analyse and understand	12	P01,PO2,PSO1,PSO2

**CO Attainment**

**Direct Attainment of COs**

**Assessment Plan for CIE**

CO	A1 (5)	A2 (5)	T1 (10)	T2 (10)
CO1	1	1	4	0
CO2	1	1	4	0
CO3	1	1	2	2
CO4	1	1	0	4
CO5	1	1	0	4

**Attainment of COs from CIE**

**Class average in CIE (As Calculated)**

CO	A1 Cl. Ave (5)	A2 Cl. Ave (5)	T1 Cl. Ave (10)	T2 Cl. Ave (10)	CIE Class Average (%) (assumption)
CO1	0.86	0.86	3.44	0	86

CO2	0.85	0.85	3.4	0	85
CO3	0.84	0.84	1.68	1.68	84
CO4	0.83	0.83	0	3.32	83
CO5	0.82	0.82	0	3.28	82

### Attainment of COs from SEE

CO	Class Average in SEE
CO1	73
CO2	73
CO3	73
CO4	73
CO5	73

### Computation of CO Direct Attainment in the course:

CO	CIE Cl. Ave	SEE Cl. Ave	Direct CO Attainment 0.3 *CIE Cl. Ave +0.7 * SEE Cl. Ave
CO1	86	73	76.9
CO2	85	73	76.6
CO3	84	73	76.3
CO4	83	73	76
CO5	82	73	75.7

**Targets:** Targets are set for each CO of a course separately as

CO	Target (Class Average)
CO1	80
CO2	79
CO3	77
CO4	77
CO5	74

### CO Attainment Gap

CO	CO Attainment	Target (Class Average)	CO attainment Gap CA-COA
CO1	76.9	80	3.1
CO2	76.6	79	2.4
CO3	76.3	77	0.7
CO4	76	77	1
CO5	75.7	74	-1.7

### Closure of the Quality Loop for COs:

	Target	CO Attainment gap (%)	Action proposed to bridge the gap	Modification of target where achieved
CO1	80	3.1	Assignments and model question papers	82
CO2	79	2.4	Assignments and model question papers	81
CO3	77	0.7	Model question papers	80
CO4	77	1	Model question papers	80
CO5	74	-1.7		

### CO-PO/PSO Mappings

CO	POs/PSOs	Class Sessions
CO1	PO1,PO2,PSO1	08
CO2	PO1,PO2,PSO1,PSO2	12
CO3	PO1,PO2,PSO1,PSO3	12
CO4	PO1,PO2,PSO1,PSO4	12
CO5	PO1,PO2,PSO1,PSO2	12

**Course – PO/PSO Mapping Strength (0,1,2,3) 100%-3 below 40-99-2%, below 40%-1**

Percentage of Sessions devoted to each PO/PSO	Mapping Strength
56 out of 56 (100%) devoted to PO1	3
56 out of 56 (100%) devoted to PO2	3
56 out of 56 (100%) devoted to PSO1	3
24 out of 56 (43%) devoted to PSO2	2
12 out of 56 (22%) devoted to PSO3	1
12 out of 56 (22%) devoted to PSO4	1

**Course-POs/PSO Mapping**

Course	POs											PSOs						
	1	2	3	4	5	6	7	8	9	1	1	1	1	2	3	4	5	
CMA	3	3												3	2	1	1	

**CO Attainment and POs/PSOs**

CO	POs	CO Attainment (%)
CO1	PO1,PO2,PSO1	76.9
CO2	PO1,PO2,PSO1,PSO2	76.6
CO3	PO1,PO2,PSO1,PSO3	76.3
CO4	PO1,PO2,PSO1,PSO4	76

CO5	PO1,PO2,PSO1,PSO2	75.7
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**PO and PSO Attainment**

Attainment of PO/PSO = (Average of attainments of relevant COs) x Scale Factor  
 Scale Factor = (Actual Mapping Strength / Maximum Possible Mapping Strength)  
 = Actual Mapping Strength / 3

PO/PSO	Attainment (%)
PO1	$3/3(76.9+76.6+76.3+76+75.7)/5= 76.3$
PO2	$3/3(76.9+76.6+76.3+76+75.7)/5= 76.3$
PSO1	$3/3(76.9+76.6+76.3+76+75.7)/5= 76.3$
PSO2	$2/3(76.6+75.7)/2= 50.7$
PSO3	$1/3(76.3)/1= 25.4$
PSO4	$1/3(76)/1= 25.3$

**Attainment of POs and PSOs**

Course	POs												PSOs				
	1	2	3	4	5	6	7	8	9	10	11	12	1	2	3	4	5
CMA	3	3											3	2	1	1	
Attainment	0.76	0.76											0.76	0.50	0.25	0.25	

### III semester

CO21	<b>Business Communication</b>
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CO-1	Understand the importance, methods, types and Barriers of Business Communication
CO-2	Understand the communication through Letters-Layout of letters-Offers and quotations-Orders-Claims-Adjustments and settlement, letters of Complaints and bank correspondence letters
CO-3	Understand Communication Through reports, Committees, applications for appointments
CO-4	Understand about internal communication, short speeches, memo, circulars, notices, explanation to superiors, precise writing, communication media, merits of various devices- Intercom, Telex and Telecom-Fax-Internet
CO-5	Understand about correspondence of company secretary with shareholders and directors, Agenda-Minutes-Preparation

CO	Course Outcome	Knowledge category ( <i>Factual/ Conceptual/ Procedural/ Metacognitive</i> )	Cognitive Level	No. of hours	POs/PSOs
CO1	Understand the importance, methods, types and Barriers of Business Communication	Factual, conceptual	Analyse, understand and remember	08	PO1, PO4, PSO2, PSO4
CO2	Understand the communication through Letters-Layout of letters-Offers and quotations-Orders-Claims-Adjustments and settlement, letters of Complaints and bank correspondence letters	Factual, conceptual	Analyse, understand and remember	12	PO1, PO4, PSO2, PSO3, PSO4

CO3	Understand Communication Through reports, Committees, applications for appointments	Factual, conceptual and procedural	Analyse, understand and remember	12	PO1, PO4, PSO2, PSO4
CO4	Understand about internal communication, short speeches, memo, circulars, notices, explanation to superiors, precise writing, communication media, merits of various devices- Intercom, Telex and Telecom-Fax-Internet	Factual, conceptual	Analyse, understand and remember	12	PO1, PO4, PSO2, PSO3, PSO4
CO5	Understand about correspondence of company secretary with shareholders and directors, Agenda-Minutes-Preparation	Factual, conceptual	Analyse, understand, apply and remember	12	PO1, PO4, PSO2, PSO4

**CO Attainment**

**Direct Attainment of COs**

**Assessment Plan for CIE**

CO	A1 (05)	A2 (05)	T1 (10)	T2 (10)
CO1	1	1	4	0
CO2	1	1	4	0
CO3	1	1	2	2
CO4	1	1	0	4
CO5	1	1	0	4



**Attainment of COs from CIE**  
**Class average in CIE (As Calculated)**

CO	A1 Cl. Ave (05)	A2 Cl. Ave (05)	T1 Cl. Ave (10)	T2 Cl. Ave (10)	CIE Class Average (%) (assumption)
CO1	0.83	0.83	3.32	0	83
CO2	0.82	0.82	3.28	0	82
CO3	0.81	0.81	1.64	1.64	81
CO4	0.80	0.80	0	3.2	80
CO5	0.79	0.79	0	3.16	79

**Attainment of COs from SEE**

CO	Class Average in SEE
CO1	54
CO2	54
CO3	54
CO4	54
CO5	54

**Computation of CO Direct Attainment in the course:**

CO	CIE Cl. Ave	SEE Cl. Ave	Direct CO Attainment $0.3 * \text{CIE Cl. Ave} + 0.7 * \text{SEE Cl. Ave}$
CO1	83	54	62.7
CO2	82	54	62.4
CO3	81	54	62.1
CO4	80	54	61.8
CO5	79	54	61.5

**Targets:** Targets are set for each CO of a course separately as

CO	Target (Class Average)
CO1	64
CO2	63
CO3	62
CO4	61
CO5	61

### CO Attainment Gap

CO	CO Attainment	Target (Class Average)	CO attainment Gap CA-COA
CO1	62.7	64	1.3
CO2	62.4	63	0.6
CO3	62.1	62	-0.1
CO4	61.8	61	-0.8
CO5	61.5	61	-0.5

### Closure of the Quality Loop for COs:

	Target	CO Attainment gap (%)	Action proposed to bridge the gap	Modification of target where achieved
CO1	64	1.3	Model question papers	66
CO2	63	0.6	Model question papers	65
CO3	62	-0.1		
CO4	61	-0.8		
CO5	61	-0.5		

### CO-PO/PSO Mappings

CO	POs/PSOs	Class Sessions
CO1	PO1, PO4, PSO2, PSO4	08

CO2	PO1, PO4, PSO2, PSO3, PSO4	12
CO3	PO1, PO4, PSO2, PSO4	12
CO4	PO1, PO4, PSO2, PSO3, PSO4	12
CO5	PO1, PO4, PSO2, PSO4	12

**Course – PO/PSO Mapping Strength (0,1,2,3) 100%-3 below 40-99-2%, below 40%-1**

Percentage of Sessions devoted to each PO/PSO	Mapping Strength
56 out of 56(100%) devoted to PO1	3
56 out of 56(100%) devoted to PO4	3
56 out of 56(100%) devoted to PSO2	3
24 out of 56(43%) devoted to PSO3	2
56 out of 56(100%) devoted to PSO4	3

**Course-POs/PSO Mapping**

Course	POs												PSOs				
	1	2	3	4	5	6	7	8	9	10	11	12	1	2	3	4	5
BC	3			3										3	2	3	

**CO Attainment and POs/PSOs**

CO	POs	CO Attainment (%)
CO1	PO1, PO4, PSO2, PSO4	62.7
CO2	PO1, PO4, PSO2, PSO3, PSO4	62.4
CO3	PO1, PO4, PSO2, PSO4	62.1
CO4	PO1, PO4, PSO2, PSO3, PSO4	61.8
CO5	PO1, PO4, PSO2, PSO4	61.5

**PO and PSO Attainment**

Attainment of PO/PSO = (Average of attainments of relevant COs) x Scale Factor  
 Scale Factor = (Actual Mapping Strength / Maximum Possible Mapping Strength)  
 = Actual Mapping Strength / 3

PO/PSO	Attainment (%)
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PO1	$3/3(62.7+62.4+62.1+61.8+61.5)/5= 62.1$
PO4	$3/3(62.7+62.4+62.1+61.8+61.5)/5= 62.1$
PSO2	$3/3(62.7+62.4+62.1+61.8+61.5)/5= 62.1$
PSO3	$2/3(62.4+61.8)/2= 41.4$
PSO4	$3/3(62.7+62.4+62.1+61.8+61.5)/5= 62.1$

### Attainment of POs and PSOs

Course	POs												PSOs				
	1	2	3	4	5	6	7	8	9	10	11	12	1	2	3	4	5
BC	3			3										3	2	3	
Attainment	0.62			0.62										0.62	0.41	0.62	

CO22	<b>Production and Material Management</b>
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CO-1	Understand the meaning and definition of Production management
CO-2	Understand various plant layout and its types
CO-3	Explain the meaning and importance of purchasing
CO-4	Understand the basics of material handling and its maintenance
CO-5	Understand the importance of quality assurance and quality control

CO	Course Outcome	Knowledge category (Factual/ Conceptual/ Procedural/ Metacognitive)	Cognitive Level	No. of hours	POs/PSOs
CO1	Understand the meaning and definition of	Factual, conceptual	Analyse and understand	08	PO1, PO2, PO3, PSO1, PSO2, PSO4

	Production management				
CO2	Understand various plant layout and its types	Factual, conceptual	Analyse and understand	12	PO1, PO2, PO3, PSO2, PSO4
CO3	Explain the meaning and importance of purchasing	Factual, conceptual	Analyse and understand	12	PO1, PO2, PO3, PSO1, PSO4
CO4	Understand the basics of material handling and its maintenance	Factual, conceptual	Analyse and understand	12	PO1, PO2, PO3, PSO1, PSO3, PSO2, PSO4
CO5	Understand the importance of quality assurance and quality control	Factual, conceptual	Analyse and understand	12	PO1, PO2, PO3, PSO1, PSO2, PSO3, PSO4

**CO Attainment**

**Direct Attainment of COs**

**Assessment Plan for CIE**

CO	A1 (05)	A2 (05)	T1 (10)	T2 (10)
CO1	1	1	4	0
CO2	1	1	4	0
CO3	1	1	2	2
CO4	1	1	0	4
CO5	1	1	0	4

**Attainment of COs from CIE**

**Class average in CIE (As Calculated)**

CO	A1 Cl. Ave (10)	A2 Cl. Ave (10)	T1 Cl. Ave (10)	T2 Cl. Ave (10)	CIE Class Average (%)

					(assumption)
CO1	0.80	0.80	3.2	0	80
CO2	0.79	0.79	3.16	0	79
CO3	0.78	0.78	1.56	1.56	78
CO4	0.77	0.77	0	3.08	77
CO5	0.76	0.76	0	3.04	76

### Attainment of COs from SEE

CO	Class Average in SEE
CO1	44
CO2	44
CO3	44
CO4	44
CO5	44

### Computation of CO Direct Attainment in the course:

CO	CIE Cl. Ave	SEE Cl. Ave	Direct CO Attainment $0.3 * \text{CIE Cl. Ave}$ $+0.7 * \text{SEE Cl. Ave}$
CO1	80	44	54.8
CO2	79	44	54.5
CO3	78	44	54.2
CO4	77	44	53.9
CO5	76	44	53.6

**Targets:** Targets are set for each CO of a course separately as

CO	Target (Class Average)
CO1	56
CO2	55
CO3	54
CO4	53
CO5	53

### CO Attainment Gap

CO	CO Attainment	Target (Class Average)	CO attainment Gap CA-COA
CO1	54.8	56	1.2
CO2	54.5	55	0.5
CO3	54.2	54	-0.2
CO4	53.9	53	-0.9
CO5	53.6	53	-0.6

### Closure of the Quality Loop for COs:

	Target	CO Attainment gap (%)	Action proposed to bridge the gap	Modification of target where achieved
CO1	56	1.2		58
CO2	55	0.5		57
CO3	54	-0.2	Model question papers	
CO4	53	-0.9	Model question papers	
CO5	53	-0.6	Model question papers	

### CO-PO/PSO Mappings

CO	POs/PSOs	Class Sessions
CO1	PO1, PO2, PO3, PSO1, PSO2, PSO4	08
CO2	PO1, PO2, PO3, PSO2, PSO4	12
CO3	PO1, PO2, PO3, PSO1, PSO4	12
CO4	PO1, PO2, PO3, PSO1, PSO3, PSO2, PSO4	12
CO5	PO1, PO2, PO3, PSO1, PSO2, PSO3, PSO4	12

**Course – PO/PSO Mapping Strength (0,1,2,3)100%-3 below 40-99-2%, below 40%-1**

Percentage of Sessions devoted to each PO/PSO	Mapping Strength
56 out of 56 (100%) devoted to PO1	3
56 out of 56 (100%) devoted to PO2	3
56 out of 56 (36%) devoted to PO3	3
44 out of 56 (79%) devoted to PSO1	2
44 out of 56 (79%) devoted to PSO2	2
24 out of 56 (43%) devoted to PSO3	2
56 out of 56 (100%) devoted to PSO4	3

### Course-POs/PSO Mapping

Course	POs												PSOs				
	1	2	3	4	5	6	7	8	9	10	11	12	1	2	3	4	5
PMM	3	3	3										2	2	2	3	

### CO Attainment and POs/PSOs

CO	POs	CO Attainment (%)
CO1	PO1, PO2, PO3, PSO1, PSO2, PSO4	54.8
CO2	PO1, PO2, PO3, PSO2, PSO4	54.5
CO3	PO1, PO2, PO3, PSO1, PSO4	54.2
CO4	PO1, PO2, PO3, PSO1, PSO3, PSO2, PSO4	53.9
CO5	PO1, PO2, PO3, PSO1, PSO2, PSO3, PSO4	53.6

### PO and PSO Attainment

Attainment of PO/PSO = (Average of attainments of relevant COs) x Scale Factor

Scale Factor = (Actual Mapping Strength / Maximum Possible Mapping Strength)

= Actual Mapping Strength / 3

PO/PSO	Attainment (%)
PO1	$3/3(54.8+54.5+54.2+53.9+53.6)/5= 54.2$
PO2	$3/3(54.8+54.5+54.2+53.9+53.6)/5= 54.2$
PO3	$3/3(54.8+54.5+54.2+53.9+53.6)/5= 54.2$



PSO1	$\frac{2}{3}(54.8+54.2+53.9+53.6)/4= 36.08$
PSO2	$\frac{2}{3}(54.8+54.5+53.9+53.6)/4= 36.13$
PSO3	$\frac{2}{3}(53.9+53.6)/2= 35.83$
PSO4	$3/3(54.8+54.5+54.2+53.9+53.6)/5= 54.2$

### Attainment of POs and PSOs

Course	POs												PSOs				
	1	2	3	4	5	6	7	8	9	10	11	12	1	2	3	4	5
PMM	3	3	3										2	2	2	3	
Attainment	0.5	0.5	0.5										0.3	0.3	0.3	0.5	
	4	4	4										6	6	5	4	

CO23	<b>Marketing Management</b>
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CO-1	Demonstrate a clear understanding of the marketing concepts
CO-2	Identify the primary marketing activities of an organization.
CO-3	Determine market segments and target customers
CO-4	Use pricing strategies to enhance marketing of products and services
CO-5	Analyse elements of a brand and explain how the brand-building process contributes to the success of products or services.

CO	Course Outcome	Knowledge category (Factual/	Cognitive Level	No. of hours	POs/PSOs
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		<i>Conceptual/ Procedural/ Metacognitive)</i>			
CO1	Demonstrate a clear understanding of the marketing concepts	Factual, conceptual	Analyse and understand	08	PO1,PO2,PSO1
CO2	Identify the primary marketing activities of an organization.	Factual, conceptual	Analyse and understand	12	PO1,PO2,PSO1,PSO2
CO3	Determine market segments and target customers	Factual, conceptual	Analyse and understand	12	PO1,PO2,PSO1,PSO3
CO4	Use pricing strategies to enhance marketing of products and services	Factual, conceptual	Analyse and understand	12	PO1,PO2,PSO1,PSO4
CO5	Analyse elements of a brand and explain how the brand-building process contributes to the success of products or services.	Factual, conceptual	Analyse and understand	12	PO1,PO2,PSO1,PSO2

**CO Attainment**

**Direct Attainment of COs**

**Assessment Plan for CIE**

CO	A1 (10)	A2 (10)	T1 (10)	T2 (10)
CO1	1	1	4	0
CO2	1	1	4	0
CO3	1	1	2	2
CO4	1	1	0	4

CO5	1	1	0	4
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**Attainment of COs from CIE**  
**Class average in CIE (As Calculated)**

CO	A1 Cl. Ave (05)	A2 Cl. Ave (05)	T1 Cl. Ave (10)	T2 Cl. Ave (10)	CIE Class Average (%) (assumption)
CO1	0.72	0.72	2.88	0	72
CO2	0.71	0.71	2.84	0	71
CO3	0.70	0.70	1.4	1.4	70
CO4	0.69	0.69	0	2.76	69
CO5	0.68	0.68	0	2.72	68

**Attainment of COs from SEE**

CO	Class Average in SEE
CO1	51
CO2	51
CO3	51
CO4	51
CO5	51

**Computation of CO Direct Attainment in the course:**

CO	CIE Cl. Ave	SEE Cl. Ave	Direct CO Attainment $0.3 * \text{CIE Cl. Ave}$ $+0.7 * \text{SEE Cl. Ave}$
CO1	72	51	57.3
CO2	71	51	57
CO3	70	51	56.7
CO4	69	51	56.4
CO5	68	51	56.1

**Targets:** Targets are set for each CO of a course separately as

CO	Target (Class Average)
CO1	60
CO2	59
CO3	56
CO4	56
CO5	56

### CO Attainment Gap

CO	CO Attainment	Target (Class Average)	CO attainment Gap CA-COA
CO1	57.3	60	2.7
CO2	57	59	2
CO3	56.7	56	-0.7
CO4	56.4	56	-0.4
CO5	56.1	56	-0.1

### Closure of the Quality Loop for COs:

	Target	CO Attainment gap (%)	Action proposed to bridge the gap	Modification of target where achieved
CO1	60	2.7	Assignments and model question paper	62
CO2	59	2	Assignments and model question paper	61
CO3	56	-0.7		
CO4	56	-0.4		
CO5	56	-0.1		

### CO-PO/PSO Mappings

CO	POs/PSOs	Class Sessions

CO1	PO1,PO2,PSO1	08
CO2	PO1,PO2,PSO1,PSO2	12
CO3	PO1,PO2,PSO1,PSO3	12
CO4	PO1,PO2,PSO1,PSO4	12
CO5	PO1,PO2,PSO1,PSO2	12

**Course – PO/PSO Mapping Strength (0,1,2,3)100%-3 below 40-99-2%, below 40%-1**

Percentage of Sessions devoted to each PO/PSO	Mapping Strength
56 out of 56 (100%) devoted to PO1	3
56 out of 56 (100%) devoted to PO2	3
56 out of 56 (100%) devoted to PSO1	3
24 out of 56 (43%) devoted to PSO2	2
12 out of 56 (22%) devoted to PSO3	1
12 out of 56 (22%) devoted to PSO4	1

**Course-POs/PSO Mapping**

Course	POs												PSOs				
	1	2	3	4	5	6	7	8	9	10	11	12	1	2	3	4	5
MM	3	3											3	2	1	1	

**CO Attainment and POs/PSOs**

CO	POs	CO Attainment (%)
CO1	PO1,PO2,PSO1	57.3
CO2	PO1,PO2,PSO1,PSO2	57
CO3	PO1,PO2,PSO1,PSO3	56.7
CO4	PO1,PO2,PSO1,PSO4	56.4
CO5	PO1,PO2,PSO1,PSO2	56.1

**PO and PSO Attainment**

Attainment of PO/PSO = (Average of attainments of relevant COs) x Scale Factor  
 Scale Factor = (Actual Mapping Strength / Maximum Possible Mapping Strength)  
 = Actual Mapping Strength / 3

PO/PSO	Attainment (%)
PO1	$3/3(57.3+57+56.7+56.4+56.1)/5= 56.7$
PO2	$3/3(57.3+57+56.7+56.4+56.1)/5= 56.7$
PSO1	$3/3(57.3+57+56.7+56.4+56.1)/5= 56.7$
PSO2	$2/3(57+56.1)/2= 37.7$
PSO3	$1/3(56.7)/1= 18.9$
PSO4	$1/3(56.4)/1= 18.8$

#### Attainment of POs and PSOs

Course	POs									PSOs							
	1	2	3	4	5	6	7	8	9	10	11	12	1	2	3	4	5
MM	3	3											3	2	1	1	
Attainment	0.5 6	0.5 6											0.5 6	0.3 7	0.1 8	0.1 8	

CO24	<b>Management Information System</b>
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CO-1	Understand the leadership role of Management Information Systems in achieving business competitive advantage through informed decision making.
CO-2	Analyse and synthesize business information and systems to facilitate evaluation of strategic alternatives
CO-3	Effectively communicate strategic alternatives to facilitate decision making.
CO-4	Apply sound managerial concepts and principles in the development and operation of information systems
CO-5	Effectively apply technical concepts in information technology

CO	Course Outcome	Knowledge category ( <i>Factual/ Conceptual/ Procedural/ Metacognitive</i> )	Cognitive Level	No. of hours	POs/PSOs
CO1	Understand the leadership role of Management Information Systems in achieving business competitive advantage through informed decision making.	Factual, conceptual	Understand and analyse	08	PO1,PO4 PSO1
CO2	Analyse and synthesize business information and systems to facilitate evaluation of strategic alternatives	Factual, conceptual	Understand and analyse	12	PO1,PO4 PSO1, PSO2
CO3	Effectively communicate strategic alternatives to facilitate decision making.	Factual, conceptual	Understand and analyse	12	PO1,PO2, PSO3, PSO4
CO4	Apply sound managerial concepts and principles in the	Factual, conceptual	Understand and analyse	12	PO1,PO2, PO3,PSO1, PSO3

	development and operation of information systems				
CO5	Effectively apply technical concepts in information technology	Factual, conceptual	Understand and analyse	12	PO1,PO2, PO3,PSO1 PSO3

**Direct Attainment of COs**

**Assessment Plan for CIE**

CO	A1 (05)	A2 (05)	T1 (10)	T2 (10)
CO1	1	1	4	0
CO2	1	1	4	0
CO3	1	1	2	2
CO4	1	1	0	4
CO5	1	1	0	4

**Attainment of COs from CIE**

**Class average in CIE (As Calculated)**

CO	A1 Cl. Ave (10)	A2 Cl. Ave (10)	T1 Cl. Ave (10)	T2 Cl. Ave (10)	CIE Class Average (%) (assumption)
CO1	0.78	0.78	3.12	0	78
CO2	0.77	0.77	3.08	0	77
CO3	0.76	0.76	1.52	1.52	76
CO4	0.75	0.75	0	3	75
CO5	0.74	0.74	0	2.96	74

**Attainment of COs from SEE**

CO	Class Average in SEE
CO1	61
CO2	61



CO3	61
CO4	61
CO5	61

**Computation of CO Direct Attainment in the course:**

CO	CIE Cl. Ave	SEE Cl. Ave	Direct CO Attainment $0.3 * \text{CIE Cl. Ave}$ $+0.7 * \text{SEE Cl. Ave}$
CO1	78	61	66.1
CO2	77	61	65.8
CO3	76	61	65.5
CO4	75	61	65.2
CO5	74	61	64.9

**Targets:** Targets are set for each CO of a course separately as

CO	Target (Class Average)
CO1	68
CO2	67
CO3	66
CO4	65
CO5	64

**CO Attainment Gap**

CO	CO Attainment	Target (Class Average)	CO attainment Gap <b>CA-COA</b>
CO1	66.1	68	1.9
CO2	65.8	67	1.2

CO3	65.5	66	0.5
CO4	65.2	65	-0.2
CO5	64.9	64	-0.9

### Closure of the Quality Loop for COs:

	Target	CO Attainment gap (%)	Action proposed to bridge the gap	Modification of target where achieved
CO1	68	1.9	Model question papers	70
CO2	67	1.2	Model question papers	69
CO3	66	0.5	Model question papers	68
CO4	65	-0.2		
CO5	64	-0.9		

### CO-PO/PSO Mappings

CO	POs/PSOs	Class Sessions
CO1	PO1,PO4 PSO1	8
CO2	PO1,PO4 PSO1, PSO2	12
CO3	PO1,PO2, PSO3, PSO4	12
CO4	PO1,PO2, PO3,PSO1, PSO3	12
CO5	PO1,PO2, PO3,PSO1 PSO3	12

**Course – PO/PSO Mapping Strength (0,1,2,3)100%-3 below 40-99-2%, below 40%-1**

Percentage of Sessions devoted to each PO/PSO	Mapping Strength
56 out of 56 (100%) devoted to PO1	3
24 out of 56 (43 %) devoted to PO2	2
24 out of 56 (43 %) devoted to PO3	2
20 out of 56 (36 %) devoted to PO4	1
44 out of 42 (79 %) devoted to PSO1	3
20 out of 42 (21 %) devoted to PSO2	1
36 out of 56(64%)devoted to PSO3	2
12 out of 56(21 %)devoted to PSO4	1

### Course-POs/PSO Mapping

Course	POs												PSOs				
	1	2	3	4	5	6	7	8	9	10	11	12	1	2	3	4	5
MIS	3	2	2	1									3	1	2	1	

### CO Attainment and POs/PSOs

CO	POs	CO Attainment (%)
CO1	PO1,PO4 PSO1	66.1
CO2	PO1,PO4 PSO1, PSO2	65.8
CO3	PO1,PO2, PSO3, PSO4	65.5
CO4	PO1,PO2, PO3,PSO1, PSO3	65.2
CO5	PO1,PO2, PO3,PSO1 PSO3	64.9

### PO and PSO Attainment

Attainment of PO/PSO = (Average of attainments of relevant COs) x Scale Factor  
 Scale Factor = (Actual Mapping Strength / Maximum Possible Mapping Strength)  
 = Actual Mapping Strength / 3

PO/PSO	Attainment (%)
PO1	$3/3(66.1+65.8+65.5+65.2+64.9)/5= 65.5$

PO2	$\frac{2}{3}(65.5+65.2+64.9)/3= 43.46$
PO3	$\frac{2}{3}(65.2+64.9)/2= 43.36$
PO4	$\frac{1}{3}(66.1+65.8)/2= 21.98$
PSO1	$3/3(66.1+65.8+65.5+65.2+64.9)/5= 65.5$
PSO2	$\frac{1}{3}(65.8)/1= 21.93$
PSO3	$\frac{2}{3}(65.5+65.2+64.9)/3= 43.46$
PSO4	$\frac{1}{3}(65.5)/1= 21.83$

#### Attainment of POs and PSOs

Course	POs											PSOs					
	1	2	3	4	5	6	7	8	9	10	11	12	1	2	3	4	5
MIS	3	2	2	1									3	1	2	1	
Attainment	0.6	0.4	0.4	0.2									0.6	0.2	0.4	0.2	
	5	3	3	1									5	1	3	1	

