

### 3.2 Attainment of Course Outcomes (75)

#### 3.2.1. Describe the assessment tools and processes used to gather the data upon which the evaluation of Course Outcome is based (10)

The process adopted to map the assessment questions, parameters of assessment rubrics etc. to the course outcomes is explained below with examples.

At the commencement of the semester, each faculty member is allotted the courses and it is required to develop a Course Plan containing:

1. Course Outcomes (COs)
2. Mapping of COs to POs and PSOs
3. Faculty to present an approximate timetable describing how the course syllabus shall be completed and evaluated (Lectures, Assignments, Quizzes). Further, the syllabus up to the mid semester examination is also clearly estimated. A detailed course plan is prepared by faculty for each course at the start of the session describing timelines for syllabus coverage, assignments and class tests.

During the semester, senior faculty members & HOD perform continuous monitoring of the syllabus covered, quizzes, class tests and assignments. Faculty keeps a record of each test and assignment of each student in the course file.

The attainment level of each subject is calculated and necessary actions are taken for continuous improvement. At the end of semester, the students' performance is recorded through the attainment model exercises and suggestions and actions are decided for future improvement.


The program outcome (PO) and Program Specific Outcomes (PSO's) attainment level is calculated on the basis of predefined mapping with courses. The entire theory, practical, projects or internship courses are mapped in a similar manner to achieve an overall attainment level of the program.

The procedure to conduct and assess performance through Sessional test is explained below-

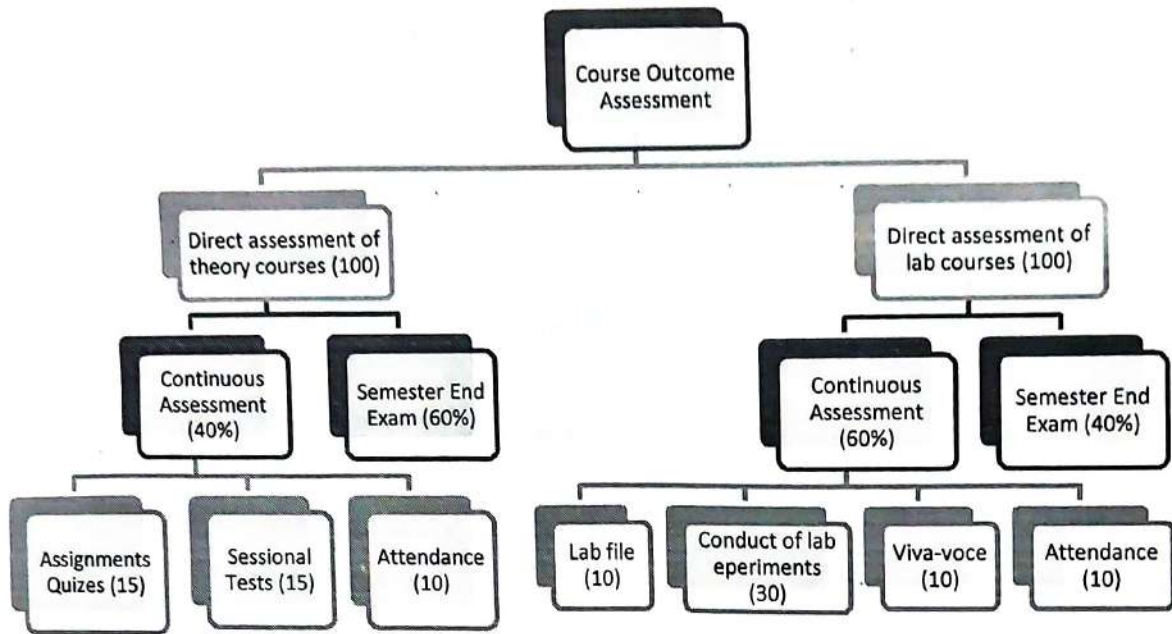
**Step1:** Sessional examination question papers are prepared by assigned faculty member on the basis of Bloom taxonomy.

**Step2:** The faculty evaluates the Sessional answer books, which are then shown to the students.

**Step3:** The concerned faculty then collects the sessional answer sheets.

  
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**Step4:** Faculty keeps record of Sessional marks in their course file and also submit to respective Mentors.



**Figure 3.1- Course Outcome Assessment Tools**

**3.2.2 Record the attainment of Course Outcomes of all courses with respect to set attainment levels (65)**

A course's CO attainment is calculated with a direct contribution. According to university policy, semester end examination for theory courses is given a weightage of 60% and continuous internal evaluation is given a weightage of 40%

**Measuring Course Outcomes attained through Semester End Examinations (SEE)**

SEE for theory courses contributes 60% and for laboratory courses contributes 40% for direct attainment.

**Measuring CO attainment through Cumulative Internal Examinations (CIE)**

CIE for theory courses contributes 40% and for laboratory courses contributes 60% for direct attainment. CIE evaluation for theory and laboratory courses is already explained in Figure 3.1.

Finally, the average percentage obtain for all the courses of a particular semester on the basis of internal assessment and end semester examination is taken as the target level and the attainment for each course is assessed in comparison to achieved average percentage. A sample sheet for attainment calculation is shown below-

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### 3.3 Attainment of Program Outcomes and Program Specific Outcomes (75)

#### 3.3.1 Describe assessment tools and processes used for measuring the attainment of each Program Outcome & Program Specific Outcomes (10)

The PO and PSOs attainment of all the courses is computed through direct and indirect method. The direct method involves calculating CO attainment level for each course based on the attendance, assignments and internal sessional tests. A sample course attainment matrix for one subject is given above. Once the course attainment is available for all the courses, these attainments are mapped with various PO and PSOs in the proportion of their weight-age as declared in articulation matrix. The average of all the courses contributing towards a particular PO is computed to assess the attainment level of that PO.


Assessment tools used for calculation of PO attainment is shown below in Table 3.3.1.

Assessment Tool Type	Assessment Tool Title	Tool Description
Direct Attainment Tool	CO attained	The CO values of both theory and laboratory courses with appropriate weight-age as per CO PO mapping are taken into account for calculation of direct attainment of POs and PSOs.
Indirect Attainment Tool	Program Exit Survey	An exit survey on 3-point rating scale is conducted at the closure of the programme to measure the self-assessment of students in terms of attainment of PO.

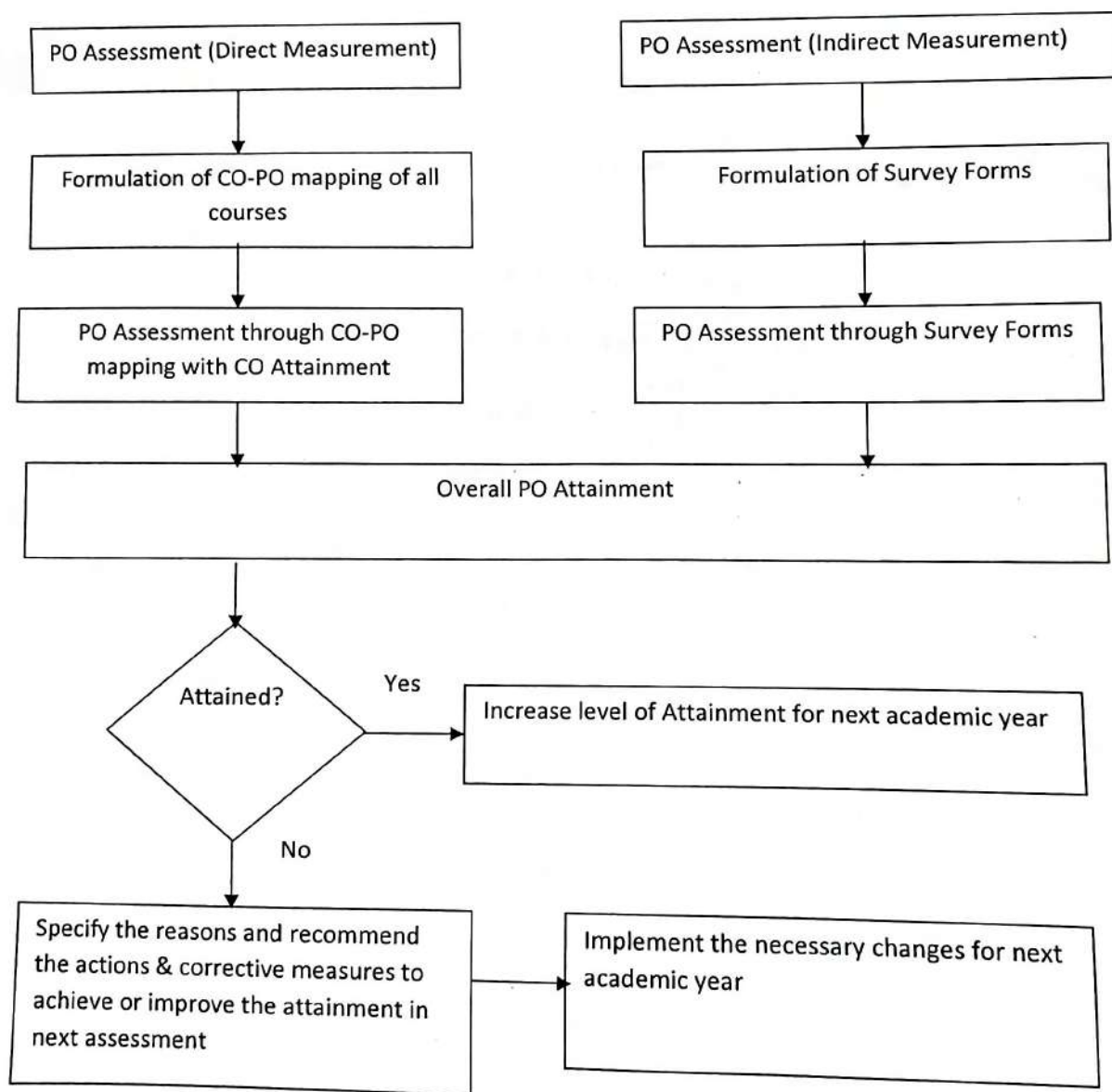
Table 3.3.1 – Assessment Tool

PO Attainment	Direct Attainment	CO attainment of courses	80%
	Indirect Attainment	Student Exit Survey	20%
		Alumni Feedback	
		Employer Survey	

Table 3.3.2 – PO Attainment Calculation

  
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**Calculation of PO attainment:** The attainment of PO is based upon direct and indirect assessment tools. The PO attainment is calculated by multiplying the COs attainment value and the COs contribution factor, where COs contribution factor is 3, 2 and 1 for High, Medium and low contribution respectively, towards PO. The PO attainment is calculated and observations are recorded. The PSOs attainment is calculated by the process similar to that used for PO attainment. Overall attainments of POs are calculated by taking 80% of direct attainment and 20% of indirect attainment.



**Figure 3.3 - Process of assessment and attainment of PO**

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## Evaluation process for the Direct Attainment of COs, POs and PSOs

### Step 1:

- Direct attainment level is calculated on the basis of Continuous Internal Assessment (CIA) and End Semester Assessment (ESA) using the target level (already approved) as shown in Table 1 and Table 2. The weightage given to CIA 60% and ESA 40%.
- Direct Attainment level of each CO for a particular course is achieved as per the target levels and then average for the attained values of COs is calculated.

**Table 1: CO Attainment target level**

Course Outcome Target Level	Class average percentage	65 or more	Level 3
	Class average percentage	55 or more	Level 2
	Class average percentage	50 or more	Level 1
	Class average percentage	Less than 50	Level 0

**Table 2: Direct Attainment level**

Direct Attainment Level (DAL) = 0.6 * CIA + 0.4 * ESA					Average
	CO1	CO2	CO3	CO4	
Class Average Percentage using CIA & ESA =	76.5	64.3	73.4	79.2	
Attainment Level	3	2	3	3	2.75

  
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**Step 2:**

- Course articulation matrix is prepared for each course on the basis of their relationship with POs and PSOs.
- Values (1, 2, 3, -) are assigned to each course which is relevant to the POs and PSOs and the average is calculated for the same.

**Table 3: Course articulation matrix**

Sem	Course Code	Course Title	CO	Statement	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12	PS01	PS02	PS03	PS04	
3rd	BCSE-504	Operating System	CO-BCSE-504.1	Able to describe the important computer system resources and the role of operating system in their management policies and algorithms.	-	-	-	3	-	-	-	-	1	2	-	-	2	2	1	2	
			CO-BCSE-504.2	Understand the process management policies and scheduling of processes by CPU.	1	1	1	2	-	-	3	-	-	-	-	-	-	2	3	2	2
			CO-BCSE-504.3	Evaluate the requirement for process synchronization and coordination handled by operating system.	1	1	1	2	3	-	-	-	-	-	-	-	-	2	2	2	2
			CO-BCSE-504.4	Describe and analyze the memory management and its allocation policies	1	1	1	2	3	-	-	-	-	-	-	-	-	2	2	1	2
			CO-BCSE-504.5	Identify, use and evaluate the storage management policies with respect to different storage management technologies.	1	1	2	3	2	-	1	-	1	-	-	-	-	2	3	1	1
<b>PO Articulation for the Course</b>					<b>1</b>	<b>1</b>	<b>1.25</b>	<b>2.4</b>	<b>2.6</b>	<b>-</b>	<b>2</b>	<b>-</b>	<b>1</b>	<b>2</b>	<b>-</b>	<b>-</b>	<b>2</b>	<b>2.4</b>	<b>1.4</b>	<b>1.8</b>	

  
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**Step 3:**

For all courses, calculate attainment value of all POs using following formula:

$$PO_i = \frac{\sum_{j=1}^n \frac{(v_i * v_j)}{3}}{n}$$


Where

$v_i$  = CO PO articulation matrix value corresponding to given course and given PO number from Step 2.

$v_j$  = Course Attainment value obtained in Step 1.

$n$  = Total number of courses

$i$  = 1 to 12

  
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## Evaluation process for the Indirect Attainment of POs and PSOs

### Step 1:

Indirect Attainment is calculated as per Table 4.

**Table 4: Indirect Attainment**

Assessment Type	Assessment Title	Description
Indirect Attainment	Program Exit Survey: <ul style="list-style-type: none"><li>• Student Exit Survey</li><li>• Alumni Feedback</li><li>• Employer Survey</li></ul>	An exit survey on 3-point rating scale is conducted at the closure of the programme to measure the self- assessment of students in terms of attainment of POs and PSOs.



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## Evaluation process for the Overall Attainment of POs and PSOs

### Step 1:

Overall Attainment is calculated as per Table 5.

**Table 5: Overall Attainment**

<b>PO, PSO Attainment</b>	Direct Attainment	CO attainment of courses	80%
	Indirect Attainment	Student Exit Survey	20%
		Alumni Feedback	
		Employer Survey	

  
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CO1	To provide knowledge about logical notation to define and reason about fundamental mathematical concepts such as sets relations, functions and integers.	3
CO2	To impart knowledge about various counting technique, recursion and recursive relation.	3
CO3	To provide knowledge about algebraic structures and morphism.	3
CO4	Apply logical reasoning to solve a variety of problems based on tree & graph.	3

