

Outcome Based Education (OBE) Manual (R18)



Department of Master of Business Administration

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OVERVIEW

Outcome Based Education (OBE) is an educational model that forms the base of a quality education system. There is no single specified style of teaching or assessment in OBE. All educational activities carried out in OBE should help the students to achieve the set goals. The faculty may adapt the role of instructor, trainer, facilitator, and/or mentor, based on the outcomes targeted.

OBE enhances the traditional methods and focuses on what the Institute provides to students. It shows the success by making or demonstrating outcomes using statements" able to do" in favour of students. OBE provides clear standards for observable and measurable outcomes.

National Board of Accreditation (NBA) is an authorised body for the accreditation of higher education institutions in India. NBA is also a full member of the Washington Accord. NBA accredited programmes and not the institutions.

Higher Education Institutions are classified into two categories by NBA

Tier – **1:** Institutions consists of all IITs, NITs, Central Universities, State Universities and Autonomous Institutions. Tier - 1 institutions can also claim the benefits as per the Washington Accord.

Tier - 2 Institutions consists of affiliated colleges of universities.

What is Outcome Based Education (OBE)?

Institutions adopting OBE try to bring changes to the curriculum by dynamically adapting to the requirements of the different stakeholders like Students, Parents, Industry Personnel and Recruiters.OBE is all about feedback and outcomes.

Four levels of outcomes from OBE are:

- 1. Program Educational Objectives (PEOs)
- 2. Program Outcomes (POs)
- 3. Course Outcomes (COs)

Why OBE?

- 1. International recognition and global employment opportunities.
- 2. More employable and innovative graduates with professional and soft skills, social responsibility and ethics.
- 3. Better visibility and reputation of the technical institution among stakeholders.
- 4. Improving the commitment and involvement of all the stakeholders.
- 5. Enabling graduates to excel in their profession and accomplish greater heights in their careers.

6. Preparing graduates for the leadership positions and challenging them and making them aware of the opportunities in the technology development.

Benefits of OBE

Clarity: The focus on outcome creates a clear expectation of what needs to be accomplished by the end of the course.

Flexibility: With a clear sense of what needs to be accomplished, instructors will be able to structure their lessons around the students' needs.

Comparison: OBE can be compared across the individual, class, batch, program and institute levels.

Involvement: Students are expected to do their own learning. Increased student's involvement allows them to feel responsible for their own learning, and they should learn more through this individual learning.

- · Teaching will become a far more creative and innovative career
- Faculty members will no longer feel the pressure of having to be the "source of all knowledge".
- Faculty members shape the thinking and vision of students towards a course.

India, OBE and Accreditation:

From 13 June 2014, India has become the permanent signatory member of the Washington Accord. Implementation of OBE in higher technical education also started in India. The National Assessment and Accreditation Council (NAAC) and National Board of Accreditation (NBA) are the autonomous bodies for promoting global quality standards for technical education in India. NBA has started accrediting only the programs running with OBE from 2013.

The National Board of Accreditation mandates establishing a culture of outcome-based education in institutions that offer Engineering, Pharmacy, Management program. Reports of outcome analysis help to find gaps and carryout continuous improvements in the education system of an Institute, which is very essential.

1 Vision, Mission, Quality Policy, Philosophy & Core Values

Vision

To bring forth professionally competent and socially sensible engineers, capable of working across cultures meeting the global standards ethically.

Mission

To provide students with an extensive and exceptional education that prepares them to excel in their profession, guided by dynamic intellectual community and be able to face the technically complex world with creative leadership qualities.

Further, be instrumental in emanating new knowledge through innovative research that emboldens entrepreneurship and economic development for the benefit of wide spread community.

Quality Policy

Our policy is to nurture and build diligent and dedicated community of engineers providing a professional and unprejudiced environment, thus justifying the purpose of teaching and satisfying the stake holders.

A team of well qualified and experienced professionals ensure quality education with its practical application in all areas of the Institute.

Philosophy

The essence of learning lies in pursuing the truth that liberates one from the darkness of ignorance and Institute of Aeronautical Engineering firmly believes that education is for liberation.

Contained therein is the notion that management education includes all fields of administration that plays a pivotal role in the development of world-wide community contributing to the progress of civilization. This institute, adhering to the above understanding, is committed to the development of science and technology in congruence with the natural environs. It lays great emphasis on intensive research and education that blends professional skills and high moral standards with a sense of individuality and humanity. We thus promote ties with local communities and encourage transnational interactions in order to be socially accountable. This accelerates the process of transfiguring the students into complete human beings making the learning process relevant to life, instilling inthem a sense of courtesy and responsibility.

Core Values

Excellence: All activities are conducted according to the highest international standards.

Integrity: Adheres to the principles of honesty, trustworthiness, reliability, transparency and accountability.

Inclusiveness: To show respect for ethics, cultural and religious diversity and freedom of thought.

Social Responsibility: Promotes community engagement, environmental sustainability, and global citizenship. It also promotes awareness of, and support for, the needs and challenges of the local and global communities.

Innovation: Supports creative activities that approach challenges and issues from multiple perspectives in order to find solutions and advance knowledge.

2 Program Educational Objectives (PEOs)

Program Educational Objectives (PEOs) should be defined by the Head of the Department in consultation with the faculty members. PEOs are a promise by the department to the aspiring students about what they will achieve once they join the programme. PEO assessment is not made compulsory by NBA as it is quite difficult to measure in Indian context. NBA assessors usually do not ask for PEO assessment. PEOs are about professional and career accomplishment after 4 to 5 years of graduation. PEOs can be written from different perspectives like Career, Professional Competency and Behaviour. While writing the PEOs do not use the technical terms asit will be read by prospective students who wants to join the programme. Three to five PEOs are recommended.

Program Educational Objective – I: Managerial Skills:

To impart adequate knowledge of management theories and concepts to enhance research and learning for continuous growth and development.

Program Educational Objective – II: Professional Effectiveness and Contribution to Society:

To provide the learners with exposure to solve business situations using management tools, to analyze and create newer opportunities in industry.

Program Educational Objective – III: Professional Education:

To achieve appropriate communication skills and higher levels of proficiency for successful career in Industry, Business and Entrepreneurship.

Program Educational Objective – IV: Exercising Leadership:

To demonstrate the ability to maintain knowledge of emerging technologies to address the critical needs of the seamless strategic business operations.

With a view to challenge ourselves and to nurture diverse capabilities for professional and intellectual growth for our students it is important for the department to define departmental objectives in generalized and broad format. Adherence to these objectives is proposed to be demonstrated through actions or achievements.

The department of Master of Business Administration periodically reviews these objectives and as part of this review process, encourages comments from all interested parties including current students, alumni, prospective students, faculty, teaching assistants and members of related professional organizations, and colleagues from other educational institutions.

2.1 Mapping of program educational objectives to program outcomes:

PEO-I	PEO-II	PEO-III	PEO-IV
PO1 and PO3	PO2 and PO5	PO4 and PO6	PO7 and PO8

The following Figure 1 shows the correlation between the PEOs and the POs

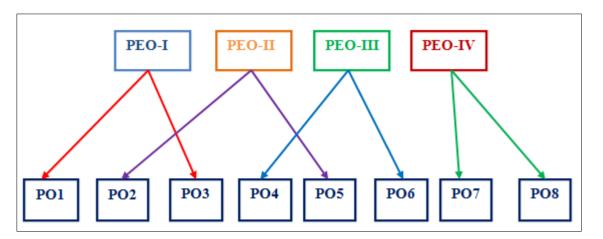


FIGURE 1: Correlation between the PEOs and the POs

3 Program Outcomes (POs)

A Program Outcome is broad in scope and be able to do at the end of the programme. POs are to be in line with the post graduate attributes as specified in the Washington Accord. POsare to be specific, measurable and achievable. NBA has defined 5 POs which is common for all the institutions in India and department added 3 additional POs. In the syllabus book given to students, there should be clear mention of course objectives and course outcomes for all the courses.