CO25	<b>Income Tax</b>
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CO-1	Understand basic terms of the Income tax
CO-2	Understand the powers and function of the IT authority
CO-3	Enable the student to calculate the residential status of the individual
CO-4	Calculation of different kinds of income based on the residential state.
CO-5	Enable the student to calculate taxable income from House property and Salary

CO	Course Outcome	Knowledge category ( <i>Factual/ Conceptual/ Procedural/ Metacognitive</i> )	Cognitive Level	No. of hours	POs/PSOs
CO1	Understand basic terms of the Income tax	Factual, conceptual and procedural	Analyse, understand, apply and remember	08	PO2, PSO4
CO2	Understand the powers and function of the IT authority	Factual, conceptual and procedural	Analyse, understand, apply and remember	12	PO2, PSO1
CO3	Enable the student to calculate the residential status of the individual	Factual, conceptual and procedural	Analyse, understand, apply and remember	12	PO2, PSO1, PSO4
CO4	Calculation of different kinds of income based on the residential state.	Factual, conceptual and procedural	Analyse, understand, apply and remember	12	PO2, PSO1, PSO4
CO5	Enable the student to calculate taxable income from House property and Salary	Factual, conceptual, metacognitive and procedural	Analyse, understand, apply and remember	12	PO2, PSO1, PSO3, PSO4

### CO Attainment

### Direct Attainment of COs

### Assessment Plan for CIE

CO	A1 (05)	A2 (05)	T1 (10)	T2 (10)
CO1	1	1	4	0
CO2	1	1	4	0
CO3	1	1	2	2
CO4	1	1	0	4
CO5	1	1	0	4

**Attainment of COs from CIE**  
**Class average in CIE (As Calculated)**

CO	A1 Cl. Ave (05)	A2 Cl. Ave (05)	T1 Cl. Ave (10)	T2 Cl. Ave (10)	CIE Class Average (%) (assumption)
CO1	0.83	0.83	3.32	0	83
CO2	0.82	0.82	3.28	0	82
CO3	0.81	0.81	1.62	1.62	81
CO4	0.80	0.80	0	3.2	80
CO5	0.79	0.79	0	3.16	79

**Attainment of COs from SEE**

CO	Class Average in SEE
CO1	51
CO2	51
CO3	51
CO4	51
CO5	51

**Computation of CO Direct Attainment in the course:**

CO	CIE Cl. Ave	SEE Cl. Ave	Direct CO Attainment $0.3 * \text{CIE Cl. Ave}$ $+0.7 * \text{SEE Cl. Ave}$
CO1	83	51	60.6

CO2	82	51	60.3
CO3	81	51	60
CO4	80	51	59.7
CO5	79	51	59.4

**Targets:** Targets are set for each CO of a course separately as

CO	Target (Class Average)
CO1	62
CO2	61
CO3	61
CO4	59
CO5	59

#### CO Attainment Gap

CO	CO Attainment	Target (Class Average)	CO attainment Gap CA-COA
CO1	60.6	62	1.4
CO2	60.3	61	0.7
CO3	60	61	1
CO4	59.7	59	-0.7
CO5	59.4	59	-0.4

#### Closure of the Quality Loop for COs:

	Target	CO Attainment gap (%)	Action proposed to bridge the gap	Modification of target where achieved
CO1	62	1.4	Model question paper	64
CO2	61	0.7	Model question paper	63
CO3	61	1	Model question paper	62
CO4	59	-0.7		
CO5	59	-0.4		

**CO-PO/PSO Mappings**

CO	POs/PSOs	Class Sessions
CO1	PO2, PSO4	08
CO2	PO2, PSO1	12
CO3	PO2, PSO1, PSO4	12
CO4	PO2, PSO1, PSO4	12
CO5	PO2, PSO1, PSO3, PSO4	12

**Course – PO/PSO Mapping Strength (0,1,2,3) 100%-3 below 40-99-2%, below 40%-1**

Percentage of Sessions devoted to each PO/PSO	Mapping Strength
56 out of 56 (100%) devoted to PO2	3
48 out of 56 (86%) devoted to PSO1	2
12 out of 56 (21%) devoted to PSO3	1
44 out of 42 (79%) devoted to PSO4	2

**Course-POs/PSO Mapping**

Course	POs												PSOs				
	1	2	3	4	5	6	7	8	9	10	11	12	1	2	3	4	5
IT		3											2		1	2	

**CO Attainment and POs/PSOs**

CO	POs	CO Attainment (%ge)
CO1	PO2, PSO4	60.6
CO2	PO2, PSO1	60.3
CO3	PO2, PSO1, PSO4	60



CO4	PO2,PSO1,PSO4	59.7
CO5	PO2,PSO1,PSO3,PSO4	59.4

**PO and PSO Attainment**

Attainment of PO/PSO = (Average of attainments of relevant COs) x Scale Factor  
 Scale Factor = (Actual Mapping Strength / Maximum Possible Mapping Strength)  
 = Actual Mapping Strength / 3

PO/PSO	Attainment (%)
PO2	$3/3(60.6+60.3+60+59.7+59.4)/5= 60$
PSO1	$2/3(60.3+60+59.7+59.4)/4= 39.91$
PSO3	$1/3(59.4)/1= 19.8$
PSO4	$2/3(60.6+60+59.7+59.4)/4= 39.95$

**Attainment of POs and PSOs**

Course	POs												PSOs				
	1	2	3	4	5	6	7	8	9	10	11	12	1	2	3	4	5
IT		3											2		1	2	
Attainment		0.60											0.39		0.19	0.39	

CO26	<b>Retail Management</b>
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CO-1	Define the meaning and functions of retailing, marketing and concepts of applied retailing
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CO-2	Explain retail models and other theories, retail life cycle and other phases, business models
CO-3	Understand planning and objectives, consumer needs and decision making
CO-4	Understand the evolution and size of retailing in India, changes and investment in retailing. the challenges in retailing
CO-5	Understand global retail marks and planning, challenges faced in global retailers and threats in global retailing, factors affecting the success of global retailing

CO	Course Outcome	Knowledge category ( <i>Factual/ Conceptual/ Procedural/ Metacognitive</i> )	Cognitive Level	No. of hours	POs/PSOs
CO1	Define the meaning and functions of retailing, marketing and concepts of applied retailing	Factual, conceptual	Analyse and understand	08	PO1, PO2, PO3, PSO1, PSO3, PSO4
CO2	Explain retail models and other theories, retail life cycle and other phases, business models	Factual, conceptual, procedural	Analyse and understand	12	PO1, PO2, PO4, PSO1, PSO3, PSO4
CO3	Understand planning and objectives, consumer needs and decision making	Factual, conceptual	Analyse and understand	12	PO1, PO2, PO4, PSO1, PSO2, PSO4
CO4	Understand the evolution and size of retailing in India, changes and investment in retailing. the challenges in retailing	Factual, conceptual	Analyse and understand	12	PO1, PO2, PO3, PSO1, PSO3, PSO4
CO5	Understand global retail marks and planning, challenges faced in global retailers and threats in global retailing, factors affecting the success of global retailing	Factual, conceptual	Analyse and understand	12	PO1, PO2, PO4, PSO1, PSO3, PSO4

**Direct Attainment of Cos**

**Assessment Plan for CIE**

CO	A1 (05)	A2 (05)	T1 (10)	T2 (10)
CO1	0	0	2	0
CO2	1	0	4	0
CO3	1	1	4	0
CO4	1	2	0	2
CO5	1	2	0	4

**Attainment of COs from CIE**

**Class average in CIE (As Calculated)**

CO	A1 Cl. Ave (05)	A2 Cl. Ave (05)	T1 Cl. Ave (10)	T2 Cl. Ave (10)	CIE Class Average (%) (assumption)
CO1	0	0	1.34	0	67
CO2	0.68	0	2.72	0	68
CO3	0.69	0.69	2.76	0	69
CO4	0.64	1.28	0	1.28	64
CO5	0.63	1.26	0	2.52	63

**Attainment of COs from SEE**

CO	Class Average in SEE
CO1	42
CO2	42
CO3	42

CO4	42
CO5	42

**Computation of CO Direct Attainment in the course:**

CO	CIE Cl. Ave	SEE Cl. Ave	Direct CO Attainment $0.3 * \text{CIE Cl. Ave}$ $+0.7 * \text{SEE Cl. Ave}$
CO1	67	41	48.8
CO2	68	41	49.1
CO3	69	41	49.4
CO4	64	41	47.9
CO5	63	41	47.6

**Targets:** Targets are set for each CO of a course separately as

CO	Target (Class Average)
CO1	52
CO2	51
CO3	48
CO4	47
CO5	47

**CO Attainment Gap**

CO	CO Attainment	Target (Class Average)	CO attainment Gap <b>CA-COA</b>
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CO1	48.8	52	3.2
CO2	49.1	51	1.9
CO3	49.4	48	-1.4
CO4	47.9	47	-0.9
CO5	47.6	47	-0.6

**Closure of the Quality Loop for COs:**

	Target	CO Attainment gap (%)	Action proposed to bridge the gap	Modification of target where achieved
CO1	52	3.2	Assignments and model question papers	54
CO2	51	1.9	Model question papers	53
CO3	48	-1.4		
CO4	47	-0.9		
CO5	47	-0.6		

**CO-PO/PSO Mappings**

CO	POs/PSOs	Class Sessions
CO1	PO1, PO2, PO3, PSO1, PSO3, PSO4	08
CO2	PO1, PO2, PO4, PSO1, PSO3, PSO4	12
CO3	PO1, PO2, PO4, PSO1, PSO2, PSO4	12
CO4	PO1, PO2, PO3, PSO1, PSO3, PSO4	12
CO5	PO1, PO2, PO4, PSO1, PSO3, PSO4	12

**Course – PO/PSO Mapping Strength (0,1,2,3) 100%-3 below 40-99-2%, below 40%-1**

Percentage of Sessions devoted to each PO/PSO	Mapping Strength
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56 out of 56 (100%) devoted to PO1	3
56 out of 56 (100%) devoted to PO2	3
20 out of 56 (36%) devoted to PO3	1
36 out of 56 (64%) devoted to PO4	2
56 out of 56 (100%) devoted to PO1	3
12 out of 56 (21%) devoted to PSO2	1
44 out of 56 (79%) devoted to PSO3	2
56 out of 56 (100%) devoted to PSO4	3

### Course-POs/PSO Mapping

Course	POs												PSOs				
	1	2	3	4	5	6	7	8	9	10	11	12	1	2	3	4	5
RM	3	3	1	2									3	1	2	3	

### CO Attainment and POs/PSOs

CO	POs	CO Attainment (%ge)
CO1	PO1, PO2, PO3, PSO1, PSO3, PSO4	48.8
CO2	PO1, PO2, PO4, PSO1, PSO3, PSO4	49.1
CO3	PO1, PO2, PO4, PSO1, PSO2, PSO4	49.4
CO4	PO1, PO2, PO3, PSO1, PSO3, PSO4	47.9
CO5	PO1, PO2, PO4, PSO1, PSO3, PSO4	47.6

### PO and PSO Attainment

Attainment of PO/PSO = (Average of attainments of relevant COs) x Scale Factor  
 Scale Factor = (Actual Mapping Strength / Maximum Possible Mapping Strength)  
 = Actual Mapping Strength / 3

PO/PSO	Attainment (%)
PO1	$3/3(48.8+49.1+49.4+47.9+47.6)/5= 48.56$
PO2	$3/3(48.8+49.1+49.4+47.9+47.6)/5= 48.56$

PO3	$\frac{1}{3}(48.8+47.9)/2= 16.11$
PO4	$\frac{2}{3}(49.1+49.4+47.6)/3= 32.46$
PSO1	$3/3(48.8+49.1+49.4+47.9+47.6)/5= 48.56$
PSO2	$\frac{1}{3}(49.4)/1= 16.46$
PSO3	$\frac{2}{3}(48.8+49.1+47.9+47.6)/4= 32.23$
PSO4	$3/3(48.8+49.1+49.4+47.9+47.6)/5= 48.56$

### Attainment of POs and PSOs

Course	POs												PSOs				
	1	2	3	4	5	6	7	8	9	10	11	12	1	2	3	4	5
TOC	3	3	1	2									3	1	2	3	
Attainment	0.48	0.48	0.16	0.32									0.48	0.16	0.32	0.48	

CO27	<b>Airline and Travel &amp; Tourism Industry: Introduction</b>
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CO-1	Understand the handling procedures in Airport
CO-2	Explain the aims, objectives and function of IATA & ICAO
CO-3	Differentiate between the boarding formalities for domestic and international flight
CO-4	Understand the basics of travel agent management
CO-5	Explain the currency regulations for international flight

CO	Course Outcome	Knowledge category (Factual/	Cognitive Level	No. of hours	POs/PSOs
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		<i>Conceptual/ Procedural/ Metacognitive)</i>			
CO1	Understand the handling procedures in Airport	Factual, conceptual	Analyse and understand	08	PO1,PO4 PSO1
CO2	Explain the aims, objectives and function of IATA & ICAO	Factual, conceptual	Analyse and understand	12	PO1,PO4 PSO1, PSO2
CO3	Differentiate between the boarding formalities for domestic and international flight	Factual, conceptual	Analyse and understand	12	PO1,PO2, PSO3, PSO4
CO4	Understand the basics of travel agent management	Factual, conceptual	Analyse and understand	12	PO1,PO2, PO3,PSO1, PSO3
CO5	Explain the currency regulations for international flight	Factual, conceptual and procedural	Analyse and understand	12	PO1,PO2, PO3,PSO1 PSO3

### Direct Attainment of COs

#### Assessment Plan for CIE

CO	A1 (05)	A2 (05)	T1 (10)	T2 (10)
CO1	1	1	4	0
CO2	1	1	4	0
CO3	1	1	2	2
CO4	1	1	0	4
CO5	1	1	0	4

### Attainment of COs from CIE



**Class average in CIE (As Calculated)**

CO	A1 Cl. Ave (05)	A2 Cl. Ave (05)	T1 Cl. Ave (10)	T2 Cl. Ave (10)	CIE Class Average (%) (assumption)
CO1	0.79	0.79	3.16	0	79
CO2	0.78	0.78	3.12	0	78
CO3	0.77	0.77	1.54	1.54	77
CO4	0.76	0.76	0	3.04	76
CO5	0.75	0.75	0	3	75

**Attainment of COs from SEE**

CO	Class Average in SEE
CO1	55
CO2	55
CO3	55
CO4	55
CO5	55

**Computation of CO Direct Attainment in the course:**

CO	CIE Cl. Ave	SEE Cl. Ave	Direct CO Attainment $0.3 * \text{CIE Cl. Ave}$ $+0.7 * \text{SEE Cl. Ave}$
CO1	79	55	62.2
CO2	78	55	61.9
CO3	77	55	61.6
CO4	76	55	61.3
CO5	75	55	61

**Targets:** Targets are set for each CO of a course separately as

CO	Target (Class Average)
CO1	65
CO2	64
CO3	62
CO4	61
CO5	60

### CO Attainment Gap

CO	CO Attainment	Target (Class Average)	CO attainment Gap CA-COA
CO1	62.2	65	2.8
CO2	61.9	64	2.01
CO3	61.6	62	0.4
CO4	61.3	61	-0.3
CO5	61	60	-1

### Closure of the Quality Loop for COs:

	Target	CO Attainment gap (%)	Action proposed to bridge the gap	Modification of target where achieved
CO1	65	2.8	Model question papers and assignments	67
CO2	64	2.01	Model question papers and assignments	66
CO3	62	0.4	Assignments	64
CO4	61	-0.3		
CO5	60	-1		

### CO-PO/PSO Mappings

CO	POs/PSOs	Class Sessions
CO1	PO1,PO4 PSO1	08

CO2	PO1,PO4 PSO1, PSO2	12
CO3	PO1,PO2, PSO3, PSO4	12
CO4	PO1,PO2, PO3,PSO1, PSO3	12
CO5	PO1,PO2, PO3,PSO1 PSO3	12

**Course – PO/PSO Mapping Strength (0,1,2,3) 100%-3 below 40-99-2%, below 40%-1**

Percentage of Sessions devoted to each PO/PSO	Mapping Strength
56 out of 56 (100%) devoted to PO1	3
24 out of 56 (43 %) devoted to PO2	2
24 out of 56 (43 %) devoted to PO3	2
20 out of 56 (36 %) devoted to PO4	1
44 out of 42 (79 %) devoted to PSO1	3
20 out of 42 (21 %) devoted to PSO2	1
36 out of 56(64%)devoted to PSO3	2
12 out of 56(21 %)devoted to PSO4	1

**Course-POs/PSO Mapping**

Course	POs												PSOs				
	1	2	3	4	5	6	7	8	9	10	11	12	1	2	3	4	5
ATTI	3	2	2	1									3	1	2	1	

**CO Attainment and POs/PSOs**

CO	POs	CO Attainment (%)ge)
CO1	PO1,PO4 PSO1	62.2
CO2	PO1,PO4 PSO1, PSO2	61.9
CO3	PO1,PO2, PSO3, PSO4	61.6
CO4	PO1,PO2, PO3,PSO1, PSO3	61.3
CO5	PO1,PO2, PO3,PSO1 PSO3	61

### PO and PSO Attainment

Attainment of PO/PSO = (Average of attainments of relevant COs) x Scale Factor  
 Scale Factor = (Actual Mapping Strength / Maximum Possible Mapping Strength)  
 = Actual Mapping Strength / 3

PO/PSO	Attainment (%)
PO1	$3/3(62.2+61.9+61.6+61.3+61)/5= 61.6$
PO2	$2/3(61.6+61.3+61)/3= 40.88$
PO3	$2/3(61.3+61)/2= 40.76$
PO4	$1/3(62.2+61.9)/2= 20.68$
PSO1	$3/3(62.2+61.9+61.6+61.3+61)/5= 61.6$
PSO2	$1/3(61.9)/1= 20.53$
PSO3	$2/3(61.6+61.3+61)/3= 40.86$
PSO4	$1/3(61.6)/1= 20.53$

### Attainment of POs and PSOs

Course	POs												PSOs				
	1	2	3	4	5	6	7	8	9	10	11	12	1	2	3	4	5
ATTI	3	2	2	1									3	1	2	1	
Attainment	0.6	0.4	0.4	0.2									0.6	0.2	0.4	0.20	
	1	0	0	0									1	0	0		

## IV semester

D022	<b>Human Resource Management</b>
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CO-1	Concept of human resource management
CO-2	The functions of human resource management
CO-3	Foundations of human resource management
CO-4	Strategic management processes
CO-5	Human resource strategic planning

CO	Course Outcome	Knowledge category ( <i>Factual/ Conceptual/ Procedural/ Metacognitive</i> )	Cognitive Level	No. of hours	POs/PSOs
CO1	Concept of human resource management	Factual, conceptual	Understand and analyse	08	PO1, PO4, PSO2, PSO4
CO2	The functions of human resource management	Factual, conceptual	Understand and analyse	12	PO1, PO4, PSO2, PSO4
CO3	Foundations of human resource management	Factual, conceptual	Understand and analyse	12	PO1, PO4, PSO2, PSO4
CO4	Strategic management processes	Factual, conceptual	Understand, apply and analyse	12	PO1, PO4, PSO2, PSO3, PSO4
CO5	Human resource strategic planning	Factual, conceptual, metacognitive	Understand, apply and analyse	12	PO1, PO4, PSO3, PSO4

**Direct Attainment of COs**

**Assessment Plan for CIE**

CO	A1 (05)	A2 (05)	T1 (10)	T2 (10)
CO1	1	1	3	0
CO2	1	1	2	3
CO3	1	1	2	2
CO4	1	1	2	2
CO5	1	1	1	3

**Attainment of COs from CIE**

**Class average in CIE (As Calculated)**

CO	A1 Cl. Ave (10)	A2 Cl. Ave (10)	T1 Cl. Ave (10)	T2 Cl. Ave (10)	CIE Class Average (%) (assumption)
CO1	0.58	0.58	1.74	0	58
CO2	0.55	0.55	1.1	1.65	55
CO3	0.54	0.54	1.08	1.08	54
CO4	0.57	0.57	1.14	1.14	57
CO5	0.56	0.56	0.56	1.68	56

**Attainment of COs from SEE**

CO	Class Average in SEE
CO1	70
CO2	70
CO3	70
CO4	70
CO5	70

### Computation of CO Direct Attainment in the course:

CO	CIE Cl. Ave	SEE Cl. Ave	Direct CO Attainment $0.3 * \text{CIE Cl. Ave}$ $+0.7 * \text{SEE Cl. Ave}$
CO1	58	70	66.4
CO2	55	70	65.5
CO3	54	70	65.2
CO4	57	70	66.1
CO5	56	70	65.8

**Targets:** Targets are set for each CO of a course separately as

CO	Target (Class Average)
CO1	68
CO2	67
CO3	65
CO4	64
CO5	64

### CO Attainment Gap

CO	CO Attainment	Target (Class Average)	CO attainment Gap <b>CA-COA</b>
CO1	66.4	68	1.6
CO2	65.5	67	1.5
CO3	65.2	65	-0.2
CO4	66.1	64	-2.1
CO5	65.8	64	-1.8

### Closure of the Quality Loop for COs:

CO	Target	CO Attainment gap (%)	Action proposed to bridge the gap	Modification of target where achieved
CO1	68	1.6	Model question papers	70
CO2	67	1.5	Model question papers	69
CO3	65	-0.2		
CO4	64	-2.1		
CO5	64	-1.8		

### CO-PO/PSO Mappings

CO	POs/PSOs	Class Sessions
CO1	PO1, PO4, PSO2, PSO4	08
CO2	PO1, PO4, PSO2, PSO4	12
CO3	PO1, PO4, PSO2, PSO4	12
CO4	PO1, PO4, PSO2, PSO3, PSO4	12
CO5	PO1, PO4, PSO3, PSO4	12

### Course – PO/PSO Mapping Strength (0,1,2,3) 100%-3 below 40-99-2%, below 40%-1

Percentage of Sessions devoted to each PO/PSO	Mapping Strength
56 out of 56 (100%) devoted to PO1	3
56 out of 56 (100%) devoted to PO4	3
44 out of 56 (79%) devoted to PSO2	2
24 out of 42 (43%) devoted to PSO3	2
56 out of 56 (100%) devoted to PSO4	3



**Course-POs/PSO Mapping**

Course	POs												PSOs				
	1	2	3	4	5	6	7	8	9	10	11	12	1	2	3	4	5
HRM	3			3										2	2	3	

**CO Attainment and POs/PSOs**

CO	POs	CO Attainment (%ge)
CO1	PO1,PO4, PSO2, PSO4	66.4
CO2	PO1, PO4, PSO2, PSO4	65.5
CO3	PO1, PO4, PSO2, PSO4	65.2
CO4	PO1, PO4, PSO2, PSO3, PSO4	66.1
CO5	PO1, PO4, PSO3 ,PSO4	65.8

**PO and PSO Attainment**

Attainment of PO/PSO = (Average of attainments of relevant COs) x Scale Factor  
 Scale Factor = (Actual Mapping Strength / Maximum Possible Mapping Strength)  
 = Actual Mapping Strength / 3

PO/PSO	Attainment (%)
PO1	$3/3(66.4+65.5+65.2+66.1+65.8)/5= 65.8$
PO4	$3/3(66.4+65.5+65.2+66.1+65.8)/5= 65.8$
PSO2	$2/3(66.4+65.5+65.2+66.1)/4= 43.8$
PSO3	$2/3(66.1+65.8)/2= 43.9$
PSO4	$3/3(66.4+65.5+65.2+66.1+65.8)/5= 65.8$

**Attainment of POs and PSOs**

Course	POs												PSOs				
	1	2	3	4	5	6	7	8	9	10	11	12	1	2	3	4	5

HRM	3		3							2	2	3
Attainment	0.65		0.65							0.43	0.43	0.65

D022	<b>Financial Management</b>
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CO-1	Demonstrate an understanding of the overall role and importance of the finance function
CO-2	Demonstrate basic finance management knowledge
CO-3	Communicate effectively using standard business terminology
CO-4	Describe the general structure of various financial markets.
CO-5	Integrate the legal and economic role of financial management with the values of a diverse, global, and ever-changing marketplace

CO	Course Outcome	Knowledge category (Factual/ Conceptual/ Procedural/ Metacognitive)	Cognitive Level	No. of hours	POs/PSOs
CO 1	Demonstrate an understanding of the overall role and importance of the finance function	Factual, conceptual and procedural	Understand, analyse, remember and apply	08	PO2, PSO4
CO2	Demonstrate basic finance	Factual, conceptual	Understand, analyse,	12	PO2, PSO1

	management knowledge	and procedural	remember and apply		
CO3	Communicate effectively using standard business terminology	Factual, conceptual and procedural	Understand , analyse, remember and apply	12	PO2, PSO1,PSO4
CO4	Describe the general structure of various financial markets.	Factual, conceptual and procedural	Understand , analyse, remember and apply	12	PO2,PSO1,PSO4
CO5	Integrate the legal and economic role of financial management with the values of a diverse, global. and ever-changing marketplace	Factual, conceptual, procedural and metacognitive	Understand , analyse, remember and apply	12	PO2,PSO1,PSO3,PSO4

**CO Attainment**

**Direct Attainment of COs**

**Assessment Plan for CIE**

CO	A1 (05)	A2 (05)	T1 (10)	T2 (10)
CO1	1	1	3	3
CO2	1	1	3	2
CO3	1	1	4	3

CO4	1	1	0	2
CO5	1	1	0	0

**Attainment of COs from CIE**  
**Class average in CIE (As Calculated)**

CO	A1 Cl. Ave (05)	A2 Cl. Ave (05)	T1 Cl. Ave (10)	T2 Cl. Ave (10)	CIE Class Average (%)
CO1	0.95	0.95	2.85	0	95
CO2	0.9	0.9	1.8	2.7	90
CO3	0.92	0.92	1.84	1.84	92
CO4	0.93	0.93	1.86	1.86	93
CO5	0.94	0.94	0.94	2.82	94

**Attainment of COs from SEE**

CO	Class Average in SEE
CO1	60
CO2	60
CO3	60
CO4	60
CO5	60

**Computation of CO Direct Attainment in the course:**

CO	CIE Cl. Ave	SEE Cl. Ave	Direct CO Attainment $0.3 * \text{CIE Cl. Ave} + 0.7 * \text{SEE Cl. Ave}$
CO1	95	60	70.5
CO2	90	60	69
CO3	92	60	69.6
CO4	93	60	69.9
CO5	94	60	70.2

**Targets:** Targets are set for each CO of a course separately as

CO	Target (Class Average)
CO1	70
CO2	72
CO3	65
CO4	68
CO5	71

**CO Attainment Gap**

CO	CO Attainment	Target (Class Average)	CO attainment Gap CA-COA
CO1	70.5	70	0.6
CO2	69	72	0.6
CO3	69.6	65	-1
CO4	69.9	68	-2.7
CO5	70.2	71	-1.5

**Closure of the Quality Loop for COs:**

	Target	CO Attainment gap (%)	Action proposed to bridge the gap	Modification of target where achieved
CO1	70	0.6	Model question papers	73
CO2	72	0.6	Model question papers	72
CO3	65	-1		
CO4	68	-2.7		
CO5	71	-1.5		

**CO-PO/PSO Mappings**

CO	POs/PSOs	Class Sessions
CO1	PO2, PSO4	08
CO2	PO2, PSO1	12

CO3	PO2, PSO1,PSO4	12
CO4	PO2,PSO1,PSO4	12
CO5	PO2,PSO1,PSO3,PSO4	12

**Course – PO/PSO Mapping Strength (0,1,2,3)100%-3 below 40-99-2%, below 40%-1**

Percentage of Sessions devoted to each PO/PSO	Mapping Strength
56 out of 56 (100%) devoted to PO2	3
48 out of 56 (86%) devoted to PSO1	2
12 out of 56 (21%) devoted to PSO3	1
44 out of 42 (79%) devoted to PSO4	2

**Course-POs/PSO Mapping**

Course	POs												PSOs				
	1	2	3	4	5	6	7	8	9	10	11	12	1	2	3	4	5
FM		3											2		1	2	

**CO Attainment and POs/PSOs**

CO	POs	CO Attainment (%ge)
CO1	PO2, PSO4	70.5
CO2	PO2, PSO1	69
CO3	PO2, PSO1,PSO4	69.6
CO4	PO2,PSO1,PSO4	69.9
CO5	PO2,PSO1,PSO3,PSO4	70.2

**PO and PSO Attainment**

Attainment of PO/PSO = (Average of attainments of relevant COs) x Scale Factor

Scale Factor = (Actual Mapping Strength / Maximum Possible Mapping Strength)  
 = Actual Mapping Strength / 3

PO/PSO	Attainment (%)
PO2	$3/3(70.5+69+69.6+69.9+70.2)/5= 69.84$
PSO1	$2/3(69+69.6+69.9+70.2)/4= 46.45$
PSO3	$1/3( 70.2)/1= 23.4$
PSO4	$2/3(70.5+69.6+69.9+70.2)/4= 46.7$