Roll No.	Name of Student	Marks	ST1 (30)				ST2 (30)				SM (15)				AS1 (4)				AS2 (4)				AS3 (4)									
			CO1 (10)	CO2 (20)	CO3 (0)	CO4 (0)	Marks	CO1 (0)	CO2 (8)	CO3 (10)	CO4 (12)	Marks	CO1 (2.5)	CO2 (7)	CO3 (2.5)	CO4 (3)	Marks	CO1 (4)	CO2 (0)	CO3 (0)	CO4 (0)	Marks	CO1 (0)	CO2 (4)	CO3 (0)	CO4 (0)	Marks	CO1 (0)	CO2 (0)	CO3 (4)	CO4 (0)	
11182501	URBI BISWAS	Absent	0.0	0.0	0.0	0.0	20.0	0.0	0.0	12.0	8.0	5.0	0.0	0.0	3.0	2.0	20.0	20.0	0.0	0.0	0.0	0.0	28.0	0.0	28.0	0.0	0.0	28.0	0.0	0.0	28.0	0.0
11182502	MD RIYADH UZ ZAMAN	15.0	5.0	10.1	0.0	0.0	22.0	0.0	5.9	7.3	8.9	9.3	1.5	4.3	1.5	1.9	4.0	4.0	0.0	0.0	0.0	4.0	0.0	4.0	0.0	0.0	4.0	0.0	0.0	4.0	0.0	
11182505	Jamal	18.0	5.9	12.1	0.0	0.0	18.0	0.0	4.8	5.9	7.3	9.0	1.5	4.2	1.5	1.8	4.0	3.0	0.0	0.0	0.0	4.0	0.0	3.5	0.0	0.0	4.0	0.0	0.0	3.5	0.0	
11182509	SHANTANU DAS	20.0	6.6	13.4	0.0	0.0	24.0	0.0	6.4	7.9	9.7	11.0	1.8	5.1	1.8	2.2	4.0	0.0	0.0	0.0	0.0	4.0	0.0	0.0	0.0	0.0	4.0	0.0	0.0	0.0	0.0	
11182510	MD ALIME SORKER	19.0	6.3	12.7	0.0	0.0	19.0	0.0	5.1	6.3	7.7	9.5	1.6	4.4	1.6	1.9	4.0	4.0	0.0	0.0	0.0	4.0	0.0	4.0	0.0	0.0	4.0	0.0	0.0	4.0	0.0	
11182512	SAJAL DAS	18.0	5.9	12.1	0.0	0.0	23.0	0.0	6.1	7.6	9.3	10.3	1.7	4.8	1.7	2.1	4.0	4.0	0.0	0.0	0.0	4.0	0.0	0.0	0.0	0.0	4.0	0.0	0.0	4.0	0.0	
11182513	JAHDUL HASAN ANTOR	17.0	5.6	11.4	0.0	0.0	20.0	0.0	5.3	6.6	8.1	9.3	1.5	4.3	1.5	1.9	4.0	3.5	0.0	0.0	0.0	4.0	0.0	3.8	0.0	0.0	4.0	0.0	0.0	4.0	0.0	
11182515	KALANDE	9.5	5.5	4.0	0.0	0.0	Absent	0.0	0.0	0.0	0.0	2.4	1.4	1.0	0.0	0.0	20.0	20.0	0.0	0.0	0.0	25.0	0.0	25.0	0.0	0.0	30.0	0.0	0.0	30.0	0.0	
11182518	ARYAN DUBEY	17.0	5.6	11.4	0.0	0.0	25.0	0.0	6.7	8.3	10.1	10.5	1.8	4.9	1.8	2.1	4.0	3.5	0.0	0.0	0.0	4.0	0.0	3.5	0.0	0.0	4.0	0.0	0.0	2.0	0.0	
11182520	YOGESH PIPLANI	0.0	0.0	0.0	0.0	0.0	30.0	0.0	0.0	15.0	15.0	7.5	0.0	0.0	3.8	3.8	30.0	30.0	0.0	0.0	0.0	30.0	0.0	30.0	0.0	0.0	30.0	0.0	0.0	30.0	0.0	
11182521	VAIBHAV GUPTA	16.0	5.3	10.7	0.0	0.0	21.0	0.0	5.6	6.9	8.5	9.3	1.5	4.3	1.5	1.9	4.0	4.0	0.0	0.0	0.0	4.0	0.0	4.0	0.0	0.0	4.0	0.0	0.0	4.0	0.0	
11182522	PARAS	21.0	6.9	14.1	0.0	0.0	19.0	0.0	5.1	6.3	7.7	10.0	1.7	4.7	1.7	2.0	4.0	4.0	0.0	0.0	0.0	4.0	0.0	4.0	0.0	0.0	4.0	0.0	0.0	4.0	0.0	
11182524	ANMOL SINGH	20.0	6.6	13.4	0.0	0.0	18.0	0.0	4.8	5.9	7.3	9.5	1.6	4.4	1.6	1.9	4.0	4.0	0.0	0.0	0.0	4.0	0.0	2.0	0.0	0.0	4.0	0.0	0.0	3.5	0.0	
11182525	Vikramjeet Singh	18.0	5.9	12.1	0.0	0.0	20.0	0.0	5.3	6.6	8.1	9.5	1.6	4.4	1.6	1.9	4.0	4.0	0.0	0.0	0.0	4.0	0.0	4.0	0.0	0.0	4.0	0.0	0.0	4.0	0.0	
11182526	DILPREET SINGH NAGRA	19.0	6.3	12.7	0.0	0.0	21.0	0.0	5.6	6.9	8.5	10.0	1.7	4.7	1.7	2.0	4.0	3.5	0.0	0.0	0.0	4.0	0.0	3.5	0.0	0.0	4.0	0.0	0.0	3.5	0.0	
11182527	ARJIT AMIN	15.0	5.0	10.1	0.0	0.0	22.0	0.0	5.9	7.3	8.9	9.3	1.5	4.3	1.5	1.9	4.0	4.0	0.0	0.0	0.0	4.0	0.0	3.5	0.0	0.0	4.0	0.0	0.0	4.0	0.0	
11182530	KAMALIOT SINGH	16.0	5.3	10.7	0.0	0.0	20.0	0.0	5.3	6.6	8.1	9.0	1.5	4.2	1.5	1.8	4.0	4.0	0.0	0.0	0.0	4.0	0.0	3.8	0.0	0.0	4.0	0.0	0.0	4.0	0.0	
11182531	Prabhat Sharma	15.0	5.0	10.1	0.0	0.0	19.0	0.0	5.1	6.3	7.7	8.5	1.4	4.0	1.4	1.7	4.0	4.0	0.0	0.0	0.0	4.0	0.0	4.0	0.0	0.0	4.0	0.0	0.0	4.0	0.0	
11182532	MANAN GUGLANI	14.0	4.6	9.4	0.0	0.0	18.0	0.0	4.8	5.9	7.3	8.0	1.3	3.7	1.3	1.6	4.0	4.0	0.0	0.0	0.0	4.0	0.0	4.0	0.0	0.0	4.0	0.0	0.0	4.0	0.0	
11182533	ARYAN GARG	16.0	5.3	10.7	0.0	0.0	18.0	0.0	4.8	5.9	7.3	8.5	1.4	4.0	1.4	1.7	4.0	4.0	0.0	0.0	0.0	4.0	0.0	3.0	0.0	0.0	4.0	0.0	0.0	3.0	0.0	
11182534	RAGHAV GUPTA	18.0	5.9	12.1	0.0	0.0	18.0	0.0	4.8	5.9	7.3	9.0	1.5	4.2	1.5	1.8	4.0	4.0	0.0	0.0	0.0	4.0	0.0	4.0	0.0	0.0	4.0	0.0	0.0	4.0	0.0	
11182535	JATIN AHUJA	19.0	6.3	12.7	0.0	0.0	17.0	0.0	4.5	5.6	6.9	9.0	1.5	4.2	1.5	1.8	4.0	4.0	0.0	0.0	0.0	4.0	0.0	4.0	0.0	0.0	4.0	0.0	0.0	4.0	0.0	
11182536	DEEPAK SAINI	21.0	6.9	14.1	0.0	0.0	17.0	0.0	4.5	5.6	6.9	9.5	1.6	4.4	1.6	1.9	4.0	4.0	0.0	0.0	0.0	4.0	0.0	0.0	0.0	0.0	4.0	0.0	0.0	0.0	0.0	
11182537	SIMRAN GILL	20.0	6.6	13.4	0.0	0.0	18.0	0.0	4.8	5.9	7.3	9.5	1.6	4.4	1.6	1.9	4.0	4.0	0.0	0.0	0.0	4.0	0.0	4.0	0.0	0.0	4.0	0.0	0.0	4.0	0.0	
11182538	HARVINDER SINGH	19.0	6.3	12.7	0.0	0.0	19.0	0.0	5.1	6.3	7.7	9.5	1.6	4.4	1.6	1.9	4.0	4.0	0.0	0.0	0.0	4.0	0.0	4.0	0.0	0.0	4.0	0.0	0.0	4.0	0.0	
11182539	ADHFAR MUJTABA	Absent	0.0	0.0	0.0	0.0	Absent	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	4.0	0.0	3.8	0.0	0.0	4.0	0.0	0.0	3.0	0.0	
11182540	RUPASHI BANSAL	18.0	5.9	12.1	0.0	0.0	20.0	0.0	5.3	6.6	8.1	9.5	1.6	4.4	1.6	1.9	4.0	4.0	0.0	0.0	0.0	4.0	0.0	0.0	0.0	0.0	4.0	0.0	0.0	0.0	0.0	
11182541	SATYAM SHARMA	18.0	5.9	12.1	0.0	0.0	19.0	0.0	5.1	6.3	7.7	9.3	1.5	4.3	1.5	1.9	4.0	0.0	0.0	0.0	0.0	4.0	0.0	3.8	0.0	0.0	4.0	0.0	0.0	4.0	0.0	
11182542	GURSHARAN SINGH	16.0	5.3	10.7	0.0	0.0	18.0	0.0	4.8	5.9	7.3	8.5	1.4	4.0	1.4	1.7	4.0	4.0	0.0	0.0	0.0	4.0	0.0	0.0	0.0	0.0	4.0	0.0	0.0	4.0	0.0	
11182545	RADHIKA	17.0	5.6	11.4	0.0	0.0	19.0	0.0	5.1	6.3	7.7	9.0	1.5	4.2	1.5	1.8	4.0	4.0	0.0	0.0	0.0	4.0	0.0	0.0	0.0	0.0	4.0	0.0	0.0	4.0	0.0	
11182546	ABHISHEK JAIN	18.0	5.9	12.1	0.0	0.0	20.0	0.0	5.3	6.6	8.1	9.5	1.6	4.4	1.6	1.9	4.0	4.0	0.0	0.0	0.0	4.0	0.0	4.0	0.0	0.0	4.0	0.0	0.0	4.0	0.0	
11182547	Vaibhav Gagneja	17.0	5.6	11.4	0.0	0.0	21.0	0.0	5.6	6.9	8.5	9.5	1.6	4.4	1.6	1.9	4.0	4.0	0.0	0.0	0.0	4.0	0.0	4.0	0.0	0.0	4.0	0.0	0.0	3.0	0.0	
11182548	SUNAINA	16.0	5.3	10.7	0.0	0.0	20.0	0.0	5.3	6.6	8.1	9.0	1.5	4.2	1.5	1.8	4.0	4.0	0.0	0.0	0.0	4.0	0.0	3.2	0.0	0.0	4.0	0.0	0.0	3.5	0.0	
11182552	HARDIK JAIN	19.0	6.3	12.7	0.0	0.0	21.0	0.0	5.6	6.9	8.5	10.0	1.7	4.7	1.7	2.0	4.0	4.0	0.0	0.0	0.0	4.0	0.0	4.0	0.0	0.0	4.0	0.0	0.0	4.0	0.0	
11182554	AKHILESH	21.5	12.0	9.5	0.0	0.0	30.0	0.0	0.0	15.0	15.0	12.9	3.0	2.4	3.8	3.8	28.0	28.0	0.0	0.0	0.0	4.0	0.0	4.0	0.0	0.0	4.0	0.0	0.0	4.0	0.0	
11182555	MOHIT KUMAR	Absent	0.0	0.0	0.0	0.0	Absent	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	28.0	0.0	28.0	0.0	0.0	30.0	0.0	0.0	30.0	0.0	
11182556	LOVEDEEP	17.0	10.0	7.0	0.0	0.0	30.0	0.0	0.0	15.0	15.0	11.8	2.5	1.8	3.8	3.8	22.0	22.0	0.0	0.0	0.0	4.0	0.0	0.0	0.0	0.0	4.0	0.0	0.0	0.0	0.0	
11182557	ASHISH KUMAR GIRI	0.5	0.5	0.0	0.0	0.0	29.0	0.0	0.0	15.0	14.0	7.4	0.1	0.0	3.8	3.5	28.0	28.0	0.0	0.0	0.0	27.6	0.0	27.6	0.0	0.0	30.0	0.0	0.0	30.0	0.0	
11182558	SANTANU KUMAR	16.0	12.5	3.5	0.0	0.0	30.0	0.0	0.0	15.0	15.0	11.5	3.1	0.9	3.8	3.8	29.0	29.0	0.0	0.0	0.0	27.6	0.0	27.6	0.0	0.0	30.0	0.0	0.0	30.0	0.0	
11182559	ABHEEY RAI	7.5	6.0	1.5	0.0	0.0	17.0	0.0	0.0	9.0	8.0	6.1	1.5	0.4	2.3	2.0	30.0	30.0	0.0	0.0	0.0	28.8	0.0	28.8	0.0	0.0	26.0	0.0	0.0	26.0	0.0	
11182561	AISHWARYA	7.0	6.5	0.5	0.0	0.0	30.0	0.0	0.0	15.0	15.0	9.3	1.6	0.1	3.8	3.8	29.0	29.0	0.0	0.0	0.0	30.0	0.0	30.0	0.0	0.0	25.0	0.0	0.0	25.0	0.0	
11182562	RAUSHAN KUMAR	11.0	7.5	3.5	0.0	0.0	16.0	0.0	0.0	7.0	9.0	6.8	1.9	0.9	1.8	2.3	28.0	28.0	0.0	0.0	0.0	27.6	0.0	27.6	0.0	0.0	30.0	0.0	0.0	30.0	0.0	
11182563	SAGAR	18.0	5.9	12.1	0.0	0.0	17.0	0.0	4.5	5.6	6.9	8.8	1.5	4.1	1.5	1.8	4.0	4.0	0.0	0.0	0.0	4.0	0.0	4.0	0.0	0.0	4.0	0.0	0.0	4		

Target Level	Class average percentage	>=65	Level 3
	Class average percentage	>=55 & <65	Level 2
	Class average percentage	>=50 & <55	Level 1
	Class average percentage	<50	Level 0

Direct Attainment Level (DAL) = 0.6 * CIA + 0.4 * ESA				
Class Average Percentage using CIA & ESA =				
CO1	CO2	CO3	CO4	
69.1	69.3	73.2	73.4	
Attainment Level				
3	3	3	3	

AS4 (4)				ASM (15) (AS*3.75/4)				AM(10) (Marks*2.5/10)				Continuous Internal Assessment (4)				Internal Assessment Percentage				End Semester Assessment (60)				Semester Assessment percent								
Marks	CO1 (0)	CO2 (0)	CO3 (0)	CO4 (4)	Marks	CO1 (3.75)	CO2 (3.75)	CO3 (3.75)	CO4 (3.75)	Marks	CO1 (2.5)	CO2 (2.5)	CO3 (2.5)	CO4 (2.5)	Marks	CO1 (8.75)	CO2 (13.25)	CO3 (8.75)	CO4 (9.25)	CO1	CO2	CO3	CO4	Marks	CO1 (10)	CO2 (12)	CO3 (18)	CO4 (20)	CO1	CO2	CO3	CO4
30.0	0.0	0.0	0.0	30.0	14.0	2.5	3.5	3.5	3.8	7.0	1.8	1.8	1.8	1.8	26.0	4.3	5.3	8.3	7.5	42.5	52.5	82.5	75.0	40	6.7	8.0	12.0	13.3	66.7	66.7	66.7	66.6
4.0	0.0	0.0	0.0	4.0	15.0	3.8	3.8	3.8	3.8	1.8	0.4	0.4	0.4	0.5	26	5.7	8.6	5.7	6.0	65.0	65.0	65.0	65.0	40	6.7	8.0	12.0	13.3	66.7	66.7	66.7	66.6
4.0	0.0	0.0	0.0	4.0	13.1	2.8	3.3	3.3	3.8	9.9	2.5	2.5	2.5	2.4	32	6.4	12.0	6.6	7.0	73.1	90.6	75.4	75.7	43	7.2	8.6	12.9	14.3	71.7	71.7	71.7	71.6
4.0	0.0	0.0	0.0	4.0	15.0	3.8	3.8	3.8	3.8	10.0	2.5	2.5	2.5	2.5	34	7.4	11.3	7.4	7.9	85.0	85.0	85.0	85.0	44	7.3	8.8	13.2	14.7	73.3	73.3	73.3	73.3
4.0	0.0	0.0	0.0	4.0	15.0	3.8	3.8	3.8	3.8	1.5	0.4	0.4	0.4	0.3	26	5.2	9.8	5.4	5.7	59.4	73.6	61.3	61.5	38	6.3	7.6	11.4	12.7	63.3	63.3	63.3	63.3
4.0	0.0	0.0	0.0	4.0	14.3	3.3	3.5	3.8	3.8	10.5	2.6	2.2	2.2	2.1	34	7.4	11.3	7.4	7.9	85.0	85.0	85.0	85.0	39	6.5	7.8	11.7	13.0	65.0	65.0	65.0	65.0
30.0	0.0	0.0	0.0	30.0	13.0	2.5	3.1	3.8	3.8	8.0	2.0	2.0	2.0	2.0	34	6.8	12.8	7.0	7.4	77.7	96.2	80.1	80.4	38	6.3	7.6	11.4	12.7	63.3	63.3	63.3	63.3
4.0	0.0	0.0	0.0	2.0	10.3	3.8	3.8	3.8	3.8	8.0	2.0	2.0	2.0	2.0	24.0	5.9	6.1	5.8	5.8	58.8	61.3	57.5	57.5	36	6.0	7.2	10.8	12.0	60.0	60.0	60.0	60.0
30.0	0.0	0.0	0.0	30.0	15.0	3.8	3.8	3.8	3.8	10.0	2.5	2.5	2.5	2.5	18	3.9	6.0	3.9	4.2	45.0	45.0	45.0	45.0	38	6.3	7.6	11.4	12.7	63.3	63.3	63.3	63.3
4.0	0.0	0.0	0.0	4.0	15.0	3.8	3.8	3.8	3.8	5.8	1.4	1.4	1.4	1.4	30	6.0	11.3	6.2	6.6	68.6	84.9	70.7	70.9	35	5.8	7.0	10.5	11.7	58.3	58.3	58.3	58.3
4.0	0.0	0.0	0.0	4.0	15.0	3.8	3.8	3.8	3.8	10.0	2.5	2.5	2.5	2.5	33	7.2	10.9	7.2	7.6	82.5	82.5	82.5	82.5	35	5.8	7.0	10.5	11.7	58.3	58.3	58.3	58.3
4.0	0.0	0.0	0.0	4.0	13.6	3.8	3.8	3.8	3.8	6.5	1.6	1.6	1.6	1.6	31	6.2	11.6	6.4	6.8	70.9	87.7	73.1	73.3	38	6.3	7.6	11.4	12.7	63.3	63.3	63.3	63.3
4.0	0.0	0.0	0.0	4.0	14.5	3.8	3.3	3.8	3.8	9.0	2.3	2.3	2.3	2.3	37	8.1	12.3	8.1	8.6	92.5	92.5	92.5	92.5	38	6.3	7.6	11.4	12.7	63.3	63.3	63.3	63.3
4.0	0.0	0.0	0.0	4.0	14.8	3.8	3.8	3.8	3.8	8.0	2.0	2.0	2.0	2.0	35	7.7	11.6	7.7	8.1	87.5	87.5	87.5	87.5	41	6.8	8.2	12.3	13.7	68.3	68.3	68.3	68.3
4.0	0.0	0.0	0.0	4.0	15.0	3.8	3.8	3.8	3.8	8.0	2.0	2.0	2.0	2.0	35	7.7	11.6	7.7	8.1	87.5	87.5	87.5	87.5	41	6.8	8.2	12.3	13.7	68.3	68.3	68.3	68.3
4.0	0.0	0.0	0.0	4.0	15.0	3.8	3.8	3.8	3.8	9.5	2.4	2.4	2.4	2.3	33	7.2	10.9	7.2	7.6	82.5	82.5	82.5	82.5	35	5.8	7.0	10.5	11.7	58.3	58.3	58.3	58.3
4.0	0.0	0.0	0.0	4.0	12.2	3.8	2.8	2.8	2.8	8.0	2.0	2.0	2.0	2.0	38	7.6	10.9	7.6	7.6	82.5	82.5	82.5	82.5	36	6.0	7.2	10.8	12.0	60.0	60.0	60.0	60.0
4.0	0.0	0.0	0.0	4.0	15.0	3.8	3.8	3.8	3.8	9.0	2.3	2.3	2.3	2.3	36	7.9	11.9	7.9	8.3	86.9	75.5	89.6	89.9	35	5.8	7.0	10.5	11.7	58.3	58.3	58.3	58.3
4.0	0.0	0.0	0.0	4.0	15.0	3.8	3.8	3.8	3.8	9.0	2.3	2.3	2.3	2.3	36	7.9	11.9	7.9	8.3	90.0	90.0	90.0	90.0	43	7.2	8.6	12.9	14.3	71.7	71.7	71.7	71.6
4.0	0.0	0.0	0.0	4.0	15.0	3.8	3.8	3.8	3.8	8.0	2.0	2.0	2.0	2.0	34.0	7.4	11.3	7.4	7.9	85.0	85.0	85.0	85.0	38	6.3	7.6	11.4	12.7	63.3	63.3	63.3	63.3
4.0	0.0	0.0	0.0	4.0	15.0	3.8	3.8	3.8	3.8	10.0	2.5	2.5	2.5	2.5	36.0	7.9	11.9	7.9	8.3	90.0	90.0	90.0	90.0	40	6.7	8.0	12.0	13.3	66.7	66.7	66.7	66.6
4.0	0.0	0.0	0.0	4.0	13.8	3.8	3.5	2.8	3.8	10.0	2.5	2.5	2.5	2.5	38	7.6	10.2	7.8	8.3	86.9	77.0	89.6	89.9	39	6.5	7.8	11.7	13.0	65.0	65.0	65.0	65.0
0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	2.5	0.6	0.6	0.6	0.6	*	0.6	0.6	0.6	0.6	6.3	6.3	6.3	6.0	44	7.3	8.8	13.2	14.7	73.3	73.3	73.3	73.3
4.0	0.0	0.0	0.0	4.0	14.8	3.8	3.8	3.8	3.8	8.0	2.0	2.0	2.0	2.0	38.0	8.3	12.6	8.3	8.8	95.0	95.0	95.0	95.0	46	7.7	9.2	13.8	15.3	76.7	76.7	76.7	76.6
4.0	0.0	0.0	0.0	4.0	14.8	3.8	3.8	3.8	3.8	8.0	2.0	2.0	2.0	2.0	38.0	8.3	12.6	8.3	8.8	95.0	95.0	95.0	95.0	46	7.7	9.2	13.8	15.3	76.7	76.7	76.7	76.6
4.0	0.0	0.0	0.0	4.0	15.0	3.8	3.8	3.8	3.8	8.0	2.0	2.0	2.0	2.0	33	7.2	10.9	7.2	7.6	82.5	82.5	82.5	82.5	40	6.7	8.0	12.0	13.3	66.7	66.7	66.7	66.7
4.0	0.0	0.0	0.0	4.0	14.1	3.8	3.8	3.8	3.8	9.4	2.4	2.4	2.4	2.4	33	7.2	10.9	7.2	7.6	82.5	84.5	87.2	87.5	46	7.7	9.2	13.8	15.3	76.7	76.7	76.7	76.7
4.0	0.0	0.0	0.0	4.0	15.0	3.8	3.8	3.8	3.8	8.0	2.0	2.0	2.0	2.0	37	7.4	10.2	7.6	8.1	84.6	77.0	87.2	87.5	39	6.5	7.8	11.7	13.0	60.0	60.0	60.0	60.0
4.0	0.0	0.0	0.0	4.0	15.0	3.8	3.8	3.8	3.8	10.0	2.5	2.5	2.5	2.5	36.0	7.9	11.9	7.9	8.3	90.0	90.0	90.0	90.0	46	7.7	9.2	13.8	15.3	76.7	76.7	76.7	76.7
4.0	0.0	0.0	0.0	4.0	15.0	3.8	3.8	3.8	3.8	6.0	1.5	1.5	1.5	1.5	37	7.4	13.9	7.6	8.1	84.6	104.7	87.2	87.5	35	5.8	7.0	10.5	11.7	58.3	58.3	58.3	58.3
0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	*	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	39	6.5	7.8	11.7	13.0	63.3	63.3	63.3	63.3
28.8	0.0	0.0	0.0	28.8	14.0	2.8	3.6	3.8	3.6	9.0	2.3	2.3	2.3	2.3	35.0	7.5	7.6	9.8	9.6	75.0	76.0	97.5	96.0	35	5.8	7.0	10.5	11.7	58.3	58.3	58.3	58.3
28.8	0.0	0.0	0.0	28.8	14.0	3.5	3.5	3.8	3.6	10.0	2.5	2.5	2.5	2.5	33.0	6.1	6.0	10.0	9.6	61.3	59.5	100.0	96.0	36	6.0	7.2	10.8	12.0	60.0	60.0	60.0	60.0
28.8	0.0	0.0	0.0	28.8	14.0	3.6	3.6	3.3	3.6	10.0	2.5	2.5	2.5	2.5	36.0	9.3	7.0	9.5	9.9	92.5	69.8	95.0	98.5	35	5.8	7.0	10.5	11.7	58.3	58.3	58.3	58.3
30.0	0.0	0.0	0.0	30.0	14.0	3.8	3.8	3.1	3.8	10.0	2.5	2.5	2.5	2.5	32.0	7.8	6.6	7.9	8.3	77.5	66.3	78.8	82.5	43	7.2	8.6	12.9	14.3	71.7	71.7	71.7	71.6
30.0	0.0	0.0	0.0	30.0	15.0	3.6	3.6	3.8	3.8	10.0	2.5	2.5	2.5	2.5	35.0	7.8	6.2	10.0	10.0	77.5	62.3	100.0	100.0	38	6.3	7.6	11.4	12.7	63.3	63.3	63.3	63.3
30.0	0.0	0.0	0.0	30.0	14.0	3.5	3.5	3.8	3.8	10.0	2.5	2.5	2.5	2.5	32.0	7.9	6.8	8.0	8.5	78.8	68.3	80.0	85.0	40	6.7	8.0	12.0	13.3	66.7	66.7	66.7	66.7
4.0	0.0	0.0	0.0	4.0	15.0	3.8	3.8	3.8	3.8	6.3	1.6	1.6	1.6	1.6	30	6.6	9.9	6.6	6.9	75.0	75.0	75.0	75.0	35	5.8	7.0	10.5	11.7	58.3	58.3	58.3	58.3
26.0	0.0	0.0	0.0	26.0	14.0	3.4	3.6	3.8	3.3	9.0	2.3	2.3	2.3	2.3	39.0	9.4	9.6	9.8	9.3	93.8	96.0	97.5	92.5	40	6.7	8.0	12.0	13.3	66.7	66.7	66.7	66.7