	MBA - PROGRAM OUTCOMES (PO's)					
A post g	graduate of the Master of Business Administration Program will demonstrate:					
PO1	PO1 Managerial Skills: Apply knowledge of management theories and practices to solve business problems					
PO2	Decision-making Skills: Foster Analytical and critical thinking abilities for data-based decision making					
PO3	Ethics: Ability to develop Value based Leadership ability					
PO4	Communication Skills: Ability to understand, analyze and communicate global, economic, legal, and ethical aspects of business					
PO5	Leadership Skills: Ability to lead themselves and others in the achievement of organizational goals, contributing effectively to team environment					

PO6	Entrepreneurial Skills: Ability to demonstrate the skills and evaluate issues			
	related to entrepreneurship and to develop as entrepreneurs			
PO7	Strategic analysis: Ability to conduct strategic analysis using theoretical and			
	practical applications			
PO8	Technology Skills: Inculcate and develop technical skills to face the competitive			
	world successfully career paths, to be an entrepreneur, and a zest for higher studies.			

4 Relation between the Program Educational Objectives and the POs

Broad relationship between the program objectives and the program outcomes is given in the following Table below:

		(1)	(2)	(3)	(4)
	PEO's→ ↓ PO's	Manageri al Skills	Professional Effectiveness And Contribution to Society	Professio nal Educatio n	Exercising Leadership
PO1	Managerial Skills: Apply knowledge of management theories and practices to solve business problems	3			
PO2	Decision-making Skills: Foster Analytical and critical thinking abilities for data-based decision making		3		
PO3	Ethics: Ability to develop Value based Leadership ability	2			
PO4	CommunicationSkills:Abilitytounderstand,analyzeandcommunicateglobal,economic,legal,andethicalaspectsofbusiness			3	

PO5	Leadership Skills: Ability			
	to lead themselves and			
	others in the achievement	3		
	of organizational goals,			
	contributing effectively to			
	team environment			
PO6	Entrepreneurial Skills:			
	Ability to demonstrate the			
	skills and evaluate issues		3	
	related to entrepreneurship		5	
	and to develop as			
	entrepreneurs			
PO7	Strategic analysis:			
	Ability to conduct			
	strategic analysis using			3
	theoretical and practical			
	applications			
PO8	Technology Skills:			
	Inculcate and develop			
	technical skills to face the			
	competitive world			3
	successfully career paths,			
	to be an entrepreneur, and			
	a zest for higher studies.			

Relationship between Program Outcomes and Program Educational Objectives

Key: 3 = High; 2 = Medium; 1= Low

Note:

- The assessment process of POs can be direct or indirect.
- The direct assessment will be done through interim assessment by conducting continuous internal exam and semester end exams.
- The indirect assessment on the other hand could be done through student's programme exit questionnaire, alumni survey and employment survey.

5 Blooms Taxonomy

Bloom's taxonomy is considered as the global language for education. Bloom's Taxonomy is frequently used by teachers in writing the course outcomes as it provides a readymade structure and list of action verbs. The stages ascend in complexity and what they demand of students. First

students need to simply remember information provided to them — but reciting something doesn't demonstrate having learned it, only memorization. With understanding comes the ability to explain the ideas and concepts to others. The students are then challenged to apply the information and use it in new ways, helping to gain a deeper understanding of previously covered material and demonstrating it moving forward. Questioning information is a vital part of learning, and both analysis and evaluation do just this. Analysing asks a student to examine the information in a new way, and evaluation demands the student appraise the material in a way that lets them defend or argue against it as they determine. The final step in the revised taxonomy is creating, which entails a developing new product or point of view. How does this learned information impact your world? How can it be used to impact not just your education but the way you interact with your surroundings? By utilizing Bloom's Taxonomy, students are not going to forget the information as soon as the class ends - rather, they retain and apply the information as they continue to grow as a student and in their careers, staying one step ahead of the competition.

5.1 Incorporating Critical Thinking Skills into Course Outcome Statements

Many faculty members choose to incorporate words that reflect critical or higher-order thinking into their learning outcome statements. Bloom (1956) developed a taxonomy outlining the different types of thinking skills people use in the learning process. Bloom argued that people use different levels of thinking skills to process different types of information and situations. Some of these are basic cognitive skills (such as memorization) while others are complex skills (such as creating new ways to apply information). These skills are often referred to as critical thinkingskills or higher-order thinking skills.

Bloom proposed the following taxonomy of thinking skills. All levels of Bloom's taxonomy of thinking skills can be incorporated into expected learning outcome statements. Recently, Anderson and Krathwohl (2001) adapted Bloom's model to include language that is oriented towards the language used in expected learning outcome statements. A summary of Anderson and Krathwohl's revised version of Bloom's taxonomy of critical thinking is provided in Figure 2.

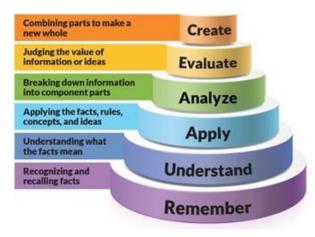


FIGURE 2: Revised version of Bloom's taxonomy

5.2 Definitions of the different levels of thinking skills in Bloom's taxonomy:

- 1. **Remember** –recalling relevant terminology, specific facts, or different procedures related to information and/or course topics. At this level, a student can remember something, but may not really understand it.
- 2. **Understand** –the ability to grasp the meaning of information (facts, definitions, concepts, etc.) that has been presented.
- 3. **Apply** –being able to use previously learned information in different situations or in problem solving.
- 4. **Analyze** –the ability to break information down into its component parts. Analysis also refers to the process of examining information in order to make conclusions regarding cause and effect, interpreting motives, making inferences, or finding evidence to support statements/arguments.
- 5. **Evaluate** –being able to judge the value of information and/or sources of information based on personal values or opinions.
- 6. **Create** –the ability to creatively or uniquely apply prior knowledge and/or skills to produce new and original thoughts, ideas, processes, etc. At this level, students are involved in creating their own thoughts and ideas.

5.3 List of Action Words Related to Critical Thinking Skills

Here is a list of action words that can be used when creating the expected student learning outcomes related to critical thinking skills in a course. These terms are organized according to the different levels of higher-order thinking skills contained in Anderson and Krathwohl's (2001) revised version of Bloom's taxonomy.

Here is the revised Bloom's document with action verbs, which we frequently refer to while writing COs for our courses.

Lower Order of Thinking (LOT)			Higher Order of Thinking (HOT)		
Remember	Understand	Apply	Analyse	Evaluate	Create
Interpreting	Recognizing	Executing	Differentiating	Checking	Planning
Illustrating	(identifying)	Implementing	Organizing	(coordinating,	Generating
Classifying	Recalling		Attributing	detecting,	Producing
Summarizing	(retrieving)			testing,	(constructing)
Inferring				monitoring)	
(concluding)				Critiquing	
comparing				(judging)	
explaining					

The cognitive process dimensions- categories:

The Knowledge Dimension							
	Concrete Knowledge→Abstract knowledge						
Factual	Conceptual	Procedural	Metacognitive				
 Knowledge of terminologies Knowledge of specific details and elements 	 Knowledge of classifications and categories Knowledge of principles and generalizations Knowledge of theories, models andstructures 	 Knowledge of subject specific skillsand algorithms Knowledge of subject specific techniques and methods Knowledge of criteria for determining when to use appropriate procedures 	 Strategic Knowledge Knowledge about cognitive task, including appropriate contextual and conditional Knowledge Self-Knowledge 				