**Attainment of POs and PSOs**

Course	POs												PSOs				
	1	2	3	4	5	6	7	8	9	10	11	12	1	2	3	4	5
FM		3											2		1	2	
Attainment		0.69											0.46		0.23	0.46	

D023	<b>Principles of Airline and Airport Management</b>
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CO-1	Understand the evolution of Airline industry and current challenges faced by Airline Industry
CO-2	Explain the role of ICAO and IATA in international Air Transportation
CO-3	Understand the various operations performed by Airlines
CO-4	Understand the Airport Management
CO-5	Understand the role of Public Private Participation in Indian Airports

CO	Course Outcome	Knowledge category (Factual/ Conceptual/ Procedural/ Metacognitive)	Cognitive Level	No. of hours	POs/PSOs

CO1	Understand the evolution of Airline industry and current challenges faced by Airline Industry	Factual, conceptual	Analyse and understand	08	PO1, PSO1
CO2	Explain the role of ICAO and IATA in international Air Transportation	Factual, conceptual	Analyse and understand	12	PO1, PO3, PO4, PSO1, PSO2, PSO3
CO3	Understand the various operations performed by Airlines	Factual, conceptual and procedural	Analyse and understand	12	PO1, PO3, PO4, PSO1, PSO2, PSO3, PSO4
CO4	Understand the Airport Management	Factual, conceptual and procedural	Analyse and understand	12	PO1, PO2, PO4, PSO1, PSO2, PSO3,
CO5	Understand the role of Public Private Participation in Indian Airports	Factual, conceptual and procedural	Analyse and understand	12	PO1, PO2, PO3, PO4, PSO1, PSO2, PSO3

### Direct Attainment of COs

#### Assessment Plan for CIE

CO	A1 (10)	A2 (10)	T1 (10)	T2 (10)
CO1	1	1	3	0
CO2	1	1	2	3
CO3	1	1	2	2
CO4	1	1	2	2
CO5	1	1	1	3

### Attainment of COs from CIE

#### Class average in CIE (As Calculated)

CO	A1 Cl. Ave (10)	A2 Cl. Ave (10)	T1 Cl. Ave (10)	T2 Cl. Ave (10)	CIE Class Average (%)



					(assumption)
CO1	0.8	0.8	2.4	0	80
CO2	0.76	0.76	1.52	2.28	76
CO3	0.77	0.77	1.54	1.54	77
CO4	0.78	0.78	1.56	1.56	78
CO5	0.79	0.79	0.79	2.37	79

### Attainment of COs from SEE

CO	Class Average in SEE
CO1	65
CO2	65
CO3	65
CO4	65
CO5	65

### Computation of CO Direct Attainment in the course:

CO	CIE Cl. Ave	SEE Cl. Ave	Direct CO Attainment $0.4 * \text{CIE Cl. Ave}$ $+0.6 * \text{SEE Cl. Ave}$
CO1	80	65	69.5
CO2	76	65	68.3
CO3	77	65	68.6
CO4	78	65	68.9
CO5	79	65	69.2

**Targets:** Targets are set for each CO of a course separately as

CO	Target (Class Average)
CO1	70
CO2	71
CO3	72
CO4	68

CO5	69
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**CO Attainment Gap**

CO	CO Attainment	Target (Class Average)	CO attainment Gap CA-COA
CO1	69.5	70	0.5
CO2	68.3	71	2.7
CO3	68.6	72	3.4
CO4	68.9	68	-0.9
CO5	69.2	69	-0.2

**Closure of the Quality Loop for COs:**

CO	Target	CO Attainment gap (%)	Action proposed to bridge the gap	Modification of target where achieved
CO1	70	0.5	Model question papers	72
CO2	71	2.7	Model question papers and assignments	73
CO3	72	3.4	Model question papers and assignments	74
CO4	68	-0.9		
CO5	69	-0.2		

**CO-PO/PSO Mappings**

CO	POs/PSOs	Class Sessions

CO1	PO1, PSO1	08
CO2	PO1, PO3, PO4, PSO1, PSO2, PSO3	12
CO3	PO1, PO3, PO4, PSO1, PSO2, PSO3, PSO4	12
CO4	PO1, PO2, PO4, PSO1, PSO2, PSO3,	12
CO5	PO1, PO2, PO3, PO4, PSO1, PSO2, PSO3	12

**Course – PO/PSO Mapping Strength (0,1,2,3) 100%-3 below 40-99-2%, below 40%-1**

Percentage of Sessions devoted to each PO/PSO	Mapping Strength
56 out of 56(100%) devoted to PO1	3
24 out of 56 (43%) devoted to PO2	2
36 out of 56(64%) devoted to PO3	2
48 out of 56(86%) devoted to PO4	2
56 out of 56(100%) devoted to PSO1	3
48 out of 56(86%) devoted to PSO2	2
48 out of 56(86%) devoted to PSO3	2

**Course-POs/PSO Mapping**

Course	POs												PSOs				
	1	2	3	4	5	6	7	8	9	10	11	12	1	2	3	4	5
PAAM	3	2	2	2									3	2	2		

**CO Attainment and POs/PSOs**

CO	POs	CO Attainment (%ge)
CO1	PO1, PSO1	69.5
CO2	PO1, PO3, PO4, PSO1, PSO2, PSO3	68.3
CO3	PO1, PO3, PO4, PSO1, PSO2, PSO3, PSO4	68.6
CO4	PO1, PO2, PO4, PSO1, PSO2, PSO3,	68.9
CO5	PO1, PO2, PO3, PO4, PSO1, PSO2, PSO3	69.2

**PO and PSO Attainment**

Attainment of PO/PSO = (Average of attainments of relevant COs) x Scale Factor  
 Scale Factor = (Actual Mapping Strength / Maximum Possible Mapping Strength)  
 = Actual Mapping Strength / 3

PO/PSO	Attainment (%)
PO1	$3/3(69.5+68.3+68.6+68.9+69.2)/5= 68.9$
PO2	$2/3(68.9+69.2)/2= 46.03$
PO3	$2/3(68.3+68.6+69.2)/3= 45.8$
PO4	$2/3(68.3+68.6+68.9+69.2)/4= 45.8$
PSO1	$3/3(69.5+68.3+68.6+68.9+69.2)/5= 68.9$
PSO2	$2/3(68.3+68.6+68.9+69.2)/4= 45.8$
PSO3	$2/3(68.3+68.6+68.9+69.2)/4= 45.8$

**Attainment of POs and PSOs**

Course	POs												PSOs				
	1	2	3	4	5	6	7	8	9	10	11	12	1	2	3	4	5
PAAM	3	2	2	2									3	2	2		
Attainment	0.68	0.46	0.45	0.45									0.68	0.45	0.45		

D024	<b>PC Software (MS Office) - Theory &amp; Practical</b>
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CO-1	Demonstrate the importance of Computer software and hardware
CO-2	Demonstrate the ability to Create documents in Microsoft Word, typing text, numbers and dates into a document. Easy formatting. Checking the spelling in your document, Making and saving changes to your document
CO-3	Demonstrate the ability to Managing Windows Explorer, Create Creating, moving, renaming and deleting folders and files, understanding file extensions, viewing storage devices and network connections, Managing USB flash drives
CO-4	Understanding spreadsheet functionality, creating spreadsheets in Microsoft Excel, typing text numbers and dates into a worksheet, Easy formulas, Easy formatting, Charting the data, Making and saving changes to the workbook
CO-5	Ability to visit a specific website and bookmarking. Understanding how to search/Google effectively. Copy and paste internet content into documents and emails, Stopping and refreshing pages, Demystifying the Cloud, Computer security

CO	Course Outcome	Knowledge category ( <i>Factual/ Conceptual/ Procedural/ Metacognitive</i> )	Cognitive Level	No. of hours	POs/PSOs
CO1	Demonstrate the importance of Computer software and hardware	Factual, conceptual	Analyse and understand	08	PO4, PSO2, PSO4
CO2	Demonstrate the ability to Create documents in Microsoft Word, typing text, numbers and dates into a document. Easy formatting. Checking the spelling in your document,	Factual, conceptual and procedural	Analyse, apply and understand	12	PO4, PSO2, PSO3, PSO4

	Making and saving changes to your document				
CO3	Demonstrate the ability to Managing Windows Explorer, Create Creating, moving, renaming and deleting folders and files, understanding file extensions, viewing storage devices and network connections, Managing USB flash drives	Factual, conceptual and procedural	Analyse, apply and understand	12	PO4, PSO2, PSO3, PSO4
CO4	Understanding spreadsheet functionality, creating spreadsheets in Microsoft Excel, typing text numbers and dates into a worksheet, Easy formulas, Easy formatting, Charting the data, Making and saving changes to the workbook	Factual, conceptual and procedural	Analyse, apply and understand	12	PO4, PSO2, PSO3, PSO4
CO5	Ability to visit a specific website and bookmarking. Understanding how to search/Google effectively. Copy and paste internet content into documents and emails, Stopping and refreshing pages, Demystifying the Cloud, Computer security	Factual, conceptual and procedural	Analyse, apply and understand	12	PO4, PSO2, PSO3, PSO4

## CO Attainment

### Direct Attainment of COs

### Assessment Plan for CIE

CO	A1 (05)	A2 (05)	T1 (10)	T2 (10)
CO1	1	1	4	0
CO2	1	1	4	0
CO3	1	1	2	2
CO4	1	1	0	4
CO5	1	1	0	4

**Attainment of COs from CIE**  
**Class average in CIE (As Calculated)**

CO	A1 Cl. Ave (05)	A2 Cl. Ave (05)	T1 Cl. Ave (10)	T2 Cl. Ave (10)	CIE Class Average (%) (assumption)
CO1	0.82	0.82	3.28	0	82
CO2	0.81	0.81	3.24	0	81
CO3	0.8	0.8	1.6	1.6	80
CO4	0.79	0.79	0	3.16	79
CO5	0.78	0.78	0	2.8	78

**Attainment of COs from SEE**

CO	Class Average in SEE
CO1	43
CO2	43
CO3	43
CO4	43
CO5	43

**Computation of CO Direct Attainment in the course:**

CO	CIE Cl. Ave	SEE Cl. Ave	Direct CO Attainment $0.3 * \text{CIE Cl. Ave}$ $+0.7 * \text{SEE Cl. Ave}$
CO1	82	43	54.7

CO2	81	43	54.4
CO3	80	43	54.1
CO4	79	43	53.8
CO5	78	43	53.5

**Targets:** Targets are set for each CO of a course separately as

CO	Target (Class Average)
CO1	56
CO2	55
CO3	54
CO4	53
CO5	53

#### CO Attainment Gap

CO	CO Attainment	Target (Class Average)	CO attainment Gap CA-COA
CO1	54.7	56	1.3
CO2	54.4	55	0.6
CO3	54.1	54	-0.1
CO4	53.8	53	-0.8
CO5	53.5	53	-0.5

#### Closure of the Quality Loop for COs:

	Target	CO Attainment gap (%)	Action proposed to bridge the gap	Modification of target where achieved
CO1	56	1.3	Model question papers	58
CO2	55	0.6	Model question papers	57
CO3	54	-0.1		



CO4	53	-0.8		
CO5	53	-0.5		

### CO-PO/PSO Mappings

CO	POs/PSOs	Class Sessions
CO1	PO4, PSO2, PSO4	08
CO2	PO4, PSO2, PSO3, PSO4	12
CO3	PO4, PSO2, PSO3, PSO4	12
CO4	PO4, PSO2, PSO3, PSO4	12
CO5	PO4, PSO2, PSO3, PSO4	12

### Course – PO/PSO Mapping Strength (0,1,2,3) 100%-3 below 40-99-2%, below 40%-1

Percentage of Sessions devoted to each PO/PSO	Mapping Strength
56 out of 56 (100%) devoted to PO4	3
56 out of 56 (100%) devoted to PSO2	3
48 out of 56 (%) devoted to PSO3	2
56 out of 56 (100%) devoted to PSO4	3

### Course-POs/PSO Mapping

Course	POs												PSOs								
	1	2	3	4	5	6	7	8	9	10	11	12	1	2	3	4	5				
PC Software				3													3	2	3		

### CO Attainment and POs/PSOs

CO	POs	CO Attainment (%)
CO1	PO4, PSO2, PSO4	54.7
CO2	PO4, PSO2, PSO3, PSO4	54.4
CO3	PO4, PSO2, PSO3, PSO4	54.1
CO4	PO4, PSO2, PSO3, PSO4	53.8
CO5	PO4, PSO2, PSO3, PSO4	53.5

**PO and PSO Attainment**

Attainment of PO/PSO = (Average of attainments of relevant COs) x Scale Factor  
 Scale Factor = (Actual Mapping Strength / Maximum Possible Mapping Strength)  
 = Actual Mapping Strength / 3

PO/PSO	Attainment (%)
PO4	$3/3(54.7+54.4+54.1+53.8+53.5)/5= 54.1$
PSO2	$3/3(54.7+54.4+54.1+53.8+53.5)/5= 54.1$
PSO3	$2/3(54.4+54.1+53.8+53.5)/4= 35.9$
PSO4	$3/3(54.7+54.4+54.1+53.8+53.5)/5= 54.1$

**Attainment of POs and PSOs**

Course	POs												PSOs				
	1	2	3	4	5	6	7	8	9	10	11	12	1	2	3	4	5
PC Software				3										3	2	3	
Attainment				0.54										0.54	0.35	0.54	

D025	<b>Logistics and Air Cargo Management</b>
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CO-1	Understanding the various agencies and freight forwarders
CO-2	Understanding the principles of accepting air cargo and rating
CO-3	Understanding the concept of billing
CO-4	Understanding the various terminology used in airline industry
CO-5	Understanding the various manuals used

CO	Course Outcome	Knowledge category ( <i>Factual/ Conceptual/ Procedural/ Metacognitive</i> )	Cognitive Level	No. of hours	POs/PSOs
CO1	Understanding the various agencies and freight forwarders	Factual, conceptual	Understand and analyse	08	PO1, PO2, PO3, PSO2, PSO3
CO2	Understanding the principles of accepting air cargo and rating	Factual, conceptual	Understand and analyse	12	PO1, PO2, PSO2
CO3	Understanding the concept of billing	Factual, conceptual	Understand and analyse	12	PO1, PO2, PO3, PSO2, PSO3, PSO4
CO4	Understanding the various terminology used in airline industry	Factual, conceptual	Understand and analyse	12	PO1, PO3, PSO3
CO5	Understanding the various manuals used	Factual, conceptual	Understand and analyse	12	PO1, PO3, PSO1, PSO3, PSO4

### Direct Attainment of COs

#### Assessment Plan for CIE

CO	A1 (05)	A2 (05)	T1 (10)	T2 (10)
CO1	1	1	3	0
CO2	1	1	2	3
CO3	1	1	2	2
CO4	1	1	2	2
CO5	1	1	1	3

**Attainment of COs from CIE**  
**Class average in CIE (As Calculated)**

CO	A1 Cl. Ave (05)	A2 Cl. Ave (05)	T1 Cl. Ave (10)	T2 Cl. Ave (10)	CIE Class Average (%)
CO1	0.78	0.78	2.34	0	78
CO2	0.76	0.76	1.52	2.28	76
CO3	0.77	0.77	1.54	1.54	77
CO4	0.75	0.75	1.5	1.5	75
CO5	0.74	0.74	0.74	2.22	74

**Attainment of COs from SEE**

CO	Class Average in SEE
CO1	66
CO2	66
CO3	66
CO4	66
CO5	66

**Computation of CO Direct Attainment in the course:**

CO	CIE Cl. Ave	SEE Cl. Ave	Direct CO Attainment $0.3 * \text{CIE Cl. Ave} + 0.7 * \text{SEE Cl. Ave}$
CO1	78	66	69.6
CO2	76	66	69
CO3	77	66	69.3
CO4	75	66	68.7
CO5	74	66	68.4

**Targets:** Targets are set for each CO of a course separately as

CO	Target (Class Average)
CO1	70
CO2	72
CO3	65
CO4	68
CO5	71

### CO Attainment Gap

CO	CO Attainment	Target (Class Average)	CO attainment Gap CA-COA
CO1	69.6	70	0.4
CO2	69	72	3
CO3	69.3	65	-4.3
CO4	68.7	68	-0.7
CO5	68.4	71	2.6

### Closure of the Quality Loop for COs:

CO	Target	CO Attainment gap (%)	Action proposed to bridge the gap	Modification of target where achieved
CO1	70	0.4	Model question papers	72
CO2	72	3	Model question papers and assignments	73
CO3	65	-4.3		
CO4	68	-0.7		
CO5	71	2.6		

### CO-PO/PSO Mappings

CO	POs/PSOs	Class Sessions

CO1	PO1, PO2, PO3, PSO2, PSO3	08
CO2	PO1, PO2, PSO2	12
CO3	PO1, PO2, PO3, PSO2, PSO3, PSO4	12
CO4	PO1, PO3, PSO3	12
CO5	PO1, PO3, PSO1, PSO3, PSO4	12

**Course – PO/PSO Mapping Strength (0,1,2,3) 100%-3 below 40-99-2%, below 40%-1**

Percentage of Sessions devoted to each PO/PSO	Mapping Strength
56 out of 56 (100%) devoted to PO1	3
32 out of 56 (57%) devoted to PO2	2
44 out of 56 (79%) devoted to PO3	2
12 out of 56 (21%) devoted to PSO1	1
32 out of 56 (57%) devoted to PSO2	2
36 out of 56 (64%) devoted to PSO3	2
24 out of 56 (43%) devoted to PSO4	2

**Course-POs/PSO Mapping**

Course	POs												PSOs				
	1	2	3	4	5	6	7	8	9	10	11	12	1	2	3	4	5
LACM	3	2	2										1	2	2	2	

**CO Attainment and POs/PSOs**

CO	POs	CO Attainment (%)
CO1	PO1, PO2, PO3, PSO2, PSO3	69.6
CO2	PO1, PO2, PSO2	69

CO3	PO1, PO2, PO3, PSO2, PSO3, PSO4	69.3
CO4	PO1, PO3, PSO3	68.7
CO5	PO1, PO3, PSO1, PSO3, PSO4	68.4

**PO and PSO Attainment**

Attainment of PO/PSO = (Average of attainments of relevant COs) x Scale Factor  
 Scale Factor = (Actual Mapping Strength / Maximum Possible Mapping Strength)  
 = Actual Mapping Strength / 3

PO/PSO	Attainment (%)
PO1	$3/3(69.6+69+69.3+68.7+68.4)/5= 69$
PO2	$2/3(69.6+69+69.3)/3= 46.2$
PO3	$2/3(69.6+69.3+68.7+68.4)/4= 46$
PSO1	$1/3(68.4)/1= 22.7$
PSO2	$2/3(69.6+69+69.3)/3= 46.2$
PSO3	$2/3(69.3+68.7+68.4)/3= 45.8$
PSO4	$2/3(69.3+68.4)/2= 45.9$

**Attainment of POs and PSOs**

Course	POs											PSOs					
	1	2	3	4	5	6	7	8	9	10	11	12	1	2	3	4	5
LACM	3	2	2										1	2	2	2	

Attainment	0.6 9	0.4 6	0.4 6									0.2 2	0.4 6	0.4 5	0.4 5
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D026	<b>Business Law</b>
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CO-1	To understand the basic concepts and laws of business
CO-2	The intellectual property rights and consumer protection laws
CO-3	To understand knowledge, basic and broad knowledge in business laws in management
CO-4	Ability to apply concepts, principles and theories
CO-5	To understand simple business laws

CO	Course Outcome	Knowledge category ( <i>Factual/ Conceptual/ Procedural/ Metacognitive</i> )	Cognitive Level	No. of hours	POs/PSOs
CO1	To understand the basic concepts and laws of business	Factual and conceptual	Analyse, understand and remember	08	PO1, PO4, PSO2, PSO4
CO2	The intellectual property rights and consumer protection laws	Factual, conceptual and procedural	Analyse, understand and remember	12	PO1, PO4, PSO2, PSO3, PSO4
CO3	To understand knowledge, basic and broad knowledge in business laws in management	Factual, conceptual and procedural	Analyse, understand and remember	12	PO1, PO4, PSO2, PSO4
CO4	Ability to apply concepts, principles and theories	Factual, conceptual and procedural	Analyse, understand and remember	12	PO1, PO4, PSO2, PSO3, PSO4



CO5	To understand simple business laws	Factual, conceptual, procedural and metacognitive	Analyse, understand, remember and apply	12	PO1, PO4, PSO2, PSO4
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### Direct Attainment of COs

#### Assessment Plan for CIE

CO	A1 (05)	A2 (05)	T1 (10)	T2 (10)
CO1	1	1	3	0
CO2	1	1	2	3
CO3	1	1	2	2
CO4	1	1	2	2
CO5	1	1	1	3

### Attainment of COs from CIE

#### Class average in CIE (As Calculated)

CO	A1 Cl. Ave (05)	A2 Cl. Ave (05)	T1 Cl. Ave (10)	T2 Cl. Ave (10)	CIE Class Average (%) (assumption)
CO1	0.78	0.78	2.34	0	78
CO2	0.75	0.75	1.5	2.25	75
CO3	0.76	0.76	1.52	1.52	76
CO4	0.74	0.74	1.48	1.48	74
CO5	0.73	0.73	0.73	2.19	73

### Attainment of COs from SEE

CO	Class Average in SEE
CO1	55
CO2	56

CO3	54
CO4	53
CO5	52

**Computation of CO Direct Attainment in the course:**

CO	CIE Cl. Ave	SEE Cl. Ave	Direct CO Attainment $0.4 * \text{CIE Cl. Ave} + 0.6 * \text{SEE Cl. Ave}$
CO1	78	55	61.9
CO2	75	56	61.7
CO3	76	54	60.6
CO4	74	53	59.3
CO5	73	52	58.3

**Targets:** Targets are set for each CO of a course separately as

CO	Target (Class Average)
CO1	62
CO2	63
CO3	61
CO4	58
CO5	60

**CO Attainment Gap**

CO	CO Attainment	Target (Class Average)	CO attainment Gap <b>CA-COA</b>
CO1	61.9	62	0.1
CO2	61.7	63	1.3
CO3	60.6	61	0.4

CO4	59.3	58	-1.3
CO5	58.3	60	1.7

#### Closure of the Quality Loop for COs:

CO	Target	CO Attainment gap (%)	Action proposed to bridge the gap	Modification of target where achieved
CO1	62	0.1	Model question papers	64
CO2	63	1.3	Model question papers	65
CO3	61	0.4	Model question papers	63
CO4	58	-1.3		
CO5	60	1.7		

#### CO-PO/PSO Mappings

CO	POs/PSOs	Class Sessions
CO1	PO1, PO4, PSO2, PSO4	08
CO2	PO1, PO4, PSO2, PSO3, PSO4	12
CO3	PO1, PO4, PSO2, PSO4	12
CO4	PO1, PO4, PSO2, PSO4	12
CO5	PO1, PO4, PSO2, PSO4	12

**Course – PO/PSO Mapping Strength (0,1,2,3)100%-3 below 40-99-2%, below 40%-1**

Percentage of Sessions devoted to each PO/PSO	Mapping Strength
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56 out of 56(100%) devoted to PO1	3
56 out of 56(100%) devoted to PO4	3
56 out of 56(100%) devoted to PSO2	3
24 out of 56(43%) devoted to PSO3	2
56 out of 56(100%) devoted to PSO4	3

**Course-POs/PSO Mapping**

Course	POs												PSOs				
	1	2	3	4	5	6	7	8	9	10	11	12	1	2	3	4	5
BL	3			3										3	2	3	

**CO Attainment and POs/PSOs**

CO	POs	CO Attainment (%ge)
CO1	PO1, PO4, PSO2, PSO4	61.9
CO2	PO1, PO4, PSO2, PSO3, PSO4	61.7
CO3	PO1, PO4, PSO2, PSO4	60.6
CO4	PO1, PO4, PSO2, PSO3, PSO4	59.3
CO5	PO1, PO4, PSO2, PSO4	58.3

**PO and PSO Attainment**

Attainment of PO/PSO = (Average of attainments of relevant COs) x Scale Factor  
 Scale Factor = (Actual Mapping Strength / Maximum Possible Mapping Strength)  
 = Actual Mapping Strength / 3

PO/PSO	Attainment (%)
PO1	$3/3(61.9+61.7+60.6+59.3+58.3)/5= 60.36$
PO4	$3/3(61.9+61.7+60.6+59.3+58.3)/5= 60.36$
PSO2	$3/3(61.9+61.7+60.6+59.3+58.3)/5= 60.36$
PSO3	$2/3(61.7+59.3)/2= 40.33$
PSO4	$3/3(61.9+61.7+60.6+59.3+58.3)/5= 60.36$

**Attainment of POs and PSOs**

Course	POs												PSOs				
	1	2	3	4	5	6	7	8	9	10	11	12	1	2	3	4	5
BL	3			3										3	2	3	
Attainment	0.60			0.60										0.60	0.40	0.60	

**Course Outcome:**

**V semester**

E021	<b>Marketing Research</b>
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CO-1	Understand the meaning of marketing research and various concepts of research methodology
CO-2	Explain various concepts of scaling techniques and sampling designs
CO-3	Understand the concepts of different statistical tools
CO-4	To analyse and understand the statistical techniques used in marketing research
CO-5	Understand the concept of writing research reports and integral parts of report

CO	Course Outcome	Knowledge category ( <i>Factual/ Conceptual/ Procedural/ Metacognitive</i> )	Cognitive Level	No. of hours	POs/PSOs
CO1	Understand the meaning of marketing research and various concepts of research methodology	Factual, conceptual, procedural	Analyse and understand	12	PO1, PO2, PSO1
CO2	Explain various concepts of scaling techniques and sampling designs	Factual, conceptual, procedural	Analyse and understand	12	PO1, PSO1

CO3	Understand the concepts of different statistical tools	Factual, conceptual, procedural	Analyse and understand	12	PO1, PO3, PSO1
CO4	To analyse and understand the statistical techniques used in marketing research	Factual, conceptual, procedural	Analyse and understand	12	PO1, PO2, PSO1, PSO4
CO5	Understand the concept of writing research reports and integral parts of report	Factual, conceptual, procedural, metacognitive	Analyse and understand	08	PO1, PO3, PSO1, PSO4

**Direct Attainment of COs**

**Assessment Plan for CIE**

CO	A1 (10)	A2 (10)	T1 (10)	T2 (10)
CO1	1	1	3	0
CO2	1	1	3	0
CO3	1	1	4	3
CO4	1	1	0	3
CO5	1	1	0	4

**Attainment of COs from CIE**

**Class average in CIE (As Calculated)**

CO	A1 Cl. Ave (10)	A2 Cl. Ave (10)	T1 Cl. Ave (10)	T2 Cl. Ave (10)	CIE Class Average (%) (assumption)
CO1	1	1	3	0	84
CO2	1	1	3	0	83
CO3	1	1	4	3	82
CO4	1	1	0	3	81
CO5	1	1	0	4	80

**Attainment of COs from SEE**

CO	Class Average in SEE
CO1	52
CO2	52
CO3	52
CO4	52
CO5	52

**Computation of CO Direct Attainment in the course:**

CO	CIE Cl. Ave	SEE Cl. Ave	Direct CO Attainment $0.3 * \text{CIE Cl. Ave} + 0.7 * \text{SEE Cl. Ave}$
CO1	84	52	61.6
CO2	83	52	61.3
CO3	82	52	61
CO4	81	52	60.7
CO5	80	52	60.4

**Targets:** Targets are set for each CO of a course separately as

CO	Target (Class Average)
CO1	64
CO2	63
CO3	62
CO4	59
CO5	58

**CO Attainment Gap**

CO	CO Attainment	Target (Class Average)	CO attainment Gap <b>CA-COA</b>
CO1	61.6	64	2.4

CO2	61.3	63	1.7
CO3	61	62	1
CO4	60.7	59	-1.7
CO5	60.4	58	-2.4

**Closure of the Quality Loop for COs:**

	Target	CO Attainment gap (%)	Action proposed to bridge the gap	Modification of target where achieved
CO1	64	2.4	Model question papers	
CO2	63	1.7	Model question papers	
CO3	62	1	Assignments	
CO4	59	-1.7		60
CO5	58	-2.4		60

**CO-PO/PSO Mappings**

CO	POs/PSOs	Class Sessions
CO1	PO1, PO2, PSO1	12
CO2	PO1, PSO1	12
CO3	PO1, PO3, PSO1	12
CO4	PO1, PO2, PSO1, PSO4	12
CO5	PO1, PO3, PSO1, PSO4	08

**Course – PO/PSO Mapping Strength (0,1,2,3) 100%-3 below 40-99-2%, below 40%-1**

Percentage of Sessions devoted to each PO/PSO	Mapping Strength
56 out of 56 (100%) devoted to PO1	3
24 out of 56 (43%) devoted to PO2	1
20 out of 56 (36%) devoted to PO3	1
56 out of 56 (100%) devoted to PSO1	3
20 out of 56 (36%) devoted to PSO4	1



### Course-POs/PSO Mapping

Course	POs												PSOs				
	1	2	3	4	5	6	7	8	9	10	11	12	1	2	3	4	5
MR	3	1	1										3			1	

### CO Attainment and POs/PSOs

CO	POs	CO Attainment (%ge)
CO1	PO1, PO2, PSO1	61.6
CO2	PO1, PSO1	61.3
CO3	PO1, PO3, PSO1	61
CO4	PO1, PO2, PSO1, PSO4	60.7
CO5	PO1, PO3, PSO1, PSO4	60.4