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11182567	AZAD SINGH	23.5	14.0	9.5	0.0	0.0	29.0	0.0	0.0	14.0	15.0	13.1	3.5	2.4	3.5	3.8	29.0	29.0	0.0	0.0	0.0	0.0	28.8	0.0	28.8	0.0	0.0	30.0	0.0	0.0	30.0	0.0
11182569	RUPIT	16.0	5.3	10.7	0.0	0.0	18.0	0.0	4.8	5.9	7.3	8.5	1.4	4.0	1.4	1.7	4.0	4.0	0.0	0.0	0.0	0.0	4.0	0.0	4.0	0.0	0.0	4.0	0.0	0.0	30.0	0.0
11182570	TAJESHWAR SINGH	18.0	5.9	12.1	0.0	0.0	19.0	0.0	5.1	6.3	7.7	9.3	1.5	4.3	1.5	1.9	4.0	0.0	0.0	0.0	0.0	4.0	0.0	4.0	0.0	0.0	4.0	0.0	0.0	30.0	0.0	
11182571	MUNISH	11.5	7.0	4.5	0.0	0.0	30.0	0.0	0.0	15.0	15.0	10.4	1.8	1.1	3.8	3.8	26.0	26.0	0.0	0.0	0.0	0.0	27.6	0.0	27.6	0.0	0.0	28.8	0.0	0.0	28.8	0.0
11182572	ANIKET SHARMA	16.5	10.0	6.5	0.0	0.0	29.0	0.0	0.0	15.0	14.0	11.4	2.5	1.6	3.8	3.5	26.5	26.5	0.0	0.0	0.0	0.0	28.8	0.0	28.8	0.0	0.0	24.0	0.0	0.0	24.0	0.0
11182573	GAYATRI BHATT	16.0	9.0	7.0	0.0	0.0	23.0	0.0	0.0	10.0	13.0	9.8	2.3	1.8	2.5	3.3	29.0	29.0	0.0	0.0	0.0	0.0	27.6	0.0	27.6	0.0	0.0	25.2	0.0	0.0	25.2	0.0
11182574	SHAMA MALIK	19.0	12.0	7.0	0.0	0.0	26.0	0.0	0.0	14.0	12.0	11.3	3.0	1.8	3.5	3.0	27.0	27.0	0.0	0.0	0.0	0.0	28.8	0.0	28.8	0.0	0.0	30.0	0.0	0.0	30.0	0.0
11182575	SIMARPREET SINGH	19.0	6.3	12.7	0.0	0.0	20.0	0.0	5.3	6.6	8.1	9.8	1.6	4.6	1.6	2.0	4.0	4.0	0.0	0.0	0.0	0.0	28.8	0.0	28.8	0.0	0.0	30.0	0.0	0.0	30.0	0.0
11182576	KISHAN PANDAY	21.0	6.9	14.1	0.0	0.0	23.0	0.0	6.1	7.6	9.3	11.0	1.8	5.1	1.8	2.2	4.0	4.0	0.0	0.0	0.0	0.0	4.0	0.0	3.0	0.0	0.0	4.0	0.0	0.0	3.0	0.0
11182577	LOKESH	20.0	6.6	13.4	0.0	0.0	19.0	0.0	5.1	6.3	7.7	9.8	1.6	4.6	1.6	2.0	4.0	3.5	0.0	0.0	0.0	0.0	4.0	0.0	3.0	0.0	0.0	4.0	0.0	0.0	0.0	0.0
11182578	SHIVANI	1.0	1.0	0.0	0.0	0.0	30.0	0.0	0.0	15.0	15.0	7.8	0.3	0.0	3.8	3.8	26.0	26.0	0.0	0.0	0.0	0.0	4.0	0.0	3.0	0.0	0.0	4.0	0.0	0.0	4.0	0.0
11182579	ANSHUL SONI	19.0	6.3	12.7	0.0	0.0	22.0	0.0	5.9	7.3	8.9	10.3	1.7	4.8	1.7	2.1	4.0	4.0	0.0	0.0	0.0	0.0	28.8	0.0	28.8	0.0	0.0	30.0	0.0	0.0	30.0	0.0
11182580	SUSMITA KARKI CHHETRI	16.0	10.0	6.0	0.0	0.0	30.0	0.0	0.0	15.0	15.0	11.5	2.5	1.5	3.8	3.8	29.0	29.0	0.0	0.0	0.0	0.0	25.0	0.0	25.0	0.0	0.0	28.8	0.0	0.0	28.8	0.0
11182581	NISHA KARKI	17.5	11.0	6.5	0.0	0.0	30.0	0.0	0.0	15.0	15.0	11.9	2.8	1.6	3.8	3.8	30.0	30.0	0.0	0.0	0.0	0.0	28.8	0.0	28.8	0.0	0.0	28.8	0.0	0.0	28.8	0.0
11182582	RANSPREET KAUR	18.0	5.9	12.1	0.0	0.0	21.0	0.0	5.6	6.9	8.5	9.8	1.6	4.6	1.6	2.0	4.0	3.0	0.0	0.0	0.0	0.0	4.0	0.0	3.0	0.0	0.0	4.0	0.0	0.0	4.0	0.0
11182583	DANISH GUPTA	16.0	5.3	10.7	0.0	0.0	18.0	0.0	4.8	5.9	7.3	8.5	1.4	4.0	1.4	1.7	4.0	0.0	0.0	0.0	0.0	4.0	0.0	0.0	0.0	0.0	4.0	0.0	0.0	4.0	0.0	
11182585	AYAN KAPIL	17.0	5.6	11.4	0.0	0.0	18.0	0.0	4.8	5.9	7.3	8.8	1.5	4.1	1.5	1.8	4.0	4.0	0.0	0.0	0.0	0.0	4.0	0.0	3.0	0.0	0.0	4.0	0.0	0.0	3.0	0.0
11182586	RITESH KUMAR SARRAF	Absent	0.0	0.0	0.0	0.0	21.0	0.0	0.0	13.0	8.0	5.3	0.0	0.0	3.3	2.0	25.0	25.0	0.0	0.0	0.0	0.0	26.0	0.0	26.0	0.0	0.0	30.0	0.0	0.0	30.0	0.0
11182587	ARINDER GHOTRA	18.0	5.9	12.1	0.0	0.0	19.0	0.0	5.1	6.3	7.7	9.3	1.5	4.3	1.5	1.9	4.0	4.0	0.0	0.0	0.0	0.0	4.0	0.0	4.0	0.0	0.0	4.0	0.0	0.0	4.0	0.0
11182588	Arjun Singh	17.0	5.6	11.4	0.0	0.0	20.0	0.0	5.3	6.6	8.1	9.3	1.5	4.3	1.5	1.9	4.0	4.0	0.0	0.0	0.0	0.0	4.0	0.0	4.0	0.0	0.0	4.0	0.0	0.0	4.0	0.0
11182589	RITWIK SHARMA	12.0	9.0	3.0	0.0	0.0	30.0	0.0	0.0	15.0	15.0	10.5	2.3	0.8	3.8	3.8	29.0	29.0	0.0	0.0	0.0	0.0	28.8	0.0	28.8	0.0	0.0	28.8	0.0	0.0	28.8	0.0
11182590	MD. FAIM SHAHARIAR SHADHIN	Absent	0.0	0.0	0.0	0.0	Absent	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
11182591	PRINCE ROY	18.0	5.9	12.1	0.0	0.0	19.0	0.0	5.1	6.3	7.7	9.3	1.5	4.3	1.5	1.9	4.0	4.0	0.0	0.0	0.0	0.0	4.0	0.0	4.0	0.0	0.0	4.0	0.0	0.0	4.0	0.0
11182593	PATRICK GODWIN RWEGASIZA	26.5	15.0	11.5	0.0	0.0	20.0	0.0	0.0	10.0	10.0	11.6	3.8	2.9	2.5	2.5	12.0	12.0	0.0	0.0	0.0	0.0	16.0	0.0	16.0	0.0	0.0	20.0	0.0	0.0	20.0	0.0
11182595	SHEIKH RASHID	Absent	0.0	0.0	0.0	0.0	Absent	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	20.0	20.0	0.0	0.0	0.0	0.0	20.0	0.0	20.0	0.0	0.0	20.0	0.0	0.0	20.0	0.0
11182596	NISHU BHASKAR YADAV	7.5	3.5	4.0	0.0	0.0	29.0	0.0	0.0	14.0	15.0	9.1	0.9	1.0	3.5	3.8	26.5	26.5	0.0	0.0	0.0	0.0	25.2	0.0	25.2	0.0	0.0	30.0	0.0	0.0	30.0	0.0
11182597	JULLY DAS	Absent	0.0	0.0	0.0	0.0	20.0	0.0	0.0	10.0	10.0	5.0	0.0	0.0	2.5	2.5	28.0	28.0	0.0	0.0	0.0	0.0	28.0	0.0	28.0	0.0	0.0	30.0	0.0	0.0	30.0	0.0
11182598	ABINASH	9.0	7.0	2.0	0.0	0.0	14.0	0.0	0.0	9.0	5.0	5.8	1.8	0.5	2.3	1.3	10.0	10.0	0.0	0.0	0.0	0.0	22.0	0.0	22.0	0.0	0.0	28.0	0.0	0.0	28.0	0.0
11182599	SANJEEV KUMAR	Absent	0.0	0.0	0.0	0.0	Absent	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
11182601	PRATIMA GHALE	9.5	8.5	1.0	0.0	0.0	28.0	0.0	0.0	13.0	15.0	9.4	2.1	0.3	3.3	3.8	24.0	24.0	0.0	0.0	0.0	0.0	24.0	0.0	24.0	0.0	0.0	29.0	0.0	0.0	29.0	0.0
11182603	JAYENDRA MALLA	17.5	10.5	7.0	0.0	0.0	17.0	0.0	0.0	10.0	7.0	8.6	2.6	1.8	2.5	1.8	28.0	28.0	0.0	0.0	0.0	0.0	28.0	0.0	28.0	0.0	0.0	29.0	0.0	0.0	29.0	0.0
11182604	ANKUSH RANGA	19.0	6.3	12.7	0.0	0.0	21.0	0.0	5.6	6.9	8.5	10.0	1.7	4.7	1.7	2.0	4.0	4.0	0.0	0.0	0.0	0.0	4.0	0.0	4.0	0.0	0.0	4.0	0.0	0.0	4.0	0.0
11182605	RAGHAV MITTAL	2.5	1.5	1.0	0.0	0.0	20.0	0.0	0.0	10.0	10.0	5.6	0.4	0.3	2.5	2.5	8.0	8.0	0.0	0.0	0.0	0.0	20.0	0.0	20.0	0.0	0.0	15.0	0.0	0.0	15.0	0.0
11182606	PANKAJ JOSHI	17.0	11.5	5.5	0.0	0.0	23.0	0.0	0.0	13.0	10.0	10.0	2.9	1.4	3.3	2.5	29.0	29.0	0.0	0.0	0.0	0.0	29.0	0.0	29.0	0.0	0.0	27.6	0.0	0.0	27.6	0.0
11182607	MUKUL ARORA	12.5	8.5	4.0	0.0	0.0	23.0	0.0	0.0	12.0	11.0	8.9	2.1	1.0	3.0	2.8	25.0	25.0	0.0	0.0	0.0	0.0	29.0	0.0	29.0	0.0	0.0	30.0	0.0	0.0	30.0	0.0
11182608	NANCY	11.0	11.0	0.0	0.0	0.0	23.0	0.0	0.0	10.0	13.0	8.5	2.8	0.0	2.5	3.3	26.0	26.0	0.0	0.0	0.0	0.0	26.0	0.0	26.0	0.0	0.0	28.8	0.0	0.0	28.8	0.0
11182611	HIMANSHU SHARMA	Absent	0.0	0.0	0.0	0.0	20.0	0.0	0.0	10.0	10.0	5.0	0.0	0.0	2.5	2.5	30.0	30.0	0.0	0.0	0.0	0.0	27.0	0.0	27.0	0.0	0.0	30.0	0.0	0.0	30.0	0.0
11182613	PUJA KUMARI	8.0	6.5	1.5	0.0	0.0	25.0	0.0	0.0	15.0	10.0	8.3	1.6	0.4	3.8	2.5	27.0	27.0	0.0	0.0	0.0	0.0	25.2	0.0	25.2	0.0	0.0	26.4	0.0	0.0	26.4	0.0
11183102	KARAN VIG	20.0	6.6	13.4	0.0	0.0	20.0	0.0	5.3	6.6	8.1	10.0	1.7	4.7	1.7	2.0	4.0	0.0	0.0	0.0	0.0	4.0	0.0	4.0	0.0	0.0	4.0	0.0	0.0	4.0	0.0	