	Lower Order of Thinking (LOT)				Higher Order of Thinking (HOT)		
Definitions	Remember	Understand	Apply	Analyse	Evaluate	Create	
Bloom's Definition	Exhibit memory of previously learned material by recalling facts, terms, basic concepts, and answers.	Demonstrate understanding of facts and ideas by organizing, comparing, translating, interpreting, giving descriptions, and stating main ideas.	Solve problems to new situations by applying acquired knowledge, facts, techniques and rules in a different way.	Examine and break information into parts by identifying motives or causes. Make inferences and find evidence to support generalizations.	Present and defend opinions by making judgments about information, validity of ideas, or quality of work based on a set of criteria.	Compile information together in a different way by combining elements in a new pattern or proposing alternative solution.	
Verbs							
	 Choose Define Find How Label List Match Extend 	 Classify Compare Contrast Demonstrate Explain Illustrate Infer Interpret 	 Apply Build Choose Construct Develop Interview Make use of Model 	 Analyze Assume Categorize Classify Compare Discover Dissect Distinguish 	 Agree Appraise Assess Award Choose Criticize Decide Deduct Importance 	 Adapt Build Solve Choose Combine Invent Compile Compose Construct 	

Action Verbs for Course Outcomes

	Lower Order of Thinking (LOT)				gher Order of Think	ting (HOT)
Definitions	Remember	Understand	Apply	Analyse	Evaluate	Create
Verbs						
	• Name	• Outline	Organize	• Divide	• Defend	• Create
	• Omit	• Relate	• Plan	• Examine	• Determine	• Design
	• Recall	• Rephrase	• Select	• Function	• Disprove	• Develop
	• Relate	• Show	• Solve	• Inference	• Estimate	• Estimate
	• Select	• Summarize	• Utilize	• Inspect	• Evaluate	• Formulate
	• Show	• Translate	• Identify	• List Motive	• Influence	• Happen
	• Spell	• Experiment with	• Interview	• Simplify	• Interpret	• Imagine
	• Tell	• Illustrate	• Make use of	• Survey	• Judge	• Improve
	• What	• Infer	• Model	• Take part in	Justify Mark	• Make up
	• When	• Interpret	• Organize	• Test for Theme	• Measure	• Maximize
	• Where	• Outline	• Plan	Conclusion	Opinion	• Minimize
	• Which	• Relate	• Select	Contrast	Perceive	• Modify
	• Who	• Rephrase	• Solve		Prioritize	• Original
	• Why	• Show	• Utilize		• Prove	• Originate
		• Summarize	• Identify		• Criteria	• Plan
		• Translate			Criticize	• Predict
		• Experiment with			Compare	• Propose
					Conclude	• Solution

Action Verbs for Course Outcomes

6 Guidelines for writing Course Outcome Statements:

Well-written course outcomes involve the following parts:

- 1. Action verb
- 2. Subject content
- 3. Level of achievement as per BTL
- 4. Modes of performing task (if applicable)

6.1 Course Outcomes (COs)

A Course Outcome is a formal statement of what students are expected to learn in a course. When creating Course Outcomes remember that the outcomes should clearly state what students will do or produce to determine and/or demonstrate their learning. Course learning outcome statements refer to specific knowledge, practical skills, areas of professional development, attitudes, higher-order thinking skills, etc. that faculty members expect students to develop, learn, or master during a course.

A well-formulated set of Course Outcomes will describe what a faculty member hopes to successfully accomplish in offering their particular course(s) to prospective students, or what specificskills, competencies, and knowledge the faculty member believes that students will have attained once the course is completed. The learning outcomes need to be concise descriptions of what learning is expected to take place by course completion.

6.2 Developing Course Outcomes

When creating course outcomes consider the following guidelines will helps to develop either individually or as part of a multi-section group:

- Limit the course outcomes to 6 statements for the entire course [more detailed outcomescan be developed for individual units, assignments, chapters, etc. if the instructor(s) wish (es)].
- Focus on overarching knowledge and/or skills rather than small or trivial details
- Focus on knowledge and skills that are central to the course topic and/or discipline.
- Create statements that have a student focus rather than an instructor centric approach (basic e.g., "upon completion of this course students will be able to list the names of the 28 states and 8 union territories" versus "one objective of this course is to teach the names of the 28 states and 8 union territories").
- Focus on the learning that results from the course rather than describing activities or lessons that are in the course.
- Incorporate and/or reflect the institutional and departmental missions.
- Include various ways for students to show success (outlining, describing, modelling,

depicting, etc.) rather than using a single statement such as "at the end of the course, students willknow_" as the stem for each expected outcome statement.

When developing learning outcomes, here are the core questions to satisfy:

- What do we want students in the course to learn?
- What do we want the students to be able to do?
- Are the outcomes observable, measurable and are they able to be performed by the students?

Course outcome statements on the course level describe:

- What faculty members want students to know at the end of the course AND
- What faculty members want students to be able to do at the end of the course?

Course outcomes have three major characteristics

- They specify an action by the students/learners that is observable
- They specify an action by the students/learners that is measurable
- They specify an action that is done by the students/learners rather than the faculty members

Effectively developed expected learning outcome statements should possess all three of these characteristics. When this is done, the expected learning outcomes for a course are designed so that they can be assessed. When stating expected learning outcomes, it is important to use verbs that describe exactly what the student(s) / learner(s) will be able to do upon completion of the course.

6.3 Relationship of Course Outcome to Program Outcome

The Course Outcomes need to link to the Program Outcomes.

6	
Learning outcomes formula:	
STUDENTS SHOULD BE ABLE TO + BEHAVIOR + RESULTING EVIDENCE	

For example, instructor can use the following template to write an appropriate course level learning outcome.

"Upon completion of this course students will be able to (knowledge, concept, rule or skill you expect them to acquire) by (how will they apply the knowledge or skill/how will the instructor assess the learning)."

6.4 Characteristics of Effective Course Outcomes

Well written course outcomes:

- Describe what instructor wants from students to learn in the course.
- Are aligned with program goals and objectives.

- Tell how to know an instructional goal has been achieved.
- Use action words that specify definite, observable behaviours.
- Are assessable through one or more indicators (papers, quizzes, projects, presentations, journals, portfolios, etc.)
- Are realistic and achievable.
- Use simple language

6.5 Examples of Effective Course Outcomes

After successful completion of the course, Students will be able to:

- Demonstrate the basic concepts and levels of management to make better organizational decisions.
- Illustrate the significance of pre and final accounts and causes of depreciation on fixed assets to measure its impact on business accounting.
- Discuss various forms of production functions to know its affects in the cost of production.
- Discuss about company and companies acts that helps to initiate enterprises.
- Facilitate a group to achieve agreed-upon goals.
- Determine and apply the appropriate statistical procedures to analyze the results of simple experiments.
- Recognize the significance, limitations, origin and different branches of statistics for better managerial analysis.
- Produce a strategic plan for a small manufacturing business.
- Analyse a character's motivation and portray that character before an audience.
- Differentiate among five major approaches to literary analysis
- List the major ethical issues one must consider when planning a human-subjects study.
- Locate and critically evaluate information on current political issues on the Web.
- List and describe the functions of the major components of the human nervous system.
- · Correctly classify rock samples found in...
- Conduct a systems analysis of a group interaction.
- Demonstrate active listening skills when interviewing clients.
- Apply social psychological principles to suggest solutions to contemporary social problems.

A more detailed model for stating learning objectives requires that objectives have three parts: a condition, an observable behaviour, and a standard. The table below provides three examples.

S No	Condition	Observable Behaviour	Standard
1	Given a list of management decisions	5	with at least 70% ac- curacy

S No	Condition	Observable Behaviour	Standard	
2	Immediately following a fifteen- minute discussion on a topic.	The student will be able to summarize in writing the major issues being discussed.	Mentioning at least three of the five major topics.	
3	Given an algebraic equation with one unknown.	the student will be able to correctly solve a simple linear equation	Within a period of five minutes.	

The following examples describe a course outcome that is not measurable as written, an explanation for why the course outcome is not considered measurable, and a suggested edit that improves the course outcome

Original course out- come	Evaluation of language used in this course outcome	Improved course outcome
Explore in depth the literature on an aspect of teaching strategies.	Exploration is not a measurable activity but the quality of the product of exploration would be measurable with a suitable rubric.	Upon completion of this course the students will be able to: write a paper based on an in- depth exploration of the literature on an aspect of teaching strategies.