### PO and PSO Attainment

Attainment of PO/PSO = (Average of attainments of relevant COs) x Scale Factor  
 Scale Factor = (Actual Mapping Strength / Maximum Possible Mapping Strength)  
 = Actual Mapping Strength / 3

PO/PSO	Attainment (%)
PO1	$3/3(61.6+61.3+61+60.7+60.4)/5= 61$
PO2	$1/3(61.6+60.7)/2= 20.3$
PO3	$1/3(61+60.4)/2= 20.2$
PSO1	$3/3(61.6+61.3+61+60.7+60.4)/5= 61$
PSO4	$1/3(60.7+60.4)/2= 20.1$

### Attainment of POs and PSOs

Course	POs												PSOs				
	1	2	3	4	5	6	7	8	9	10	11	12	1	2	3	4	5

MR	3	1	1							3			1
Attainment	0.61	0.20	0.20							0.61			0.20

E022	<b>Airline Finance and Insurance</b>
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CO-1	Assess the financial performance of airlines and airports
CO-2	Construct an airline's financial plan given an understanding of airline finance
CO-3	Understand how to evaluate the alternative ways of financing an airline and its operating asset
CO-4	Analyse the relationships between airline financial management and the underlying economic drivers of the airline business
CO-5	Understand key issues in airport finance and airport financing method

CO	Course Outcome	Knowledge category (Factual/ Conceptual/ Procedural/ Metacognitive)	Cognitive Level	No. of hours	POs/PSOs
CO1	Assess the financial performance of airlines and airports	Factual, procedural, metacognitive	Analyse and understand	08	PO1, PO2, PSO1, PSO4
CO2	Construct an airline's financial plan given an understanding of airline finance	Factual, procedural, metacognitive	Analyse and understand	12	PO1, PO2, PSO1, [PSO4
CO3	Understand how to evaluate the alternative ways of financing an airline and its operating asset	Factual, procedural, metacognitive	Analyse and understand	12	PO1, PO2, PSO1, PSO3
CO4	Analyse the relationships between airline financial management and the underlying economic	Factual, procedural, metacognitive	Understand and evaluate	12	PO1, PO2, PO4, PSO1, PSO4

	drivers of the airline business				
CO5	Understand key issues in airport finance and airport financing method	Factual, procedural, metacognitive	Understand and evaluate	12	PO1, PO3, PSO1, PSO4

**CO Attainment**

**Direct Attainment of COs**

**Assessment Plan for CIE**

CO	A1 (5)	A2 (5)	T1 (10)	T2 (10)
CO1	1	1	4	2
CO2	1	1	2	2
CO3	1	1	2	2
CO4	1	1	2	0
CO5	1	1	0	4

**Attainment of COs from CIE**

**Class average in CIE (As Calculated)**

CO	A1 Cl. Ave (5)	A2 Cl. Ave (5)	T1 Cl. Ave (10)	T2 Cl. Ave (10)	CIE Class Average (%)
CO1	0.84	0.84	3.36	1.68	84
CO2	0.82	0.82	1.64	1.64	82
CO3	0.8	0.8	1.6	0	80
CO4	0.81	0.81	1.62	1.62	81
CO5	0.85	0.85	0	3.4	85

**Attainment of COs from SEE**

CO	Class Average in SEE
CO1	60

CO2	62
CO3	63
CO4	58
CO5	59

**Computation of CO Direct Attainment in the course:**

CO	CIE Cl. Ave	SEE Cl. Ave	Direct CO Attainment $0.3 * \text{CIE Cl. Ave} + 0.7 * \text{SEE Cl. Ave}$
CO1	84	60	67
CO2	82	62	68
CO3	80	63	68
CO4	81	58	65
CO5	85	59	67

**Targets:** Targets are set for each CO of a course separately as

CO	Target (Class Average)
CO1	70
CO2	72
CO3	68
CO4	65
CO5	66

**CO Attainment Gap**

CO	CO Attainment	Target (Class Average)	CO attainment Gap <b>CA-COA</b>
CO1	67	70	3
CO2	68	72	4
CO3	68	68	0
CO4	65	65	0
CO5	67	66	-1

### Closure of the Quality Loop for COs:

	Target	CO Attainment gap (%)	Action proposed to bridge the gap	Modification of target where achieved
CO1	70	3	Assignments to be given	
CO2	72	4	Question paper to be solved	
CO3	68	0		
CO4	65	0		
CO5	66	-1		67

### CO-PO/PSO Mappings

CO	POs/PSOs	Class Sessions
CO1	PO1, PO2, PSO1, PSO4	08
CO2	PO1, PO2, PSO1, [PSO4	12
CO3	PO1, PO2, PSO1, PSO3	12
CO4	PO1, PO2, PO4, PSO1, PSO4	12
CO%	PO1, PO3, PSO1, PSO4	12

### Course – PO/PSO Mapping Strength (0,1,2,3)100%-3 below 40-99-2%, below 40%-1

Percentage of Sessions devoted to each PO/PSO	Mapping Strength
56 out of 56 (100%) devoted to PO1	3
44 out of 56 (79%) devoted to PO2	2
42 out of 56 (75%) devoted to PO3	2
12 out of 56 (21%) devoted to PO4	1
56 out of 56 (100%) devoted to PSO1	3
12 out of 56 (21%) devoted to PSO3	1
44 out of 56 (79%) devoted to PSO4	2

### Course-POs/PSO Mapping

Course	POs												PSOs				
	1	2	3	4	5	6	7	8	9	10	11	12	1	2	3	4	5
TOC	3	2	2	1									3		1	2	

### CO Attainment and POs/PSOs

CO	POs	CO Attainment (%ge)
CO1	PO1, PO2, PSO1, PSO4	67
CO2	PO1, PO2, PSO1, [PSO4	68
CO3	PO1, PO2, PSO1, PSO3	68
CO4	PO1, PO2, PO4, PSO1, PSO4	65
CO5	PO1, PO3, PSO1, PSO4	67

### PO and PSO Attainment

Attainment of PO/PSO = (Average of attainments of relevant COs) x Scale Factor  
 Scale Factor = (Actual Mapping Strength / Maximum Possible Mapping Strength)  
 = Actual Mapping Strength / 3

PO/PSO	Attainment (%)
PO1	67
PO2	45
PO3	45
PO4	45
PSO1	67
PSO3	45
PSO4	67

### Attainment of POs and PSOs

Course	POs												PSOs				
	1	2	3	4	5	6	7	8	9	10	11	12	1	2	3	4	5
TOC	3	2	2	1									3		1	2	
Attainment	.67	.45	.45	.45									.67	.45		.67	

E023	<b>Aviation Law and Aircraft Rules and Regulations</b>
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CO-1	Understand the role of DGCA in India
CO-2	Understand the rules and regulations enacted to regulate civil aviation industry in India
CO-3	Explain various acts implemented internationally for the civil aviation
CO-4	Explain Civil Aviation Requirements (CAR) for the safe operation of aircraft
CO-5	Understand the different international conventions held to address aviation problems

CO	Course Outcome	Knowledge category (Factual/ Conceptual/ Procedural/ Metacognitive)	Cognitive Level	No. of hours	POs/PSOs
CO1	Understand the role of DGCA in India	Factual, procedural, metacognitive	Understand, apply and remember	08	PO1, PO2, PSO1, PSO2

CO2	Understand the rules and regulations enacted to regulate civil aviation industry in India	Factual, procedural, metacognitive	Understand, apply and remember	08	PO1, PO2, PSO1, PSO2
CO3	Explain various acts implemented internationally for the civil aviation	Factual, procedural, metacognitive	Understand, apply and remember	12	PO1, PO2, PSO1, PSO2
CO4	Explain Civil Aviation Requirements (CAR) for the safe operation of aircraft	Factual, procedural, metacognitive	Understand, apply and remember	14	PO1, PO2, PSO1, PSO2
CO5	Understand the different international conventions held to address aviation problems	Factual, procedural, metacognitive	Understand, apply and remember	14	PO1, PO2, PSO1, PSO2, PSO3

### Direct Attainment of COs

#### Assessment Plan for CIE

CO	A1 (5)	A2 (5)	T1 (10)	T2 (10)
CO1	1	1	3	0
CO2	1	1	3	0
CO3	1	1	4	4
CO4	1	1	0	3
CO5	1	1	0	3

### Attainment of COs from CIE

#### Class average in CIE (As Calculated)

CO	A1 Cl. Ave (5)	A2 Cl. Ave (5)	T1 Cl. Ave (10)	T2 Cl. Ave (10)	CIE Class Average (%)
CO1	1	1	3	0	79
CO2	1	1	3	0	78



CO3	1	1	4	4	77
CO4	1	1	0	3	76
CO5	1	1	0	3	75

**Attainment of COs from SEE**

CO	Class Average in SEE
CO1	50
CO2	50
CO3	50
CO4	50
CO5	50

**Computation of CO Direct Attainment in the course:**

CO	CIE Cl. Ave	SEE Cl. Ave	Direct CO Attainment $0.3 * \text{CIE Cl. Ave} + 0.7 * \text{SEE Cl. Ave}$
CO1	79	50	58.7
CO2	78	50	58.4
CO3	77	50	58.1
CO4	76	50	57.8
CO5	75	50	57.5

**Targets:** Targets are set for each CO of a course separately as

CO	Target (Class Average)
CO1	60
CO2	60
CO3	59
CO4	58
CO5	58

**CO Attainment Gap**

CO	CO Attainment	Target (Class Average)	CO attainment Gap <b>CA-COA</b>
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CO1	58.7	60	1.3
CO2	58.4	60	1.6
CO3	58.1	59	0.9
CO4	57.8	58	-0.1
CO5	57.5	58	0.5

**Closure of the Quality Loop for COs:**

	Target	CO Attainment gap (%)	Action proposed to bridge the gap	Modification of target where achieved
CO1	60	1.3	Model question papers	61
CO2	60	1.6	Model question papers	61
CO3	59	0.9	Model question papers	60
CO4	58	-0.1		
CO5	58	0.5	Model question papers	59

**CO-PO/PSO Mappings**

CO	POs/PSOs	Class Sessions
CO1	PO1, PO2, PSO1, PSO2	08
CO2	PO1, PO2, PSO1, PSO2	08
CO3	PO1, PO2, PSO1, PSO2	12
CO4	PO1, PO2, PSO1, PSO2	14
CO5	PO1, PO2, PSO1, PSO2, PSO3	14

**Course – PO/PSO Mapping Strength (0,1,2,3) 100%-3 below 40-99-2%, below 40%-1**

Percentage of Sessions devoted to each PO/PSO	Mapping Strength
56 out of 56 (100%) devoted to PO1	3
56 out of 56 (100%) devoted to PO2	3
56 out of 56(100%) devoted to PSO1	3

56 out of 56(100%) devoted to PSO2	3
14 out of 56(25%) devoted to PSO3	1

### Course-POs/PSO Mapping

Course	POs												PSOs				
	1	2	3	4	5	6	7	8	9	10	11	12	1	2	3	4	5
ALAR	3	3											3	3	2		

### CO Attainment and POs/PSOs

CO	POs	CO Attainment (%ge)
CO1	PO1, PO2, PSO1, PSO2	58.7
CO2	PO1, PO2, PSO1, PSO2	58.4
CO3	PO1, PO2, PSO1, PSO2	58.1
CO4	PO1, PO2, PSO1, PSO2	57.8
CO5	PO1, PO2, PSO1, PSO2, PSO3	57.5

### PO and PSO Attainment

Attainment of PO/PSO = (Average of attainments of relevant COs) x Scale Factor  
 Scale Factor = (Actual Mapping Strength / Maximum Possible Mapping Strength)  
 = Actual Mapping Strength / 3

PO/PSO	Attainment (%)
PO1	$3/3(58.7+58.4+58.1+57.8+57.5)/5= 58.1$
PO2	$3/3(58.7+58.4+58.157.8+57.5)/5= 58.1$
PSO1	$3/3(58.7+58.4+58.157.8+57.5)/5=58.1$
PSO2	$3/3(58.7+58.4+58.157.8+57.5)/5= 58.1$
PSO3	$1/3(57.5)/1= 19.16$

### Attainment of POs and PSOs

Course	POs												PSOs				
	1	2	3	4	5	6	7	8	9	10	11	12	1	2	3	4	5
ALAR	3	3											3	3	1		
Attainment	0.58	0.58											0.58	0.58	0.19		

E024	<b>Air Traffic Control</b>
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CO-1	Understand the basic concepts of ATC. its functions and operations
CO-2	Understand the importance of ATC in Aviation
CO-3	Explain the alerting and emergency services provided by ATC
CO-4	Explain the different aerodrome data used by ATC
CO-5	Explain the different kinds of aids provided for navigation

CO	Course Outcome	Knowledge category (Factual/ Conceptual/ Procedural/ Metacognitive)	Cognitive Level	No. of hours	POs/PSOs
CO1	Understand the basic concepts of ATC. its functions and operations	Factual, procedural, metacognitive	Analyse and apply	08	PO1, PO2, PSO1
CO2	Understand the importance of ATC in Aviation	Factual, procedural, metacognitive	Analyse and apply	12	PO1, PO2, PSO1, PSO2
CO3	Explain the alerting and emergency services provided by ATC	Factual, procedural, metacognitive	Analyse and apply	12	PO1, PO2, PSO1
CO4	Explain the different aerodrome data used by ATC	Factual, procedural, metacognitive	Analyse and apply	12	PO1, PO2, PSO2

CO5	Explain the different kinds of aids provided for navigation	Factual, procedural, metacognitive	Analyse and apply	12	PO1, PO2, PSO2, PSO3
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**CO Attainment**

**Direct Attainment of COs**

**Assessment Plan for CIE**

CO	A1 (5)	A2 (5)	T1 (10)	T2 (10)
CO1	1	1	3	0
CO2	1	1	3	0
CO3	1	1	4	0
CO4	1	1	0	6
CO5	1	1	0	4

**Attainment of COs from CIE**

**Class average in CIE (As Calculated)**

CO	A1 Cl. Ave (10)	A2 Cl. Ave (10)	T1 Cl. Ave (10)	T2 Cl. Ave (10)	CIE Class Average (%) (assumption)
CO1	1	1	3	0	74
CO2	1	1	3	0	73
CO3	1	1	4	0	72
CO4	1	1	0	6	71
CO5	1	1	0	4	70

**Attainment of COs from SEE**

CO	Class Average in SEE
CO1	61
CO2	61
CO3	61
CO4	61

CO5	61
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**Computation of CO Direct Attainment in the course:**

CO	CIE Cl. Ave	SEE Cl. Ave	Direct CO Attainment $0.3 * \text{CIE Cl. Ave}$ $+0.7 * \text{SEE Cl. Ave}$
CO1	74	61	64.9
CO2	73	61	64.6
CO3	72	61	64.3
CO4	71	61	64
CO5	70	61	63.7

**Targets:** Targets are set for each CO of a course separately as

CO	Target (Class Average)
CO1	66
CO2	66
CO3	64
CO4	63
CO5	65

**CO Attainment Gap**

CO	CO Attainment	Target (Class Average)	CO attainment Gap <b>CA-COA</b>
CO1	64.9	66	1.1
CO2	64.6	66	1.4
CO3	64.3	64	-0.3
CO4	64	63	-1
CO5	63.7	65	1.3

**Closure of the Quality Loop for COs:**

CO	Target	CO Attainment gap (%)	Action proposed to bridge the gap	Modification of target were achieved
CO1	66	1.1	Model question papers	
CO2	66	1.4	Model question papers	
CO3	64	-0.3		65
CO4	63	-1		65
CO5	65	1.3	Model question papers	

**CO-PO/PSO Mappings**

CO	POs/PSOs	Class Sessions
CO1	PO1, PO2, PSO1	08
CO2	PO1, PO2, PSO1, PSO2	12
CO3	PO1, PO2, PSO1	12
CO4	PO1, PO2, PSO2	12
CO5	PO1, PO2, PSO2, PSO3	12

**Course – PO/PSO Mapping Strength (0,1,2,3) 100%-3 below 40-99-2%, below 40%-1**

Percentage of Sessions devoted to each PO/PSO	Mapping Strength
56 out of 56 (100%) devoted to PO1	3
56 out of 56 (100%) devoted to PO2	3
32 out of 56 (57%) devoted to PSO1	2
36 out of 56 (64%) devoted to PSO2	2
12 out of 56 (21%) devoted to PSO3	1

**Course-POs/PSO Mapping**

Course	POs												PSOs				
	1	2	3	4	5	6	7	8	9	10	11	12	1	2	3	4	5
ATC	3	3											2	2	1		

**CO Attainment and POs/PSOs**

CO	POs	CO Attainment (%ge)
CO1	PO1, PO2, PSO1	64.9
CO2	PO1, PO2, PSO1, PSO2	64.6
CO3	PO1, PO2, PSO1	64.3
CO4	PO1, PO2, PSO2	64
CO5	PO1, PO2, PSO2, PSO3	63.7

### PO and PSO Attainment

Attainment of PO/PSO = (Average of attainments of relevant COs) x Scale Factor  
 Scale Factor = (Actual Mapping Strength / Maximum Possible Mapping Strength)  
 = Actual Mapping Strength / 3

PO/PSO	Attainment (%)
PO1	$3/3(64.9+64.6+64.3+64+63.7)/5= 64.3$
PO2	$3/3(64.9+64.6+64.3+64+63.7)/5= 64.3$
PSO1	$2/3(64.9+64.6+64.3)/3= 43.06$
PSO2	$2/3(64.6+64+63.7)/3= 42.7$
PSO3	$1/3(63.7)/1= 21.23$

### Attainment of POs and PSOs

Course	POs												PSOs				
	1	2	3	4	5	6	7	8	9	10	11	12	1	2	3	4	5
ATC	3	3											2	2	1		
Attainment	0.64	0.64											0.43	0.42	0.21		



E025	<b>Air Transportation Safety and Security</b>
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CO-1	Understand the importance of air transport and safety measures taken by the airport authority
CO-2	To get a glimpse about terror attack causes effects and the regulations made
CO-3	To gain knowledge about hijacking and measure to counteract it.
CO-4	To acquire skills in the legislations made the safety and security by air
CO-5	To take in the innovations made to protect the safety and security of passengers, staff and nation

CO	Course Outcome	Knowledge category ( <i>Factual/ Conceptual/ Procedural/ Metacognitive</i> )	Cognitive Level	No. of hours	POs/PSOs
CO1	Understand the importance of air transport and safety measures taken by the airport authority	Factual, conceptual, procedural	Analyse and understand	08	PO1, PO2, PO3, PSO1
CO2	To get a glimpse about terror attack causes effects and the regulations made	Factual, conceptual, procedural	Analyse and understand	12	PO1, PSO1
CO3	To gain knowledge about hijacking and measure to counteract it.	Factual, conceptual, procedural	Analyse and understand	12	PO1, PSO1
CO4	To acquire skills in the legislations made the safety and security by air	Factual, conceptual, procedural	Analyse and understand	12	PO1, PSO1, PSO2, PSO3
CO5	To take in the innovations made to protect the safety and	Factual, conceptual, procedural, metacognitive	Analyse and understand	12	PO1, PO2, PO3, PSO1, PSO3

security of passengers, staff and nation					
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### CO Attainment

#### Direct Attainment of COs

#### Assessment Plan for CIE

CO	A1 (5)	A2 (5)	T1 (10)	T2 (10)
CO1	1	1	3	0
CO2	1	1	3	0
CO3	1	1	4	3
CO4	1	1	0	3
CO5	1	1	0	4

#### Attainment of COs from CIE

#### Class average in CIE (As Calculated)

CO	A1 Cl. Ave (10)	A2 Cl. Ave (10)	T1 Cl. Ave (10)	T2 Cl. Ave (10)	CIE Class Average (%) (assumption)
CO1	1	1	3	0	84
CO2	1	1	3	0	83
CO3	1	1	4	3	82
CO4	1	1	0	3	81
CO5	1	1	0	4	80

#### Attainment of COs from SEE

CO	Class Average in SEE
CO1	61
CO2	61
CO3	61
CO4	61

CO5	61
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**Computation of CO Direct Attainment in the course:**

CO	CIE Cl. Ave	SEE Cl. Ave	Direct CO Attainment 0.3 *CIE Cl. Ave +0.7 * SEE Cl. Ave
CO1	84	61	67.9
CO2	83	61	67.6
CO3	82	61	67.3
CO4	81	61	67
CO5	80	61	66.7

**Targets:** Targets are set for each CO of a course separately as

CO	Target (Class Average)
CO1	70
CO2	69
CO3	68
CO4	66
CO5	65

**CO Attainment Gap**

CO	CO Attainment	Target (Class Average)	CO attainment Gap CA-COA
CO1	67.9	70	2.1
CO2	67.6	69	1.4
CO3	67.3	68	0.7
CO4	67	66	-1
CO5	66.7	65	-1.7

**Closure of the Quality Loop for COs:**

	Target	CO Attainment gap (%)	Action proposed to bridge the gap	Modification of target where achieved
CO1	70	2.1	Model question papers	
CO2	69	1.4	Model question papers	
CO3	68	0.7	Assignments	
CO4	66	-1		68
CO5	65	-1.7		67

**CO-PO/PSO Mappings**

CO	POs/PSOs	Class Sessions
CO1	PO1, PO2, PO3, PSO1	08
CO2	PO1, PSO1	12
CO3	PO1, PSO1	12
CO4	PO1, PSO1, PSO2, PSO3	12
CO5	PO1, PO2, PO3, PSO1, PSO3	12

**Course – PO/PSO Mapping Strength (0,1,2,3) 100%-3 below 40-99-2%, below 40%-1**

Percentage of Sessions devoted to each PO/PSO	Mapping Strength
56 out of 56 (100%) devoted to PO1	3
20 out of 56 (36%) devoted to PO2	1
20 out of 56 (36%) devoted to PO3	1
56 out of 56 (100%) devoted to PSO1	3
12 out of 56 (21%) devoted to PSO2	1
12 out of 56 (21%) devoted to PSO3	1

**Course-POs/PSO Mapping**

Course	POs	PSOs
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	1	2	3	4	5	6	7	8	9	10	11	12	1	2	3	4	5
ATSS	3	1	1										3	1	1		

### CO Attainment and POs/PSOs

CO	POs	CO Attainment (%ge)
CO1	PO1, PO2, PO3, PSO1	67.9
CO2	PO1, PSO1	67.6
CO3	PO1, PSO1	67.3
CO4	PO1, PSO1, PSO2, PSO3	67
CO5	PO1, PO2, PO3, PSO1, PSO3	66.7

### PO and PSO Attainment

Attainment of PO/PSO = (Average of attainments of relevant COs) x Scale Factor  
 Scale Factor = (Actual Mapping Strength / Maximum Possible Mapping Strength)  
 = Actual Mapping Strength / 3

PO/PSO	Attainment (%)
PO1	$3/3(67.9+67.6+67.3+67+66.7)/5= 67.3$
PO2	$1/3(67.9+66.7)/2= 22.4$
PO3	$1/3(67.9+ 66.7)/2= 22.4$
PSO1	$3/3(67.9+67.6+67.3+67+66.7)/5= 67.3$
PSO2	$1/3(67)/1= 22.3$
PSO3	$1/3(66.7)/1= 22.2$

### Attainment of POs and PSOs

Course	POs	PSOs
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	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16
ATSS	3	1	1										3	1	1	
Attainment	0.67	0.22	0.22										0.67	0.22	0.22	

### VI semester

F021	<b>Airport Strategic Planning</b>
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CO-1	Define an Airfield, its classification and Components
CO-2	Describe the relationship between airport strategic planning and optimal capacity, management
CO-3	Explain the factors affecting Capacity, and Delay
CO-4	Understand International standards in Airport

	System Planning and Airport Planning and Design
CO-5	Understand the purpose of Air Traffic Control and various aids at Airport.

CO	Course Outcome	Knowledge category ( <i>Factual/ Conceptual/ Procedural/ Metacognitive</i> )	Cognitive Level	No. of hours	POs/PSOs
CO1	Define an Airfield, its classification and components	<i>Factual &amp; Conceptual</i>	Analyse and understand	12	PO1, PO3, PSO1, PSO2, PSO4
CO2	Describe the relationship between airport strategic planning and optimal capacity, management	<i>Factual &amp; Conceptual</i>	Analyse and understand	12	PO1, PO3, PSO1, PSO2
CO3	Explain the factors affecting Capacity, and delay	<i>Factual &amp; Conceptual</i>	Analyse and understand	12	PO1, PO3, PSO1, PSO3
CO4	Understand International standards in Airport System Planning and Airport Planning and Design	<i>Factual, Conceptual Metacognitive</i>	Analyse and understand	08	PO1, PSO1, PSO2, PSO3

CO5	Understand the purpose of Air Traffic Control and various aids at Airport.	<i>Factual, Conceptual &amp; Metacognitive</i>	Analyse and understand	12	PO1,PSO1,PSO2,PSO3,
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### CO Attainment

#### Direct Attainment of COs

#### Assessment Plan for CIE

CO	A1 (5)	A2 (5)	T1 (10)	T2 (10)
CO1	1	0	4	0
CO2	2	0	3	0
CO3	2	0	3	0
CO4	0	3	0	6
CO5	0	2	0	4

#### Attainment of COs from CIE

#### Class average in CIE (As Calculated)

CO	A1 Cl. Ave (5)	A2 Cl. Ave (5)	T1 Cl. Ave (10)	T2 Cl. Ave (10)	CIE Class Average (%) (assumption)
CO1	0.77	0	3.08	0	77
CO2	1.52	0	2.28	0	76
CO3	1.5	0	2.25	0	75
CO4	0	2.22	0	4.44	74
CO5	0	1.46	0	2.92	73

#### Attainment of COs from SEE

CO	Class Average in SEE
CO1	62
CO2	62
CO3	62



CO4	62
CO5	62

**Computation of CO Direct Attainment in the course:**

CO	CIE Cl. Ave	SEE Cl. Ave	Direct CO Attainment $0.3 * \text{CIE Cl. Ave}$ $+0.7 * \text{SEE Cl. Ave}$
CO1	77	62	66.5
CO2	76	62	66.2
CO3	75	62	65.9
CO4	73	62	65.3
CO5	72	62	65

**Targets:** Targets are set for each CO of a course separately as

CO	Target (Class Average)
CO1	68
CO2	67
CO3	64
CO4	64
CO5	63

**CO Attainment Gap**

CO	CO Attainment	Target (Class Average)	CO attainment Gap <b>CA-COA</b>
CO1	66.5	68	1.5
CO2	66.2	67	0.8
CO3	65.9	64	-1.9
CO4	65.3	64	-1.3
CO5	65	63	-2

**Closure of the Quality Loop for COs:**

	Target	CO Attainment gap (%)	Action proposed to bridge the gap	Modification of target where achieved
CO1	68	1.5	Previous year question papers	0
CO2	67	0.8		0
CO3	64	-1.9		66
CO4	64	-1.3		65
CO5	63	-2		65

### CO-PO/PSO Mappings

CO	POs/PSOs	Class Sessions
CO1	PO1, PO3, PSO1, PSO2, PSO4	12
CO2	PO1, PO3, PSO1, PSO2	12
CO3	PO1, PO3, PSO1, PSO3	12
CO4	PO1, PSO1, PSO2, PSO3	12
CO5	PO1, PSO1, PSO2, PSO3,	12

### Course – PO/PSO Mapping Strength (0,1,2,3) 100%-3 below 40-99-2%, below 40%-1

Percentage of Sessions devoted to each PO/PSO	Mapping Strength
60 out of 60 (100%) devoted to PO1	3
36 of 60 (60%) devoted to PO3	2
60 out of 60 (100%) devoted to PSO1	3
48 out of 60(80%) devoted to PSO2	2
36 out of 60(60%) devoted to PSO3	2
12 out of 60(20%) devoted to PSO4	1

### Course-POs/PSO Mapping

Course	POs												PSOs				
	1	2	3	4	5	6	7	8	9	10	11	12	1	2	3	4	5
ASP	3	-	2	-	-	-	-	-	-				3	2	2	1	

### CO Attainment and POs/PSOs

CO	POs	CO Attainment (%)
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CO1	PO1, PO3, PSO1, PSO2, PSO4	66.5
CO2	PO1, PO3, PSO1, PSO2	66.2
CO3	PO1, PO3, PSO1, PSO3	65.9
CO4	PO1, PSO1, PSO2, PSO3	65.3
CO5	PO1, PSO1, PSO2, PSO3,	65

### PO and PSO Attainment

Attainment of PO/PSO = (Average of attainments of relevant COs) x Scale Factor  
 Scale Factor = (Actual Mapping Strength / Maximum Possible Mapping Strength)  
 = Actual Mapping Strength / 3

PO/PSO	Attainment (%)
PO1	$3/3(66.5+66.2+65.9+65.3+65)/5= 65.78$
PO3	$2/3(66.5+66.2+65.9)/3= 44.13$
PSO1	$3/3(66.5+66.2+65.9+65.3+65)/5= 65.78$
PSO2	$2/3(66.5+66.2+65.3+65)/4= 49.5$
PSO3	$2/3(65.9+65.3+65)/3= 32.99$
PSO4	$1/3(66.5)/1= 22.16$