62  
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30.0	0.0	0.0	0.0	30.0	15.0	3.6	3.6	3.8	3.8	10.0	2.5	2.5	2.5	2.5	39.0	9.6	8.5	9.8	10.0	96.3	84.8	97.5	100.0	39	6.5	7.8	11.7	13.0	65.0	65.0	65.0	65.0							
4.0	0.0	0.0	0.0	4.0	15.0	3.8	3.8	3.8	3.8	8.0	2.0	2.0	2.0	2.0	37	7.4	13.9	7.6	8.1	84.6	104.7	87.2	87.5	38	6.3	7.6	11.4	12.7	63.3	63.3	63.3	63.3							
4.0	0.0	0.0	0.0	0.0	0.0	3.8	3.8	3.8	3.8	9.0	2.3	2.3	2.3	2.3	39	8.5	12.9	8.5	9.0	97.5	97.5	97.5	97.5	44	7.3	8.8	13.2	14.7	73.3	73.3	73.3	73.3							
30.0	0.0	0.0	0.0	30.0	14.0	3.3	3.5	3.6	3.8	10.0	2.5	2.5	2.5	2.5	35.0	7.5	7.1	9.9	10.0	75.0	70.8	98.5	100.0	38	6.3	7.6	11.4	12.7	63.3	63.3	63.3	63.3							
28.8	0.0	0.0	0.0	28.8	14.0	3.6	3.5	3.2	3.6	10.0	2.5	2.5	2.5	2.5	35.0	8.1	7.5	9.0	9.5	80.6	74.8	90.0	95.0	35	5.8	7.0	10.5	11.7	58.3	58.3	58.3	58.3							
30.0	0.0	0.0	0.0	30.0	14.0	3.4	3.6	3.8	3.8	10.0	2.5	2.5	2.5	2.5	36.0	8.9	7.9	9.8	9.3	83.8	77.0	81.5	93.5	35	5.8	7.0	10.5	11.7	58.3	58.3	58.3	58.3							
4.0	0.0	0.0	0.0	0.0	0.0	3.8	3.8	3.8	3.8	7.0	1.8	1.8	1.8	1.8	36	7.2	11.2	7.4	7.9	88.8	78.5	97.5	92.5	38	6.3	7.6	11.4	12.7	63.3	63.3	63.3	63.3							
4.0	0.0	0.0	0.0	4.0	13.6	3.3	2.8	3.8	3.8	9.0	2.3	2.3	2.3	2.3	22	4.8	7.3	4.8	5.1	55.0	55.0	55.0	55.0	35	5.8	7.0	10.5	11.7	58.3	58.3	58.3	58.3							
30.0	0.0	0.0	0.0	30.0	14.0	3.3	3.6	3.8	3.8	10.0	2.5	2.5	2.5	2.5	33.0	6.0	6.1	10.0	10.0	84.6	84.5	87.2	87.5	35	5.8	7.0	10.5	11.7	58.3	58.3	58.3	58.3							
4.0	0.0	0.0	0.0	4.0	15.0	3.8	3.8	3.8	3.8	8.8	2.2	2.2	2.2	2.2	34	7.4	11.3	7.4	7.9	85.0	85.0	100.0	100.0	38	6.3	7.6	11.4	12.7	63.3	63.3	63.3	63.3							
30.0	0.0	0.0	0.0	30.0	14.0	3.6	3.1	3.6	3.8	10.0	2.5	2.5	2.5	2.5	36.0	8.6	7.1	9.9	10.0	86.3	71.3	98.5	100.0	35	5.8	7.0	10.5	11.7	58.3	58.3	58.3	58.3							
30.0	0.0	0.0	0.0	30.0	15.0	3.8	3.6	3.6	3.8	10.0	2.5	2.5	2.5	2.5	37.0	9.0	7.7	9.9	10.0	90.0	77.3	98.5	100.0	41	6.8	8.2	12.3	13.7	68.3	68.3	68.3	68.3							
4.0	0.0	0.0	0.0	3.0	12.2	2.8	2.8	3.8	2.8	2.1	0.5	0.5	0.5	0.5	24	4.8	9.0	5.0	5.3	54.9	67.9	56.6	56.8	35	5.8	7.0	10.5	11.7	58.3	58.3	58.3	58.3							
4.0	0.0	0.0	0.0	0.0	15.0	3.8	3.8	3.8	3.8	8.5	2.1	2.1	2.1	2.1	32	7.0	10.6	7.0	7.4	80.0	80.0	80.0	80.0	35	5.8	7.0	10.5	11.7	58.3	58.3	58.3	58.3							
4.0	0.0	0.0	0.0	3.5	12.7	3.8	2.8	2.8	3.3	9.0	2.3	2.3	2.3	2.3	33	6.6	12.4	6.8	7.2	75.4	93.4	77.8	80.2	35	5.8	7.0	10.5	11.7	58.3	58.3	58.3	58.3							
30.0	0.0	0.0	0.0	30.0	14.0	3.1	3.3	3.8	3.8	5.5	1.4	1.4	1.4	1.4	25.0	4.5	4.6	8.4	7.1	45.0	46.3	83.8	71.3	35	5.8	7.0	10.5	11.7	58.3	58.3	58.3	58.3							
4.0	0.0	0.0	0.0	4.0	15.0	3.8	3.8	3.8	3.8	8.0	2.0	2.0	2.0	2.0	31	6.8	10.3	6.8	7.2	77.5	77.5	77.5	77.5	41	6.8	8.2	12.3	13.7	68.3	68.3	68.3	68.3							
4.0	0.0	0.0	0.0	3.8	13.8	3.8	3.8	2.8	3.5	8.0	2.0	2.0	2.0	2.0	33	6.6	12.4	6.8	7.2	75.4	93.4	77.8	80.2	41	6.8	8.2	12.3	13.7	68.3	68.3	68.3	68.3							
30.0	0.0	0.0	0.0	30.0	15.0	3.6	3.6	3.6	3.8	10.0	2.5	2.5	2.5	2.5	36.0	8.4	6.9	9.9	10.0	83.8	68.5	98.5	100.0	46	7.7	9.2	13.8	15.3	76.7	76.7	76.7	76.7							
0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	*	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	35	5.8	7.0	10.5	11.7	58.3	58.3	58.3	58.3							
4.0	0.0	0.0	0.0	4.0	15.0	3.8	3.8	3.8	3.8	7.0	1.8	1.8	1.8	1.8	34	7.4	11.3	7.4	7.9	85.0	85.0	85.0	85.0	39	6.5	7.8	11.7	13.0	65.0	65.0	65.0	65.0							
30.0	0.0	0.0	0.0	30.0	10.0	1.5	2.0	2.5	3.8	9.0	2.3	2.3	2.3	2.3	31.0	7.5	7.1	7.3	8.5	75.0	71.3	72.5	85.0	35	5.8	7.0	10.5	11.7	58.3	58.3	58.3	58.3							
30.0	0.0	0.0	0.0	30.0	12.0	2.5	2.5	2.5	3.8	6.0	1.5	1.5	1.5	1.5	18.0	4.0	4.0	4.0	5.3	40.0	40.0	40.0	52.5	41	6.8	8.2	12.3	13.7	68.3	68.3	68.3	68.3							
30.0	0.0	0.0	0.0	30.0	14.0	3.3	3.2	3.8	3.8	9.0	2.3	2.3	2.3	2.3	34.0	6.4	6.4	9.5	9.8	64.4	64.0	95.0	97.5	41	6.8	8.2	12.3	13.7	68.3	68.3	68.3	68.3							
30.0	0.0	0.0	0.0	30.0	15.0	3.5	3.5	3.8	3.8	6.0	1.5	1.5	1.5	1.5	28.0	5.0	5.0	7.8	7.8	50.0	50.0	77.5	77.5	39	6.5	7.8	11.7	13.0	65.0	65.0	65.0	65.0							
30.0	0.0	0.0	0.0	30.0	11.0	1.3	2.8	3.5	3.8	7.0	1.8	1.8	1.8	1.8	24.0	4.8	5.0	7.5	6.8	47.5	50.0	75.0	67.5	35	5.8	7.0	10.5	11.7	58.3	58.3	58.3	58.3							
0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	*	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	40	6.7	8.0	12.0	13.3	66.7	66.7	66.7	66.7							
27.0	0.0	0.0	0.0	27.0	13.0	3.0	3.0	3.6	3.4	10.0	2.5	2.5	2.5	2.5	34.0	7.6	5.8	9.4	9.6	76.3	57.5	93.8	96.3	36	6.0	7.2	10.8	12.0	60.0	60.0	60.0	60.0							
30.0	0.0	0.0	0.0	30.0	14.0	3.5	3.5	3.6	3.8	10.0	2.5	2.5	2.5	2.5	34.0	8.6	7.8	8.6	8.0	86.3	77.5	86.3	80.0	39	6.5	7.8	11.7	13.0	65.0	65.0	65.0	65.0							
4.0	0.0	0.0	0.0	4.0	15.0	3.8	3.8	3.8	3.8	8.0	2.0	2.0	2.0	2.0	33	6.6	12.4	6.8	7.2	75.4	93.4	77.8	78.0	35	5.8	7.0	10.5	11.7	58.3	58.3	58.3	58.3							
20.0	0.0	0.0	0.0	20.0	8.0	1.0	2.5	1.9	2.5	10.0	2.5	2.5	2.5	2.5	24.0	3.9	5.3	6.9	7.5	38.8	52.5	68.8	75.0	46	7.7	9.2	13.8	15.3	76.7	76.7	76.7	76.7							
28.8	0.0	0.0	0.0	28.8	14.0	3.6	3.6	3.5	3.6	10.0	2.5	2.5	2.5	2.5	35.0	9.0	7.5	9.2	8.6	90.0	75.0	92.0	86.0	35	5.8	7.0	10.5	11.7	58.3	58.3	58.3	58.3							
30.0	0.0	0.0	0.0	30.0	14.0	3.1	3.6	3.8	3.8	10.0	2.5	2.5	2.5	2.5	34.0	7.8	7.1	9.3	9.0	77.5	71.3	92.5	90.0	35	5.8	7.0	10.5	11.7	58.3	58.3	58.3	58.3							
30.0	0.0	0.0	0.0	30.0	14.0	3.3	3.3	3.6	3.8	9.0	2.3	2.3	2.3	2.3	33.0	8.3	5.5	8.4	9.3	82.5	55.0	83.5	92.5	38	6.3	7.6	11.4	12.7	63.3	63.3	63.3	63.3							
30.0	0.0	0.0	0.0	30.0	15.0	3.8	3.4	3.8	3.8	7.0	1.8	1.8	1.8	1.8	28.0	5.5	5.1	8.0	8.0	55.0	51.3	80.0	80.0	40	6.7	8.0	12.0	13.3	66.7	66.7	66.7	66.7							
30.0	0.0	0.0	0.0	30.0	14.0	3.4	3.2	3.3	3.8	9.0	2.3	2.3	2.3	2.3	33.0	7.3	5.8	9.3	8.5	72.5	57.8	93.0	85.0	35	5.8	7.0	10.5	11.7	58.3	58.3	58.3	58.3							
30.0	0.0	0.0	0.0	30.0	14.0	3.4	3.2	3.3	3.8	9.0	2.3	2.3	2.3	2.3	32	7.0	10.6	7.0	7.4	80.0	80.0	80.0	80.0	35	5.8	7.0	10.5	11.7	58.3	58.3	58.3	58.3							
4.0	0.0	0.0	0.0	0.0	15.0	3.8	3.8	3.8	3.8	7.0	1.8	1.8	1.8	1.8	32	7.0	10.6	7.0	7.4	80.0	80.0	80.0	80.0	35	5.8	7.0	10.5	11.7	58.3	58.3	58.3	58.3							
																								72.5	72.9	79.4	79.8												

Class Average Percentage using CIA & ESA =	CO1	CO2	CO3	CO4
	69.1	69.3	73.2	73.4

b.v.  
 Head  
 Department of Computer  
 Science & Engineering  
 M.M. Engineering College  
 Maharishi Markandehwar  
 (Deemed To Be University)  
 Mullana, Ambala, Haryana-133207

BECE-001 Analog and Digital Electronics

CO1	Able to identify diodes & transistors.	DAL
CO2	Able to apply the knowledge for designing of combinational logic circuits.	3
CO3	Able to apply the knowledge for designing of sequential logic circuits.	3
CO4	Able to work with counters & registers.	3
		3

Roll No.	Name of Student	ST1 (30)					ST2 (30)				SM (15)				AS1 (4)						
		Marks	CO1(0)	CO2 (20)	CO3 (10)	CO4 (0)	Marks	CO1 (20)	CO2 (0)	CO3 (0)	CO4 (10)	Marks	CO1 (5)	CO2 (5)	CO3 (2.5)	CO4 (2.5)	Marks	CO1 (4)	CO2 (0)	CO3 (0)	CO4 (0)
11182501	URBI BISWAS	18.00	0.00	12.00	6.00	0.00	19.00	12.67	0.00	0.00	6.33	9.25	3.17	3.00	1.50	1.58	4.00	4.00	0.00	0.00	0.00
11182502	MD RIYADH UZ ZAMAN	17	0.00	11.33	5.67	0.00	8	5.33	0.00	0.00	2.67	6.25	1.33	2.83	1.42	0.67	4	4.00	0.00	0.00	0.00
11182505	Jamal	16	0.00	10.67	5.33	0.00	20	13.33	0.00	0.00	6.67	9	3.33	2.67	1.33	1.67	3	3.00	0.00	0.00	0.00
11182509	SHANTANU DAS	15	0.00	0.00	0.00	0.00	30	20.00	0.00	0.00	10.00	11.25	5.00	0.00	0.00	2.50	4	4.00	0.00	0.00	0.00
11182510	MD ALIME SORKER	0	0.00	0.00	0.00	0.00	2.5	1.67	0.00	0.00	0.83	0.625	0.42	0.00	0.00	0.21	4	4.00	0.00	0.00	0.00
11182512	SAJAL DAS	15	0.00	0.00	0.00	0.00	30	0.00	0.00	0.00	0.00	11.25	0.00	0.00	0.00	0.00	4	4.00	0.00	0.00	0.00
11182513	JAHDUL HASAN ANTOR	22	0.00	14.67	7.33	0.00	16	10.67	0.00	0.00	5.33	9.5	2.67	3.67	1.83	1.33	3.5	3.50	0.00	0.00	0.00
11182515	KALANDE	20.00	0.00	13.33	6.67	0.00	15.00	10.00	0.00	0.00	5.00	8.75	2.50	3.33	1.67	1.25	4.00	4.00	0.00	0.00	0.00
11182518	ARYAN DUBEY	1	0.00	0.67	0.33	0.00	1	0.67	0.00	0.00	0.33	0.5	0.17	0.17	0.08	0.08	2	2.00	0.00	0.00	0.00
11182520	YOGESH PIPLANI	17.50	0.00	11.67	5.83	0.00	20.00	13.33	0.00	0.00	6.67	9.38	3.33	2.92	1.46	1.67	3.00	3.00	0.00	0.00	0.00
11182521	VAIBHAV GUPTA	13	0.00	8.67	4.33	0.00	6	4.00	0.00	0.00	2.00	4.75	1.00	2.17	1.08	0.50	4	4.00	0.00	0.00	0.00
11182522	PARAS	30	0.00	20.00	10.00	0.00	28	18.67	0.00	0.00	9.33	14.5	4.67	5.00	2.50	2.33	0	4.00	0.00	0.00	0.00
11182524	ANMOL SINGH	18	0.00	12.00	6.00	0.00	6	4.00	0.00	0.00	2.00	6	1.00	3.00	1.50	0.50	4	4.00	0.00	0.00	0.00
11182525	Vikramjeet Singh	28	0.00	0.00	0.00	0.00	28	18.67	0.00	0.00	9.33	14	4.67	0.00	0.00	2.33	4	4.00	0.00	0.00	0.00
11182526	DILPREET SINGH NAGRA	30	0.00	20.00	10.00	0.00	26	17.33	0.00	0.00	8.67	14	4.33	5.00	2.50	2.17	4	4.00	0.00	0.00	0.00
11182527	ARJIT AMIN	20	0.00	13.33	6.67	0.00	22	14.67	0.00	0.00	7.33	10.5	3.67	3.33	1.67	1.83	4	4.00	0.00	0.00	0.00
11182530	KAMALJOT SINGH	18	0.00	12.00	6.00	0.00	23	15.33	0.00	0.00	7.67	10.25	3.83	3.00	1.50	1.92	4	4.00	0.00	0.00	0.00
11182531	Prabhat Sharma	16	0.00	10.67	5.33	0.00	18	12.00	0.00	0.00	6.00	8.5	3.00	2.67	1.33	1.50	4	4.00	0.00	0.00	0.00
11182532	MANAN GUGLANI	29	0.00	19.33	9.67	0.00	29	19.33	0.00	0.00	9.67	14.5	4.83	4.83	2.42	2.42	4	4.00	0.00	0.00	0.00
11182533	ARYAN GARG	20	0.00	13.33	6.67	0.00	23	15.33	0.00	0.00	7.67	10.75	3.83	3.33	1.67	1.92	4	4.00	0.00	0.00	0.00
11182534	RAGHAV GUPTA	20.5	0.00	13.67	6.83	0.00	14	9.33	0.00	0.00	4.67	8.625	2.33	3.42	1.71	1.17	4	4.00	0.00	0.00	0.00
11182535	JATIN AHUJA	28	0.00	18.67	9.33	0.00	27	18.00	0.00	0.00	9.00	13.75	4.50	4.67	2.33	2.25	4	4.00	0.00	0.00	0.00
11182536	DEEPAK SAINI	16	0.00	10.67	5.33	0.00	20	13.33	0.00	0.00	6.67	9	3.33	2.67	1.33	1.67	4	4.00	0.00	0.00	0.00
11182537	SIMRAN GILL	30	0.00	20.00	10.00	0.00	30	20.00	0.00	0.00	0.00	15	5.00	5.00	2.50	0.00	4	4.00	0.00	0.00	0.00
11182538	HARVINDER SINGH	30	0.00	20.00	10.00	0.00	30	20.00	0.00	0.00	0.00	15	5.00	5.00	2.50	0.00	4	4.00	0.00	0.00	0.00
11182539	ADHFAR MUJTABA	Absent	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	15	5.00	5.00	2.50	2.50	4	4.00	0.00	0.00	0.00
11182540	RUPASHI BANSAL	26	0.00	17.33	8.67	0.00	27	18.00	0.00	0.00	9.00	13.25	4.50	4.33	2.17	2.25	4	4.00	0.00	0.00	0.00
11182541	SATYAM SHARMA	10	0.00	6.67	3.33	0.00	12	8.00	0.00	0.00	4.00	5.5	2.00	1.67	0.83	1.00	1	1.00	0.00	0.00	0.00
11182542	GURSHARAN SINGH	16	0.00	10.67	5.33	0.00	23	15.33	0.00	0.00	7.67	9.75	3.83	2.67	1.33	1.92	4	4.00	0.00	0.00	0.00
11182545	RADHIKA	29	0.00	19.33	9.67	0.00	28	18.67	0.00	0.00	9.33	14.25	4.67	4.83	2.42	2.33	4	4.00	0.00	0.00	0.00
11182546	ABHISHEK JAIN	17.5	0.00	11.67	5.83	0.00	20	13.33	0.00	0.00	6.67	9.375	3.33	2.92	1.46	1.67	4	4.00	0.00	0.00	0.00
11182547	Vaibhav Gagneja	20	0.00	13.33	6.67	0.00	30	20.00	0.00	0.00	10.00	12.5	5.00	3.33	1.67	2.50	4	4.00	0.00	0.00	0.00
11182548	SUNAINA	28	0.00	18.67	9.33	0.00	25	16.67	0.00	0.00	8.33	13.25	4.17	4.67	2.33	2.08	4	4.00	0.00	0.00	0.00
11182550	Anuj	18	0.00	12.00	6.00	0.00	20	13.33	0.00	0.00	6.67	9.5	3.33	3.00	1.50	1.67	0	0.00	0.00	0.00	0.00
11182552	HARDIK JAIN	30	0.00	20.00	10.00	0.00	30	20.00	0.00	0.00	10.00	15	5.00	5.00	2.50	2.50	4	4.00	0.00	0.00	0.00
11182554	AKHILESH	30.00	0.00	20.00	10.00	0.00	30.00	20.00	0.00	0.00	10.00	15.00	5.00	5.00	2.50	2.50	4	4.00	0.00	0.00	0.00
11182556	LOVEDEEP	22.00	0.00	14.67	7.33	0.00	28.00	18.67	0.00	0.00	9.33	12.50	4.67	3.67	1.83	2.33	4.00	4.00	0.00	0.00	0.00
11182557	ASHISH KUMAR GIRI	16.00	0.00	10.67	5.33	0.00	18.00	12.00	0.00	0.00	6.00	8.50	3.00	2.67	1.33	1.50	4.00	4.00	0.00	0.00	0.00
11182558	SANTANU KUMAR	20.00	0.00	13.33	6.67	0.00	26.00	17.33	0.00	0.00	8.67	11.50	4.33	3.33	1.67	2.17	4.00	4.00	0.00	0.00	0.00
11182559	ABHEEY RAI	22.00	0.00	14.67	7.33	0.00	21.00	14.00	0.00	0.00	7.00	10.75	3.50	3.67	1.83	1.75	4.00	4.00	0.00	0.00	0.00
11182561	AISHWARYA	15.00	0.00	10.00	5.00	0.00	26.00	17.33	0.00	0.00	8.67	10.25	4.33	2.50	1.25	2.17	3.50	3.50	0.00	0.00	0.00
11182562	RAUSHAN KUMAR	12.50	0.00	8.33	4.17	0.00	15.00	10.00	0.00	0.00	5.00	6.88	2.50	2.08	1.04	1.25	4.00	4.00	0.00	0.00	0.00
11182563	SAGAR	9	0.00	6.00	3.00	0.00	22	0.00	0.00	0.00	0.00	7.75	0.00	1.50	0.75	0.00	4	4.00	0.00	0.00	0.00
11182566	DIGVIJAY PUNDIR	25.00	0.00	16.67	8.33	0.00	26.00	17.33	0.00	0.00	8.67	12.75	4.33	4.17	2.08	2.17	4.00	4.00	0.00	0.00	0.00
11182567	AZAD SINGH	29.00	0.00	19.33	9.67	0.00	29.00	19.33	0.00	0.00	9.67	14.50	4.83	4.83	2.42	2.42	4.00	4.00	0.00	0.00	0.00
11182569	RUPIT	18	0.00	12.00	6.00	0.00	29	19.33	0.00	0.00	9.67	11.75	4.83	3.00	1.50	2.42	4	4.00	0.00	0.00	0.00
11182570	TAJESHWAR SINGH	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
11182571	MUNISH	29.50	0.00	19.67	9.83	0.00	27.00	18.00	0.00	0.00	9.00	14.13	4.50	4.92	2.46	2.25	4.00	4.00	0.00	0.00	0.00