Examples that are TOO general and VERY HARD to measure...

- ... Will appreciate the benefits of learning a foreign language.
- ... Will be able to access resources at the Institute library.
- ... Will develop problem-solving skills.
- ... Will have more confidence in their knowledge of the subject matter. Examples that are still general and HARD to measure...
- ... Will value knowing a second language as a communication tool.
- ... Will develop and apply effective problem-solving skills that will enable one to adequatelynavigate through the proper resources within the institute library.
- ... Will demonstrate the ability to resolve problems that occur in the field.
- ... Will demonstrate critical thinking skills, such as problem solving as it relates to socialissues.

Examples that are SPECIFIC and relatively EASY to measure...

• ... will be able to read and demonstrate good comprehension of text in areas of the student's interest or professional field.

- ... will demonstrate the ability to apply basic research methods in psychology, including research design, data analysis, and interpretation.
- ... will be able to identify environmental problems, evaluate problem-solving strategies, and develop science-based solutions.
- ... will demonstrate the ability to evaluate, integrate, and apply appropriate information from various sources to create cohesive, persuasive arguments, and to propose design concepts.

An Introspection - Examine Your Own Course Outcomes

- If you have written statements of broad course goals, take a look at them. If you do not have a written list of course goals, reflect on your course and list the four to six most important student outcomes you want your course to produce.
- Look over your list and check the one most important student outcome. If you could only achieve one outcome, which one would it be?
- Look for your outcome on the list of key competencies or outcomes society is asking us to produce. Is it there? If not, is the reason a compelling one?
- Check each of your other" most important" outcomes against the list of outcomes. How many are on the list of key competencies?
- Take stock. What can you learn from this exercise about what you are trying to accomplish as a teacher? How clear and how important are your statements of outcomes for your use and for your students'? Are they very specifically worded to avoid misunderstanding? Are they supporting important needs on the part of the students?

Write Your Course Outcomes!

One of the first steps you take in identifying the expected learning outcomes for your course is identifying the purpose of teaching the course. By clarifying and specifying the purpose of the course, you will be able to discover the main topics or themes related to students' learning. Once discovered, these themes will help you to outline the expected learning outcomes for the course. Ask yourself:

- What role does this course play within the program?
- How is the course unique or different from other courses?
- Why should/do students take this course? What essential knowledge or skills should they gain from this experience?
- What knowledge or skills from this course will students need to have mastered to perform well in future classes or jobs?
- Why is this course important for students to take?

6.6 CO-PO Course Articulation Matrix (CAM) Mapping

Course Articulation Matrix shows the educational relationship (Level of Learning achieved) between course outcomes and program outcomes for a course. This matrix strongly indicates whether the students are able to achieve the course learning objectives. The matrix can be used for any course and is a good way to evaluate a course syllabus.

The below table gives information about the action verbs used in the POs and the nature of POs, stating whether the POs are technical or non-technical. Instructor need to understand the intention of each POs and the Bloom's level to which each of these action verbs in the POs correlates to. Once it has understood the POs then can write the COs for a course and see to what extent each of thoseCO's correlate with the POs.

Туре	POs	Action Verb(s) in POs	Bloom's level(s) for POs	Bloom's level(s) for COs	
	PO 1	Apply	L3		
		Identify	L2		
	PO 2	Formulate	L6		
		Review	L2	• Bloom's L1 to L4 for Theory Courses.	
	PO 3	Design	L6		
Professional	103	Develop	L3, L6	Bloom's L1 to L5 for Laboratory	
1 Toressional		Analyze	L4	for Laboratory Courses.	
	PO 4	Interpret	L2, L3		
		Design	L6	Bloom's L1 to L6 for Mini Project and Main Project.	
		Create	L6	with Project and Wath Project.	
	PO 5	Select	L1, L2, L6		
		Apply	L3		
	PO 6	Interpret	L2, L3		
		Select	L1, L2, L6		
	PO 7	Create	L6		
			THUME	B RULE	
Non- Professional	PO 8	 If Bloom's L1 Action Verbs of a CO: Correlates with any of PO8, then assign1. If Bloom's L2 to L3ActionVerbs of a CO: Correlates with any of PO8, then assign 2. If Bloom's L4 to L6 Action Verbs of a CO: Correlates with any of PO8, then assign3. 			

TABLE: Process for mapping the values for CO-PO Matrix

At the end, the POs can be calculated using various descriptors that you may define. The mapping of CO towards a PO is evaluated using descriptors such as High, Medium, Low etc...

Observations:

- 1. The PO1, PO2 and PO5 are purely of knowledge based aspects required for effective managerial decisions.
- 2. The PO3 and PO4 are about the behavioral aspects for sustainable management implications.
- 3. PO6 and PO7 are relates to the explorative actions for the knowledge gained through the program.
- 4. The PO8 is about the skills to develop and succeed in the competitive world.
- 5. The core subjects while writing the Course Outcomes (CO) the Blooms Level 1 to Level4 is suggestible, where as if it is the professional elective, seminar or the laboratory the Blooms Level1 to Level 5 is most preferable.
- 6. In the case of Project work almost all six levels of Blooms can appropriate based on the need and importance of the work.
- 7. For a given course, the course in-charge has to involve all the other course coordinators who taught that course and ask for suggestions in the CO-PO mapping. The course in-charge has to take the average value of all of these CO-PO mappings and finalize the values or the course in-charge can go with what the majority of the faculty members prefer for.
- 8. While mapping the CO with respective PO, the action verbs used in the CO has to correlate with intention of PO based on the thumb rule given in the table and map the values along with justification. (Applies only for mapping COs to non-technical POs).

6.7 Tips for Assigning the values while mapping COs to POs.

- 1. Select action verbs for a CO from different Bloom's levels based on the importance of the particular CO for the given course.
- 2. Stick on to single action verbs while composing COs but you may go for multiple action verbs if the need arises.
- 3. You need to justify for marking of the values in CO-PO articulation matrix. Use a combination of words found in the COs, POs and your course syllabus for writing the justification. Restrict yourself to one or two lines.
- 4. Values to CO-PO (technical POs in particular) matrix can be assigned by
 - (a) Judging the importance of the particular CO in relation to the POs. If the CO matches strongly with a particular PO criterion then assign 3, if it matches moderately then assign 2 or if the match is low then assign 1 else mark with " " symbol.
 - (b) If an action verb used in a CO is repeated at multiple Bloom's levels, then you need to judge which Bloom's level is the best fit for that action verb.

6.8 Method for Articulation

- 1. Identify the key competencies of POs to each CO and make a corresponding mappingtable with assigning mark at the corresponding cell. One observation to be noted is that the first five POs are purely of professional in nature, while the other POs are nonprofessional.
- 2. Justify each CO PO mapping with a justification statement and recognize the number of vital features mentioned in the justification statement that are matching with the given Key Attributes for Assessing Program Outcomes. Use a combination of words found in the COs, POs and your course syllabus for writing the justification.
- 3. Make a table with number of key competencies for CO PO mapping with reference to the maximum given Key Attributes for Assessing Program Outcomes.
- 4. Make a table with percentage of key competencies for CO PO mapping with reference

to the maximum given Key Attributes for Assessing Program Outcomes.