### Attainment of POs and PSOs

Course	POs											PSOs					
	1	2	3	4	5	6	7	8	9	10	11	12	1	2	3	4	5
ASP	3	-	2	-	-	-	-	-	-	-	-	-	3	2	2	1	
Attainment	0.6		0.4										0.6	0.4	0.3	0.2	
	5		4										5	9	2	2	

F022	<b>Airline and Airport Marketing Management</b>
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CO-1	Understand the evolution of technology and its impact in customer engagement and Marketing Technologies
CO-2	Developing the marketing process and strategies in alignment with organizational objectives
CO-3	Understand the current airline business environment and its impact on airline marketing
CO-4	Analyse the impact of technology on distribution and communication channels: best practices including social media
CO-5	Understand market environment scanning and market research Methodologies

CO	Course Outcome	Knowledge category ( <i>Factual/ Conceptual/ Procedural/ Metacognitive</i> )	Cognitive Level	No. of hours	POs/PSOs
CO1	Understand the evolution of technology and its impact in customer engagement and Marketing Technologies	Conceptual	Analyze and Understand	8	PO1,PO4 PSO1
CO2	Developing the marketing process and strategies in alignment with organizational objectives	Conceptual Factual	Analyze and Understand	12	PO1,PO4 PSO1, PSO2

CO3	Understand the current airline business environment and its impact on airline marketing	Conceptual Factual Procedural	Analyze and Understand	12	PO1,PO2, PSO3, PSO4
CO4	Analyse the impact of technology on distribution and communication channels:best practices including social media	Conceptual Factual	Analyze and Understand	12	PO1,PO2, PO3,PSO1, PSO3
CO5	Understand market environment scanning and market research Methodologies	Factual conceptual	Analyze and Understand	12	PO1,PO2, PO3,PSO1 PSO3

**Direct Attainment of COs**

**Assessment Plan for CIE**

CO	A1 (5)	A2 (5)	T1 (10)	T2 (10)
CO1	2	0	2	0
CO2	3	0	3	0
CO3	0	1	5	3
CO4	0	2	0	3
CO5	0	2	0	4

**Attainment of COs from CIE**  
**Class average in CIE (As Calculated)**

CO	A1 Cl. Ave (5)	A2 Cl. Ave (5)	T1 Cl. Ave (10)	T2 Cl. Ave (10)	CIE Class Average (%) (assumption)
CO1	1.9	0	1.9	0	93
CO2	2.9	0	2.9	0	95
CO3	0	0.9	4.5	2.7	90
CO4	0	1.8	0	2.7	89
CO5	0	1.8	0	3.6	90

#### Attainment of COs from SEE

CO	Class Average in SEE
CO1	81.3
CO2	81.3
CO3	81.3
CO4	81.3
CO5	81.3

#### Computation of CO Direct Attainment in the course:

CO	CIE Cl. Ave	SEE Cl. Ave	Direct CO Attainment $0.3 * \text{CIE Cl. Ave}$ $+0.7 * \text{SEE Cl. Ave}$
CO1	93	81.3	84.9
CO2	95	81.3	85.5
CO3	90	81.3	84.0
CO4	89	81.3	83.7
CO5	90	81.3	84.0

**Targets:** Targets are set for each CO of a course separately as

CO	Target (Class Average)
CO1	87

CO2	88
CO3	85
CO4	82.5
CO5	84

### CO Attainment Gap

CO	CO Attainment	Target (Class Average)	CO attainment Gap CA-COA
CO1	84.9	87	2.1
CO2	85.5	88	2.5
CO3	84.0	85	1
CO4	83.7	82.5	-1.2
CO5	84.0	84	0

### Closure of the Quality Loop for COs:

	Target	CO Attainment gap (%)	Action proposed to bridge the gap	Modification of target where achieved
CO1	87	2.1	More Assignment, Previous year Question	
CO2	88	2.5	More Assignment, Previous year Question	
CO3	85	1	Previous year QP	
CO4	82.5	-1.2		84
CO5	84	0	Previous year Questions	

### CO-PO/PSO Mappings

CO	POs/PSOs	Class Sessions
CO1	PO1,PO4 PSO1	8

CO2	PO1,PO4 PSO1, PSO2	12
CO3	PO1,PO2, PSO3, PSO4	12
CO4	PO1,PO2, PO3,PSO1, PSO3	12
CO5	PO1,PO2, PO3,PSO1 PSO3	12
	Total Hours	56

**Course – PO/PSO Mapping Strength (0,1,2,3)100%-3 below 40-99-2%, below 40%-1**

Percentage of Sessions devoted to each PO/PSO	Mapping Strength
56 out of 56 (100%) devoted to PO1	3
24 out of 56 (43 %) devoted to PO2	2
24 out of 56 (43 %) devoted to PO3	2
20 out of 56 (36 %) devoted to PO4	1
44 out of 42 (79 %) devoted to PSO1	3
20 out of 42 (21 %) devoted to PSO2	1
36 out of 56(64%)devoted to PSO3	2
12 out of 56(21 %)devoted to PSO4	1

**Course-POs/PSO Mapping**

Course	POs												PSOs				
	1	2	3	4	5	6	7	8	9	10	11	12	1	2	3	4	5
AAMM	3	2	2	1	-	-	-	-	-	-	-	-	3	1	2	1	-

**CO Attainment and POs/PSOs**

CO	POs	CO Attainment (%ge)
CO1	PO1,PO4 PSO1	84.9
CO2	PO1,PO4 PSO1, PSO2	85.5
CO3	PO1,PO2, PSO3, PSO4	84.0
CO4	PO1,PO2, PO3,PSO1, PSO3	83.7



CO5	PO1,PO2, PO3,PSO1 PSO3	84.0
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**PO and PSO Attainment**

Attainment of PO/PSO = (Average of attainments of relevant COs) x Scale Factor  
 Scale Factor = (Actual Mapping Strength / Maximum Possible Mapping Strength)  
 = Actual Mapping Strength / 3

PO/PSO	Attainment (%)
PO1	84.4
PO2	56
PO3	56
PO4	28
PSO1	84.4
PSO2	28.5
PSO3	56
PSO4	28

**Attainment of POs and PSOs**

Course	POs												PSOs				
	1	2	3	4	5	6	7	8	9	10	11	12	1	2	3	4	5
TOC	3	2	2	1	-	-	-	-	-	-	-	-	3	1	2	1	-
Attainment	.84	.56	.56	.28									.84	.28	.56	.28	-

F023	<b>Services Marketing</b>
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CO-1	Demonstrate and explain how the characteristics of service products differ from tangible goods, and how this impact on design
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	and execution of marketing strategies for services
CO-2	Explain the overlap of marketing with operations management and human resource systems in the successful design and management of service organizations.
CO-3	Distinguish different service types and draw, implications for marketing strategy Development
CO-4	Describe the problems faced by services marketing professionals as well as tools and models' managers might employ to increase customers' perceptions of satisfaction, service quality and value.
CO-5	Apply the 7 Ps of the services marketing mix to develop a positioning strategy for and service organization

CO	Course Outcome	Knowledge category ( <i>Factual/ Conceptual/ Procedural/ Metacognitive</i> )	Cognitive Level	No. of hours	POs/PSOs
CO1	Demonstrate and explain how the characteristics of service products differ from tangible goods, and how this impact on design	Factual Conceptual	Understand and remember	12	PO1,PO3,PSO3,PSO4

	and execution of marketing strategies for services				
CO2	Explain the overlap of marketing with operations management and human resource systems in the successful design and management of service organizations.	Factual Conceptual	Understand, analyze and apply	12	PO1,PO4,PSO2, PSO3, PSO4,
CO3	Distinguish different service types and draw, implications for marketing strategy Development	Factual Conceptual	Understand, apply and analyze	12	PO1,PO3,PO4,PSO1PSO3, PSO4
CO4	Describe the problems faced by services marketing professionals as well as tools and models managers might employ to increase customers' perceptions of	Factual Conceptual	Understand, analyze and apply	12	PO1,PO3,PSO3,PSO4

	satisfaction, service quality and value.				
CO5	Apply the 7 Ps of the services marketing mix to develop a positioning strategy for and service organization	Factual Metacognitive	Understand, apply and analyze	12	PO1,PO3,PSO3,PSO4

**CO Attainment**

**Direct Attainment of COs  
 Assessment Plan for CIE**

CO	A1 (5)	A2 (5)	T1 (10)	T2 (10)
CO1	1	1	4	0
CO2	2	2	4	0
CO3	2	2	2	4
CO4	0	0	0	2
CO5	0	0	0	4

**Attainment of COs from CIE  
 Class average in CIE (As Calculated)**

CO	A1 Cl. Ave (5)	A2 Cl. Ave (5)	T1 Cl. Ave (10)	T2 Cl. Ave (10)	CIE Class Average (%)
CO1	1.32	1.32	2.34	0	66
CO2	1.3	1.3	3	0	64
CO3	1.3	1.3	1.3	2.48	63
CO4	1.3	1.3	0	1.26	63

CO5	1.24	1.24	0	2.48	62
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### Attainment of COs from SEE

CO	Class Average in SEE
CO1	66
CO2	66
CO3	66
CO4	66
CO5	66

### Computation of CO Direct Attainment in the course:

CO	CIE Cl. Ave	SEE Cl. Ave	Direct CO Attainment $0.3 * \text{CIE Cl. Ave}$ $+0.7 * \text{SEE Cl. Ave}$
CO1	66	66	66
CO2	64	66	65.4
CO3	63	66	65.1
CO4	63	66	65.1
CO5	62	66	64.8

**Targets:** Targets are set for each CO of a course separately as

CO	Target (Class Average)
CO1	66
CO2	67
CO3	65
CO4	64
CO5	62

### CO Attainment Gap

CO	CO Attainment	Target (Class Average)	CO attainment Gap CA-COA
CO1	66	66	0
CO2	65.4	67	1.6
CO3	65.1	65	-0.1
CO4	65.1	64	-1.1
CO5	64.8	62	-2.8

### Closure of the Quality Loop for COs:

	Target	CO Attainment gap (%)	Action proposed to bridge the gap	Modification of target where achieved
CO1	66	0		0
CO2	67	1.6	Model Question papers to be solved	69
CO3	65	-0.1		66
CO4	64	-1.1		65
CO5	62	-2.8		65

### CO-PO/PSO Mappings

CO	POs/PSOs	Class Sessions
CO1	PO1,PO3,PSO3,PSO4	12
CO2	PO1,PO4,PSO3,PSO4	12
CO3	PO1,PO3,PO4,PSO3,PSO4	12
CO4	PO1,PO3,PSO3,PSO4	12
CO5	PO1,PO3,PSO3,PSO4	12

**Course – PO/PSO Mapping Strength (0,1,2,3) 100%-3 below 40-99-2%, below 40%-1**

Percentage of Sessions devoted to each PO/PSO	Mapping Strength
56 out of 56 (100%) devoted to PO1	3
48 out of 56 (85%) devoted to PO3	2
24 out of 56 (43%) devoted to PO4	2
56 out of 56 (100%) devoted to PSO3	3
56 out of 56 (100%) devoted to PSO4	3

**Course-POs/PSO Mapping**

Course	POs												PSOs				
	1	2	3	4	5	6	7	8	9	10	11	12	1	2	3	4	5
TOC	3		2	2											3	3	

**CO Attainment and POs/PSOs**

CO	POs	CO Attainment (%)
CO1	PO1,PO3,PSO3,PSO4	66
CO2	PO1,PO4,PSO3,PSO4	65.2
CO3	PO1,PO3,PO4,PSO3,PSO4	64.8
CO4	PO1,PO3,PSO3,PSO4	64.8
CO5	PO1,PO3,PSO3,PSO4	64.4

**PO and PSO Attainment**

Attainment of PO/PSO = (Average of attainments of relevant COs) x Scale Factor  
 Scale Factor = (Actual Mapping Strength / Maximum Possible Mapping Strength)  
 = Actual Mapping Strength / 3

PO/PSO	Attainment (%)
PO1	65
PO3	43
PO4	43

PSO3	65
PSO4	65

### Attainment of POs and PSOs

Course	POs												PSOs				
	1	2	3	4	5	6	7	8	9	10	11	12	1	2	3	4	5
TOC	3		2	2											3	3	
Attainment	.65		.43	.43											.65	.65	

F024	<b>Aircraft Maintenance Management</b>
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CO-1	Understand the importance of aircraft maintenance
CO-2	Explain the different types of documentation for maintenance
CO-3	Explain the line, Hanger and overhaul maintenance
CO-4	Understand the importance of production planning and control
CO-5	Explain the Quality assurance and Quality control standards and their importance in M&E

CO	Course Outcome	Knowledge category ( <i>Factual/ Conceptual/ Procedural/ Metacognitive</i> )	Cognitive Level	No. of hours	POs/PSOs



CO1	Understand the importance of aircraft maintenance	<i>Factual &amp; Procedural</i>	Analyze and Understand	08	PO1,PO2,PSO1
CO2	Explain the different types of documentation for maintenance	<i>Factual &amp; Procedural</i>	Analyze and Understand	12	P01,PO2,PSO1,PSO2
CO3	Explain the line, Hanger and overhaul maintenance	<i>Factual &amp; Procedural</i>	Analyze and Understand	12	PO1,PO2,PSO1,PSO3
CO4	Understand the importance of production planning and control	<i>Factual &amp; Procedural</i>	Analyze and Understand	12	PO1,PO2,PSO1,PSO4
CO5	Explain the Quality assurance and Quality control standards and their importance in M&E	<i>Factual &amp; Procedural</i>	Analyze and Understand	12	P01,PO2,PSO1,PSO2

### CO Attainment

#### Direct Attainment of COs

#### Assessment Plan for CIE

CO	A1 (5)	A2 (5)	T1 (10)	T2 (10)
CO1	1	1	4	0
CO2	1	1	4	0
CO3	1	1	2	2
CO4	1	1	0	4
CO5	1	1	0	4

**Attainment of COs from CIE**  
**Class average in CIE (As Calculated)**

CO	A1 Cl. Ave (5)	A2 Cl. Ave (5)	T1 Cl. Ave (10)	T2 Cl. Ave (10)	CIE Class Average (%) (assumption)
CO1	0.77	0.77	3.08	0	77
CO2	0.78	0.78	3.12	0	78
CO3	0.75	0.75	1.5	1.5	75
CO4	0.74	0.74	0	2.96	74
CO5	0.74	0.74	0	2.96	76

**Attainment of COs from SEE**

CO	Class Average in SEE
CO1	77
CO2	77
CO3	77
CO4	77
CO5	77

**Computation of CO Direct Attainment in the course:**

CO	CIE Cl. Ave	SEE Cl. Ave	Direct CO Attainment $0.3 * \text{CIE Cl. Ave}$ $+0.7 * \text{SEE Cl. Ave}$
CO1	77	77	77
CO2	78	77	77.3
CO3	75	77	76.4
CO4	74	77	76.1

CO5	76	77	76.1
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**Targets:** Targets are set for each CO of a course separately as

CO	Target (Class Average)
CO1	78
CO2	77
CO3	76
CO4	75
CO5	79
CO6	80

#### CO Attainment Gap

CO	CO Attainment	Target (Class Average)	CO attainment Gap CA-COA
CO1	77	78	1
CO2	77.3	77	-0.3
CO3	76.4	76	-0.4
CO4	76.1	75	-1.1
CO5	76.1	79	2.9

#### Closure of the Quality Loop for COs:

	Target	CO Attainment gap (%)	Action proposed to bridge the gap	Modification of target where achieved
CO1	78	1		
CO2	77	-0.3		78
CO3	76	-0.4	Question paper solving	
CO4	75	-1.1		76
CO5	79	2.9	Assignments to be given	

#### CO-PO/PSO Mappings

CO	POs/PSOs	Class Sessions
CO1	PO1,PO2,PSO1	08
CO2	P01,PO2,PSO1,PSO2	12
CO3	PO1,PO2,PSO1,PSO3	12
CO4	PO1,PO2,PSO1,PSO4	12
CO5	P01,PO2,PSO1,PSO2	12

**Course – PO/PSO Mapping Strength (0,1,2,3) 100%-3 below 40-99-2%, below 40%-1**

Percentage of Sessions devoted to each PO/PSO	Mapping Strength
56 out of 56 (100%) devoted to PO1	3
56 out of 56 (100%) devoted to PO2	3
56 out of 56 (100%) devoted to PSO1	3
24 out of 56 (43%) devoted to PSO2	2
12 out of 56 (22%) devoted to PSO3	1

**Course-POs/PSO Mapping**

Course	POs											PSOs					
	1	2	3	4	5	6	7	8	9	1	1	1	1	2	3	4	5
TOC	3	3											3	2	1		

**CO Attainment and POs/PSOs**

CO	POs	CO Attainment (%)
CO1	PO1,PO2,PSO1	77
CO2	P01,PO2,PSO1,PSO2	77.3
CO3	PO1,PO2,PSO1,PSO3	76.4
CO4	PO1,PO2,PSO1,PSO4	76.1

CO5	P01,PO2,PSO1,PSO2	76.1
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### PO and PSO Attainment

Attainment of PO/PSO = (Average of attainments of relevant COs) x Scale Factor  
 Scale Factor = (Actual Mapping Strength / Maximum Possible Mapping Strength)  
 = Actual Mapping Strength / 3

PO/PSO	Attainment (%)
PO1	77
PO2	77
PSO1	77
PSO2	52
PSO3	26

### Attainment of POs and PSOs

Course	POs												PSOs				
	1	2	3	4	5	6	7	8	9	10	11	12	1	2	3	4	5
TOC	3	3											3	2	1		
Attainment	.77	.77											.77	.52	.26		

F025	<b>Customer Relationship Management</b>
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CO-1	The ideas behind customer equity and its components- brand equity, value equity and relationship equity
CO-2	Economics of CRM: Customer lifetime value. customer life cycle analysis
CO-3	The cost of customers and costs of serving customers in different channels
CO-4	Dealing with unprofitable customers and recovering from crisis

CO-5	Identification and selection of customers (for both consumer and business markets)
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CO	Course Outcome	Knowledge category ( <i>Factual/ Conceptual/ Procedural/ Metacognitive</i> )	Cognitive Level	No. of hours	POs/PSOs
CO1	The ideas behind customer equity and its components- brand equity, value equity and relationship equity	Factual, conceptual	Understand and analyze	8	PO4, PSO2
CO2	Economics of CRM: Customer lifetime value. customer life cycle analysis	Factual, conceptual	Understand and analyze	12	PO4, PSO2
CO3	The cost of customers and costs of serving customers in different channels	Factual, conceptual	Understand and analyze	12	PO4, PSO1, PSO4
CO4	Dealing with unprofitable customers and recovering from crisis	Factual, conceptual	Understand and analyze	12	PO4, PSO2, PSO3
CO5	Identification and selection of customers (for both consumer and business markets)	Factual, conceptual, metacognitive	Understand, analyze and remember	12	PO4, PSO1

### CO Attainment

#### Direct Attainment of COs

#### Assessment Plan for CIE

CO	A1 (5)	A2 (5)	T1 (10)	T2 (10)
CO1	2	0	6	0
CO2	2	0	2	0
CO3	1	0	2	0
CO4	0	3	0	6
CO5	0	2	0	4

**Attainment of COs from CIE**  
**Class average in CIE (As Calculated)**

CO	A1 Cl. Ave (5)	A2 Cl. Ave (5)	T1 Cl. Ave (10)	T2 Cl. Ave (10)	CIE Class Average (%) (assumption)
CO1	1.84	0	5.52	0	92
CO2	1.82	0	1.82	0	91
CO3	0.9	0	1.8	0	90
CO4	0	2.67	0	5.34	89
CO5	0	1.76	0	3.52	88

**Attainment of COs from SEE**

CO	Class Average in SEE
CO1	58
CO2	58
CO3	58
CO4	58
CO5	58

**Computation of CO Direct Attainment in the course:**

CO	CIE Cl. Ave	SEE Cl. Ave	Direct CO Attainment $0.3 * \text{CIE Cl. Ave}$ $+0.7 * \text{SEE Cl. Ave}$
CO1	92	58	68.2
CO2	91	58	67.9
CO3	90	58	67.6
CO4	89	58	67.3
CO5	88	58	67

**Targets:** Targets are set for each CO of a course separately as

CO	Target (Class Average)
CO1	69
CO2	69
CO3	68
CO4	66
CO5	65

#### CO Attainment Gap

CO	CO Attainment	Target (Class Average)	CO attainment Gap <b>CA-COA</b>
CO1	68.2	69	0.8
CO2	67.9	69	1.1
CO3	67.6	68	0.4
CO4	67.3	66	-1.3
CO5	67	65	-2



**Closure of the Quality Loop for COs:**

	Target	CO Attainment gap (%)	Action proposed to bridge the gap	Modification of target where achieved
CO1	69	0.8	Previous year question paper	
CO2	69	1.1	Previous year question paper	
CO3	68	0.4		
CO4	66	-1.3		68
CO5	65	-2		67

**CO-PO/PSO Mappings**

CO	POs/PSOs	Class Sessions
CO1	PO4, PSO2	8
CO2	PO4, PSO2	12
CO3	PO4, PSO1, PSO4	12
CO4	PO4, PSO2, PSO3	12
CO5	PO4, PSO1	12

**Course – PO/PSO Mapping Strength (0,1,2,3) 100%-3 below 40-99-2%, below 40%-1**

Percentage of Sessions devoted to each PO/PSO	Mapping Strength
56 out of 56(100%) devoted to PO4	3
24 out of 56(43%) devoted to PSO1	2
32 out of 56(57%) devoted to PSO2	2
12 out of 56 (21%) devoted to PSO3	1
12 out of 56 (21%) devoted to PSO4	1

**Course-POs/PSO Mapping**

Course	POs												PSOs				
	1	2	3	4	5	6	7	8	9	10	11	12	1	2	3	4	5
CRM				3									2	2	1	1	

### CO Attainment and POs/PSOs

CO	POs	CO Attainment (%ge)
CO1	PO4, PSO2	68.2
CO2	PO4, PSO2	67.9
CO3	PO4, PSO1, PSO4	67.6
CO4	PO4, PSO2, PSO3	67.3
CO5	PO4, PSO1	67

### PO and PSO Attainment

Attainment of PO/PSO = (Average of attainments of relevant COs) x Scale Factor  
 Scale Factor = (Actual Mapping Strength / Maximum Possible Mapping Strength)  
 = Actual Mapping Strength / 3

PO/PSO	Attainment (%)
PO4	$3/3(68.2+67.9+67.6+67.3+67)/5= 67.6$
PSO1	$2/3(67.6+67)/2= 44.8$
PSO2	$2/3(68.2+67.9+67.3)/3= 45.19$
PSO3	$1/3(67.3)/1= 22.4$
PSO4	$1/3(67.6)/1= 22.5$

### Attainment of POs and PSOs

Course	POs												PSOs				
	1	2	3	4	5	6	7	8	9	10	11	12	1	2	3	4	5
TOC				3									2	2	1	1	
Attainment				0.67									0.44	0.45	0.22	0.22	

## **2.6.2     *Attainment of PO's and CO's are evaluated***

### ***PO's and CO's ATTAINMENT***

# ***DEPARTMENT OF BBA AVIATION (NEP)***

No.31/1, Kadusonnapanahalli, Hennur-Bagalur Road, Kannur, Bangalore - 562149

✉ [director@kgi.edu.in](mailto:director@kgi.edu.in)    ☎ +91 81472 15707    🌐 [www.kimsbengaluru.edu.in](http://www.kimsbengaluru.edu.in)

## **REGULATIONS PERTAINING TO BBA DEGREE (NEP 2020 SCHEME)**

The National Education Policy 2020 is the first education policy of the 21st century and aims to address the many growing developmental aspirations of our country. This Policy proposes the revision and revamping of all aspects of the education structure, including its regulation and governance, to create a new system that is aligned with the aspirations and goals of 21st century education, including SDG4, while building upon India's traditions and value systems. NEP aims for India to have an education system by 2040 that is second to none, with equitable access to the highest-quality education for all learners regardless of social or economic background and seeks to "ensure inclusive and equitable quality education and promote life long learning opportunities for all" by 2040." The whole of the NEP policy is a medication to cure the short comings in the education system for the last 35 to 36 years. The failure or success of the NEP will rely completely on the implementation and its acceptance by the stakeholders. For which we need to join hands in strengthening the system. The BBA Programme provides a best career opportunist for students to develop managerial and entrepreneurial skills in order to pursue employment opportunities in the corporate sector or venture in to their own business. The course takes a student over the functional areas of management including manufacturing, marketing, finance, HRM, sales, strategy management etc., Plus, soft skill development such as communication, attitude, leadership and other skills.

## **OBJECTIVES OF THE BBA DEGREE**

1. To develop entrepreneurship by equipping the students with all the skills and knowledge required to start a business.
2. To develop ethical managers with inter disciplinary knowledge
3. To enable students apply knowledge of management theories and practices to solve business problems.
4. To promote ethical and value-based leadership abilities among students.
5. To equip students for the world of work, particularly the work of the future.
6. To enable students demonstrate use of appropriate techniques to effectively manage business challenges.
7. To encourage analytical and critical thinking abilities for business decision making.
8. To empower students to take up competitive examinations like UPSC, KPSC, and other
9. examinations.

## **GRADUATE ATTRIBUTES**

The graduate attributes are the outline of the expected course learning outcomes mentioned in the beginning of each course. The characteristic attributes that a graduate will be able to demonstrate through learning various courses which are listed below:

### **Disciplinary knowledge**

- Capability of executing comprehensive knowledge and understanding of one or more disciplines that form part of commerce.

### **Communication skills**

- Ability to communicate long standing, unsolved problems in commerce.
- Ability to show the importance of commerce as precursor to various market developments since the beginning of civilization.

### **Critical thinking**

- Ability to engage in reflective and independent thinking by understanding the concepts in every area of Commerce and Business.
- Ability to examine the results and apply them to various problems appearing in different branches of Commerce and Business.

### **Problem solving**

- Capability to reduce a business problem and apply the classroom learning into practice to offer a solution for the same.
- Capabilities to analyse and synthesize data and derive inferences for valid conclusions. Able to comprehend solutions to sustain problems originating in the diverse management areas such as Finance, Marketing, Human Resource, Taxation and so on

### **Research related skills**

- Ability to search for, locate, extract, organise, evaluate, and use or present information that is relevant to a particular topic.
- Ability to identify the developments in various branches of Commerce and Business. Information and communication technology (ict) digital literacy
- Capability to use various ICT tools (like spreadsheet) for exploring, analysis, and utilizing the information for business purposes.

### **Self-directed learning**

- Capability to work independently in diverse projects and ensure detailed study of various facets of Commerce and Business.

### **Moral and ethical awareness/reasoning**

- Ability to ascertain unethical behaviour, falsification, and manipulation of information. Ability to manage self and various social systems.

**Life-long learning**

- Capability of self-paced and self-directed learning aimed at personal development and for improving knowledge/skill development and reskilling in all areas of Commerce.

**ELIGIBILITY FOR ADMISSION**

- Candidates who have completed two years Pre – University course in any discipline of Karnataka
- Stateorits equivalent as notified by the university from time to time are eligible to seek admission for this course.

**DURATION OF THE PROGRAMME**

The Duration of the Programme is Four (04) years of Eight Semesters. Progressive Certificate, Diploma, Bachelor Degree or Bachelor Degree with Honors provided at the end of each year of Exit of the four years Undergraduate Programme as the case maybe as follows:

<b>EXIT OPTION WITH</b>	<b>CREDITS REQUIREMENT</b>
On successful completion of Two Semesters of BBA at the end of First year, the student will be eligible for the award of CERTIFICATE IN BUSINESS ADMINISTRATION	48
On successful completion of four Semesters of BBA at the end of Second year, the student will be eligible for the award of DIPLOMA IN BUSINESS ADMINISTRATION	96
On successful completion of Six Semesters of BBA at the end of Third year, the student will be eligible for the award of BACHELOR'S DEGREE IN BUSINESSADMINISTRATION	138
On successful completion of Eight Semesters of BBA at the end of fourth year, the student will be eligible for the award of HONOURS DEGREE IN BUSINESSADMINISTRATION	180

**MEDIUM OF INSTRUCTION**

The medium of instruction shall be English only.

**ATTENDANCE**

- For the purpose of calculating attendance, each semester shall be taken as a Unit.
- A student shall be considered to have satisfied the requirement of attendance for the semester, if he/she has attended not less than 75% in aggregate of the number of working periods in each of the courses compulsorily.
- A student who fails to satisfy the above condition shall not be permitted to take the University examination.

**TEACHING AND EVALUATION**

M.Com/MBA/MBS graduates with B.Com, B.B.M, and BBA & BBS as basic degrees from a recognized university are only eligible to teach and to evaluate the Courses (except languages, compulsory additional subjects and core Information Technology related subjects) mentioned in this regulation. Languages and additional courses shall be taught by the graduates as recognized by the respective Board of Studies.

**RECORD MAINTENANCE AND SUBMISSION**

- Every college is required to establish an Innovative business lab / computer lab to enable students to get practical knowledge of business activities and online learning.
- In every semester, the student should keep a record of the Business Lab/Field Study Activity and submit it to the concerned faculty.
- The BOE is authorized to make random surprise visits to the colleges and verify record-books and the internal marks awarded.