Head of Department of Computer Science & Engineering  
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Target Level	Class average percentage	>=65	Level 3
	Class average percentage	>=55 & <65	Level 2
	Class average percentage	>=50 & <55	Level 1
	Class average percentage	<50	Level 0

AS2 (4)					AS3 (4)					AS4 (4)					ASM (15) (AS*3.75/4)				AM(10) (Marks*2.5/10)					
Marks	CO1 (0)	CO2 (4)	CO3 (0)	CO4 (0)	Marks	CO1 (0)	CO2 (0)	CO3 (4)	CO4 (0)	Marks	CO1 (0)	CO2 (0)	CO3 (0)	CO4 (4)	Marks	CO1 (3.75)	CO2 (3.75)	CO3 (3.75)	CO4 (3.75)	Marks	CO1 (2.5)	CO2 (2.5)	CO3 (2.5)	CO4 (2.5)
4.00	0.00	4.00	0.00	0.00	4.00	0.00	0.00	4.00	0.00	4.00	0.00	0.00	0.00	4.00	15.00	3.75	3.75	3.75	3.75	5.00	1.25	1.25	1.25	1.25
4	0.00	4.00	0.00	0.00	4	0.00	0.00	4.00	0.00	4	0.00	0.00	0.00	4.00	15.0	3.75	3.75	3.75	3.75	5.00	1.25	1.25	1.25	1.25
3.5	0.00	3.50	0.00	0.00	3.5	0.00	0.00	3.50	0.00	4	0.00	0.00	0.00	4.00	13.1	2.81	3.28	3.28	3.75	10.00	2.50	2.50	2.50	2.50
4	0.00	4.00	0.00	0.00	4	0.00	0.00	4.00	0.00	2	0.00	0.00	0.00	2.00	13.1	3.75	3.75	3.75	1.88	10.00	0.00	0.00	0.00	0.00
4	0.00	4.00	0.00	0.00	4	0.00	0.00	4.00	0.00	4	0.00	0.00	0.00	4.00	15.0	3.75	3.75	3.75	3.75	10.00	2.50	2.50	2.50	2.50
3.75	0.00	3.75	0.00	0.00	4	0.00	0.00	2.00	0.00	2	0.00	0.00	0.00	4.00	11.3	3.75	3.75	1.88	1.88	10.00	0.00	0.00	0.00	0.00
4.00	0.00	4.00	0.00	0.00	4	0.00	0.00	4.00	0.00	4	0.00	0.00	0.00	2.00	14.3	3.28	3.52	3.75	1.88	0.00	0.00	0.00	0.00	0.00
2	0.00	2.00	0.00	0.00	2	0.00	0.00	4.00	0.00	4.00	0.00	0.00	0.00	4.00	15.00	3.75	3.75	3.75	3.75	10.00	2.50	2.50	2.50	2.50
3.50	0.00	3.50	0.00	0.00	3.50	0.00	0.00	2.00	0.00	2	0.00	0.00	0.00	4.00	7.5	1.88	1.88	1.88	1.88	10.00	2.50	2.50	2.50	2.50
4	0.00	4.00	0.00	0.00	4	0.00	0.00	3.50	0.00	4.00	0.00	0.00	0.00	2.00	13.13	2.81	3.28	3.28	3.75	10.00	2.50	2.50	2.50	2.50
2	0.00	4.00	0.00	0.00	4	0.00	0.00	4.00	0.00	4	0.00	0.00	0.00	4.00	15.0	3.75	3.75	3.75	3.75	10.00	2.50	2.50	2.50	2.50
4	0.00	4.00	0.00	0.00	4	0.00	0.00	4.00	0.00	4	0.00	0.00	0.00	4.00	15.0	3.75	3.75	3.75	3.75	10.00	2.50	2.50	2.50	2.50
4	0.00	4.00	0.00	0.00	4	0.00	0.00	4.00	0.00	4	0.00	0.00	0.00	4.00	15.0	3.75	3.75	3.75	3.75	10.00	2.50	2.50	2.50	2.50
3.5	0.00	4.00	0.00	0.00	3.5	0.00	0.00	4.00	0.00	4	0.00	0.00	0.00	4.00	15.0	3.75	3.75	3.75	3.75	10.00	2.50	2.50	2.50	2.50
3.75	0.00	4.00	0.00	0.00	4	0.00	0.00	4.00	0.00	3	0.00	0.00	0.00	3.00	14.1	3.75	3.75	3.75	2.81	9.00	2.25	2.25	2.25	2.25
4	0.00	4.00	0.00	0.00	4	0.00	0.00	4.00	0.00	4	0.00	0.00	0.00	4.00	15.0	3.75	3.75	3.75	3.75	10.00	2.50	2.50	2.50	2.50
4	0.00	4.00	0.00	0.00	4	0.00	0.00	4.00	0.00	4	0.00	0.00	0.00	4.00	15.0	3.75	3.75	3.75	3.75	10.00	2.50	2.25	2.25	2.25
4	0.00	4.00	0.00	0.00	4	0.00	0.00	4.00	0.00	4	0.00	0.00	0.00	4.00	15.0	3.75	3.75	3.75	3.75	10.00	2.50	2.50	2.50	2.50
4	0.00	4.00	0.00	0.00	3	0.00	0.00	4.00	0.00	3	0.00	0.00	0.00	4.00	14.1	3.75	3.75	3.75	2.81	10.00	2.50	2.50	2.50	2.50
4	0.00	4.00	0.00	0.00	4	0.00	0.00	4.00	0.00	4	0.00	0.00	0.00	3.00	15.0	3.75	3.75	3.75	3.75	10.00	2.50	2.50	2.50	2.50
4	0.00	4.00	0.00	0.00	4	0.00	0.00	4.00	0.00	4	0.00	0.00	0.00	4.00	15.0	3.75	3.75	3.75	3.75	10.00	2.50	2.50	2.50	2.50
4	0.00	4.00	0.00	0.00	4	0.00	0.00	4.00	0.00	4	0.00	0.00	0.00	4.00	15.0	3.75	3.75	3.75	3.75	10.00	2.50	2.50	2.50	2.50
4	0.00	4.00	0.00	0.00	4	0.00	0.00	4.00	0.00	4	0.00	0.00	0.00	4.00	15.0	3.75	3.75	3.75	3.75	10.00	2.50	2.50	2.50	2.50
4	0.00	4.00	0.00	0.00	4	0.00	0.00	4.00	0.00	4	0.00	0.00	0.00	4.00	15.0	3.75	3.75	3.75	3.75	10.00	2.50	2.50	2.50	2.50
4	0.00	4.00	0.00	0.00	4	0.00	0.00	4.00	0.00	3	0.00	0.00	0.00	3.00	14.1	3.75	3.75	3.75	2.81	9.00	2.25	2.25	2.25	2.25
0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	3.00	0.00	3	0.00	0.00	0.00	3.00	13.1	3.75	3.75	2.81	2.81	10.00	2.50	0.63	0.16	0.04
4	0.00	4.00	0.00	0.00	4	0.00	0.00	4.00	0.00	0.00	0.00	0.00	0.00	0.00	13.1	3.75	3.75	2.81	2.81	10.00	2.50	0.13	0.13	0.13
4	0.00	4.00	0.00	0.00	4	0.00	0.00	4.00	0.00	4	0.00	0.00	0.00	4.00	15.0	3.75	3.75	3.75	3.75	10.00	0.00	0.00	0.00	0.00
4	0.00	4.00	0.00	0.00	1	0.00	0.00	1.00	0.00	2	0.00	0.00	0.00	2.00	7.5	0.94	3.75	0.94	1.88	10.00	2.50	2.50	2.50	2.50
4	0.00	4.00	0.00	0.00	4	0.00	0.00	4.00	0.00	3	0.00	0.00	0.00	3.00	14.1	3.75	3.75	3.75	2.81	10.00	2.50	2.50	2.50	2.50
4	0.00	3.75	0.00	0.00	3	0.00	0.00	4.00	0.00	2	0.00	0.00	0.00	2.00	13.1	3.75	3.75	3.75	1.88	10.00	2.50	2.50	2.50	2.50
4	0.00	4.00	0.00	0.00	4	0.00	0.00	4.00	0.00	3	0.00	0.00	0.00	3.00	13.8	3.75	3.52	3.75	2.81	10.00	2.50	2.50	2.50	2.50
4	0.00	4.00	0.00	0.00	4	0.00	0.00	4.00	0.00	4	0.00	0.00	0.00	4.00	15.0	3.75	3.75	3.75	3.75	10.00	2.50	0.63	0.16	0.04
0	0.00	0.00	0.00	0.00	0	0.00	0.00	0.00	0.00	1	0.00	0.00	0.00	1.00	13.1	3.75	3.75	3.75	1.88	10.00	2.50	2.50	2.50	2.50
4	0.00	4.00	0.00	0.00	4	0.00	0.00	4.00	0.00	1	0.00	0.00	0.00	1.00	12.2	3.75	3.75	3.75	0.94	6.50	1.63	1.63	1.63	1.63
4.00	0.00	4.00	0.00	0.00	4.00	0.00	0.00	4.00	0.00	4.00	0.00	0.00	0.00	4.00	15.00	3.75	3.75	3.75	3.75	9.00	2.25	2.25	2.25	2.25
4.00	0.00	4.00	0.00	0.00	4.00	0.00	0.00	4.00	0.00	3.00	0.00	0.00	0.00	3.00	14.06	3.75	3.75	3.75	3.75	10.00	2.50	2.50	2.50	2.50
4.00	0.00	4.00	0.00	0.00	4.00	0.00	0.00	4.00	0.00	4.00	0.00	0.00	0.00	4.00	15.00	3.75	3.75	3.75	2.81	10.00	2.50	2.50	2.50	2.50
4.00	0.00	4.00	0.00	0.00	4.00	0.00	0.00	4.00	0.00	4.00	0.00	0.00	0.00	4.00	15.00	3.75	3.75	3.75	3.75	10.00	2.50	2.50	2.50	2.50
4.00	0.00	4.00	0.00	0.00	4.00	0.00	0.00	4.00	0.00	4.00	0.00	0.00	0.00	4.00	15.00	3.75	3.75	3.75	3.75	10.00	2.50	2.50	2.50	2.50
3.75	0.00	3.75	0.00	0.00	4.00	0.00	0.00	4.00	0.00	4.00	0.00	0.00	0.00	4.00	15.00	3.75	3.75	3.75	3.75	10.00	2.50	2.50	2.50	2.50
4.00	0.00	4.00	0.00	0.00	4.00	0.00	0.00	4.00	0.00	4.00	0.00	0.00	0.00	4.00	14.30	3.28	3.52	3.75	3.75	10.00	2.50	2.50	2.50	2.50
4	0.00	4.00	0.00	0.00	2	0.00	0.00	2.00	0.00	4	0.00	0.00	0.00	4.00	15.00	3.75	3.75	3.75	3.75	9.00	2.25	2.25	2.25	2.25
4.00	0.00	4.00	0.00	0.00	4.00	0.00	0.00	4.00	0.00	3	0.00	0.00	0.00	3.00	12.2	3.75	3.75	1.88	2.81	10.00	2.50	2.50	2.50	2.50
4.00	0.00	4.00	0.00	0.00	4.00	0.00	0.00	4.00	0.00	4.00	0.00	0.00	0.00	4.00	15.00	3.75	3.75	3.75	3.75	10.00	2.50	2.50	2.50	2.50
4	0.00	4.00	0.00	0.00	4	0.00	0.00	4.00	0.00	4	0.00	0.00	0.00	4.00	15.00	3.75	3.75	3.75	3.75	10.00	2.50	2.50	2.50	2.50
0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.0	0	0	0	0	10.00	2.50	2.50	2.50	2.50
4.00	0.00	4.00	0.00	0.00	4.00	0.00	0.00	4.00	0.00	4.00	0.00	0.00	0.00	4.00	15.00	3.75	3.75	3.75	3.75	10.00	2.50	2.50	2.50	2.50

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$$\text{Direct Attainment Level (DAL)} = 0.6 \cdot \text{CIA} + 0.4 \cdot \text{ESA}$$

Class Average Percentage using CIA & ESA = Attainment Level	CO1	CO2	CO3	CO4
	75.7	73.7	75.0	74.7
	3	3	3	3