5. Finally, Course Articulation Matrix (CO - PO Mapping) is prepared with COs and POs on the scale of 0 to 3, 0 being no correlation (marked with "-"), 1 being the low/slight correlation, 2 being medium/moderate correlation and 3 being substantial/high correlation based on the following strategy

 $0-0 \le C \le 5\%$ - No correlation. $1-5 < C \le 40\%$ - Low / Slight. 2-40% < C < 60% - Moderate

 $3-60\% \leq C < 100\%$ - Substantial / High

7 Key Competencies for Assessing Program Outcomes:

РО	NBA statement / Vital features	No. of vital
		features
PO1	 Managerial Skills: Apply knowledge of management theories and practices to solve business problems Knowledge, understanding and application of Managerial theories which may be used to achieve managerial objectives within that context Management practices and techniques used to solve the business problems 	2
PO2	 Decision making Skills: Foster Analytical and critical thinking abilities for data-based decision making 1. Strategies and tools used to solve the identified problem 2. Analytical Solutions that are applied or implemented 3. Design processes and Approaches for the complex problems decision making 	3
PO3	 Ethics: Ability to develop value based Leadership ability Comprises four components: ability to make informed ethical choices, knowledge of professional codes of ethics, evaluates the ethical dimensions of professional practice, and demonstrates ethical behavior. Stood up for what they believed in identifying the ethical dilemmas High degree of trust and integrity to solve ethical problems in management work and to make decisions 	3
PO4	 Communication Skills: Ability to understand, analyze and communicate global, economic, legal and ethical aspects of business "Students should demonstrate the ability to communicate effectively in writing / Orally." Communication using in the Organization & Structure (Oral/Writing) Communication in content delivery, written communication& Speaking Skills Communication through personal appearance & rapport with audience 	3

PO5	Leadership Skills: Ability to lead themselves and others in the	5				
105	achievement of organizational goals, contributing effectively to					
	a team environment					
	1. Take Responsibility and Independence in the activities					
	2. Contribution to Team Effort, Work and Maturity – requiring only the					
	achievement of goals to drive their performance					
	 Respect, Civility, Communication and self-direction Ability to work with all levels of people in an organization 					
	 Ability to work with an levels of people in an organization Demonstrated ability to work well with a team 					
PO6	Entrepreneurial Skills: Ability to demonstrate the skills and	3				
100	evaluate issues related to entrepreneurship and to develop as					
	entrepreneurs					
	1. Knowledge of Job Market					
	2. Planning Budget, Insurance, & Investment					
	3. Ability to Engage in Conversation about Political, Economic,					
	National, Regional, and international events					
PO7	Strategic Analysis: Ability to conduct strategic analysis using	4				
	theoretical and practical applications					
	1. Understanding of Impact of management Solutions in Global and					
	Societal Context					
	2. Familiarity with Applications of management Tools, Methods &					
	Techniques in Global and Societal Context					
	3. Breadth and Depth of the Impact of Management Solutions in Global and					
	Societal Context4. Understanding of management principles and the ability to apply them to					
	analyze key professional processes					
PO8	Technology Skills: Inculcate and develop technical skills to face	2				
	the competitive world successfully					
	1. Adoption and usage level of technology in classroom					
	2. Technology scope and sequence in place to fulfill Educational Technology Standards					
L	Sundards					

8 Program Outcomes Attained throughcourse modules:

Courses offered in Master of Business Administration Curriculum (IARE-R18) and POs attained through course modules for I, II, III, and IV semesters.

Code	Subject	РО							
		1	2	3	4	5	6	7	8
CMBB01	Management and Organizational Behaviour	~		~		~	~	~	
CMBB02	Accounting for Management	\checkmark	\checkmark	\checkmark	\checkmark			~	
CMBB03	Managerial Economics	\checkmark	\checkmark	~	\checkmark	~			
CMBB04	Business Law and Ethics		~	~	~	~			
CMBB05	Statistics for Management	~	~		~		~		
CMBB06	Management of Technology	~			~			~	

CMBB07	Intellectual Property Rights							~	\checkmark
CMBB13	IT for Managers Laboratory				~	 			
CMBB14	Business Communication and Soft Skills Seminar					~			
CMBB15	Human Resource Management	\checkmark	\checkmark	\checkmark		 		\checkmark	
CMBB16	Production and Operations Management		\checkmark				~	~	
CMBB17	Financial Management	\checkmark	\checkmark				\checkmark	\checkmark	
CMBB18	Management Information Systems and ERP	~	~			~			~
CMBB19	Marketing Management		~	~		~	~	>	
CMBB20	Strategy and Sustainable Enterprise	~	 					~	
CMBB24	Disaster Management								
CMBB27	Industry Analysis and Report Writing Seminar				<	 			~
CMBB28	Personal Effectiveness Seminar	\checkmark	\checkmark	\checkmark		\checkmark	\checkmark	\checkmark	
CMBB29	Quantitative Analysis for Business Decisions	~	~				~	~	
CMBB34	Security Analysis and Portfolio Management	~	 				~	~	
CMBB35	Strategic Management Accounting	~	 					~	
CMBB36	Financial Services and Systems							\checkmark	
CMBB37	Banking, Insurance and Risk Management								~
CMBB38	Recruitment and Selection	 Image: A start of the start of	 		~	 			
CMBB39	Training and Development	\checkmark	\checkmark		\checkmark	\checkmark	\checkmark	\checkmark	
CMBB40	Strategic Human Resource Management	<	 			 		 Image: A start of the start of	
CMBB41	Management of Industrial Relations	~	~			~			
CMBB50	Summer Internship (Field work) and Seminar	~		~			~	~	
CMBB51	Pre Submission Viva of Main Project	~		~					
CMBB56	Strategic Investment and Financial Decisions	~					~	~	
CMBB57	International Financial Management	 	 					~	
CMBB58	Financial Derivatives	\checkmark					\checkmark		
CMBB59	Foreign Trade	 	\checkmark		\checkmark			 	
			· · ·					· · ·	•

CMBB60	Compensation and Reward Management	\checkmark							~
CMBB61	Talent and Knowledge Management	~							
CMBB62	Leadership and Change Management								~
CMBB63	Performance Management				~	~			~
CMBB72	Success Story of an Entrepreneur Seminar	 	 	 	~	~	 	 	
CMBB73	Comprehensive Subject Viva Voce								
CMBB74	Main Project Viva Voce			\checkmark	\checkmark		\checkmark		

9 Methods for measuring Learning Outcomes and Value Addition:

There are many different ways to assess student learning. In this section, we present the different types of assessment approaches available and the different frame works to interpret the results.

- i) Continuous Internal Assessment (CIA)
- ii) Alternate Assessment Tools (AAT)
- iii) Semester end examination (SEE)
- iv) Laboratory and project work
- v) Course exit survey
- vi) Program exit survey
- vii) Alumni survey
- viii) Employer survey
- ix) Course expert committee
- x) Program Assessment and Quality Improvement Committee (PAQIC)
- xi) Department Advisory Board (DAB)
- xii) Faculty meetings
- xiii) Professional societies

The above assessment indicators are detailed below.

9.1 Continuous Internal Assessment (CIA)

Two Continuous Internal Examinations (CIEs) assessments are conducted for all courses by the department. All students must participate in this evaluation process. These evaluations are critically reviewed by HOD and senior faculty and the essence is communicated to the faculty concerned to analyze, improve and practice so as to improve the performance of the student.

9.2 Alternate Assessment Tools (AAT)

This AAT enables faculty to design own assessment patterns during the CIA. The AAT converts the classroom into an effective learning center. The AAT may include seminars, assignments, term paper, open ended experiments, five minutes video and MOOCs etc.

9.3 Semester End Examination (SEE)

The semester end examination assessment is conducted for all the courses in the department. Before the Semester end examinations course reviews are conducted, feedback taken from students and remedial measures will be taken up such that the student gets benefited before going for end exams. The positive and negative comments made by the students about the course are recorded and submitted to the departmental academic board (DAB) and to the principal for taking necessary actions to better the course for subsequent semesters.

9.4 Laboratory, seminars and Project Works

The laboratory and seminars works are continuously monitored and assessed to suit the present demands of the industry. Students are advised and guided to do project works giving solutions to research / industrial problems to the extent possible by the capabilities and limitations of the student. The results of the assessment of the individual projects and laboratory work can easily be conflated in order to provide the students with periodic reviews of their overall progress and to produce terminal marks and grading.