**GUIDELINES FOR CONTINUOUS INTERNAL EVALUATION (CIE) AND SEMESTER END EXAMINATION (SEE)**

Sl.No	Parameters for the Evaluation	Marks
	<b>CONTINUOUS INTERNAL EVALUATION (CIE) - (A + B)</b>	
<b>A</b>	Internal Assessment Tests (IAT)	<b>20</b>
<b>B</b>	Continuous & Comprehensive Evaluation (CCE)	<b>20</b>
<b>C</b>	Semester End Examination (SEE)	<b>60</b>
	<b>TOTAL OF CIE AND SEE(A +B +C)</b>	<b>100</b>

**A. CONTINUOUS & COMPREHENSIVE EVALUATION (CCE):**

The CCE will carry a maximum of 20% weightage (20 marks) of total marks of a course. The faculty member can select any four of the following assessment methods, Minimum off our of the following assessment methods of 5 marks each:

1. Individual Assignments
2. Seminars/Classroom Presentations/ Quizzes
3. Group Discussions /Class Discussion/ Group Assignments
4. Case studies/Case lets
5. Participatory & Industry-Integrated Learning/ Field visits
6. Practical activities / Problem Solving Exercises
7. Participation in Seminars/ Academic Events/Symposia etc
8. Mini Projects/Capstone Projects
9. Any other academic activity.

**B. INTERNAL ASSESSMENT TESTS (IAT):**

The IAT will carry a maximum of 20% weightage (20 marks) of total marks of a course, under this component, two tests will have to be conducted in a semester for 20 marks each and the same is to be scaled down to 10 marks each. Standard format is given below:

**DEPARTMENT OF BUSINESS ADMINISTRATION-BBA(GENERAL)****INTERNAL ASSESSMENT TEST-1, (AY -)****NAME OF THE COURSE:****COURSE CODE:****SEMESTER&SECTION:****Duration: 1 Hour****Total Marks: 20****SECTION-A****Answer any two of the following three questions. (2 X 3= 6)**

- 1.
- 2.
- 3.

**SECTION-B****Answer any one of the following two questions (1 X 4 = 4)**

- 4.
- 5.

**SECTION-C****Answer any one of the following questions (1 X 10 = 10)**



6.

7.

**C. 50 PERCENT OF CIE:**

In the case of 50 percent of CIE weightage courses, faculty members can choose assessment methods accordingly for the required marks as mentioned above.

**APPEARANCE FOR THE EXAMINATION**

A candidate shall be considered to have appeared for the examination only if he/she has submitted the prescribed application for the examination along with the required fees to the university.

**PATTERN OF QUESTION PAPER**

A candidate shall be considered to have appeared for the examination only if he/she has submitted the prescribed application for the examination along with the required fees to the university:

SECTION-A 1. a,b,c,d,e,f, g	(Conceptual questions) Answer any FIVE out of seven sub-questions	(05X02=10 Marks)
SECTION -B 2,3,4,5,6	(Application questions) Answer any THREE out of five questions	(03X04=12 Marks)
SECTION -C 7,8,9,10,11	(Analysis and understanding questions) Answer any THREE out of five questions	(03X10=30 Marks)
SECTION -D 12	(Skill Development / Lab activities questions) answer any ONE out of two questions	(01X08=08 Marks)
	<b>TOTAL</b>	<b>60 Marks</b>

**BACHELOR OF BUSINESS ADMINISTRATION BBA-GENERAL****COURSE MATRIX**

### I SEMESTER

SL.NO	COURSE CODE	TITLE OF THE COURSE	CATEGORY OF COURSES	TEACHING HOURS PER WEEK (L+T+P)	SEE	CIE	TOTAL MARKS	CREDIT
1	LANG.1.1	Language-I	AECC	3+1+0	60	40	100	3
2	LANG.1.2	Language-II	AECC	3+1+0	60	40	100	3
3	BBA.1.1	Management Principles & Practice	DSC	4+0+0	60	40	100	4
4	BBA.1.2	Fundamentals of Business Accounting	DSC	3+0+2	60	40	100	4
5	BBA.1.3	Marketing Management	DSC	4+0+0	60	40	100	4
6	BBA.1.4	Digital Fluency	SEC-SB	1+0+2	30	20	50	2
7	BBA.1.5	Physical Education-Yoga	SEC-SB	0+0+2	-	25	25	1
8	BBA.1.6	Health & Wellness	SEC-SB	0+0+2	-	25	25	1
9	BBA.1.7	Business Organisation	OEC	3+0+0	60	40	100	3
<b>SUB-TOTAL I</b>					<b>390</b>	<b>310</b>	<b>700</b>	<b>25</b>

### SEMESTER-II

SL.NO	COURSE CODE	TITLE OF THE COURSE	CATEGORY OF COURSES	TEACHING HOURS PER WEEK (L+T+P)	SEE	CIE	TOTAL MARKS	CREDIT
10	LANG.2.1	Language-I	AECC	3+1+0	60	40	100	3
11	LANG.2.2	Language-II	AECC	3+1+0	60	40	100	3
12	BBA.2.1	Financial Accounting & Reporting	DSC	4+0+0	60	40	100	4
13	BBA.2.2	Human Resource Management	DSC	3+0+2	60	40	100	4
14	BBA.2.3	Business Mathematics /Business Environment	DSC	4+0+0	60	40	100	4
15	BBA.2.4	Environmental studies	AECC	2+0+0	30	20	50	2
16	BBA.2.5	Sports	SEC-SB	0+0+2	-	25	25	1
17	BBA.2.6	NCC/NSS/Cultural	SEC-SB	0+0+2	-	25	25	1
18	BBA.2.7	Retail Management	OEC	3+0+0	60	40	100	3
<b>SUB-TOTAL II</b>					<b>390</b>	<b>310</b>	<b>700</b>	<b>25</b>

**SEMESTER-III**

SL.NO	COURSE CODE	TITLE OF THE COURSE	CATEGORY OF COURSES	TEACHING HOURS PER WEEK(L+T+P)	SEE	CIE	TOTAL MARKS	CREDIT
19	LANG.3.1	Language-I	AECC	3+1+0	60	40	100	3
20	LANG.3.2	Language-II	AECC	3+1+0	60	40	100	3
21	BBA.3.1	Cost Accounting	DSC	3+0+2	60	40	100	4
22	BBA.3.2	Organisational Behaviour	DSC	4+0+0	60	40	100	4
23	BBA.3.3	Statistics for Business Decision	DSC	3+0+2	60	40	100	4
24	BBA.3.4	Financial Education & Investment Awareness	SEC	1+0+2	30	20	50	2
25	BBA.3.5	Sports	SEC-SB	0+0+2	-	25	25	1
26	BBA.3.6	NSS/NCC	SEC-SB	0+0+2	-	25	25	1
27	BBA.3.7	Social Media Marketing	OEC	3+0+0	60	40	100	3
<b>SUB-TOTAL III</b>					<b>390</b>	<b>310</b>	<b>700</b>	<b>25</b>

**SEMESTER-IV**

SL.NO	COURSE CODE	TITLE OF THE COURSE	CATEGORY OF COURSES	TEACHING HOURS PER WEEK(L+T+P)	SEE	CIE	TOTAL MARKS	CREDIT
28	LANG.4.1	Language-I	AECC	3+1+0	60	40	100	3
29	LANG.4.2	Language-II	AECC	3+1+0	60	40	100	3
30	BBA.4.1	Management Accounting	DSC	3+0+2	60	40	100	4
31	BBA.4.2	Financial Market & Services	DSC	4+0+0	60	40	100	4
32	BBA.4.3	Financial Management	DSC	3+0+2	60	40	100	4
33	BBA.4.4	India and Indian Constitution	SEC-SB	0+0+2	30	20	50	3
34	BBA.4.5	Sports	SEC-SB	0+0+2	-	25	25	1
35	BBA.4.6	NCC/NSS	SEC-SB	0+0+2	-	25	25	1
36	BBA.4.7	Business Leadership Skills	OEC	0+0+2	60	40	100	2
<b>SUB-TOTAL I</b>					<b>390</b>	<b>310</b>	<b>700</b>	<b>25</b>

**SEMESTER-V**

SL.NO	COURSE CODE	TITLE OF THE COURSE	CATEGORY OF COURSES	TEACHING HOURS PER WEEK (L+T+P)	SEE	CIE	TOTAL MARKS	CREDIT
37	BBA.5.1	Production and Operation Management	DSC-13	4+0+0	60	40	100	4
38	BBA.5.2	Income Tax-I	DSC-14	3+0+2	60	40	100	4
39	BBA.5.3	Banking Law and Practice	DSC-15	4+0+0	60	40	100	4
40	BBA.5.4	Elective-1	DSE-1	4+0+0	60	40	100	3
41	BBA.5.5	Elective-2	DSE-2	4+0+0	60	40	100	3
42	BBA.5.6	Digital Marketing	Vocational-1	3+0+2	60	40	100	4
43	BBA.5.7	Employability Skills	SEC-SB	1+0+2	30	20	50	2
<b>SUB-TOTAL- V</b>					<b>420</b>	<b>280</b>	<b>700</b>	<b>24</b>

**SEMESTER-VI**

SL.NO	COURSE CODE	TITLE OF THE COURSE	CATEGORY OF COURSES	TEACHING HOURS PER WEEK(L+T+P)	SEE	CIE	TOTAL MARKS	CREDIT
44	BBA.6.1	Business Law	DSC	4+0+0	60	40	100	4
45	BBA.6.2	Income Tax-II	DSC	3+0+2	60	40	100	4
46	BBA.6.3	International Business	DSC	4+0+0	60	40	100	4
47	BBA.6.4	Elective-1	DSE-3	4+0+0	60	40	100	3
48	BBA.6.5	Elective-2	DSE-4	4+0+0	60	40	100	3
49	BBA.6.6	Goods and Service Tax	Vocational-2	3+0+2	60	40	100	4
50	BBA.6.7	Internship	I-1	4 weeks		50	50	2
<b>SUB-TOTAL I</b>					<b>360</b>	<b>290</b>	<b>650</b>	<b>24</b>

## ELECTIVE

Elective Group	V SEMESTER		VI SEMESTER	
	Code	Paper-1	Code	Paper-2
Finance	FN1	Advanced Corporate Financial Management	FN2	Security Analysis and Portfolio Management
Marketing	MK1	Consumer Behaviour	MK2	Advertising and Media Management
Human Resource Management	HRM1	Compensation and Performance Management	HRM2	Cultural Diversity at Workplace
Data Analytics	DA1	Financial Analytics	DA2	Marketing Analytics
Retail Management	RM1	Fundamental of Retail Management	RM2	Retail Operations Management
Logistics and Supply Chain Management	LSCM1	Freight Transport Management	LSCM2	Sourcing for Logistics and Supply Chain Management

## INTERNSHIP

### Objectives:

- To provide practical exposure to students in the field of management.
- To bridge the gap between theoretical knowledge and practical applications.
- To enhance students' understanding of real-world business operations.
- To develop students' professional skills and employability.

### Internship Report Format (Contents)

**Executive Summary:** The executive summary provides a brief overview of the internship report, highlighting the key findings, outcomes, and conclusions of the study on the topic. (one page)

### CHAPTER I: Introduction

This chapter introduces the topic of the report, provides background information on about the topic, and outlines the objectives and scope of the study. (5-8 pages)

### CHAPTER II: Description of the Organization

This chapter provides a detailed description of the organisation, including its history, vision, mission, organizational structure, and the products and services it offers. (8-12 pages)

### **CHAPTER III: Experiential Learning**

This chapter describes the intern's experience while working in the organisation, including the tasks undertaken, skills acquired, challenges faced, and lessons learned. (6-10 pages)

### **CHAPTER IV: Internship Outcomes and Conclusion**

This chapter presents the outcomes of the internship, including the findings related to the topic. It also includes a conclusion summarizing the key points of the report and suggesting recommendations for improvement. (6-10 pages)

**Bibliography:** This section lists all the sources referenced in the report, like Books, Articles, Brochures, Catalogues, and Websites etc

**Annexures:** This section includes any supplementary materials, such as interview transcripts, survey questionnaires, or additional data, which support the findings of the report.

#### **Format of the Report:**

The student has to submit 3 copies (1. Student copy 2. College copy 3. University copy) of the report with minimum 25 pages and Maximum 40 pages each, soft bound Binding (without using any plastic sheets, PVC Sheets and Transparent sheets, using only eco-friendly material). The report should be on A4 size paper printed on both the sides, maintaining font type Times New Roman, font size of 12 for text, 12 bold for sub headings, 14 bold for headings. The document should have 1.5 line spacing, justified and with page numbering.

#### **Marks Allocation:**

The internship Report will be evaluated for 30 marks and the Internship Viva Voce will be conducted for 20 marks.



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**DEPARTMENT OF  
BBA-Aviation Management**

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No.31/1, Kadusonnapanahalli, Hennur-Bagalur Road, Kannur, Bangalore - 562149

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## **VISION**

“To spearhead aviation education, fostering innovation, excellence and sustainability by nurturing a diverse community of aspiring aviation professionals empowered with advanced competencies and universal human values to address the industry dynamic challenges”

## **MISSION**

“To empower young talents for the aviation industry by commitment to excellence in education, innovation and industry partnerships, while upholding the highest standards of ethics, values, morale and attitude, preparing graduates to thrive in a dynamic and evolving aerospace landscape

## **Program Educational Outcome**

**PEO1.** Prepare graduates with a strong foundation in aviation management principles, with practical skills and knowledge to analyse and solve complex problems encountered in various aspects of the aviation industry

**PEO2.** Foster leadership qualities and teamwork abilities to enable graduates to effectively manage diverse teams and projects within aviation organizations.

**PEO4.** Develop graduates who possess a global perspective and understanding of the interconnectedness of the aviation industry with other sectors of the economy.

**PEO5.** Prepare graduates to adapt to the dynamic and evolving nature of the aviation industry by instilling a commitment to lifelong learning and professional development.

## **Program Outcome**



**PO1.** Critical Thinking and creativity- Analysing complex problems and identifying opportunities for novel solutions through interdisciplinary approaches and generating innovative ideas to address societal, scientific, and business challenges.

**PO2.** Team work and Collaboration - To work effectively in teams, demonstrating collaboration, interpersonal skills, and the ability to leverage diverse perspectives to achieve common goals and objectives.

**PO3.** Business Ethics and social Responsibility- To have an awareness of ethical challenges within business environments and exhibit a dedication to upholding ethical standards and promoting social responsibility in their professional conduct.

**PO4:** Self-directed and Lifelong learning- To embody a commitment to lifelong learning and research, continuously seeking new knowledge and methodologies to innovate, solve problems, and contribute to their respective fields

### **Program Specific Outcome**

**PSO1.** Aviation Industry Knowledge and Competence: Graduates will exhibit a comprehensive understanding of the aviation industry, including airline operations, airport management, aviation regulations, safety protocols, ground handling, aircraft maintenance, and passenger services.

**PSO2.** Customer Service Excellence and Regulatory Compliance: Graduates will demonstrate knowledge of aviation regulations and compliance requirements set forth by regulatory bodies and equipped with the skills to provide exceptional customer service experiences within the aviation industry, fostering positive relationships with passengers, clients, and stakeholders.

**PSO3.** Industry Networking: Graduates will have established professional networks within the aviation industry through internships, industry partnerships, and networking opportunities, facilitating career advancement and professional growth.

**PSO4.** Financial & Organisational Management: Graduates will be proficient in aviation-specific financial management practices, including budgeting, cost control,

revenue management, and financial analysis within the context of aviation organizations.

**BENGALURU NORTH UNIVERSITY KOLAR - 563103**

**National Education Policy - 2020 (Semester Scheme) Model Curriculum Structure for  
 BBA-Aviation Management Programme (Basic and Honors degree)**

**Model Syllabus for the Courses in Aviation Management.**

**Model Curriculum for BBAM**

<b>Semester</b>	<b>Course Code</b>	<b>Title of the Paper</b>
I	BBAA1.1	Introduction to aviation and airline industry
	BBA 1.2	Fundamentals of accountancy
	BBA 1.3	Principles of airline and airport operations
II	BBAA 1.1	Passenger and baggage handling
	BBA 1.2	Management behavioural process
	BBA 1.3	Airline Customer Services
III	BBAA 3.1	Cost Accounting
	BBAA 3.2	Logistics and Air Cargo Management
	BBAA 3.3	Statistics for Business Decision
	BBAA 3.4	Artificial Intelligence
IV	BBAA 4.1	Airline Marketing
	BBAA 4.2	Aviation Law and Aircraft rules and regulations
	BBAA 4.3	Financial management
V	BBAA 5.1	Research Methodology
	BBAA 5.2	Air transportation safety and security

	BBAA 5.3	Income Tax
	BBAA 6.1	Airport strategic planning
VI	BBAA 6.2	Aviation enterprise management
	BBAA 6.3	Customer relationship management

## Course Outcome:

### I semester

BBAA1.1	<b>Introduction to Aviation and Airline Industry</b>
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CO-1	Upon completion of this module, students will have a comprehensive understanding of the fundamental concepts, principles, and terminology associated with the aviation and airline industry.
CO-2	Students will have a comprehensive understanding of major airlines in India and globally, types of carriers and organisational structure, cabin and cockpit positions, airline business models and about AAI.
CO-3	Understand the concept of aircrafts and its types, operations and functions, load planning and dangerous goods regulations(DGR). Various types of airports and airline personnels.
CO-4	Understanding the concept of air cargo management, types of cargo, conditions of carriage and passenger aircrafts.

CO	Course Outcome	Knowledge category <i>(Factual/ Conceptual/ Procedural/ Metacognitive)</i>	Cognitive Level	No. of hours	POs/PSOs
CO1	Understanding of the fundamental concepts, principles, and terminology associated with the aviation and airline industry.	Conceptual	Understand and Remember	12	PO1, PO2, PO4, PSO1, PSO2
CO2	Understand major airlines in India and globally, types of carriers and organizational structure, cabin and cockpit positions, airline business models and about AAI.	Conceptual Factual	Understand Apply Evaluate	12	PO1, PO4, PSO1, PSO2
CO3	Understand the concept of aircrafts and its types, operations and functions, load planning and dangerous goods regulations (DGR). Various types of airports and airline personnels.	Conceptual Factual Procedural	Understand Apply	12	PO1, PO3, PO4, PSO1,PS O2
CO4	Understanding the concept of air cargo management, types of cargo, and	Factual	Understand Apply	12	PO1, PO3, PO4, PSO1,



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	conditions of carriage and passenger aircrafts.				PSO3, PSO4
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**CO Attainment**  
**Direct Attainment of COs**

**Assessment Plan for CIE**

CO	A1 (10)	A2 (10)	T1 (10)	T2 (10)
CO1	5	3	6	0
CO2	3	2	4	0
CO3	2	3	0	4
CO4	0	2	0	6

**Attainment of COs from CIE**

**Class average in CIE (As Calculated)**

CO	A1 Cl. Ave (10)	A2 Cl.Ave (10)	T1 Cl. Ave (10)	T2 Cl. Ave (10)	CIE Class Average (%) (assumption)
CO1	4.4	2.64	5.28	0	88
CO2	2.64	1.76	3.52	0	87
CO3	1.76	2.64	0	3.52	86
CO4	0	1.76	0	5.28	85

**Attainment of COs from SEE**

CO	Class Average in SEE
CO1	61
CO2	61
CO3	61
CO4	61

**Computation of CO Direct Attainment in the course:**

CO	CIE Cl. Ave	SEE Cl. Ave	Direct CO Attainment $0.4 * \text{CIE Cl. Ave} + 0.6 * \text{SEE Cl. Ave}$
CO1	88	61	71.8
CO2	87	61	71.4
CO3	86	61	71
CO4	85	61	70.6

**Targets:** Targets are set for each CO of a course separately as

CO	Target (Class Average)
CO1	72
CO2	71

CO3	70
CO4	69

### CO Attainment Gap

CO	CO Attainment	Target (Class Average)	CO attainment Gap <b>CA-COA</b>
CO1	71.8	72	0.2
CO2	71.4	71	-0.4
CO3	71	70	-1
CO4	70.6	69	-1.6

### Closure of the Quality Loop for COs:

	Target	CO Attainment gap (%)	Action proposed to bridge the gap	Modification of target were achieved
CO1	72	0.2	Tutorial Classes and previous years question paper to be solved	
CO2	71	-0.4		73
CO3	70	-1		73
CO4	69	-1.6		72

### CO-PO/PSO Mappings



CO	POs/PSOs	Class Sessions
CO1	PO1, PO2, PO4, PSO1, PSO2	12
CO2	PO1, PO4, PSO1, PSO2	12
CO3	PO1, PO3, PO4, PSO1, PSO2	12
CO4	PO1, PO3, PO4, PSO1, PSO3, PSO4	12

**Course – PO/PSO Mapping Strength (0,1,2,3) 100%-3 below 40-99-2%, below 40%-1**

Percentage of Sessions devoted to each PO/PSO	Mapping Strength
48 out of 48(100%) devoted to PO1	3
12 out of 48 (25%) devoted to PO2	1
24 out of 48 (50%) devoted to PO3	2
48 out of 48 (100%) devoted to PO4	3
48 out of 48 (100%) devoted to PSO1	3
36 out of 48 (75%) devoted to PSO2	2
12 out of 48 (25%) devoted to PSO3	1
12 out of 48 (25%) devoted to PSO4	1

**Course-POs/PSO Mapping**

Course	POs												PSOs					
	1	2	3	4	5	6	7	8	9	10	11	12	1	2	3	4	5	

IAAI	3	1	2	3												3	2	1	1	
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### CO Attainment and POs/PSOs

CO	POs	CO Attainment (%)
CO1	PO1, PO2, PO4, PSO1, PSO2	71.8
CO2	PO1, PO4, PSO1, PSO2	71.4
CO3	PO1, PO3, PO4, PSO1, PSO2	71
CO4	PO1, PO3, PO4, PSO1, PSO3, PSO4	70.6

### PO and PSO Attainment

Attainment of PO/PSO = (Average of attainments of relevant COs) x Scale Factor

Scale Factor = (Actual Mapping Strength / Maximum Possible Mapping Strength)

= Actual Mapping Strength / 3

PO/PSO	Attainment (%)
PO1	$3/3(71.8+71.4+71+70.6)/4=71.2$
PO2	$1/3(71.8)/1= 23.9$
PO3	$2/3(71+70.6)/2= 47.2$
PO4	$3/3(71.8+71.4+71+70.6)/4= 71.2$

PSO1	$3/3(71.8+71.4+71+70.6)/4= 71.2$
PSO2	$2/3(71.8+71.4+71)/3 = 47.6$
PSO3	$1/3(70.6)/1=23.5$
PSO4	$1/3(70.6)/1=23.5$

### Attainment of POs and PSOs

Course	POs												PSOs				
	1	2	3	4	5	6	7	8	9	10	11	12	1	2	3	4	5
LACM	3	1	2	3	-	-	-	-	-	-	-	-	3	2	1	1	-
Attainment	0.71	0.23	0.47	0.71									0.71	0.47	0.23	0.23	-

BBA 1.2	<b>Fundamentals of Accountancy</b>
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CO-1	Upon completion of this module, students will have a strong understanding of the fundamental principles and concepts of accounting, including the double-entry system, accrual accounting, matching principle, and the accounting equation.
CO-2	Upon completion of this module, students will have a solid understanding of the fundamental principles and concepts of accounting, including the accounting equation, the double-entry system, and the basic elements of financial statements.
CO-3	Upon completion of this module, students will have a thorough understanding of subsidiary books, also known as special journals, and their role in recording specific types of transactions efficiently and systematically.
CO-4	Upon completion of this module, students will have a clear understanding of proprietary concerns, also known as sole proprietorships, and their distinct characteristics as business entities owned and operated by a single individual.

CO	Course Outcome	Knowledge category ( <i>Factual/ Conceptual/ Procedural/ Metacognitive</i> )	Cognitive Level as per (Blooms Taxonomy)	No. of hours	POs/PSOs
CO1	students will have a strong understanding of the fundamental principles and concepts of accounting	Conceptual	Understand and Remember	10	PO1,PSO2, PSO4
CO2	The double-entry system, Accounting Process and the basic elements of financial statements. Kinds of accounts, Journal Process, Ledger posting and Trial balance	Procedural	Understand And Apply	12	PO1,PSO4
CO3	Students will have a thorough understanding of subsidiary books, also known as special journals, and their role in recording specific types of transactions efficiently and systematically.	Procedural	Understand And Evaluate	14	PO1
CO4	Develop the ability to calculate Employee costs, Remuneration and Incentive system	Procedural	Understand And Evaluate	14	PO1,PO2,PO3

CO-5	Through experiential learning activities, students will have the opportunity to apply theoretical accounting principles and concepts in real-world scenarios, enhancing their understanding of how accounting principles are implemented in business environments.
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## CO Attainment

### Direct Attainment of COs

#### Assessment Plan for CIE

CO	A1 (10)	A2 (10)	T1 (10)	T2 (10)
CO1	5	0	3	0
CO2	2	0	7	0
CO3	3	4	0	4
CO4	0	4	0	4
CO5	0	2	0	2

### Attainment of COs from CIE

#### Class average in CIE (As Calculated)

CO	A1 Cl. Ave (10)	A2 Cl. Ave (10)	T1 Cl. Ave (10)	T2 Cl. Ave (10)	CIE Class Average (%)
CO1	4.4	0	2.6	0	88
CO2	1.6	0	5.6	0	80
CO3	2.4	3.4	0	3.4	85
CO4	0	3.0	0	3	75
CO5	0	1.5	0	1.5	75

### Attainment of COs from SEE

CO	Class Average in SEE
CO1	83
CO2	83
CO3	83
CO4	83
CO5	83

### Computation of CO Direct Attainment in the course:

CO	CIE Cl. Ave	SEE Cl. Ave	Direct CO Attainment $0.4 * \text{CIE Cl. Ave} + 0.6 * \text{SEE Cl. Ave}$
CO1	88	83	85
CO2	80	83	81.8
CO3	85	83	83.8
CO4	75	83	79.8
CO5	75	83	79.8

**Targets:** Targets are set for each CO of a course separately as (Based on complexity of unit)tough

less target, easy give more %, can't go beyond 80%.

CO	Target (Class Average)
CO1	87
CO2	83
CO3	86
CO4	79
CO5	78

### CO Attainment Gap

CO	CO Attainment	Target (Class Average)	CO attainment Gap <b>CA-COA</b>
CO1	85	87	2
CO2	81.8	83	1.2
CO3	83.8	86	2.2
CO4	79.8	79	-8
CO5	79.8	78	-1.8

### Closure of the Quality Loop for COs:

	Target	CO Attainment gap (%)	Action proposed to bridge the gap	Modification of target where achieved
CO1	87	2	More Assignment, P.yrs QP	
CO2	83	1.2	More Assignment, P.yrs QP	
CO3	86	2.2	More Assignment, P.yrs QP, Remedial	
CO4	79	-.8		82
CO5	78	-1.8		83

### CO-PO/PSO Mappings

CO	POs/PSOs	Class Sessions
CO1	PO1, PSO2, PSO4	10
CO2	PO1, PSO4	12
CO3	PO1	14
CO4	PO1, PO2, PO3	14
CO5	PO1, PO4	06
		Total Hrs 56



**Course – PO/PSO Mapping Strength Either 0,1,2,3(100%-3,40+ 100 -2, below 40%-1**

Percentage of Sessions devoted to each PO/PSO	Mapping Strength
56 of 56 (100 %)devoted to PO1	3
14 of 56 (25 %)devoted to PO2	1
14 of 56 (25 %)devoted to PO3	1
6 of 56 (11%)devoted to PO4	1
10 of 56 (18 %)devoted to PSO1	1
22 of 56 (40 %)devoted to PSO4	2

**Course-POs/PSO Mapping as per previous table PO/PSO and its strength to be mentioned**

Course	POs												PSOs				
	1	2	3	4	5	6	7	8	9	10	11	12	1	2	3	4	5
FOA	3	1	1	1	-	-	-	-	-	-	-	-	1	-	-	2	-

**CO Attainment and POs/PSOs**

CO	POs	CO Attainment (%ge)
CO1	PO1,PSO2, PSO4	85
CO2	PO1,PSO4	81.8
CO3	PO1	83.8
CO4	PO1,PO2,PO3	79.8
CO5	PO1,PO4	79.8

### PO and PSO Attainment

Attainment of PO/PSO = (Average of attainments of relevant COs) x Scale Factor

Scale Factor = (Actual Mapping Strength / Maximum Possible Mapping Strength)

= Actual Mapping Strength / 3

PO/PSO	Attainment (%)
PO1	82.04
PO2	28.3
PO3	26.6
PO4	26.6
rPSO2	28.3
PSO4	83.9

### Attainment of POs and PSOs

Course	POs												PSOs				
	1	2	3	4	5	6	7	8	9	10	11	12	1	2	3	4	5
FOA	3	1	1	1	-	-	-	-	-	-	-	-	-	-	-	2	-
Attainment	.82	.28	.26	.26	-	-	-	-	-	-	-	-	.28	-	-	83.9	-

Attainment is based on (The above row is based on) previous table calculation

BBA 1.3	<b>Principles of Airline and Airport Operations</b>
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CO-1	Understand the historical development and evolution of the airline and airport industry, including key milestones and influential figures.
CO-2	Upon completing this module, students will have a comprehensive understanding of the regulatory frameworks established by the International Civil Aviation Organization (ICAO) and the International Air Transport Association (IATA), including their roles, functions, and global significance in shaping aviation policies and standards.
CO-3	Upon completion of this module, students will have a comprehensive understanding of the various functions and operations within an airport environment, including terminal management, ground handling, airside operations, security protocols, and emergency response procedures.
CO-4	Upon completion of this module, students will possess a comprehensive understanding of the operational aspects of airline management, including flight scheduling, crew management, fleet optimization, and route planning.