Marks	Continuous Internal Assessment (40)				Continuous Internal Assessment %age				End Semester Assessment(60)				End Semester Assessment %age				
	CO1 (11.25)	CO2 (11.25)	CO3 (8.75)	CO4 (8.75)	CO1	CO2	CO3	CO4	Marks	CO1 (15)	CO2 (15)	CO3 (15)	CO4 (15)	CO1	CO2	CO3	CO4
29.00	8.17	8.00	6.50	6.58	72.59	71.11	74.29	75.24	35.00	8.8	8.8	8.8	8.8	58.33	58.33	58.33	58.33
26	6.33	7.83	6.42	5.67	56.30	69.63	73.33	64.76	40	10.0	10.0	10.0	10.0	66.67	66.67	66.67	66.67
32	8.65	8.45	7.11	7.92	76.85	75.09	81.31	90.48	40	10.0	10.0	10.0	10.0	66.67	66.67	66.67	66.67
34	0.00	3.75	3.75	0.00	0.00	33.33	42.86	0.00	40	10.0	10.0	10.0	10.0	66.67	66.67	66.67	66.67
26	6.67	6.25	6.25	6.46	59.26	55.56	71.43	73.81	44	11.0	11.0	11.0	11.0	73.33	73.33	73.33	73.33
34	3.75	3.75	1.88	1.88	33.33	33.33	21.43	21.43	40	10.0	10.0	10.0	10.0	66.67	66.67	66.67	66.67
34	8.45	9.68	8.08	7.58	75.09	86.06	92.38	86.67	40	10.0	10.0	10.0	10.0	66.67	66.67	66.67	66.67
34.00	8.75	9.33	7.67	7.25	77.78	82.96	87.62	82.86	40.00	10.0	10.0	10.0	10.0	66.67	66.67	66.67	66.67
18	4.54	4.54	4.46	4.46	40.37	40.37	50.95	50.95	40	10.0	10.0	10.0	10.0	66.67	66.67	66.67	66.67
32.00	8.65	8.70	7.24	7.92	76.85	77.31	82.74	90.48	40.00	10.0	10.0	10.0	10.0	66.67	66.67	66.67	66.67
30	7.25	8.42	7.33	6.75	64.44	74.81	83.81	77.14	40	10.0	10.0	10.0	10.0	66.67	66.67	66.67	66.67
33	10.92	11.25	8.75	8.58	97.04	100.00	100.00	98.10	43	10.8	10.8	10.8	10.8	71.67	71.67	71.67	71.67
31	7.25	9.25	7.75	6.75	64.44	82.22	88.57	77.14	43	10.8	10.8	10.8	10.8	71.67	71.67	71.67	71.67
37	10.67	6.00	6.00	7.40	94.81	53.33	68.57	84.52	43	10.8	10.8	10.8	10.8	71.67	71.67	71.67	71.67
39	10.58	11.25	8.75	8.42	94.07	100.00	100.00	96.19	43	10.8	10.8	10.8	10.8	71.67	71.67	71.67	71.67
35	9.92	9.33	7.67	7.83	88.15	82.96	87.62	89.52	43	10.8	10.8	10.8	10.8	71.67	71.67	71.67	71.67
35	10.08	9.25	7.75	8.17	89.63	82.22	88.57	93.33	41	10.3	10.3	10.3	10.3	68.33	68.33	68.33	68.33
33	9.25	8.92	7.58	7.75	82.22	79.26	86.67	88.57	43	10.8	10.8	10.8	10.8	71.67	71.67	71.67	71.67
38	11.08	11.08	8.67	7.73	98.52	98.52	99.05	88.33	44	11.0	11.0	11.0	11.0	73.33	73.33	73.33	73.33
36	10.08	9.58	7.92	8.17	89.63	85.19	90.48	93.33	43	10.8	10.8	10.8	10.8	71.67	71.67	71.67	71.67
33	8.58	9.67	7.96	7.42	76.30	85.93	90.95	84.76	43	10.8	10.8	10.8	10.8	71.67	71.67	71.67	71.67
38	10.75	10.92	8.58	8.50	95.56	97.04	98.10	97.14	49	12.3	12.3	12.3	12.3	81.67	81.67	81.67	81.67
32	9.33	8.67	7.33	6.73	82.96	77.04	83.81	76.90	43	10.8	10.8	10.8	10.8	71.67	71.67	71.67	71.67
38	11.25	9.38	6.41	1.91	100.00	83.33	73.21	21.88	49	12.3	12.3	12.3	12.3	81.67	81.67	81.67	81.67
38	11.25	8.88	5.44	5.44	100.00	78.89	62.14	62.14	44	11.0	11.0	11.0	11.0	73.33	73.33	73.33	73.33
*	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.0	0.0	0.0	0.0	0.00	0.00	0.00	0.00
38	10.75	10.58	8.42	8.50	95.56	94.07	96.19	97.14	49	12.3	12.3	12.3	12.3	81.67	81.67	81.67	81.67
23	5.44	7.92	4.27	5.38	48.33	70.37	48.81	61.43	43	10.8	10.8	10.8	10.8	71.67	71.67	71.67	71.67
33	10.08	8.92	7.58	7.23	89.63	79.26	86.67	82.62	43	10.8	10.8	10.8	10.8	71.67	71.67	71.67	71.67
37	10.92	11.08	8.67	6.71	97.04	98.52	99.05	76.67	49	12.3	12.3	12.3	12.3	81.67	81.67	81.67	81.67
33	9.58	8.93	7.71	6.98	85.19	79.40	88.10	79.76	46	11.5	11.5	11.5	11.5	76.67	76.67	76.67	76.67
37	11.25	7.71	5.57	6.29	100.00	68.52	63.69	71.88	44	11.0	11.0	11.0	11.0	73.33	73.33	73.33	73.33
36	10.42	10.92	8.58	6.46	92.59	97.04	98.10	73.81	49	12.3	12.3	12.3	12.3	81.67	81.67	81.67	81.67
17	4.96	4.63	3.13	4.23	44.07	41.16	35.77	48.39	43	10.8	10.8	10.8	10.8	71.67	71.67	71.67	71.67
37	11.00	11.00	8.50	5.69	97.78	97.78	97.14	65.00	44	11.0	11.0	11.0	11.0	73.33	73.33	73.33	73.33
40.00	11.25	11.25	8.75	8.75	100.00	100.00	100.00	100.00	49.00	12.3	12.3	12.3	12.3	81.67	81.67	81.67	81.67
37.00	10.92	9.92	8.08	7.65	97.04	88.15	92.38	87.38	38.00	9.5	9.5	9.5	9.5	63.33	63.33	63.33	63.33
33.00	9.25	8.92	7.58	7.75	82.22	79.26	86.67	88.57	40.00	10.0	10.0	10.0	10.0	66.67	66.67	66.67	66.67
36.00	10.58	9.58	7.92	8.42	94.07	85.19	90.48	96.19	36.00	9.0	9.0	9.0	9.0	60.00	60.00	60.00	60.00
36.00	9.75	9.92	8.08	8.00	86.67	88.15	92.38	91.43	39.00	9.8	9.8	9.8	9.8	65.00	65.00	65.00	65.00
34.00	10.11	8.52	7.50	8.42	89.91	75.69	85.71	96.19	40.00	10.0	10.0	10.0	10.0	66.67	66.67	66.67	66.67
31.00	8.50	8.08	7.04	7.25	75.56	71.85	80.48	82.86	40.00	10.0	10.0	10.0	10.0	66.67	66.67	66.67	66.67
30	6.25	7.75	5.13	5.31	55.56	68.89	58.57	60.71	40	10.0	10.0	10.0	10.0	66.67	66.67	66.67	66.67
38.00	10.58	10.42	8.33	8.42	94.07	92.59	95.24	96.19	36.00	9.0	9.0	9.0	9.0	60.00	60.00	60.00	60.00
40.00	11.08	11.08	8.67	8.67	98.52	98.52	99.05	99.05	48.00	12.0	12.0	12.0	12.0	80.00	80.00	80.00	80.00
37	10.96	9.13	7.63	8.55	97.41	81.16	87.20	97.68	40	10.0	10.0	10.0	10.0	66.67	66.67	66.67	66.67
0	0	0	0	0	0	0	0	0.00	0	0.0	0.0	0	0	0	0	0	0
39.00	10.75	11.17	8.71	8.50	95.56	99.26	99.52	97.14	46.00	11.5	11.5	11.5	11.5	76.67	76.67	76.67	76.67

6/1  
**Head**  
 Department of Computer  
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11182572	ANIKET SHARMA	12.00	0.00	8.00	4.00	0.00	18.00	12.00	0.00	0.00	6.00	7.50	3.00	2.00	1.00	1.50	4.00	4.00	0.00	0.00	0.00
11182573	GAYATRI BHATT	26.00	0.00	17.33	8.67	0.00	29.00	19.33	0.00	0.00	6.00	7.50	3.00	2.00	1.00	1.50	4.00	4.00	0.00	0.00	0.00
11182574	SHAMA MALIK	28.00	0.00	18.67	9.33	0.00	30.00	20.00	0.00	0.00	9.67	13.75	4.83	4.33	2.17	2.42	4.00	4.00	0.00	0.00	0.00
11182575	SIMARPREET SINGH	29	0.00	19.33	9.67	0.00	29	19.33	0.00	0.00	10.00	14.50	5.00	4.67	2.33	2.50	4.00	4.00	0.00	0.00	0.00
11182576	KISHAN PANDAY	4	0.00	0.00	0.00	0.00	3	0.00	0.00	0.00	9.67	14.5	4.83	4.83	2.42	2.42	4	4.00	4.00	0.00	0.00
11182577	LOKESH	29	0.00	19.33	9.67	0.00	29	19.33	0.00	0.00	0.00	1.75	0.00	0.00	0.00	0.00	4	4.00	0.00	0.00	0.00
11182578	SHIVANI	30.00	0.00	20.00	10.00	0.00	30.00	20.00	0.00	0.00	9.67	14.5	4.83	4.83	2.42	2.42	4	4.00	0.00	0.00	0.00
11182579	ANSHUL SONI	26	0.00	0.00	0.00	0.00	28	18.67	0.00	0.00	10.00	15.00	5.00	5.00	2.50	2.50	4	4.00	0.00	0.00	0.00
11182580	SUSMITA KARKI CHHETRI	30.00	0.00	20.00	10.00	0.00	30.00	20.00	0.00	0.00	9.33	13.5	4.67	0.00	0.00	2.33	4	4.00	0.00	0.00	0.00
11182581	NISHA KARKI	30.00	0.00	20.00	10.00	0.00	30.00	20.00	0.00	0.00	10.00	15.00	5.00	5.00	2.50	2.50	4.00	4.00	0.00	0.00	0.00
11182582	RANSPREET KAUR	6	0.00	4.00	2.00	0.00	16	10.67	0.00	0.00	10.00	15.00	5.00	5.00	2.50	2.50	4.00	4.00	0.00	0.00	0.00
11182583	DANISH GUPTA	8	0.00	5.33	2.67	0.00	26	17.33	0.00	0.00	5.33	5.5	2.67	1.00	0.50	1.33	3	3.00	0.00	0.00	0.00
11182585	AYAN KAPIL	20	0.00	13.33	6.67	0.00	27	18.00	0.00	0.00	8.67	8.5	4.33	1.33	0.67	2.17	4	4.00	0.00	0.00	0.00
11182586	RITESH KUMAR SARRAF	17.00	0.00	11.33	5.67	0.00	18.00	12.00	0.00	0.00	9.00	11.75	4.50	3.33	1.67	2.25	4	4.00	0.00	0.00	0.00
11182587	ARINDER GHOTRA	23	0.00	15.33	7.67	0.00	13	8.67	0.00	0.00	6.00	8.75	3.00	2.83	1.42	1.50	4.00	4.00	0.00	0.00	0.00
11182588	Arjun Singh	20	0.00	13.33	6.67	0.00	15	10.00	0.00	0.00	4.33	9	2.17	3.83	1.92	1.08	4	4.00	0.00	0.00	0.00
11182589	RITWIK SHARMA	28.00	0.00	18.67	9.33	0.00	28.00	18.67	0.00	0.00	5.00	8.75	2.50	3.33	1.67	1.25	4	4.00	0.00	0.00	0.00
11182591	PRINCE ROY	27	0.00	18.00	9.00	0.00	19	12.67	0.00	0.00	9.33	14.00	4.67	4.67	2.33	2.33	4.00	4.00	0.00	0.00	0.00
11182592	Shantanu Malik	1	0.00	0.67	0.33	0.00	1	0.67	0.00	0.00	6.33	11.5	3.17	4.50	2.25	1.58	3	3.00	0.00	0.00	0.00
11182593	PATRICK GODWIN RWE GASIRA	30.00	0.00	20.00	10.00	0.00	30.00	20.00	0.00	0.00	0.33	0.5	0.17	0.17	0.08	0.08	1	1.00	0.00	0.00	0.00
11182595	SHEIKH RASHID	ABSent	0.00	0.00	0.00	0.00	15.00	10.00	0.00	0.00	10.00	15.00	5.00	5.00	2.50	2.50	4.00	4.00	0.00	0.00	0.00
11182596	NISHU BHASKAR YADAV	15.00	0.00	10.00	5.00	0.00	20.00	13.33	0.00	0.00	5.00	0.00	2.50	0.00	0.00	1.25	4.00	4.00	0.00	0.00	0.00
11182597	JULLY DAS	22.00	0.00	14.67	7.33	0.00	23.00	15.33	0.00	0.00	6.67	8.75	3.33	2.50	1.25	1.67	4.00	4.00	0.00	0.00	0.00
11182598	ABINASH	22.50	0.00	15.00	7.50	0.00	10.00	6.67	0.00	0.00	7.67	11.25	3.83	3.67	1.83	1.92	4.00	4.00	0.00	0.00	0.00
11182601	PRATIMA GHALE	26.50	0.00	17.67	8.83	0.00	28.00	18.67	0.00	0.00	3.33	8.13	1.67	3.75	1.88	0.83	4.00	4.00	0.00	0.00	0.00
11182603	JAYENDRA MALLA	30.00	0.00	20.00	10.00	0.00	30.00	20.00	0.00	0.00	9.33	13.63	4.67	4.42	2.21	2.33	4.00	4.00	0.00	0.00	0.00
11182604	ANKUSH RANGA	6	0.00	4.00	2.00	0.00	27	18.00	0.00	0.00	10.00	15.00	5.00	5.00	2.50	2.50	4.00	4.00	0.00	0.00	0.00
11182605	RAGHAV MITTAL	Absent	0.00	0.00	0.00	0.00	30.00	20.00	0.00	0.00	9.00	8.25	4.50	1.00	0.50	2.25	4	4.00	0.00	0.00	0.00
11182606	PANKAJ JOSHI	29.50	0.00	19.67	9.83	0.00	24.00	16.00	0.00	0.00	10.00	0.00	5.00	0.00	0.00	2.50	4.00	4.00	0.00	0.00	0.00
11182607	MUKUL ARORA	23.00	0.00	15.33	7.67	0.00	19.00	12.67	0.00	0.00	8.00	13.38	4.00	4.92	2.46	2.00	4.00	4.00	0.00	0.00	0.00
11182608	NANCY	23.00	0.00	15.33	7.67	0.00	25.00	16.67	0.00	0.00	6.33	10.50	3.17	3.83	1.92	1.58	4.00	4.00	0.00	0.00	0.00
11182611	HIMANSHU SHARMA	23.00	0.00	15.33	7.67	0.00	24.00	16.00	0.00	0.00	8.33	12.00	4.17	3.83	1.92	2.08	4.00	4.00	0.00	0.00	0.00
11182613	PUJA KUMARI	24.50	0.00	16.33	8.17	0.00	18.00	12.00	0.00	0.00	8.00	11.75	4.00	3.83	1.92	2.00	4.00	4.00	0.00	0.00	0.00
11183102	KARAN VIG	18	0.00	12.00	6.00	0.00	23	15.33	0.00	0.00	7.67	10.25	3.83	3.00	4.08	2.04	1.50	4.00	4.00	0.00	0.00

6/ Head  
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32.00	9.25	8.25	7.25	7.75	82.22	73.33	82.86	88.57	38.00	9.5	9.5	9.5	9.5	63.33	63.33	63.33	63.33
39.00	11.08	10.58	8.42	8.67	98.52	94.07	96.19	99.05	35.00	8.8	8.8	8.8	8.8	58.33	58.33	58.33	58.33
39.00	11.25	10.92	8.58	8.75	100.00	97.04	98.10	100.00	49.00	12.3	12.3	12.3	12.3	81.67	81.67	81.67	81.67
36	10.21	10.21	7.79	7.79	90.74	90.74	89.05	89.05	44	11.0	11.0	11.0	11.0	73.33	73.33	73.33	73.33
22	6.25	5.31	4.38	4.38	55.56	47.22	50.00	50.00	43	10.8	10.8	10.8	10.8	71.67	71.67	71.67	71.67
37	11.08	10.83	8.42	6.07	98.52	96.30	96.19	69.40	44	11.0	11.0	11.0	11.0	73.33	73.33	73.33	73.33
40.00	11.25	11.00	8.50	8.50	100.00	97.78	97.14	97.14	45.00	11.3	11.3	11.3	11.3	75.00	75.00	75.00	75.00
34	10.42	3.75	3.75	4.21	92.59	33.33	42.86	48.10	48	12.0	12.0	12.0	12.0	80.00	80.00	80.00	80.00
40.00	11.25	11.25	8.75	8.75	100.00	100.00	100.00	100.00	49.00	12.3	12.3	12.3	12.3	81.67	81.67	81.67	81.67
40.00	11.25	11.25	8.75	8.75	100.00	100.00	100.00	100.00	45.00	11.3	11.3	11.3	11.3	75.00	75.00	75.00	75.00
24	7.48	5.81	4.38	7.08	66.48	51.67	50.00	80.95	43	10.8	10.8	10.8	10.8	71.67	71.67	71.67	71.67
32	10.33	7.33	6.67	8.17	91.85	65.19	76.19	93.33	45	11.3	11.3	11.3	11.3	75.00	75.00	75.00	75.00
33	10.75	8.65	5.10	7.56	95.56	-76.85	58.33	86.43	46	11.5	11.5	11.5	11.5	76.67	76.67	76.67	76.67
29.00	8.38	8.21	6.79	5.94	74.44	72.96	77.62	67.86	35.00	8.8	8.75	8.8	8.8	58.33	58.33	58.33	58.33
31	8.42	10.08	5.35	7.33	74.81	89.63	61.19	83.81	40	10.0	10.0	10.0	10.0	66.67	66.67	66.67	66.67
33	8.75	9.58	6.98	7.27	77.78	85.19	79.76	83.04	44	11.0	11.0	11.0	11.0	73.33	73.33	73.33	73.33
39.00	10.92	10.68	8.58	8.58	97.04	94.95	98.10	98.10	45.00	11.3	11.3	11.3	11.3	75.00	75.00	75.00	75.00
34	8.48	9.81	8.50	7.83	75.37	87.22	97.14	89.52	40	10.0	10.0	10.0	10.0	66.67	66.67	66.67	66.67
9	2.85	2.85	1.83	1.83	25.37	25.37	20.95	20.95	40	10.0	10.0	10.0	10.0	66.67	66.67	66.67	66.67
40.00	11.25	11.00	8.50	8.50	100.00	97.78	97.14	97.14	49.00	12.3	12.25	12.3	12.3	81.67	81.67	81.67	81.67
28.00	8.50	6.00	6.00	7.25	75.56	53.33	68.57	82.86	0.00	0.0	0.00	0.0	0.0	0.00	0.00	0.00	0.00
33.00	9.58	8.75	6.56	7.68	85.19	77.78	75.00	87.80	39.00	9.8	9.75	9.8	9.8	65.00	65.00	65.00	65.00
37.00	10.08	9.92	8.08	8.17	89.63	88.15	92.38	93.33	35.00	8.8	8.75	8.8	8.8	58.33	58.33	58.33	58.33
33.00	7.92	10.00	8.13	7.08	70.37	88.89	92.86	80.95	35.00	8.8	8.75	8.8	8.8	58.33	58.33	58.33	58.33
38.00	10.92	10.67	7.52	8.58	97.04	94.81	85.95	98.10	45.00	11.3	11.3	11.3	11.3	75.00	75.00	75.00	75.00
40.00	11.25	11.25	8.75	8.75	100.00	100.00	100.00	100.00	36.00	9.0	9.0	9.0	9.0	60.00	60.00	60.00	60.00
33	10.75	7.25	6.75	8.50	95.56	64.44	77.14	97.14	40	10.0	10.0	10.0	10.0	66.67	66.67	66.67	66.67
32.00	11.00	6.00	6.00	8.50	97.78	53.33	68.57	97.14	35.00	8.8	8.8	8.8	8.8	58.33	58.33	58.33	58.33
39.00	10.25	11.17	8.71	8.25	91.11	99.26	99.52	94.29	48.00	12.0	12.0	12.0	12.0	80.00	80.00	80.00	80.00
35.00	9.42	10.08	8.17	7.83	83.70	89.63	93.33	89.52	44.00	11.0	11.0	11.0	11.0	73.33	73.33	73.33	73.33
37.00	10.42	10.08	8.17	8.33	92.59	89.63	93.33	95.24	43.00	10.8	10.8	10.8	10.8	71.67	71.67	71.67	71.67
33.00	10.00	8.90	6.98	7.06	88.89	79.07	79.76	80.71	35.00	8.8	8.8	8.8	8.8	58.33	58.33	58.33	58.33
35.00	9.13	9.71	7.67	7.13	81.11	86.30	87.62	81.43	43.00	10.8	10.75	10.8	10.8	71.67	71.67	71.67	71.67
32	10.08	9.25	7.75	5.35	89.63	82.22	88.57	61.19	43	10.8	10.8	10.75	10.75	71.67	71.67	71.67	71.67
					80.95	77.61	79.66	79.24						67.95	67.95	67.95	67.95