9.5 Course Exit Surveys

Students are encouraged to fill-out a brief survey on the fulfillment of course objectives. The data is reviewed by the concerned course faculty and the results are kept open for the entire faculty. Based on this, alterations or changes to the course objectives are undertaken by thorough discussions in faculty and DAB meetings.

9.6 **Programme Exit Survey**

The programme exist questionnaire form is to be filled by all the students leaving the institution. The questionnaire is designed in such a way to gather information from the students regarding the program educational objectives, solicit about program experiences, carrier choices, as well as any suggestions and comments for the improvement of the program. The opinions expressed in exit interview forms are reviewed by the DAB for implementation purposes.

9.7 Alumni Survey

The survey asks former students of the department about the status of their employment and further education, perceptions of institutional emphasis, estimated gains in knowledge and skills, involvement a sunder graduate student, and continuing involvement with Institute of Aeronautical Engineering. This survey is administered every three years. The data obtained will be analyzed and used in continuous improvement.

9.8 Employer Survey

The main purpose of this employer questionnaire is to know employer's views about the skills they require of employees compared to the skills actually possessed by them. The purpose e is also to identify gaps in technical and vocational skills, need for required training practices to fill these gaps and criteria for hiring new employees. These employer surveys are reviewed by the College Academic Council (CAC) to affect the present curriculum to suit the requirement so the employer.

9.9 Course Expert Committee

The course expert team is responsible in exercising the central domain of expertise in developing and renewing the curriculum and assessing its quality and effectiveness to the highest of professional standards. Inform the Academic Committee the 'day-to-day' matters as are relevant to the offered courses. This committee will consider the student and staff feedback on the efficient and effective development of the relevant courses. The committee also review the course full stack content developed by the respective course coordinator.

9.10 Programme Assessment Committee (PAC) PAC Monitors the achievements of Program Outcomes (POs) and Program Educational Objectives (PEOs). It will evaluate the program effectiveness and proposes the necessary changes. It also prepares the periodic reports on program activities, progress, status or other special reports for management. It also motives the faculty and students towards attending workshops, developing projects, working models, paper publications and engaging inresearch activities.

9.11 Department Advisory Board (DAB)

Departmental Advisory Board plays an important role in the development of the department. Department level Advisory Board will be established for providing guidance and direction for qualitative growth of the department. The Board interacts and maintains liaison with key stakeholders.DAB will Monitor the progress of the program and develop or recommend the new or revised goals and objectives for the program. Also, the DAB will review and analyze the gaps between curriculum and Industry requirement and gives necessary feedback or advices to be taken to improve the curriculum.

9.12 Faculty Meetings

The DAB meets bi-annually for every academic year to review the strategic planning and modification of PEOs. Faculty meetings are conducted at least once in fortnight for ensuring the implementation of DAB's suggestions and guidelines. All these proceedings are recorded and kept for the availability of all faculties.

9.13 **Professional Societies**

The importance of professional societies like HMA,ISTD,IMA etc., are explained to the students and they are encouraged to become members of the above to carry out their continuous search for knowledge. Student and faculty chapters of the above societies are constituted for a better technical and entrepreneurial environment. These professional societies promote excellence

in instruction, research, public service and practice.

10 CO - Assessment processes and tools:

Course outcomes are evaluated based on two approaches namely direct and indirect assessment methods. The direct assessment methods are based on the Continuous Internal Assessment (CIA) and Semester End Examination (SEE) whereas the indirect assessment methods are based on the course end survey and program exit survey provided by the students, Alumni and Employer. The weightage in CO attainment of Direct and Indirect assessments are illustrated in Table.

Assessment Method	Assessment Tool	Weightage in CO attainment
Direct Assessment	Continuous Internal Assessment (CIE & AAT)	80%
	Semester End Examination	
Indirect Assessment	Course End Survey	20%

10.1 Direct Assessment:

Direct assessment methods are based on the student's knowledge and performance in the various assessments and examinations. These assessment methods provide evidence that a student has command over a specific course, content, or skill, or that the students work demonstrates a specific quality such as creativity, analysis, or synthesis.

The various direct assessment tools used to assess the impact of delivery of course content is listed in Table.

- Continuous internal examination, semester end examinations, AAT (includes assignment, 5 minutes videos, seminars etc.) are used for CO calculation.
- The attainment values are calculated for individual courses and are formulated and summed for assessing the POs.
- Performance in AAT is indicative of the student's communication skills.

S No	Courses	Components	Frequency	Max. Marks	Evidence
1	Core / Elective	Continuous Internal Examination	Twice in a semester	25	Answer script
		Alternative Assessment Tools (AAT)	Twice in a semester	5	Video / Quiz / assignment

		Semester End Examination	Once in a semester	70	Answer script
		Conduction of activity	Once in a week	4	Work sheets
		Observation	Once in a week	4	Work sheets
		Record	Once in a week	4	Work sheets
2	Laboratory/Se	Viva	Once in a week	4	Work sheets
	minar	Internal laboratory assessment	Once in a semester	10	Answer script
		Semester End Examination	Once in a semester	70	Answer script
3	Project Work	Presentation	Twice in a semester	30	Presentation
		Semester End Examination	Once in a semester	70	Thesis report
4	Comprehensive Examination	Written examination (objective type)	Once in a semester	100	Online assessment

10.2 Indirect Assessment:

Course End Survey - In this survey, questionnaires are prepared based on the level of understanding of the course and the questions are mapped to Course Outcomes. The tools and processes used in indirect assessment are shown in Table.

TABLE : Tools used	in Indirect assessment
--------------------	------------------------

Tools	Process	Frequency
Course end survey	 Taken for every course at the end of the semester Gives an overall view that helps to assess the extent of coverage/ compliance of COs Helps the faculty to improve upon the various teaching methodologies 	Once in a semester

Direct Tools: (Measurable in terms of marks and w.r.t. CO) Assessment done by faculty at department level

Indirect Tools: (Non measurable (surveys) in terms of marks and w.r.t. CO) Assessment done at institute level.

11 PO - Assessment tools and Processes

The institute has the following methods for assessing attainment of POs.

- 1. Direct method
- 2. Indirect method

The attainment levels of course outcomes help in computing the PO based upon the mapping done.

	Assessment	Tools	Weight
POs	Direct Assessment	CO attainment of courses	80%
Attainment	Indirect Assessment	Student exit survey	
Attainment		Alumni survey	20%
		Employer survey	2070

The CO values of both theory and laboratory courses with appropriate weightage as per CO-PO mapping, as per Program Articulation Matrix are considered for calculation of direct attainment of PO.

11.1 PO Direct Attainment is calculated using the following rubric:

PO Direct Attainment = (Strength of CO-PO)*CO attainment / Sum of CO-PO strength.