CO	Course Outcome	Knowledge category ( <i>Factual/ Conceptual/ Procedural/ Metacognitive</i> )	Cognitive Level as per (Blooms Taxonomy)	No. of hours	POs/PSOs
CO1	Understand the historical development and evolution of the airline and airport industry, including key milestones and influential figures.	Conceptual	Understand and Remember		
CO2	Understanding of the regulatory frameworks established by ICAO and IATA, including their roles, functions, and global significance in shaping aviation policies and standards.	Conceptual	Understand And Apply		
CO3		Procedural	Understand And Evaluate		
CO4		Procedural	Understand And Evaluate		
CO5		Conceptual	Understand, Apply, Evaluate		

## CO Attainment

### Direct Attainment of COs

#### Assessment Plan for CIE

CO	A1 (10)	A2 (10)	T1 (10)	T2 (10)
CO1	5	0	3	0
CO2	2	0	7	0
CO3	3	4	0	4
CO4	0	4	0	4
CO5	0	2	0	2

#### Attainment of COs from CIE

##### Class average in CIE (As Calculated)

CO	A1 Cl. Ave (10)	T1 Cl. Ave (20)	T2 Cl. Ave (20)	CIE Class Average (%)
CO1	4.4	0	2.6	88
CO2	1.6	0	5.6	80
CO3	2.4	3.4	0	85
CO4	0	3.0	0	75
CO5	0	1.5	0	75

### Attainment of COs from SEE

CO	Class Average in SEE
CO1	83
CO2	83
CO3	83
CO4	83
CO5	83

### Computation of CO Direct Attainment in the course:

CO	CIE Cl. Ave	SEE Cl. Ave	Direct CO Attainment $0.4 * \text{CIE Cl. Ave} + 0.6 * \text{SEE Cl. Ave}$
CO1	88	83	85
CO2	80	83	81.8
CO3	85	83	83.8
CO4	75	83	79.8
CO5	75	83	79.8

**Targets:** Targets are set for each CO of a course separately as (Based on complexity of unit)tough

less target, easy give more %, can't go beyond 80%.

CO	Target (Class Average)
CO1	87
CO2	83
CO3	86
CO4	79
CO5	78

### CO Attainment Gap

CO	CO Attainment	Target (Class Average)	CO attainment Gap <b>CA-COA</b>
CO1	85	87	2
CO2	81.8	83	1.2
CO3	83.8	86	2.2
CO4	79.8	79	-8
CO5	79.8	78	-1.8

### Closure of the Quality Loop for COs:

	Target	CO Attainment gap (%)	Action proposed to bridge the gap	Modification of target where achieved
CO1	87	2	More Assignment, P.yrs QP	
CO2	83	1.2	More Assignment, P.yrs QP	
CO3	86	2.2	More Assignment, P.yrs QP, Remedial	
CO4	79	-.8		80
CO5	78	-1.8		81

### CO-PO/PSO Mappings

CO	POs/PSOs	Class Sessions
CO1	PO1, PSO2, PSO4	10
CO2	PO1, PSO4	12
CO3	PO1	14
CO4	PO1, PO2, PO3	14
CO5	PO1, PO4	06
		Total Hrs 56

**Course – PO/PSO Mapping Strength Either 0,1,2,3(100%-3,40+ 100 -2, below 40%-1**



Percentage of Sessions devoted to each PO/PSO	Mapping Strength
56 of 56 (100 %)devoted to PO1	3
14 of 56 (25 %)devoted to PO2	1
14 of 56 (25 %)devoted to PO3	1
6 of 56 (11%)devoted to PO4	1
10 of 56 (18 %)devoted to PSO1	1
22 of 56 (40 %)devoted to PSO4	2

**Course-POs/PSO Mapping as per previous table PO/PSO and its strength to be mentioned**

Course	POs												PSOs				
	1	2	3	4	5	6	7	8	9	10	11	12	1	2	3	4	5
FOA	3	1	1	1	-	-	-	-	-	-	-	-	1	-	-	2	-

**CO Attainment and POs/PSOs**

CO	POs	CO Attainment (%ge)
CO1	PO1,PSO1, PSO4	85
CO2	PO1,PSO4	81.8
CO3	PO1	83.8
CO4	PO1,PO2,PO3	79.8
CO5	PO1,PO4	79.8

**PO and PSO Attainment**

Attainment of PO/PSO = (Average of attainments of relevant COs) x Scale Factor  
 Scale Factor = (Actual Mapping Strength / Maximum Possible Mapping Strength)  
 = Actual Mapping Strength / 3

PO/PSO	Attainment (%)
PO1	82.04
PO2	28.03
PO3	26.6
PO4	26.6
PSO1	28.3
PSO4	83.9

### Attainment of POs and PSOs

Course	POs												PSOs				
	1	2	3	4	5	6	7	8	9	10	11	12	1	2	3	4	5
FOA	3	1	1	1	-	-	-	-	-	-	-	-	1	-	-	2	-
Attainment	.82	.28	.26	.26	-	-	-	-	-	-	-	-	.28			.83	-

Attainment is based on (The above row is based on) previous table calculation

## II semester

BBA 1.1	<b>Passenger and Baggage Handling</b>
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CO-1	Students will have a strong understanding on airport terminals and its types as per IATA and about the modern-day terminals.
CO-2	Understands the concepts of passenger profiling, leisure and business travellers, transfer and transit passengers, facilities provided at airports for passengers.
CO-3	Understanding the concepts of baggage handling, baggage flow, baggage carrying belts and swing operations at busy airports.
CO-4	Students will be equipped with the concepts of damaged baggage, pilferage, fragile and mishandled baggage.

**Assessment Plan for CIE**

CO	Course Outcome	Knowledge category <i>(Factual/ Conceptual/ Procedural/ Metacognitive)</i>	Cognitive Level	No. of hours	POs/PSOs
CO1	Students will have a strong understanding on airport terminals and its types as per IATA and about the modern-day terminals.	<i>Factual</i>	Understand and Analyse	10	PO1 PO2 PSO1 PSO2
CO2	Understands the concepts of passenger profiling, leisure and business travellers, transfer and transit passengers, facilities provided at airports for passengers.	<i>Factual, Conceptual &amp; Procedural</i>	Understand and Analyse	06	PO1 PO2 PSO1
CO3	Understanding the concepts of baggage handling, baggage flow, baggage carrying belts and swing operations at busy airports.	<i>Factual, Conceptual &amp; Procedural</i>	Understand and Analyse	16	PO1 PO2 PSO1
CO4	Students will be equipped with the concepts of damaged baggage, pilferage, fragile and mishandled baggage.	<i>Factual, Conceptual &amp; Procedural</i>	Understand and Analyse	12	PO1, PO2, PSO1, PSO2

CO	A1 (10)	A2 (10)	T1 (10)	T2 (10)
CO1	2	2	6	0
CO2	2	2	4	0
CO3	2	2	0	0
CO4	2	2	0	6
CO5	2	2	0	4

### Attainment of COs from CIE

#### Class average in CIE (As Calculated)

CO	A1 Cl. Ave (5)	A2	T1 Cl. Ave (20)	T2 Cl. Ave (20)	CIE Class Average (%) (assumption)
CO1	1.6	1.6	4.8	0	60
CO2	1.5	1.5	3	0	58
CO3	1.3	1.3	0	0	56

CO4	1.5	1.5	0	4.5	58
CO5	1.4	1.4	0	2.8	58

### Attainment of COs from SEE

CO	Class Average in SEE
CO1	62
CO2	62
CO3	62
CO4	62
CO5	62

### Computation of CO Direct Attainment in the course:

CO	CIE Cl. Ave	SEE Cl. Ave	Direct CO Attainment $0.4 * \text{CIE Cl. Ave} + 0.6 * \text{SEE Cl. Ave}$
CO1	60	62	61.2
CO2	58	62	60.4
CO3	56	62	59.6
CO4	58	62	60.4
CO5	58	62	60.4

**Targets:** Targets are set for each CO of a course separately as

CO	Target (Class Average)
CO1	62
CO2	60
CO3	62
CO4	60
CO5	60

### CO Attainment Gap

CO	CO Attainment	Target (Class Average)	CO attainment Gap <b>CA-COA</b>
CO1	61.2	62	0.8
CO2	60.4	60	-0.4
CO3	59.6	62	2.4
CO4	60.4	60	-0.4
CO5	60.4	60	-0.4

### Closure of the Quality Loop for COs:

Target	CO Attainment gap (%)	Action proposed to bridge the gap	Modification of target where achieved

CO1	62	0.8	Previous Year Question papers	
CO2	60	-0.4		
CO3	62	2.4	Previous year Question paper	
CO4	60	-0.4		
CO5	60	-0.4		

### CO-PO/PSO Mappings

CO	POs/PSOs	Class Sessions
CO1	PO1 PO2 PSO1 PSO2	10
CO2	PO1 PO2 PSO1	12
CO3	PO1 PO2 PSO1	10
CO4	PO1, PO2, PSO1, PSO2	10



		42
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**Course – PO/PSO Mapping Strength (0,1,2,3) 100%-3 below 40-99-2%, below 40%-1**

Percentage of Sessions devoted to each PO/PSO	Mapping Strength
42 out of 42 (100%) devoted to PO1	3
42 out of 42 (100%) devoted to PO2	3
42 out of 42 (100%) devoted to PSO1	3
20 out of 42 (47%) devoted to PSO2	2

**Course-POs/PSO Mapping**

Course	POs												PSOs				
	1	2	3	4	5	6	7	8	9	10	11	12	1	2	3	4	5
TOC	3	3											3	2			

**CO Attainment and POs/PSOs**

CO	POs	CO Attainment (%ge)
CO1	PO1	61.2
	PO2	
	PSO1	
	PSO2	
CO2	PO1	60.4
	PO2	
	PSO1	

CO3	PO1 PO2 PSO1	59.6
CO4	PO1, PO2, PSO1, PSO2	60.4

### PO and PSO Attainment

Attainment of PO/PSO = (Average of attainments of relevant COs) x Scale Factor

Scale Factor = (Actual Mapping Strength / Maximum Possible Mapping Strength)

= Actual Mapping Strength / 3

PO/PSO	Attainment (%)
PO1	60
PO2	60
PSO1	60
PSO2	60

### Attainment of POs and PSOs

Course	POs												PSOs				
	1	2	3	4	5	6	7	8	9	10	11	12	1	2	3	4	5

TOC	3	3										3	2			
Attainment	60	60										60	60			

BBA 1.2	<b>Management Behavioural Process</b>
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CO-1	To Understand foundational theories, gain a comprehensive understanding of fundamental theories and concepts related to human behaviour in organizational contexts.
CO-2	To understand the concept of organisational behaviour, transaction cost and individual behaviour and various theories of organisational behaviour.
CO-3	Develop interpersonal skills, enhance interpersonal skills such as communication, active listening, conflict resolution, and negotiation to effectively interact with stakeholders in professional settings.
CO-4	To understand the importance of the concept of motivation at workplace. To understand deeply about the various theories of Motivation.

## Attainment of Outcomes Computation of CO Attainment

**Course: Management Behavioral Process**

CO	Course Outcome	Knowledge category ( <i>Factual/ Conceptual/ Procedural/ Metacognitive</i> )	Cognitive Level	No. of hours	POs/PSOs
CO1	To understand the concept of management, levels of management, Taylors and Fayol's principles of management	<i>Factual, conceptual</i>	Understand and Analyse	08	PO1, PO2, PO3, PO4, PSO1, PSO2, PSO3, PSO4
CO2	To understand the concept of organisational behaviour, individual behaviour and various theories of organisational behaviour	<i>Factual, Conceptual &amp; Procedural</i>	Understand and Analyse	10	PO1, PO3, PSO1, PSO2, PSO3, PSO4
CO3	To understand the importance of group decision making and communication, nature of decision making, communication and its techniques	<i>Factual, Conceptual &amp; Procedural</i>	Understand and Analyse	12	PO1, PO2, PSO1, PSO2, PSO4
CO4	To understand the concept of motivation, various theories of motivation, concept of behavioural modification and organisational effectiveness	<i>Factual, Conceptual &amp; Procedural</i>	Understand and Analyse	12	PO1, PO2, PO3, PSO2, PSO3, PSO4

**CO Attainment**  
**Direct Attainment of COs**

**Assessment Plan for CIE**

CO	A1 (10)	A2 (10)	T1 (10)	T2 (10)
CO1	5	3	6	0
CO2	3	2	4	0
CO3	2	3	0	4
CO4	0	2	0	6

**Attainment of COs from CIE**

**Class average in CIE (As Calculated)**

CO	A1 Cl. Ave (10)	A2 (10)	T1 Cl. Ave (10)	T2 Cl. Ave (10)	CIE Class Average (%) (assumption)
CO1	4.25	2.55	5.1	0	85
CO2	2.49	1.66	3.32	0	83
CO3	1.64	2.46	0	3.28	82
CO4	0	1.62	0	4.86	81

**Attainment of COs from SEE**

CO	Class Average in SEE
CO1	51
CO2	51
CO3	51

CO4	51
CO5	51

**Computation of CO Direct Attainment in the course:**

CO	CIE Cl. Ave	SEE Cl. Ave	Direct CO Attainment $0.4 * \text{CIE Cl. Ave}$ $+0.6 * \text{SEE Cl. Ave}$
CO1	85	51	64.6
CO2	83	51	63.8
CO3	82	51	63.4
CO4	81	51	63

**Targets:** Targets are set for each CO of a course separately as

CO	Target (Class Average)
CO1	66
CO2	65
CO3	63
CO4	63

**CO Attainment Gap**

CO	CO Attainment	Target (Class Average)	CO attainment Gap <b>CA-COA</b>
CO1	64.6	66	1.4
CO2	63.8	65	1.2

CO3	63.4	63	-0.4
CO4	63	62	-1

### Closure of the Quality Loop for COs:

	Target	CO Attainment gap (%)	Action proposed to bridge the gap	Modification of target were achieved
CO1	66	1.4	Model question papers	68
CO2	65	1.2	Model question papers	67
CO3	63	-0.4		
CO4	62	-1		

### CO-PO/PSO Mappings

CO	POs/PSOs	Class Sessions
CO1	PO1, PO2, PO3, PO4, PSO1, PSO2, PSO3, PSO4	08
CO2	PO1, PO3, PSO1, PSO2, PSO3, PSO4	10
CO3	PO1, PO2, PSO1, PSO2, PSO4	12
CO4	PO1, PO2, PO3, PSO2, PSO3, PSO4	12

### Course – PO/PSO Mapping Strength (0,1,2,3) 100%-3 below 40-99-2%, below 40%-1

Percentage of Sessions devoted to each PO/PSO	Mapping Strength
42 out of 42 (100%) devoted to PO1	3
32 out of 42 (76%) devoted to PO2	2

30 out of 42 (71%) devoted to PO3	2
08 out of 42 (19%) devoted to PO4	1
30 out of 42 (71%) devoted to PSO1	2
42 out of 42 (100%) devoted to PSO2	3
30 out of 42 (71%) devoted to PSO3	2
42 out of 42 (100%) devoted to PSO4	3

### Course-POs/PSO Mapping

Course	POs												PSOs				
	1	2	3	4	5	6	7	8	9	10	11	12	1	2	3	4	5
MBP	3	2	2	1									2	3	2	3	

### CO Attainment and POs/PSOs

CO	POs	CO Attainment (%ge)
CO1	PO1, PO2, PO3, PO4, PSO1, PSO2, PSO3, PSO4	64.6
CO2	PO1, PO3, PSO1, PSO2, PSO3, PSO4	63.8
CO3	PO1, PO2, PSO1, PSO2, PSO4	63.4
CO4	PO1, PO2, PO3, PSO2, PSO3, PSO4	63

### PO and PSO Attainment

Attainment of PO/PSO = (Average of attainments of relevant COs) x Scale Factor

Scale Factor = (Actual Mapping Strength / Maximum Possible Mapping Strength)

= Actual Mapping Strength / 3

PO/PSO	Attainment (%)



PO1	$3/3(64.6+63.8+63.4+63)/4= 63.7$
PO2	$2/3(64.6+63.4+63)/3= 42.4$
PO3	$2/3(64.6+63.8+63)/3= 42.53$
PO4	$1/3(64.6)/1= 21.53$
PSO1	$2/3(64.6+63.8+63.4)/3= 42.62$
PSO2	$3/3(64.6+63.8+63.4+63)/4= 63.7$
PSO3	$2/3(64.6+63.8+63)/3= 42.53$
PSO4	$3/3(64.6+63.8+63.4+63)/4= 63.7$

### Attainment of POs and PSOs

Course	POs												PSOs				
	1	2	3	4	5	6	7	8	9	10	11	12	1	2	3	4	5
MBP	3	2	2	1									2	3	2	3	
Attainment	0.63	0.42	0.42	0.21									0.42	0.63	0.42	0.63	

BBA 1.3	<b>Airline Customer Services</b>
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CO-1	To understand the significance of customer service in airline industry.
CO-2	To understand the behavioural styles of airline customers and also to know about the classification of customers in airline industry.
CO-3	To have an understanding about lounge services in airports and the procedures of accepting the pax at lounge.
CO-4	To understand about the codes of facilities and services offered by the airline industry to its customers.

CO	Course Outcome	Knowledge category <i>(Factual/ Conceptual/ Procedural/ Metacognitive)</i>	Cognitive Level	No. of hours	POs/PSOs
CO1	To understand the significance of customer service in airline industry.	<i>Factual</i>	Understand and Analyse	10	PO2 PSO2
CO2	To understand the behavioural styles of airline customers and also to know about the classification of customers in airline industry.	<i>Factual, Conceptual &amp; Procedural</i>	Understand and Analyse	12	PO3 PSO2
CO3	To have an understanding about lounge services in airports and the procedures of accepting the pax at lounge.	<i>Factual, Conceptual &amp; Procedural</i>	Understand and Analyse	10	PO2 PSO2
CO4	To understand about the codes of facilities and services offered by the airline industry to its customers.	<i>Factual, Conceptual &amp; Procedural</i>	Understand and Analyse	10	PO3 PSO2 PSO3

### Direct Attainment of COs

### Assessment Plan for CIE

CO	A1 (10)	A2 (10)	T1 (10)	T2 (10)
CO1	2	2	6	0
CO2	2	2	4	0
CO3	2	2	0	4
CO4	2	2	0	6

### Attainment of COs from CIE

#### Class average in CIE (As Calculated)

CO	A1 Cl. Ave (10)	A2 Cl. Ave (10)	T1 Cl. Ave (10)	T2 Cl. Ave (10)	CIE Class Average (%) (assumption)
CO1	1.6	1.6	4.8	0	60
CO2	1.5	1.5	3	0	59
CO3	1.3	1.3	0	0	58
CO4	1.5	1.5	0	4.5	55

### Attainment of COs from SEE

CO	Class Average in SEE
CO1	60
CO2	60

CO3	60
CO4	60

**Computation of CO Direct Attainment in the course:**

CO	CIE Cl. Ave	SEE Cl. Ave	Direct CO Attainment $0.4 * \text{CIE Cl. Ave} + 0.6 * \text{SEE Cl. Ave}$
CO1	60	60	60
CO2	59	60	59.6
CO3	58	60	59.2
CO4	55	60	58

**Targets:** Targets are set for each CO of a course separately as

CO	Target (Class Average)
CO1	65
CO2	62
CO3	58
CO4	58

**CO Attainment Gap**

CO	CO Attainment	Target (Class Average)	CO attainment Gap <b>CA-COA</b>
CO1	60	65	5
CO2	59.6	62	2.4
CO3	59.2	58	-1.2
CO4	58	58	0

**Closure of the Quality Loop for COs:**

	Target	CO Attainment gap (%)	Action proposed to bridge the gap	Modification of target where achieved
CO1	65	5	Previous Year Question papers	
CO2	62	2.4	Assignments to be given	
CO3	58	-1.2		
CO4	58	0		
CO5	58	5		

**CO-PO/PSO Mappings**

CO	POs/PSOs	Class Sessions

CO1	PO2,PSO2	10
CO2	PO3,PSO2	12
CO3	PO2,PSO2	10
CO4	PO3,PSO2,PSO3	10
		42

**Course – PO/PSO Mapping Strength (0,1,2,3)100%-3 below 40-99-2%, below 40%-1**

Percentage of Sessions devoted to each PO/PSO	Mapping Strength
20 out of 42 (47%) devoted to PO2	1
42out of 42 (100%) devoted to PSO2	3
22out of 42 (52%) devoted to PO3	2
10out of 42 (23%) devoted to PSO3	1

**Course-POs/PSO Mapping**

Course	POs												PSOs				
	1	2	3	4	5	6	7	8	9	10	11	12	1	2	3	4	5
TOC		1	2										1	3	1		

**CO Attainment and POs/PSOs**

CO	POs	CO Attainment (%ge)

CO1	PO2,PSO2	60
CO2	PO3,PSO2	59.6
CO3	PO2,PSO2	59.2
CO4	PO3,PSO2,PSO3	58

### PO and PSO Attainment

Attainment of PO/PSO = (Average of attainments of relevant COs) x Scale Factor

Scale Factor = (Actual Mapping Strength / Maximum Possible Mapping Strength)

= Actual Mapping Strength / 3

PO/PSO	Attainment (%)
PO2	29.8
PSO2	59.3
PO3	39.2
PSO3	19.3

**Attainment of POs and PSOs**

Course	POs												PSOs				
	1	2	3	4	5	6	7	8	9	10	11	12	1	2	3	4	5
TOC		1	2										1	3	1		
Attainment		0.29	0.39											0.59	0.19		

**III semester**

BBA 3.1	<b>Cost Accounting</b>
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CO-1	Understand the basic concepts, Elements and Classification of costs
CO-2	Able to prepare Cost sheet and Tenders by understanding work cost, administrative costs and selling and distribution overheads etc. in an industry.
CO-3	Prepare material related documents, understand the management of stores and issue procedures and Inventory control Techniques and pricing of Materials
CO-4	Develop the ability to calculate Employee costs, Remuneration and Incentive system
CO-5	Classify, allocate apportion overheads and calculate overhead absorption rates



CO	Course Outcome	Knowledge category ( <i>Factual/ Conceptual/ Procedural/ Metacognitive</i> )	Cognitive Level as per (Blooms Taxonomy)	No. of hours	POs/PSOs
CO1	Understand the basic concept, Elements and Classification of costs	Conceptual	Understand and Remember	6	PO1,PSO1,PSO2
CO2	Able to prepare Cost sheet and Tenders by understanding work cost, administrative costs and selling and distribution overheads etc. in an industry.	Procedural	Understand And Apply	12	PO1,PO2,PSO1 PSO2
CO3	Prepare material related documents, understand the management of stores and issue procedures and Inventory control Techniques and pricing of Materials	Procedural	Understand And Evaluate	14	PO1,PO2,PO3, PSO1,PSO3
CO4	Develop the ability to calculate Employee costs, Remuneration and Incentive system	Procedural Metacognitive	Understand, Evaluate, Apply	10	PO1,PO3,PO4, PSO1,PSO3
CO5	Classify, allocate apportion overheads and calculate overhead absorption rates	Procedural	Apply And Evaluate	14	PO1,PSO1

## CO Attainment

### Direct Attainment of COs

#### Assessment Plan for CIE

CO	A1 (10)	A2 (10)	T1 (10)	T2 (10)
CO1	3	0	5	0
CO2	3	0	5	0
CO3	4	0	0	2
CO4	0	5	0	3
CO5	0	5	0	5

#### Attainment of COs from CIE

#### Class average in CIE (As Calculated)

CO	A1 Cl. Ave (10)	T1 Cl. Ave (20)	T2 Cl. Ave (20)	CIE Class Average (%)
CO1	2.67	0	4.45	89
CO2	2.4	0	4	80
CO3	0	0	0	85
CO4	0	3.75	0	75
CO5	0	3.5	0	70

#### Attainment of COs from SEE

CO	Class Average in SEE
CO1	54
CO2	54

CO3	54
CO4	54
CO5	54

**Computation of CO Direct Attainment in the course:**

CO	CIE Cl. Ave	SEE Cl. Ave	Direct CO Attainment 0.4 *CIE Cl. Ave + 0.6 * SEE Cl. Ave
CO1	89	54	0.4*80%+0.6*74 36+32=68
CO2	80	54	32+32=64
CO3	85	54	34+32=66
CO4	75	54	30+32=62
CO5	70	54	28+32=60

**Targets:** Targets are set for each CO of a course separately as (Based on complexity of unit)tough less target, easy give more %, can't go beyond 80%.

CO	Target (Class Average)
CO1	70
CO2	66
CO3	68
CO4	60
CO5	58

**CO Attainment Gap**

CO	CO Attainment	Target (Class Average)	CO attainment Gap CA-COA
CO1	68	70	2
CO2	64	66	2
CO3	66	68	2
CO4	62	60	-2
CO5	60	58	-2

#### Closure of the Quality Loop for COs:

	Target	CO Attainment gap (%)	Action proposed to bridge the gap	Modification of target where achieved
CO1	70	2	More Assignment, P.yrs QP	
CO2	66	2	More Assignment, P.yrs QP	
CO3	68	2	More Assignment, P.yrs QP, Remedial	
CO4	60	-2		62
CO5	58	-2		60

#### CO-PO/PSO Mappings

CO	POs/PSOs	Class Sessions
CO1	PO1, PSO1, PSO2	6
CO2	PO1, PO2, PSO1 PSO2	12
CO3	PO1, PO2, PO3, PSO1, PSO3	14
CO4	PO1, PO3, PO4, PSO1, PSO3	10

CO5	PO1,PSO1	14
	Total Hours	56

**Course – PO/PSO Mapping Strength Either 0,1,2,3(100%-3,40+ 100 -2, below 40%-1**

Percentage of Sessions devoted to each PO/PSO	Mapping Strength
56 of 56 (100%)devoted to PO1	3
26 of 56 (47%)devoted to PO2	2
24 of 56 (43 %)devoted to PO3	2
10 of 56 (18% )devoted to PO4	1
56 of 56 (100%)devoted to PSO1	3
18 of 56 (32%)devoted to PSO2	1
24 of 56 (43%)devoted to PSO3	2

**Course-POs/PSO Mapping as per previous table PO/PSO and its strength to be mentioned**

Course	POs												PSOs				
	1	2	3	4	5	6	7	8	9	10	11	12	1	2	3	4	5
TOC	3	2	2	1	-	-	-	-	-	-	-	-	3	1	2	-	-

**CO Attainment and POs/PSOs**

CO	POs	CO Attainment (%ge)
CO1	PO1,PSO1,PSO2	68
CO2	PO1,PO2,PSO1 PSO2	64
CO3	PO1,PO2,PO3, PSO1,PSO3	66
CO4	PO1,PO3,PO4, PSO1,PSO3	62

CO5	PO1,PSO1	60
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### PO and PSO Attainment

Attainment of PO/PSO = (Average of attainments of relevant COs) x Scale Factor

Scale Factor = (Actual Mapping Strength / Maximum Possible Mapping Strength)

= Actual Mapping Strength / 3

PO/PSO	Attainment (%)
PO1	64
PO2	43.3
PO3	42.6
PO4	20.6
PSO1	64
PSO2	22
PSO3	42.6

### Attainment of POs and PSOs

Course	POs												PSOs				
	1	2	3	4	5	6	7	8	9	10	11	12	1	2	3	4	5

COST A/C	3	2	2	1	-	-	-	-	-	-	-	-	3	1	2	-	-
Attainment	64	43.3	42.6	20.6	-	-	-	-	-	-	-	-	64	22	42.6	-	-

Attainment is based on (The above row is based on) previous table calculation

BBA 3.2	<b>Logistics and Air Cargo Management</b>
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CO-1	Students should grasp the fundamental principles and components of logistics, including its role in aviation management and its significance for efficient operations.
CO-2	Understands the transport security system, product packaging, product pricing and the role of warehouses in airlines.
CO-3	Students will have a comprehensive understanding on global supply chain, international documentation, strategy formulation and implementation.
CO-4	Gain a comprehensive understanding on operations and industry regulations in airline industry, service functions and types of cargo.
CO-5	Helps in understanding about the aircraft handling with cargo, cargo terminals and facilities and about the emerging trends in cargo and cargo carriers.