Class Average Percentage using CIA & ESA =	CO1	CO2	CO3	CO4
	75.7	73.7	75.0	74.7

62  
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BCSE-509 (Object Oriented Programming using Java)		DAL
CO1	Understand the concept of OOP as well as the purpose and usage principles of inheritance, polymorphism, encapsulation and method overloading	3
CO2	Identify classes, objects, members of a class and the relationships among them needed for a specific problem	3
CO3	Able to understand about Java programming language and use of a Java-enabled browser to execute Java applets	3
CO4	To teach students about concurrent programming using Java	3
CO5	Ability to write programs based on client server programming	3
CO6	Acquire knowledge about basic graphical user interface components, program coding based on event handling	3

Roll No.	Name of Student	ST1 (30)						ST2 (30)						SM (15)						AS1 (30)								
		ST1 Marks	CO1 (15)	CO2 (15)	CO3 (0)	CO4 (0)	CO5 (0)	CO6 (0)	ST2 Marks	CO1 (0)	CO2 (0)	CO3 (10)	CO4 (10)	CO5 (5)	CO6 (5)	SM Marks	CO1 (3.8)	CO2 (3.8)	CO3 (2.5)	CO4 (2.5)	CO5 (1.2)	CO6 (1.2)	AS1 Marks	CO1 (30)	CO2 (0)	CO3 (0)	CO4 (0)	CO5 (0)
11182501	URBI BISWAS	20	10	10	0	0	0	20	0	0	7	7	3	3	10	2.5	2.5	1.7	1.7	0.8	0.8	20	20	0	0	0	0	0
11182502	MD RIYADH UZ ZAMAN	20	10	10	0	0	0	20	0	0	7	7	3	3	10	2.5	2.5	1.7	1.7	0.8	0.8	20	20	0	0	0	0	0
11182505	JAMAL	30	15	15	0	0	0	30	0	0	10	10	5	5	15	3.8	3.8	2.5	2.5	1.2	1.2	24	24	0	0	0	0	0
11182509	SHANTANU DAS	30	15	15	0	0	0	30	0	0	10	10	5	5	15	3.8	3.8	2.5	2.5	1.2	1.2	24	24	0	0	0	0	0
11182510	MD ALIME SORKER	0	0	0	0	0	0	30	0	0	10	10	5	5	15	3.8	3.8	2.5	2.5	1.2	1.2	30	30	0	0	0	0	0
11182512	SAJAL DAS	30	15	15	0	0	0	30	0	0	10	10	5	5	7	0.0	0.0	2.5	2.5	1.2	1.2	30	30	0	0	0	0	0
11182513	JAHIDUL HASAN ANTOR	28	14	14	0	0	0	30	0	0	10	10	5	5	15	3.8	3.8	2.5	2.5	1.2	1.2	30	30	0	0	0	0	0
11182515	KALANDE	10	5	5	0	0	0	10	0	0	3	3	2	2	5	1.3	1.3	0.8	0.8	0.4	0.4	30	30	0	0	0	0	0
11182518	ARYAN DUBEY	10	5	5	0	0	0	8	0	0	3	3	1	1	5	1.3	1.3	0.7	0.7	0.3	0.3	20	20	0	0	0	0	0
11182520	YOGESH PIPLANI	30	15	15	0	0	0	30	0	0	10	10	5	5	15	3.8	3.8	2.5	2.5	1.2	1.2	24	24	0	0	0	0	0
11182521	VAIBHAV GUPTA	22	11	11	0	0	0	30	0	0	10	10	5	5	13	2.8	2.8	2.5	2.5	1.2	1.2	24	24	0	0	0	0	0
11182522	PARAS	28	14	14	0	0	0	30	0	0	10	10	5	5	14	3.5	3.5	2.5	2.5	1.2	1.2	30	30	0	0	0	0	0
11182524	ANMOL SINGH	24	12	12	0	0	0	22	0	0	7	7	4	4	12	3.0	3.0	1.8	1.8	0.9	0.9	30	30	0	0	0	0	0
11182525	VIKRAMJEET SINGH	30	15	15	0	0	0	30	0	0	10	10	5	5	15	3.8	3.8	2.5	2.5	1.2	1.2	30	30	0	0	0	0	0
11182526	DILPREET SINGH NAGRA	18	9	9	0	0	0	30	0	0	10	10	5	5	12	2.3	2.3	2.5	2.5	1.2	1.2	30	30	0	0	0	0	0
11182527	ARJIT AMIN	20	10	10	0	0	0	24	0	0	8	8	4	4	11	2.5	2.5	2.0	2.0	1.0	1.0	30	30	0	0	0	0	0
11182530	KAMALIOT SINGH	16	8	8	0	0	0	27	0	0	9	9	5	5	11	2.0	2.0	2.3	2.3	1.1	1.1	30	30	0	0	0	0	0
11182531	PRABHAT SHARMA	10	5	5	0	0	0	24	0	0	8	8	4	4	8	1.3	1.3	2.0	2.0	1.0	1.0	30	30	0	0	0	0	0
11182532	MANAN GUGLANI	24	12	12	0	0	0	30	0	0	10	10	5	5	13	3.0	3.0	2.5	2.5	1.2	1.2	30	30	0	0	0	0	0
11182533	ARYAN GARG	20	10	10	0	0	0	23	0	0	8	8	4	4	8	2.5	2.5	1.9	1.9	0.9	0.9	30	30	0	0	0	0	0
11182534	RAGHAV GUPTA	14	7	7	0	0	0	28	0	0	9	9	5	5	10	1.8	1.8	2.3	2.3	1.1	1.1	30	30	0	0	0	0	0
11182535	JATIN AHUJA	18	9	9	0	0	0	30	0	0	10	10	5	5	12	2.3	2.3	2.5	2.5	1.2	1.2	30	30	0	0	0	0	0
11182536	DEEPAK SAINI	2	1	1	0	0	0	25	0	0	8	8	4	4	7	0.3	0.3	2.1	2.1	1.0	1.0	30	30	0	0	0	0	0
11182537	SIMRAN GILL	22	11	11	0	0	0	26	0	0	9	9	4	4	12	2.8	2.8	2.2	2.2	1.0	1.0	30	30	0	0	0	0	0
11182538	HARVINDER SINGH	24	12	12	0	0	0	28	0	0	9	9	5	5	13	3.0	3.0	2.3	2.3	1.1	1.1	30	30	0	0	0	0	0
11182539	ADHFAR MUJTABA	30	15	15	0	0	0	30	0	0	10	10	5	5	15	3.8	3.8	2.5	2.5	1.2	1.2	30	30	0	0	0	0	0
11182540	RUPASHI BANSAL	24	12	12	0	0	0	26	0	0	9	9	4	4	12	3.0	3.0	2.2	2.2	1.0	1.0	30	30	0	0	0	0	0
11182541	SATYAM SHARMA	10	5	5	0	0	0	28	0	0	9	9	5	5	9	1.3	1.3	2.3	2.3	1.1	1.1	30	30	0	0	0	0	0
11182542	GURSHARAN SINGH	30	15	15	0	0	0	30	0	0	10	10	5	5	15	3.8	3.8	2.5	2.5	1.2	1.2	30	30	0	0	0	0	0
11182545	RADHIKA	24	12	12	0	0	0	24	0	0	8	8	4	4	12	3.0	3.0	2.0	2.0	1.0	1.0	30	30	0	0	0	0	0
11182546	ABHISHEK JAIN	20	10	10	0	0	0	22	0	0	7	7	4	4	10	2.5	2.5	1.8	1.8	0.9	0.9	30	30	0	0	0	0	0
11182547	VAIBHAV GAGNEJA	20	10	10	0	0	0	28	0	0	9	9	5	5	12	2.5	2.5	2.3	2.3	1.1	1.1	30	30	0	0	0	0	0
11182548	SUNAINA	30	15	15	0	0	0	30	0	0	10	10	5	5	15	3.8	3.8	2.5	2.5	1.2	1.2	30	30	0	0	0	0	0
11182550	ANJU KUMAR	10	5	5	0	0	0	10	0	0	3	3	2	2	5	1.3	1.3	0.8	0.8	0.4	0.4	30	30	0	0	0	0	0
11182552	HARDIK JAIN	20	10	10	0	0	0	28	0	0	9	9	5	5	12	2.5	2.5	2.3	2.3	1.1	1.1	30	30	0	0	0	0	0
11182554	AKHILESH	0	0	0	0	0	0	30	0	0	10	10	5	5	7	0.0	0.0	2.5	2.5	1.2	1.2	30	30	0	0	0	0	0
11182556	LOVEDEEP	20	10	10	0	0	0	24	0	0	8	8	4	4	11	2.5	2.5	2.0	2.0	1.0	1.0	30	30	0	0	0	0	0
11182557	ASHISH KUMAR GIRI	16	8	8	0	0	0	27	0	0	9	9	5	5	11	2.0	2.0	2.3	2.3	1.1	1.1	30	30	0	0	0	0	0
11182558	SANTANU KUMAR	10	5	5	0	0	0	24	0	0	8	8	4	4	8	1.3	1.3	2.0	2.0	1.0	1.0	30	30	0	0	0	0	0
11182559	ABHEEY RAI	24	12	12	0	0	0	30	0	0	10	10	5	5	13	3.0	3.0	2.5	2.5	1.2	1.2	30	30	0	0	0	0	0
11182561	AISHWARYA	30	15	15	0	0	0	30	0	0	10	10	5	5	15	3.8	3.8	2.5	2.5	1.2	1.2	30	30	0	0	0	0	0
11182562	RAUSHAN KUMAR	20	10	10	0	0	0	23	0	0	8	8	4	4	11	2.5	2.5	1.9	1.9	0.9	0.9	30	30	0	0	0	0	0
11182563	SAGAR	20	10	10	0	0	0	28	0	0	9	9	5	5	12	2.5	2.5	2.3	2.3	1.1	1.1	30	30	0	0	0	0	0
11182566	DIGVIJAY PUNDIR	14	7	7	0	0	0	28	0	0	9	9	5	5	10	1.8	1.8	2.3	2.3	1.1	1.1	30	30	0	0	0	0	0
11182567	AZAD SINGH	18	9	9	0	0	0	30	0	0	10	10	5	5	12	2.3	2.3	2.5	2.5	1.2	1.2	30	30	0	0	0	0	0
11182569	RUPIT	22	11	11	0	0	0	26	0	0	9	9	4	4	12	2.8	2.8	2.2	2.2	1.0	1.0	30	30	0	0	0	0	0
11182570	TAJESHWAR SINGH	0	0	0	0	0	0	0	0	0	0	0	0	0	0.0	0.0	0.0	0.0	0.0	0.0	0	0	0	0	0	0	0	0

62  
 Head  
 Department of Computer  
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 M.M. Engineering College  
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Target Level	Class average percentage	>=65	Level 3
	Class average percentage	>=55 & <65	Level 2
	Class average percentage	>=50 & <55	Level 1
	Class average percentage	<50	Level 0

AS2 (30)						AS3 (30)						AS4 (30)						ASM (15) (AS*CO-WEIGHTAGE/30)						AM(10) (Marks*2.5/10)											
AS2 Marks	CO1 (0)	CO2 (30)	CO3 (0)	CO4 (0)	CO5 (0)	CO6 (0)	AS3 Marks	CO1 (0)	CO2 (0)	CO3 (15)	CO4 (15)	CO5 (0)	CO6 (0)	AS4 Marks	CO1 (0)	CO2 (0)	CO3 (0)	CO4 (0)	CO5 (15)	CO6 (15)	ASM Marks	CO1 (3.8)	CO2 (3.8)	CO3 (2.5)	CO4 (2.5)	CO5 (1.2)	CO6 (1.2)	AM Marks	CO1 (1.66)	CO2 (1.66)	CO3 (1.66)	CO4 (1.66)	CO5 (1.66)	CO6 (1.66)	
22	0	22	0	0	0	0	20	0	0	10	10	0	0	20	0	0	0	0	10	10	10	2.5	2.8	1.7	1.7	0.8	0.8	6	1.0	1.0	1.0	1.0	1.0	1.0	
22	0	22	0	0	0	0	20	0	0	10	10	0	0	20	0	0	0	0	10	10	10	10	2.5	2.8	1.7	1.7	0.8	0.8	6	1.0	1.0	1.0	1.0	1.0	1.0
20	0	20	0	0	0	0	20	0	0	10	10	0	0	30	0	0	0	0	15	15	15	11	3.0	2.5	1.7	1.7	1.2	1.2	6	1.0	1.0	1.0	1.0	1.0	1.0
20	0	20	0	0	0	0	20	0	0	10	10	0	0	20	0	0	0	0	10	10	10	11	3.8	2.5	1.7	1.7	0.8	0.8	8	1.3	1.3	1.3	1.3	1.3	1.3
30	0	30	0	0	0	0	20	0	0	10	10	0	0	20	0	0	0	0	10	10	10	13	3.8	3.8	1.7	1.7	0.8	0.8	6	1.0	1.0	1.0	1.0	1.0	1.0
20	0	20	0	0	0	0	20	0	0	10	10	0	0	20	0	0	0	0	10	10	10	11	3.8	2.5	1.7	1.7	0.8	0.8	8	1.3	1.3	1.3	1.3	1.3	1.3
20	0	20	0	0	0	0	20	0	0	10	10	0	0	20	0	0	0	0	10	10	10	11	3.8	2.5	1.7	1.7	0.8	0.8	9	1.5	1.5	1.5	1.5	1.5	1.5
10	0	10	0	0	0	0	10	0	0	5	5	0	0	10	0	0	0	0	5	5	5	8	3.8	1.3	0.8	0.8	0.4	0.4	4	0.7	0.7	0.7	0.7	0.7	0.7
20	0	20	0	0	0	0	20	0	0	10	10	0	0	10	0	0	0	0	5	5	5	9	2.5	2.5	1.7	1.7	0.4	0.4	4	0.7	0.7	0.7	0.7	0.7	0.7
20	0	20	0	0	0	0	20	0	0	10	10	0	0	30	0	0	0	0	15	15	15	11	3.0	2.5	1.7	1.7	1.2	1.2	6	1.0	1.0	1.0	1.0	1.0	1.0
20	0	20	0	0	0	0	20	0	0	10	10	0	0	20	0	0	0	0	10	10	10	11	3.8	2.5	1.7	1.7	0.8	0.8	6	1.0	1.0	1.0	1.0	1.0	1.0
20	0	20	0	0	0	0	20	0	0	10	10	0	0	20	0	0	0	0	10	10	10	11	3.8	2.5	1.7	1.7	0.8	0.8	7	1.2	1.2	1.2	1.2	1.2	1.2
30	0	30	0	0	0	0	30	0	0	15	15	0	0	30	0	0	0	0	15	15	15	15	3.8	3.8	2.5	2.5	1.2	1.2	10	1.7	1.7	1.7	1.7	1.7	1.7
30	0	30	0	0	0	0	30	0	0	15	15	0	0	30	0	0	0	0	15	15	15	15	3.8	3.8	2.5	2.5	1.2	1.2	7	1.2	1.2	1.2	1.2	1.2	1.2
30	0	30	0	0	0	0	30	0	0	15	15	0	0	30	0	0	0	0	15	15	15	15	3.8	3.8	2.5	2.5	1.2	1.2	10	1.7	1.7	1.7	1.7	1.7	1.7
30	0	30	0	0	0	0	30	0	0	15	15	0	0	30	0	0	0	0	15	15	15	15	3.8	3.8	2.5	2.5	1.2	1.2	9	1.5	1.5	1.5	1.5	1.5	1.5
30	0	30	0	0	0	0	30	0	0	15	15	0	0	30	0	0	0	0	15	15	15	15	3.8	3.8	2.5	2.5	1.2	1.2	9	1.5	1.5	1.5	1.5	1.5	1.5
30	0	30	0	0	0	0	30	0	0	15	15	0	0	30	0	0	0	0	15	15	15	15	3.8	3.8	2.5	2.5	1.2	1.2	10	1.7	1.7	1.7	1.7	1.7	1.7
30	0	30	0	0	0	0	30	0	0	15	15	0	0	30	0	0	0	0	15	15	15	15	3.8	3.8	2.5	2.5	1.2	1.2	10	1.7	1.7	1.7	1.7	1.7	1.7
30	0	30	0	0	0	0	30	0	0	15	15	0	0	30	0	0	0	0	15	15	15	15	3.8	3.8	2.5	2.5	1.2	1.2	10	1.7	1.7	1.7	1.7	1.7	1.7
30	0	30	0	0	0	0	30	0	0	15	15	0	0	30	0	0	0	0	15	15	15	15	3.8	3.8	2.5	2.5	1.2	1.2	10	1.7	1.7	1.7	1.7	1.7	1.7
30	0	30	0	0	0	0	30	0	0	15	15	0	0	30	0	0	0	0	15	15	15	15	3.8	3.8	2.5	2.5	1.2	1.2	10	1.7	1.7	1.7	1.7	1.7	1.7
30	0	30	0	0	0	0	30	0	0	15	15	0	0	30	0	0	0	0	15	15	15	15	3.8	3.8	2.5	2.5	1.2	1.2	10	1.7	1.7	1.7	1.7	1.7	1.7
30	0	30	0	0	0	0	30	0	0	15	15	0	0	30	0	0	0	0	15	15	15	15	3.8	3.8	2.5	2.5	1.2	1.2	10	1.7	1.7	1.7	1.7	1.7	1.7
30	0	30	0	0	0	0	30	0	0	15	15	0	0	30	0	0	0	0	15	15	15	15	3.8	3.8	2.5	2.5	1.2	1.2	10	1.7	1.7	1.7	1.7	1.7	1.7
30	0	30	0	0	0	0	30	0	0	15	15	0	0	30	0	0	0	0	15	15	15	15	3.8	3.8	2.5	2.5	1.2	1.2	10	1.7	1.7	1.7	1.7	1.7	1.7
30	0	30	0	0	0	0	30	0	0	15	15	0	0	30	0	0	0	0	15	15	15	15	3.8	3.8	2.5	2.5	1.2	1.2	10	1.7	1.7	1.7	1.7	1.7	1.7
30	0	30	0	0	0	0	30	0	0	15	15	0	0	30	0	0	0	0	15	15	15	15	3.8	3.8	2.5	2.5	1.2	1.2	10	1.7	1.7	1.7	1.7	1.7	1.7
30	0	30	0	0	0	0	30	0	0	15	15	0	0	30	0	0	0	0	15	15	15	15	3.8	3.8	2.5	2.5	1.2	1.2	10	1.7	1.7	1.7	1.7	1.7	1.7
0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.0	0.0	0.0	0.0	0.0	0.0	0	0.0	0.0	0.0	0.0	0.0	0.0