The below figure represents the evaluation process of POs attainment through course outcomes attainment

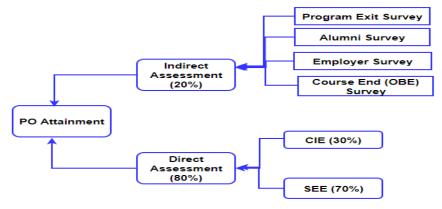


FIGURE 3: Evaluation process of POs attainment

12 Course Description:

The "Course Description" provides general information regarding the topics and content addressed in the course. A sample course description is given in Annexure – A for the reference. **The "Course Description" contains the following contents:**

- Course Overview
- Prerequisite(s)
- Marks Distribution
- · Content delivery / Instructional methodologies
- Evaluation Methodology
- Course Objectives
- Course Outcomes
- Program Outcomes
- How Program Outcomes are assessed
- Mapping of each CO with PO(s)
- Justification for CO PO mapping- direct
- Total count of key competencies for CO PO mapping
- Percentage of key competencies for CO PO
- Course articulation matrix (PO mapping)
- · Assessment methodology-direct
- Assessment methodology-indirect
- Syllabus
- List of Text Books / References / Websites
- Course Plan



INSTITUTE OF AERONAUTICAL ENGINEERING

(Autonomous)

Dundigal, Hyderabad -500 043

DEPARTMENT OF MASTER OF BUSINESS ADMINISTRATION

COURSE DESCRIPTOR

Course Title	BANKING	BANKING, INSURANCE AND RISK MANAGEMENT				
Course Code	CMBB37	CMBB37				
Program	MBA	MBA				
Semester	THREE	THREE				
Course Type	Professional	Professional Elective - IV				
Regulation	IARE - R18	IARE - R18				
		Theory		Prac	tical	
Course Structure	Lectures	Tutorials	Credits	Laboratory	Credits	
	4		4	-	-	
Course Coordinator	Dr. T Vara Lakshmi, Associate Professor, MBA					

I. COURSE OVERVIEW:

The course defines the concept of banking, explains the functions of banks and Indian Commercial banking structure, banking sector reforms, evaluates the performance, narrates the deposit mix, forms of lending, types of advances, describes the formalities in dealing with different types of customers, explains the procedure of lending against different types of securities, discusses the various modes of creation of charges and the recent developments in the field of commercial banking. This course expounds the evolution of insurance, functions, nature and benefits of insurance; enumerates the classification of insurance and types of life and general insurance; exhibits the structure of Indian Insurance Industry; educates the IRDAI Condition, duties, powers and functions; explores the major reforms in the Indian insurance sector, elaborates the basic principles of Insurance and elucidates the Insurance Marketing and its significance; explains the risk and basic elements that empowers with contemporary developments.

II. COURSE PRE-REQUISITES:

Level	Course Code	Semester	Prerequisites
MBA	CMBB17	II	Financial Management

III. MARKSDISTRIBUTION:

Subject	SEE Examination	CIA Examination	Total Marks
Banking, Insurance and Risk Management	70 Marks	30 Marks	100

IV. DELIVERY / INSTRUCTIONAL METHODOLOGIES:

v	•	Chalk & Talk	×	Quiz	~	Assignments	×	MOOCs
v	•	LCD / PPT	~	Seminars	×	Mini Project	>	Videos
	✗ Open Ended Experiments							

V. EVALUATION METHODOLOGY:

The course will be evaluated for a total of 100 marks, with 30 marks for Continuous Internal Assessment (CIA) and 70 marks for Semester End Examination (SEE). Out of 30 marks allotted for CIA during the semester, marks are awarded by taking average of two CIA examinations or the marks scored in the make-up examination.

Semester End Examination (SEE):

The SEE is conducted for 70 marks of 3 hours duration. The syllabus for the theory courses is divided into FIVE modules and each module carries equal weightage in terms of marks distribution. The question paper pattern is as follows. Two full questions with "either" or "choice" will be drawn from each module. Each question carries 14 marks. **There could be a maximum of two sub divisions in a question.**

The expected percentage of cognitive level of the questions is broadly based on the criteria given in Table: 1.

Percentage of Cognitive Level	Blooms Taxonomy Level
0 %	Remember
50 %	Understand
16.66 %	Apply
33.33 %	Analyze
0 %	Evaluate
0 %	Create

Table 1: The expected percentage of cognitive level of questions in SEE.

Continuous Internal Assessment (CIA):

CIA is conducted for a total of 30 marks (Table 2), with 25 marks for Continuous Internal Examination (CIE), 05 marks for Alternative Assessment Tool (AAT).

Table 2: Assessment p	pattern for CIA
-----------------------	-----------------

Component		Theory	Total Marks	
Type of Assessment	CIE Exam	CIE Exam AAT	i otai iviarks	
CIA Marks	25	05	30	

Continuous Internal Examination (CIE):

Two CIE exams shall be conducted at the end of the 8th and 16th week of the semester respectively. The CIE exam is conducted for 25 marks of 2 hours duration consisting of two parts. Part–A shall have five compulsory questions of one mark each. In part–B, four out of five questions have to be answered where, each question carries 5 marks. Marks are awarded by taking average of marks scored in two CIE exams.

Alternative Assessment Tool (AAT):

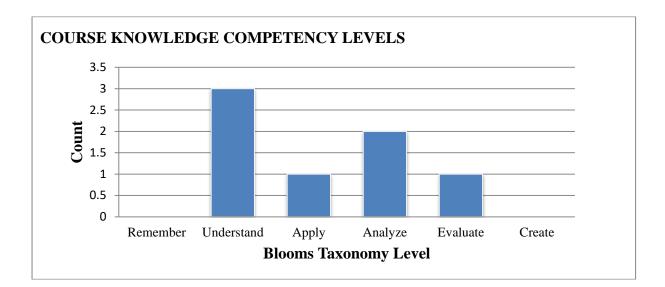
Marks shall be awarded considering the average of two AAT for every course. The AAT may include seminars, assignments, term paper, open ended experiments, five minutes video and MOOCs.

VI. COURSE OBJECTIVES (COs):

The stude	The students will try to learn:			
Ι	Banking business in the country to know the investment avenues of banks in the new dimensions.			
II	Banking sector reforms and regulations to evaluate and minimize deficiencies in Indian banking system.			
III	Business and economics of insurance for changing mindset and implement latest trends in Insurance business.			
IV	Insurance regulatory aspects and reforms of IRDAI.			
V	About risk management aspects in insurance and banking system			

VII. COURSE OUTCOMES (COs):

After succ	After successful completion of the course, students will be able to:				
	Course Outcomes	Knowledge Level (Bloom's Taxonomy)			
CO 1	Demonstrate the Indian banking system and new dimensions in Indian banking services in the real world.	Understand			
CO 2	Analyze the role of commercial banks and its legal aspects, functions and reforms relating banking system.	Understand			
CO 3	Summarize the need, importance, principles and characteristics of insurance to reduce risk.	Analyze			
CO 4	Illustrate products and branches of insurance and the role of agents and brokers.	Analyze			
CO 5	Describe the history, legal framework and latest trends of IRDAI to make contracts relating to insurance.	Understand			
CO 6	Identify the risk along with its related concepts and risk measurement techniques to control risk in business.	Apply			



VIII. HOW PROGRAM OUTCOMES ARE ASSESSED:

	Program Outcomes (POs)	Strength	Proficiency Assessed by
PO 1	Managerial Skills: Apply knowledge of management theories and practices to solve business problems.	3	CI/AAT
PO 4	Communication Skills: Ability to understand, analyze and communicate global, economic, legal and ethical aspects of business	2.6	CIE/AAT
PO 7	Strategic analysis: Ability to conduct strategic analysis using theoretical and practical applications.	2.7	Seminar/ conferences/ Research papers
PO 8	Technology Skills: Inculcate and develop technical skills to face the competitive world successfully.	2.5	Assignments/ Discussion

3 = High; **2** = Medium; **1** = Low

IX. MAPPING OF EACH CO WITH PO(s):

Course Outcomes(COs)	Program Outcomes (POs)								
	1	2	3	4	5	6	7	8	
CO 1									
CO 2									
CO 3									
CO 4									
CO 5									
CO 6								\checkmark	