CO	Course Outcome	Knowledge category ( <i>Factual/ Conceptual/ Procedural/ Metacognitive</i> )	Cognitive Level	No. of hours	POs/PSOs
CO1	Students should grasp the fundamental principles and components of logistics, including its role in aviation management and its significance for efficient operations.	<i>Conceptual Factual</i>	Understand and remember	10	PO1 PSO1 PSO2
CO2	Understands the transport security system, product packaging, product pricing and the role of warehouses in airlines.	<i>Factual, Conceptual &amp;</i>	Understand, analyse and apply	06	PO1 PO2 PO3 PSO1 PSO2 PSO3
CO3	Students will have a comprehensive understanding on global supply chain, international documentation, strategy formulation and implementation.	<i>Conceptual, Factual, procedural</i>	Understand, apply and evaluate	16	PO1 PSO1 PSO2 PSO3
CO4	Gain a comprehensive understanding on operations and industry regulations in airline	<i>Factual, Conceptual</i>	Understand, analyse and apply	12	PO1 PO2 PO3



	industry, service functions and types of cargo.				PSO1 PSO2 PSO3
CO5	Helps in understanding about the aircraft handling with cargo, cargo terminals and facilities and about the emerging trends in cargo and cargo carriers.	<i>Factual, Conceptual</i>	Understand, apply and evaluate	12	PO1 PO3 PO4 PSO1 PSO2

**CO Attainment**  
**Direct Attainment of COs**

**Assessment Plan for CIE**

CO	A1 (10)	A2 (10)	T1 (10)	T2 (10)
CO1	2	0	4	0
CO2	3	0	6	0
CO3	5	0	0	2
CO4	0	6	0	4
CO5	0	4	0	4

**Attainment of COs from CIE**

**Class average in CIE (As Calculated)**

CO	A1 Cl. Ave (10)	A2 Cl. Ave (10)	T1 Cl. Ave (10)	T2 Cl. Ave (10)	CIE Class Average (%) (assumption)
CO1	1.76	0	3.52	0	88
CO2	2.58	0	5.16	0	86
CO3	4.2	0	0	1.68	84
CO4	0	4.98	0	3.32	83
CO5	0	3.4	0	3.4	85

### Attainment of COs from SEE

CO	Class Average in SEE
CO1	79
CO2	79
CO3	79
CO4	79
CO5	79

### Computation of CO Direct Attainment in the course:

CO	CIE Cl. Ave	SEE Cl. Ave	Direct CO Attainment $0.4 * \text{CIE Cl. Ave}$ $+0.6 * \text{SEE Cl. Ave}$
CO1	88	79	82.6
CO2	86	79	81.8
CO3	84	79	81
CO4	83	79	80.6
CO5	85	79	81.4

**Targets:** Targets are set for each CO of a course separately as

CO	Target (Class Average)
CO1	83
CO2	82
CO3	80
CO4	81
CO5	82

### CO Attainment Gap

CO	CO Attainment	Target (Class Average)	CO attainment Gap <b>CA-COA</b>
CO1	82.6	83	-0.4
CO2	81.8	82	-0.2
CO3	81	80	-1
CO4	80.6	81	0.4
CO5	81.4	82	0.6

### Closure of the Quality Loop for COs:

	Target	CO Attainment gap (%)	Action proposed to bridge the gap	Modification of target were achieved
CO1	83	-0.4		86
CO2	82	-0.2		85
CO3	80	-1		83
CO4	81	0.4	Previous year Question paper	
CO5	82	0.6	Previous year Question paper	

### CO-PO/PSO Mappings

CO	POs/PSOs	Class Sessions
CO1	PO1 PS01 PSO2	12
CO2	PO1 PO2 PO3 PSO1 PSO2 PSO3	12
CO3	PO1 PSO1 PSO2 PSO3	10

CO4	PO1 PO2 PO3  PSO1 PSO2 PSO3	12
CO5	PO1 PO3 PO4 PSO1 PSO2	10
		56

**Course – PO/PSO Mapping Strength (0,1,2,3) 100%-3 below 40-99-2%, below 40%-1**

Percentage of Sessions devoted to each PO/PSO	Mapping Strength
56 out of 56 (82%) devoted to PO1	3
24 out of 56 (42%) devoted to PO2	2
34 out of 56 (67%) devoted to PO3	2
56 out of 56 (18%) devoted to PSO1	3
56 out of 56 (100%) devoted to PSO2	3
34 out of 56 (67%) devoted to PSO3	2

**Course-POs/PSO Mapping**

Course	POs												PSOs				
	1	2	3	4	5	6	7	8	9	10	11	12	1	2	3	4	5



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LACM	3	2	2												3	3	2		
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**CO Attainment and POs/PSOs**

CO	POs	CO Attainment (%)
CO1	PO1 PS01 PSO2	82.6
CO2	PO1 PO2 PO3 PSO1 PSO2 PSO3	81.8
CO3	PO1 PSO1 PSO2 PSO3	81
CO4	PO1 PO2 PO3 PSO1 PSO2 PSO3	80.6
CO5	PO1 PO3 PO4 PSO1 PSO2	81.4

### PO and PSO Attainment

Attainment of PO/PSO = (Average of attainments of relevant COs) x Scale Factor

Scale Factor = (Actual Mapping Strength / Maximum Possible Mapping Strength)

= Actual Mapping Strength / 3

PO/PSO	Attainment (%)
PO1	81.4
PO2	53.5
P03	53.63
PS01	81.48
PS02	81.48
PS03	53.77

### Attainment of POs and PSOs

Course	POs												PSOs					
	1	2	3	4	5	6	7	8	9	10	11	12	1	2	3	4	5	



LACM	3	2	2	-	-	-	-	-	-	-	-	-	3	3	2	-	-
Attainment	.81	.53	.53	-	-	-	-	-	-	-	-	-	.81	.81	.53	-	-

BBA 3.3	<b>Statistics for Business Decisions</b>
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CO-1	Helps in understanding the concept of statistics, classification of data and about the concept of tabulation.
CO-2	Helps in understanding the measures of central tendency and dispersion, graphs and absolute and relative measures of dispersion.
CO-3	To understand the meaning and types of correlation, computation of probable error and the concept of regression.
CO-4	Students will develop a solid understanding of time series data, including its characteristics, components, and common patterns observed in real-world data sets.
CO 5	Helps in understanding the concept of index numbers, uses of index numbers, construction of index numbers and the methods of index numbers.

CO	Course Outcome	Knowledge category ( <i>Factual/Conceptual/Procedural/Metacognitive</i> )	Cognitive Level	No. of hours	POs/PSOs
CO1	Gain a foundational understanding of statistics and its applications in making informed business decisions, including the ability to interpret and analyze data effectively.	<i>Factual</i>	Understand and Analyse	10	PO1 PSO1 PSO4
CO2	Learn about measures of central tendency and dispersion, including mean, median, mode, range, variance, and standard deviation, to summarize and describe data distributions accurately.	<i>Factual, Conceptual&amp;Procedural</i>	Understand and Analyse	14	PO1 PSO1 PSO4
CO3	Develop proficiency in correlation and regression analysis techniques to explore relationships between variables, identify patterns, and make predictions based on statistical models.	<i>Factual, Conceptual&amp;Procedural</i>	Understand and Analyse	12	PO1 PSO1 PSO4
CO4	Explore time series analysis methods to analyze and interpret sequential data over time, including trend	<i>Factual, Conceptual&amp;Procedural</i>	Understand and Analyse	08	PO1 PSO1

	analysis, seasonal variations, and forecasting techniques, to make strategic business decisions and anticipate future trends.				PSO4
CO5	Understand the concept of index numbers and their applications in measuring changes in economic variables, such as prices, production, and consumer sentiment, to evaluate performance, monitor trends, and facilitate comparisons over time or across different groups.	<i>Factual,</i> <i>Conceptual</i>	Understand and Analyse	12	PO1 PSO2 PSO3

**CO Attainment**  
**Direct Attainment of COs**

**Assessment Plan for CIE**

CO	A1 (10)	A2 (10)	T1 (10)	T2 (10)
CO1	2	2	6	0
CO2	2	2	4	0
CO3	2	2	0	0
CO4	2	2	0	6
CO5	2	2	0	4

**Attainment of COs from CIE**

**Class average in CIE (As Calculated)**

CO	A1 Cl. Ave (10)	A2 Cl. Ave (10)	T1 Cl. Ave (10)	T2 Cl. Ave (10)	CIE Class Average (%) (assumption)
CO1	1.7	1.7	5.1	0	85
CO2	1.2	1.2	3.2	0	80
CO3	1.64	1.64	0	0	82
CO4	1.23	1.23	0	3.69	82
CO5	1.106	1.106	0	3.16	79

### Attainment of COs from SEE

CO	Class Average in SEE
CO1	83
CO2	83
CO3	83
CO4	83
CO5	83

### Computation of CO Direct Attainment in the course:

CO	CIE Cl. Ave	SEE Cl. Ave	Direct CO Attainment $0.4 * \text{CIE Cl. Ave}$ $+ 0.6 * \text{SEE Cl. Ave}$
CO1	85	83	83.8
CO2	80	83	81.8
CO3	82	83	82.6
CO4	82	83	82.6

CO5	79	83	81.4
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**Targets:** Targets are set for each CO of a course separately as

CO	Target (Class Average)
CO1	85
CO2	82
CO3	84
CO4	84
CO5	80

### CO Attainment Gap

CO	CO Attainment	Target (Class Average)	CO attainment Gap <b>CA-COA</b>
CO1	83.8	85	1.2
CO2	81.8	82	0.2
CO3	82.6	84	1.4
CO4	82.6	84	1.4
CO5	81.4	80	-1.4

### Closure of the Quality Loop for COs:

	Target	CO Attainment gap (%)	Action proposed to bridge the gap	Modification of target where achieved
CO1	85	1.2	Previous Year Question papers	
CO2	82	0.2	Assignments	
CO3	84	1.4	Previous year Question paper	
CO4	84	1.4	Assignments	
CO5	80	-1.4		83

### CO-PO/PSO Mappings

CO	POs/PSOs	Class Sessions
CO1	PO1	10
	PSO1	
	PSO4	
CO2	PO1	14
	PSO1	
	PSO4	
CO3	PO1	12
	PSO1	
	PSO4	

CO4	PO1	08
	PSO1	
	PSO4	
CO5	PO1	12
	PSO2	
	PSO3	
		56

**Course – PO/PSO Mapping Strength(0,1,2,3)100%-3 below 40-99-2%,below 40%-1**

Percentage of Sessions devoted to each PO/PSO	Mapping Strength
56 out of 56 (100%) devoted to PO1	3
44 out of 56 (78%) devoted to PSO1	2
12 out of 56 (21%) devoted to PSO2	1
12 out of 56 (21%) devoted to PSO3	1
44 out of 56 (78%) devoted to PSO4	3

**Course-POs/PSO Mapping**

Course	POs												PSOs				
	1	2	3	4	5	6	7	8	9	10	11	12	1	2	3	4	5
TOC	3												2	1	1	3	



### CO Attainment and POs/PSOs

CO	POs	CO Attainment (%ge)
CO1	PO1,PSO1,PSO4	83.8
CO2	PO1,PSO1,PSO4	81.8
CO3	PO1,PSO1,PSO4	82.6
CO4	PO1,PSO1,PSO4	82.6
CO5	PO1,PSO2,PSO3	81.4

### PO and PSO Attainment

Attainment of PO/PSO = (Average of attainments of relevant COs) x Scale Factor

Scale Factor = (Actual Mapping Strength / Maximum Possible Mapping Strength)

= Actual Mapping Strength / 3

PO/PSO	Attainment (%)

PO1	82.44
PSO1	55
PSO2	27
PSO3	27
PSO4	20.3

### Attainment of POs and PSOs

Course	POs												PSOs				
	1	2	3	4	5	6	7	8	9	10	11	12	1	2	3	4	5
TOC	3												2	1	1	3	
Attainment	.82												.55	.27	.27	.20	

### IV semester

BBA4 4.1	<b>Airline Marketing</b>
CO-1	To Understand the fundamental concepts of airline business & Marketing.
CO-2	To familiarize the concepts of airline business & marketing strategies.
CO-3	To analyse the concepts of Airline marketing, understand ANSOFF matrix
CO-4	To Explore the airline brand, Sales Management procedure & strategies.
CO-5	To Understand the various Airline pricing & Revenue Management.

CO	Course Outcome	Knowledge category <i>(Factual/ Conceptual/ Procedural/ Metacognitive)</i>	Cognitive Level as per <i>(Blooms Taxonomy)</i>	No. of hours	POs/PSOs
CO1	To understand the fundamental concepts of airline business and marketing.	Conceptual Factual	Understand and Remember	10	PO1, PSO1
CO2	To familiarize the concepts of airline business and marketing strategies.	Conceptual	Understand And Apply	12	PO1,PO2 PSO1,PSO2
CO3	To analyze the concepts of airline marketing, understand ANSOFF Matrix	Conceptual	Understand And Evaluate	10	PO1,PO4 PSO1
CO4	To explore the airline brand, sales management procedure and strategies.	Conceptual	Understand and Apply	12	PO1,PO3 PSO1,PSO3
CO5	To understand the various airline pricing and revenue management	Conceptual Metacognitive	Understand and Remember	12	PO1,PO4 PSO1

## CO Attainment

### Direct Attainment of COs Assessment Plan for CIE

CO	A1 (10)	A2 (10)	T1 (10)	T2 (10)
CO1	5	0	5	0
CO2	5	0	5	0
CO3	0	3	0	4
CO4	0	5	0	3
CO5	0	2	0	3

### Attainment of COs from CIE- based on Assumption of Syllabus content

#### Class average in CIE (As Calculated)

CO	A1 Cl. Ave (10)	A2 Cl. Ave (10)	T1 Cl. Ave (10)	T2 Cl. Ave (10)	CIE Class Average (%)
CO1	4.75	0	4.75	0	95
CO2	4.25	0	4.25	0	85
CO3	0	2.4	0	3.2	80
CO4	0	4	0	2.4	80
CO5	0	1.5	0	2.25	75

### Attainment of COs from SEE

CO	Class Average in SEE
CO1	78
CO2	78
CO3	78
CO4	78
CO5	78

**Computation of CO Direct Attainment in the course:**

CO	CIE Cl. Ave	SEE Cl. Ave	Direct CO Attainment $0.4 * \text{CIE Cl. Ave}$ $+ 0.6 * \text{SEE Cl. Ave}$
CO1	95	78	84.8
CO2	85	78	80.8
CO3	80	78	78.8
CO4	80	78	78.8
CO5	75	78	76.8

**Targets:** Targets are set for each CO of a course separately as (Based on complexity of unit) tough less target, easy give more %, can't go beyond 80%.

CO	Target (Class Average)
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CO1	86
CO2	83
CO3	80
CO4	79
CO5	75

### CO Attainment Gap

CO	CO Attainment	Target (Class Average)	CO attainment Gap <b>CA-COA</b>
CO1	84.8	86	1.2
CO2	80.8	83	2.2
CO3	78.8	80	1.2
CO4	78.8	79	0.2
CO5	76.8	75	-1.8

### Closure of the Quality Loop for COs:

	Target	CO Attainment gap (%)	Action proposed to bridge the gap	Modification of target where achieved
CO1	86	1.2	More Assignment, P.yrs QP	

CO2	83	2.2	More Assignment, P.yrs QP	
CO3	80	1.2	More Assignment, P.yrs QP, Remedial classes	
CO4	79	0.2	Previous year question papers	
CO5	75	-1.8		79

### CO-PO/PSO Mappings

CO	POs/PSOs	Class Sessions
CO1	PO1 PSO1	10
CO2	PO1,PO2 PSO1, PSO2	12
CO3	PO1,PO4 PSO1	10
CO4	PO1,PO3 PSO1, PSO3	12
CO5	PO1,PO4,PSO1	12
		Total Hrs. 56

### Course – PO/PSO Mapping Strength Either 0,1,2,3(100%-3,40-100 -2, below 40%-1

Percentage of Sessions devoted to each PO/PSO	Mapping Strength
How many times PSO/PO repeated multiplied by in each class sessions- no of hours allotted /Total hours	
56 out of 56 (100%)devoted to PO1	3



12 out of 56 (21%)devoted to PO2	1
12 out of 56 (21%)devoted to PO3	1
56 out of 56 (39%)devoted to PO4	1
56 out of 56 (100%)devoted to PSO1	3
12 out of 56 (21%)devoted to PSO2	1
12 out of 56 (21%)devoted to PSO3	1

**Course-POs/PSO Mapping as per previous table PO/PSO and its strength to be mentioned**

Course	POs												PSOs				
	1	2	3	4	5	6	7	8	9	10	11	12	1	2	3	4	5
ALM	3	1	1	1	-	-	-	-	-	-	-	-	3	1	1	-	-

**CO Attainment and POs/PSOs**

CO	POs	CO Attainment (%)
CO1	PO1,PSO1	84.8
CO2	PO1,PO2,PSO1,PSO2	80.8
CO3	PO1,PO4,PSO1	78.8
CO4	PO1,PO3, PSO1,PSO3	78.8
CO5	PO1,PO4,PSO1	76.8

**PO and PSO Attainment**

Attainment of PO/PSO = (Average of attainments of relevant COs) x Scale Factor  
 Scale Factor = (Actual Mapping Strength / Maximum Possible Mapping Strength)  
 = Actual Mapping Strength / 3

PO/PSO	Attainment (%)
PO1	$3/3(84.8+80.8+78.8+78.8+76.8)/5= 80$
PO2	$1/3(80.8)/1= 26.9$
PO3	$1/3(78.8)/1= 26.2$
PO4	$1/3(78.8+76.8)/2= 25.9$
PSO1	$3/3(84.8+80.8+78.8+78.8+76.8)/5= 80$
PSO2	$1/3(80.8)/1= 26.9$
PSO3	$1/3(78.8)/1= 26.2$

### Attainment of POs and PSOs

Course	POs												PSOs				
	1	2	3	4	5	6	7	8	9	10	11	12	1	2	3	4	5
TOC	3	1	2	3	-	-	-	-	-	-	-	-	1	-	2	1	-
Attainment	.80	.2	.26	.25	-	-	-	-	-	-	-	-	.80	.26	.26		

Attainment is based on (The above row is based on) previous table calculation

BBA 4.2	<b>Aviation Law and Aircraft Rules and Regulations</b>
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CO-1	Understand the foundational principles of aviation law and the international legal framework governing aviation.
CO-2	Familiarize with specific national regulations and agencies governing aviation within the country of study.
CO-3	Learn how to ensure compliance with aviation laws and regulations and the consequences of non-compliance.
CO-4	Understand the process of aircraft certification, airworthiness, and the role of aviation authorities in ensuring safety.
CO-5	To understand the concepts of the international conventions

CO	Course Outcome	Knowledge category <i>(Factual/ Conceptual/ Procedural/ Metacognitive)</i>	Cognitive Level	No. of hours	POs/PSOs
CO1	Understand the foundational principles of aviation law and the international legal framework governing aviation.	<i>Factual</i>	Understand and Analyse	10	PO4 PSO1 PSO2
CO2	Familiarize with specific national regulations and agencies governing aviation within the country of study.	<i>Factual, Conceptual &amp; Procedural</i>	Understand and Analyse	06	PO1 PSO2 PSO3
CO3	Learn how to ensure compliance with aviation laws and regulations and the consequences of non-compliance.	<i>Factual, Conceptual &amp; Procedural</i>	Understand and Analyse	16	PO1 PSO2 PSO3
CO4	Examine the regulatory frameworks governing the airline and airport industry at both national and international levels, including safety standards, security protocols, and environmental regulations	<i>Factual, Conceptual &amp; Procedural</i>	Understand and Analyse	12	PO1 PSO2 PSO3

CO5	Understand the process of aircraft certification, airworthiness, and the role of aviation authorities in ensuring safety.	<i>Factual, Conceptual</i>	Understand and Analyse	12	PO1 PSO2 PSO3
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### CO Attainment

#### Direct Attainment of COs

#### Assessment Plan for CIE

CO	A1 (10)	A2 (10)	T1 (10)	T2 (10)
CO1	2	2	6	0
CO2	2	2	4	0
CO3	2	2	0	0
CO4	2	2	0	6
CO5	2	2	0	4

#### Attainment of COs from CIE

#### Class average in CIE (As Calculated)

CO	A1 Cl. Ave (10)	A2 Cl.Ave (10)	T1 Cl. Ave (10)	T2 Cl. Ave (10)	CIE Class Average (%) (assumption)
CO1	1.6	1.6	4.8	0	80
CO2	1.5	1.5	3	0	75

CO3	1.3	1.3	0	0	65
CO4	1.5	1.5	0	4.5	75
CO5	1.4	1.4	0	2.8	70

### Attainment of COs from SEE

CO	Class Average in SEE
CO1	62
CO2	62
CO3	62
CO4	62
CO5	62

### Computation of CO Direct Attainment in the course:

CO	CIE Cl. Ave	SEE Cl. Ave	Direct CO Attainment $0.4 * \text{CIE Cl. Ave}$ $+0.6 * \text{SEE Cl. Ave}$
CO1	80	62	69.2
CO2	75	62	67.2
CO3	65	62	63.2

CO4	75	62	67.2
CO5	70	62	65.2

**Targets:** Targets are set for each CO of a course separately as

CO	Target (Class Average)
CO1	70
CO2	65
CO3	65
CO4	66
CO5	64

### CO Attainment Gap

CO	CO Attainment	Target (Class Average)	CO attainment Gap <b>CA-COA</b>
CO1	69.2	70	0.8
CO2	67.2	65	-2.2
CO3	63.2	65	1.8
CO4	67.2	66	-1.2

CO5	65.2	64	-1.2
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### Closure of the Quality Loop for COs:

	Target	CO Attainment gap (%)	Action proposed to bridge the gap	Modification of target where achieved
CO1	70	0.8	Previous Year Question papers	
CO2	65	-2.2		70
CO3	65	1.8	Previous year Question paper	
CO4	66	-1.2		68
CO5	64	-1.2		66

### CO-PO/PSO Mappings

CO	POs/PSOs	Class Sessions
CO1	PO4 PSO1 PSO2	10
CO2	PO1,PSO2,PSO3	06
CO3	PO1,PSO2,PSO3	16
CO4	PO1,PSO2,PSO3	12



CO5	PO1,PSO2,PSO3	12
		56

**Course – PO/PSO Mapping Strength (0,1,2,3)100%-3 below 40-99-2%, below 40%-1**

Percentage of Sessions devoted to each PO/PSO	Mapping Strength
46 out of 56 (82%) devoted to PO1	2
20 out of 56 (36%) devoted to PO4	1
10 out of 56 (18%) devoted to PSO1	1
56 out of 56 (100%) devoted to PSO2	3
41 out of 56 (73%) devoted to PSO3	2

**Course-POs/PSO Mapping**

Course	POs												PSOs					
	1	2	3	4	5	6	7	8	9	10	11	12	1	2	3	4	5	
TOC	2			1										1	3	2		

**CO Attainment and POs/PSOs**

CO	POs	CO Attainment (%ge)
CO1	PO4 PSO1 PSO2	69.2
CO2	PO1,PSO2,PSO3	67.2

CO3	PO1,PSO2,PSO3	63.2
CO4	PO1,PSO2,PSO3	67.2
CO5	PO1,PSO2,PSO3	65.2

### PO and PSO Attainment

Attainment of PO/PSO = (Average of attainments of relevant COs) x Scale Factor

Scale Factor = (Actual Mapping Strength / Maximum Possible Mapping Strength)

= Actual Mapping Strength / 3

PO/PSO	Attainment (%)
PO1	65
PO4	69.2
PSO1	23.06
PSO2	65.7
PSO3	65.7

### Attainment of POs and PSOs

Course	POs											PSOs				
	1	2	3	4	5	6	7	8	9	10	11	1	2	3	4	5
												1	2			

TOC	2		1							1	3	2	1
Attainment	.65		.69							.23	.66	.65	

BBA 4.3	<b>Financial management</b>
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CO-1	Gain a solid understanding of the fundamental concepts and principles of finance.
CO-2	Learn to analyse and interpret financial statements to assess the financial health of a business.
CO-3	Understand the relationship between risk and return in investment decisions.
CO-4	Master the concept of time value of money, including present value and future value calculations.
CO-5	Understand the concept of working capital and its significance in financial management.

CO	Course Outcome	Knowledge category ( <i>Factual/ Conceptual/ Procedural/ Metacognitive</i> )	Cognitive Level as per (Blooms Taxonomy)	No. of hours	POs/PSOs
CO1	Gain a solid understanding of the fundamental concepts and principles of finance.	Conceptual	Understand and Remember	8	PO1,PO4 PSO1,PSO4
CO2	Learn to analyse and interpret financial statements to assess the financial health of a business..	Procedural	Understand And Apply	8	PO1,PO4, PSO3
CO3	Understand the relationship between risk and return in investment decisions.	Procedural	Understand And Evaluate	14	PO1,PO3,PO 4,PSO3
CO4	Master the concept of time value of money, including present value and future value calculations	Procedural	Understand And Evaluate	14	PO1,PO2,PO 4,PSO4
CO5	Evaluate working capital effectiveness in an organization	Conceptual	Understand and Remember	12	PO1,PO3,PO 4,PSO3

## CO Attainment

### Direct Attainment of COs Assessment Plan for CIE

CO	A1 (10)	A2 (10)	T1 (10)	T2 (10)
CO1	5	0	5	0
CO2	5	0	5	0
CO3	0	3	0	4
CO4	0	5	0	3
CO5	0	2	0	3

### Attainment of COs from CIE

#### Class average in CIE (As Calculated)

CO	A1 Cl. Ave (10)	A2 Cl. Ave (10)	T1 Cl. Ave (10)	T2 Cl. Ave (10)	CIE Class Average (%)
CO1	4.75	0	4.75	0	95
CO2	4.3	0	4.3	0	90
CO3	0	2.6	0	3.4	85
CO4	0	4	0	2.4	80
CO5	0	1.6	0	2.4	80

### Attainment of COs from SEE

CO	Class Average in SEE
CO1	58
CO2	58
CO3	58
CO4	58
CO5	58

**Computation of CO Direct Attainment in the course:**

CO	CIE Cl. Ave	SEE Cl. Ave	Direct CO Attainment $0.4 * \text{CIE Cl. Ave} + 0.6 * \text{SEE Cl. Ave}$
CO1	95	58	73
CO2	90	58	71
CO3	85	58	69
CO4	80	58	67
CO5	80	58	67

**Targets:** Targets are set for each CO of a course separately as (Based on complexity of unit) tough less target, easy give more %, can't go beyond 80%.

CO	Target (Class Average)
CO1	72
CO2	72

CO3	70
CO4	69
CO5	67

### CO Attainment Gap

CO	CO Attainment	Target (Class Average)	CO attainment Gap <b>CA-COA</b>
CO1	73	72	-1
CO2	71	72	1
CO3	69	70	1
CO4	67	69	2
CO5	67	67	0

### Closure of the Quality Loop for COs:

	Target	CO Attainment gap (%)	Action proposed to bridge the gap	Modification of target where achieved
CO1	95	-1		97
CO2	90	1	More Assignment, P.yrs QP	
CO3	85	1	More Assignment, P.yrs QP	
CO4	80	2	More Assignment, P.yrs QP, Remedial	

CO5	80	0		84
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### CO-PO/PSO Mappings

CO	POs/PSOs	Class Sessions
CO1	PO1,PO4 PSO1,PSO4	8
CO2	PO1,PO4, PSO3	8
CO3	PO1,PO3,PO4,PSO3	14
CO4	PO1,PO2,PO4,PSO4	14
CO5	PO1,PO3,PO4,PSO3	12
		Total Hrs 56

### Course – PO/PSO Mapping Strength Either 0,1,2,3(100%-3,40+ 100 -2, below 40%-1

Percentage of Sessions devoted to each PO/PSO	Mapping Strength
How many times PSO/PO repeated multiplied by in each class sessions- no of hours allotted /Total hours	
56 out of 56 (100%)devoted to PO1	3
14 out of 56 (100%)devoted to PO2	1
26 out of 56 (100%)devoted to PO3	2
56 out of 56 (100%)devoted to PO4	3
08 out of 56 (100%)devoted to PSO1	1



34 out of 56 (100%)devoted to PSO3	2
20 out of 56 (100%)devoted to PSO4	1

**Course-POs/PSO Mapping as per previous table PO/PSO and its strength to be mentioned**

Course	POs												PSOs				
	1	2	3	4	5	6	7	8	9	10	11	12	1	2	3	4	5
FM	3	1	2	3	-	-	-	-	-	-	-	-	1	-	2	1	-

**CO Attainment and POs/PSOs**

CO	POs	CO Attainment (%)
CO1	PO1,PO4 ,PSO1,PSO4	73
CO2	PO1,PO4, PSO3	71
CO3	PO1,PO3,PO4,PSO3	69
CO4	PO1,PO2,PO4,PSO4	67
CO5	PO1,PO3,PO4,PSO3	67

**PO and PSO Attainment**

Attainment of PO/PSO = (Average of attainments of relevant COs) x Scale Factor

Scale Factor = (Actual Mapping Strength / Maximum Possible Mapping Strength)

= Actual Mapping Strength / 3

PO/PSO	Attainment (%)
PO1	69
PO2	22
PO3	45
PO4	69
PSO1	24
PSO3	46
PSO4	22

### Attainment of POs and PSOs

Course	POs												PSOs				
	1	2	3	4	5	6	7	8	9	10	11	12	1	2	3	4	5
TOC	3	1	2	3	-	-	-	-	-	-	-	-	1	-	2	1	-
Attainment	.69	.22	.45	.69	-	-	-	-	-	-	-	-	.24	-	.46	.22	-

Attainment is based on (The above row is based on) previous table calculation