Course Outcomes(COs)	POs / PSOs	Justification for mapping (Students will be able to)	No. of key competencies
CO 1	PO 1	Recollect (knowledge) the basic concept of banking system and to an extent appreciate (understand) the importance of financial system to promote the organized economy system to improve the financial literacy.	2
	PO 4	Interpret (knowledge) about primary and secondary services of the banks to communicate effectively with the customers to contribute to the economy development of the country.	3
CO 2	PO 1	Identify (knowledge) the role of commercial banks and their deficiencies and reforms in managing the stable financial system.	2
	PO 4	Comprehend and write effective reports on the various legal aspects of banking system by developing good communicational aspects	3
	PO 7	Recognizing (knowledge) the contribution of banks which affects economy stability of country (application) by its functional strategic principles and methodology	3
CO 3	PO 1	Apply (knowledge) the managerial principles and characteristics of insurance sectors and its importance of managing the economy conditions of the country.	2
	PO 4	Focus on working of insurance organizations in the formal economy world with its financial communicational abilities .	1
	PO 7	Recognize the importance of insurance with implementable funding strategies of the insurance customers .	4
CO 4	PO 4	Construct the managerial models of insurance agents and brokers in communicating with the customers to sell their products.	3
CO 5	PO4	Derive the existence possibility of present insurance products in meeting the needs and wants of the investors with its legal and ethical business aspects of IRDAI.	3
	PO 8	Outline the contribution of technological aspects in the insurance trends to meet the desires of the investors.	2
CO 6	PO 1	Examine the risk and its types in the risk management processes while implementing the managerial decisions of financial businesses.	2
	PO 7	Explain the qualitative and quantitative measures for risks in non-insurance methods with appropriate implantable strategies.	4
	PO 8	Extend the concept of risk with identified technological techniques in the insurance and non-insurance methods	1

X. JUSTIFICATIONS FOR CO – (PO) MAPPING –DIRECT

Course Outcomes(COs)	Program Outcomes (POs) / No. of Key Competencies Matched									
	1	2	3	4	5	6	7	8		
	2	3	3	3	5	3	4	2		
CO 1	2			3						
CO 2	2			3			3			
CO 3	2			1			4			
CO 4				3						
CO 5				3				2		
CO 6	2						4	1		

XI. TOTAL COUNT OF KEY COMPETENCIES FOR CO - (PO) MAPPING

XII. PERCENTAGE OF KEY COMPETENCIES FOR CO – (PO):

Course Outcomes(COs)	Program Outcomes (POs) / No. of key competencies								
	1	2	3	4	5	6	7	8	
	2	3	3	3	5	3	4	2	
CO 1	100.00			100.00					
CO 2	100.00			100.00			75.00		
CO 3	100.00			33.33			100.00		
CO 4				100.00					
CO 5				100.00				100.00	
CO 6	100.00						100.00	50.00	

XIII. COURSE ARTICULATION MATRIX (PO MAPPING)

COs and POs and COs and PSOs on the scale of 0 to 3, 0 being no correlation, 1 being the low correlation, 2 being medium correlation and 3 being high correlation.

 $0 - 0 \le C \le 5\%$ -No correlation; 2 - 40 % < C < 60% -Moderate.

 $1-5<\!\!<\!\!\mathcal{C}\!\!\leq 40\%$ – Low/ Slight; $3-60\%\leq \!\!\mathcal{C}\!<100\%$ – Substantial /High

Course Outcomes(COs)	Program Outcomes (POs)							
	2	3	3	3	5	3	4	2
CO 1	3			3				
CO 2	3			3			2	
CO 3	3			1			3	
CO 4				3				
CO 5				3				3

CO 6	3						3	2
TOTAL	12			13			8	5
AVERAGE	3	0	0	2.6	0	0	2.7	2.5

XIV. ASSESSMENT METHODOLOGY - DIRECT

CIE Exams	PO1,PO4, PO7, PO8	SEE Exams	PO1,PO4, PO7, PO8	Assignments	PO1,PO4, PO7, PO8	Seminars	PO 4, PO8,
Laboratory Practices	-	Student Viva	-	Mini Project	-	Certification	-
Term Paper	PO1, PO7						

XV. ASSESSMENT METHODOLOGY - INDIRECT

~	Early Semester Feedback	>	End Semester OBE Feedback
X	Assessment of Mini Projects by Experts		

XVI. SYLLABUS

Unit-I	INTRODUCTION TO BANKING BUSINESS							
Introduction to banking sectors, History of banking business in India, Structure of Indian banking system, Types of accounts, advances and deposits in a bank, New dimensions and Products, E-banking, Mobile banking, Net banking, CRM, Cheque system and KYC system								
Unit-II	BANKING REFORMS AND REGULATIONS							
credit control sy	Banking regulation act-1949, Reserve Bank of India Act-1934, Establishment of RBI, Functions and credit control system, Role of commercial banks and its functions, Banking sector reforms in India and deficiencies in Indian banking including problems accounts and Non -Performing Assets							
Unit-III	I INTRODUCTION TO INSURANCE							
insurance contract	Introduction to insurance, Need and importance of insurance, principles of Insurance, characteristics of insurance contract. Branches of insurance and types of insurance, life insurance and its products: role of agents and brokers.							
Unit-IV	INSURANCE BUSINESS ENVIRONMENT							
	legal framework governing the insurance sector, history of IRDAI and its functions: onomics of insurance need for changing mind-set and latest trends.							
Unit-V	INTRODUCTION TO RISK MANAGEMENT							
	Risk, meaning and types of risk in business and individual Risk management process, entification and measurement, risk management techniques, non-insurance methods.							
Textbooks:								
 S. Dorfman, "Risk Management and Insurance", Pearson Publications, 9th Edition, 2009. Reddy K S and Rao R N, "Banking and Insurance", Paramount publishers, 9th Edition, 2013. Varshney, P.N, "Banking Law and Practice", Sultan Chand and Sons, 25th Revised Edition, 2014. 								
	Reference Books:							
1. Scott E. Harringam Gregory R. Nichanus," Risk Management and Insurance", TMH, 2nd Edition,								

2009.

- 2. Geroge E. Rejda, "Principles of risk Management and Insurance", Pearson Education Publications, 9th Edition, 2009.
- 3. G. Koteshwar, "Risk Management Insurance and Derivatives", Himalaya Publications, 5th Edition, 2008.

XVII. COURSE PLAN:

The course plan is meant as a guideline. Probably there may be changes.

Lecture No	Topics to be Covered	COs	Reference
1	Introduction to banking sectors	CO1	T-1, R-2
2	History of banking business in India	CO1	T-2, R-2
3	Structure of Indian banking system	CO1	T-1, R-2
4	Types of accounts	CO1	T-1, R-2
5	Advances and deposits in a bank	CO1	T-2, R-2
6-7	New dimensions and Products, E-banking, Mobile banking	CO1	T-1, R-1
8	Net banking, CRM, Cheque system and KYC system	C01	T-2, R-2
9 - 10	Banking regulation act-1949	CO2	T-1, R-2
11 - 12	Reserve Bank of India Act-1934	CO2	T-2, R-2
13 - 14	Establishment of RBI, Functions and credit control system	CO2	T-1, R-2
15	Role of commercial banks and its functions	CO2	T-1, R-2
16	Banking sector reforms in India	CO2	T-2, R-2
17	Deficiencies in Indian banking including problems accounts	CO2	T-1, R-2
18	Non -Performing Assets	CO2	T-2, R-2
19	Introduction to insurance	CO3	T-1, R-1
20	Need and importance of insurance	CO3	T-2, R-2
21	Principles of Insurance	CO3	T-1, R-2
22	Characteristics of insurance contract	CO3	T-2, R-2
23	Branches of insurance	CO4	T-2, R-1
24	Types of insurance	CO4	T-2, R-2
25	Life insurance and its products	CO4	T-1, R-1
26 - 27	Role of agents and brokers	CO4	T-2, R-2
28 - 30	Regulatory and legal framework governing the insurance sector of IRDAI	CO4	T-1, R-2
31 - 33	History of IRDAI	CO5	T-1, R-1
34 - 35	IRDAI functions	CO5	T-1, R-1
36	Business and economics of insurance	CO5	T-2, R-1
37	Insurance need for changing mind-set and latest trends	CO5	T-1, R-1
38	Introduction to Risk	CO6	T-1, R-2
39	Meaning and types of risk in business	CO6	T-1, R-1
40	Individual Risk management process	CO6	T-1, R-1
41	Risk Management methods	CO6	T-1, R-1
42	Risk identification and measurement	CO6	T-2, R-1
43 - 44	Risk management techniques	CO6	T-1, R-1
45	Non insurance methods	CO6	T-1, R-1

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