82  
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Direct Attainment Level (DAL) = 0.6 * CIA + 0.4 * ESA						
	CO1	CO2	CO3	CO4	CO5	CO6
Class Average Percentage using CIA & ESA =	71.4	68.6	72.7	72.7	71.7	71.7
Attainment Level	3	3	3	3	3	3

Marks	Internal Awards (40)						Continuous Internal Assessment % age						External Awards (60)						End Semester Assessment % age						
	CO1 (9.17)	CO2 (9.17)	CO3 (6.67)	CO4 (6.67)	CO5 (4.17)	CO6 (4.17)	CO1	CO2	CO3	CO4	CO5	CO6	Marks	CO1 (15)	CO2 (15)	CO3 (10)	CO4 (10)	CO5 (5)	CO6 (5)	CO1	CO2	CO3	CO4	CO5	CO6
26	6.1	6.3	4.3	4.3	2.6	2.6	66	69	65	62	62	35	8.7	8.7	5.8	5.8	2.9	2.9	58	58	58	58	58	58	
26	6.1	6.3	4.3	4.3	2.6	2.6	66	69	65	62	62	35	8.7	8.7	5.8	5.8	2.9	2.9	58	58	58	58	58	58	
32	7.8	7.3	5.2	5.2	3.4	3.4	85	80	77	77	82	82	35	8.7	8.7	5.8	5.8	2.9	2.9	58	58	58	58	58	58
34	8.9	7.7	5.5	5.5	3.3	3.3	97	84	82	82	80	80	36	8.9	8.9	6.0	6.0	3.0	3.0	60	60	60	60	60	60
26	4.8	4.8	5.2	5.2	3.0	3.0	52	52	77	77	72	72	35	8.8	8.8	5.8	5.8	2.9	2.9	58	58	58	58	58	58
34	8.9	7.7	5.5	5.5	3.3	3.3	97	84	82	82	80	80	36	8.9	8.9	6.0	6.0	3.0	3.0	60	60	60	60	60	60
34	8.8	7.6	5.5	5.5	3.4	3.4	96	83	82	82	80	80	36	8.9	8.9	6.0	6.0	3.0	3.0	60	60	60	60	60	60
17	5.7	3.2	2.3	2.3	1.5	1.5	63	35	35	35	35	35	35	8.7	8.7	5.8	5.8	2.9	2.9	58	58	58	58	58	58
18	4.5	4.5	3.0	3.0	1.4	1.4	49	49	45	45	33	33	35	8.9	8.9	5.9	5.9	3.0	3.0	59	58	58	58	58	58
32	7.8	7.3	5.2	5.2	3.4	3.4	85	80	77	77	82	82	35	8.8	8.8	5.9	5.9	2.9	2.9	59	59	59	59	59	59
30	7.6	6.3	5.2	5.2	3.0	3.0	83	69	77	77	82	82	35	8.7	8.7	5.8	5.8	2.9	2.9	59	59	59	59	59	59
33	8.5	7.2	5.3	5.3	3.2	3.2	93	79	80	80	76	76	35	8.8	8.8	5.9	5.9	2.9	2.9	58	58	58	58	58	58
31	8.2	6.9	4.8	4.8	3.0	3.0	89	75	72	72	72	72	35	8.8	8.8	5.9	5.9	2.9	2.9	59	59	59	59	59	59
37	8.8	8.8	6.2	6.2	3.6	3.6	96	96	92	92	86	86	35	8.8	8.8	5.9	5.9	2.9	2.9	59	59	59	59	59	59
37	7.7	7.7	6.7	6.7	4.1	4.1	84	84	100	100	98	98	35	8.8	8.8	5.8	5.8	2.9	2.9	59	59	59	59	59	59
35	7.8	7.8	6.0	6.0	3.7	3.7	85	85	90	90	88	88	35	9.3	9.3	6.2	6.2	3.1	3.1	62	62	62	62	62	62
35	7.3	7.3	6.3	6.3	3.8	3.8	80	80	94	94	91	91	35	8.8	8.8	5.8	5.8	2.9	2.9	58	58	58	58	58	58
33	6.7	6.7	6.2	6.2	3.8	3.8	73	73	92	92	92	92	35	8.8	8.8	5.9	5.9	2.9	2.9	58	58	58	58	58	58
38	8.5	8.5	6.7	6.7	4.1	4.1	93	93	100	100	98	98	35	8.6	8.6	5.8	5.8	2.9	2.9	59	59	59	59	59	59
36	8.0	8.0	6.1	6.1	3.8	3.8	87	87	91	91	91	91	35	8.6	8.6	5.8	5.8	2.9	2.9	58	58	58	58	58	58
33	6.9	6.9	6.2	6.2	3.7	3.7	75	75	92	92	88	88	35	8.8	8.8	5.9	5.9	2.9	2.9	58	58	58	58	58	58
37	7.7	7.7	6.7	6.7	4.1	4.1	84	84	100	100	98	98	35	8.6	8.6	5.8	5.8	2.9	2.9	59	59	59	59	59	59
32	5.7	5.7	6.3	6.3	3.9	3.9	62	62	94	94	94	94	46	11.5	11.5	7.7	7.7	3.8	3.8	77	77	77	77	77	77
37	8.3	8.3	6.3	6.3	3.9	3.9	90	90	95	95	94	94	35	8.8	8.8	5.9	5.9	2.9	2.9	59	59	59	59	59	59
38	8.5	8.5	6.5	6.5	4.0	4.0	93	93	97	97	96	96	35	8.8	8.8	5.8	5.8	2.9	2.9	58	58	58	58	58	58
34	8.9	7.7	5.5	5.5	3.3	3.3	97	84	82	82	80	80	36	8.9	8.9	6.0	6.0	3.0	3.0	60	60	60	60	60	60
37	8.5	8.5	5.9	5.9	3.9	3.9	93	93	89	89	94	94	48	12.1	12.1	8.1	8.1	4.0	4.0	81	81	81	81	81	81
23	5.9	4.6	4.0	4.0	2.4	2.4	64	51	60	60	56	56	35	8.7	8.7	5.8	5.8	2.9	2.9	58	58	58	58	58	58
38	8.9	8.9	6.3	6.3	3.7	3.7	97	97	95	95	90	90	30	7.5	7.5	5.0	5.0	2.5	2.5	50	50	50	50	50	50
37	8.5	8.5	6.2	6.2	3.8	3.8	93	93	92	92	92	92	50	12.5	12.5	8.3	8.3	4.2	4.2	83	83	83	83	83	83
33	7.7	7.7	5.7	5.7	3.4	3.4	84	84	85	85	82	82	35	8.6	8.6	5.8	5.8	2.9	2.9	58	58	58	58	58	58
37	8.0	8.0	6.5	6.5	4.0	4.0	87	87	97	97	96	96	35	8.8	8.8	5.8	5.8	2.9	2.9	58	58	58	58	58	58
37	8.9	8.9	6.3	6.3	3.4	3.4	97	97	95	95	82	82	52	12.9	12.9	8.6	8.6	4.3	4.3	86	86	86	86	86	86
17	5.7	3.2	2.3	2.3	1.5	1.5	63	35	35	35	35	35	35	8.9	8.9	5.9	5.9	3.0	3.0	59	59	59	59	59	59
37	8.0	8.0	6.5	6.5	4.0	4.0	87	87	97	97	96	96	35	8.8	8.8	5.8	5.8	2.9	2.9	58	58	58	58	58	58
26	4.8	4.8	5.2	5.2	3.0	3.0	52	52	77	77	72	72	35	8.8	8.8	5.8	5.8	2.9	2.9	58	58	58	58	58	58
35	7.8	7.8	6.0	6.0	3.7	3.7	85	85	90	90	88	88	35	8.8	8.8	5.8	5.8	2.9	2.9	58	58	58	58	58	58
35	7.3	7.3	6.3	6.3	3.8	3.8	80	80	94	94	91	91	35	8.8	8.8	5.8	5.8	2.9	2.9	58	58	58	58	58	58
33	6.7	6.7	6.2	6.2	3.8	3.8	73	73	92	92	92	92	35	8.6	8.6	5.9	5.9	2.9	2.9	59	59	59	59	59	59
38	8.5	8.5	6.7	6.7	4.1	4.1	93	93	100	100	98	98	35	8.6	8.6	5.8	5.8	2.9	2.9	58	58	58	58	58	58
34	8.9	7.7	5.5	5.5	3.3	3.3	97	84	82	82	80	80	36	8.9	8.9	6.0	6.0	3.0	3.0	60	60	60	60	60	60
36	8.0	8.0	6.1	6.1	3.8	3.8	87	87	91	91	91	91	35	8.8	8.8	5.9	5.9	2.9	2.9	59	59	59	59	59	59
30	7.5	7.5	4.5	4.5	2.8	2.8	82	82	67	67	66	66	35	8.9	8.9	5.9	5.9	3.0	3.0	59	59	59	59	59	59
33	6.9	6.9	6.2	6.2	3.7	3.7	75	75	92	92	88	88	35	8.6	8.6	5.8	5.8	2.9	2.9	58	58	58	58	58	58
37	7.7	7.7	6.7	6.7	4.1	4.1	84	84	100	100	98	98	46	11.5	11.5	7.7	7.7	3.8	3.8	77	77	77	77	77	77
37	8.3	8.3	6.3	6.3	3.9	3.9	90	95	94	94	94	94	35	8.8	8.8	5.8	5.8	2.9	2.9	58	58	58	58	58	58
0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0	0	0	0	0	0	0.0	0.0	0.0	0.0	0.0	0.0	0	0	0	0	0	0

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 Muradnagar, Haryana-133207

11182571	MUNISH	28	14	14	0	0	0	0	28	0	0	9	9	5	5	14	3.5	3.5	2.3	2.3	1.1	1.1	30	30	0	0	0	0	0	0
11182572	ANIKET SHARMA	10	5	5	0	0	0	0	8	0	0	3	3	1	1	5	1.3	1.3	0.7	0.7	0.3	0.3	20	20	0	0	0	0	0	0
11182573	GAYATRI BHATT	22	11	11	0	0	0	0	30	0	0	10	10	5	5	13	2.8	2.8	2.5	2.5	1.2	1.2	30	30	0	0	0	0	0	0
11182574	SHAMA MAUK	28	14	14	0	0	0	0	30	0	0	10	10	5	5	14	3.5	3.5	2.5	2.5	1.2	1.2	30	30	0	0	0	0	0	0
11182575	SIMARPREET SINGH	16	8	8	0	0	0	0	28	0	0	9	9	5	5	11	2.0	2.0	2.3	2.3	1.1	1.1	30	30	0	0	0	0	0	0
11182576	KISHAN PANDAY	16	8	8	0	0	0	0	30	0	0	10	10	5	5	11	2.0	2.0	2.5	2.5	1.2	1.2	30	30	0	0	0	0	0	0
11182577	LOKESH	20	10	10	0	0	0	0	30	0	0	9	9	5	5	12	2.5	2.5	2.3	2.3	1.1	1.1	30	30	0	0	0	0	0	0
11182578	SHIVANI	24	12	12	0	0	0	0	22	0	0	7	7	4	4	12	3.0	3.0	1.8	1.8	0.9	0.9	30	30	0	0	0	0	0	0
11182579	ANSHUL SONI	10	5	5	0	0	0	0	29	0	0	10	10	5	5	10	1.3	1.3	2.4	2.4	1.2	1.2	30	30	0	0	0	0	0	0
11182580	SUSMITA KARKI CHHETRI	30	15	15	0	0	0	0	30	0	0	10	10	5	5	10	1.3	1.3	2.4	2.4	1.2	1.2	30	30	0	0	0	0	0	0
11182581	NISHA KARKI	18	9	9	0	0	0	0	30	0	0	10	10	5	5	15	3.8	3.8	2.5	2.5	1.2	1.2	30	30	0	0	0	0	0	0
11182582	RANSPREET KAUR	10	5	5	0	0	0	0	20	0	0	10	10	5	5	12	2.3	2.3	2.5	2.5	1.2	1.2	30	30	0	0	0	0	0	0
11182583	DANISH GUPTA	3	1.5	1.5	0	0	0	0	28	0	0	7	7	3	3	7	1.3	1.3	1.7	1.7	0.8	0.8	30	30	0	0	0	0	0	0
11182585	AYAN KAPIL	12	6	6	0	0	0	0	30	0	0	9	9	5	5	8	0.4	0.4	2.3	2.3	1.1	1.1	30	30	0	0	0	0	0	0
11182586	RITESH KUMAR SARRAF	20	10	10	0	0	0	0	28	0	0	10	10	5	5	10	1.5	1.5	2.5	2.5	1.2	1.2	30	30	0	0	0	0	0	0
11182587	ARINDER GHOTRA	0	0	0	0	0	0	0	28	0	0	9	9	5	5	12	2.5	2.5	2.3	2.3	1.1	1.1	30	30	0	0	0	0	0	0
11182588	ARJUN SINGH	8	4	4	0	0	0	0	24	0	0	8	8	4	4	6	0.0	0.0	2.0	2.0	1.0	1.0	30	30	0	0	0	0	0	0
11182589	RITWIK SHARMA	2	1	1	0	0	0	0	30	0	0	10	10	5	5	9	1.0	1.0	2.5	2.5	1.2	1.2	30	30	0	0	0	0	0	0
11182591	PRINCE ROY	20	10	10	0	0	0	0	24	0	0	8	8	4	4	7	0.3	0.3	2.1	2.1	1.0	1.0	30	30	0	0	0	0	0	0
11182592	SHANTANU MALIK	10	5	5	0	0	0	0	20	0	0	7	7	3	3	7	1.3	1.3	1.7	1.7	0.8	0.8	30	30	0	0	0	0	0	0
11182593	PATRICK GODWIN RWEGASIRA	20	10	10	0	0	0	0	28	0	0	9	9	5	5	12	2.5	2.5	2.3	2.3	1.1	1.1	30	30	0	0	0	0	0	0
11182594	MANISH MISHRA	22	11	11	0	0	0	0	26	0	0	9	9	4	4	12	2.8	2.8	2.2	2.2	1.0	1.0	30	30	0	0	0	0	0	0
11182595	SHEIKH RASHID	22	11	11	0	0	0	0	26	0	0	9	9	4	4	12	2.8	2.8	2.2	2.2	1.0	1.0	30	30	0	0	0	0	0	0
11182596	NISHU BHASKAR YADAV	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.0	0.0	0.0	0.0	0.0	0.0	0	0	0	0	0	0	0	0	
11182597	JULY DAS	16	8	8	0	0	0	0	28	0	0	9	9	5	5	11	2.0	2.0	2.3	2.3	1.1	1.1	30	30	0	0	0	0	0	0
11182598	ABINASH	16	8	8	0	0	0	0	30	0	0	10	10	5	5	11	2.0	2.0	2.3	2.3	1.1	1.1	30	30	0	0	0	0	0	0
11182601	PRATIMA GHALE	24	12	12	0	0	0	0	28	0	0	9	9	4	4	12	3.0	3.0	2.2	2.2	1.0	1.0	30	30	0	0	0	0	0	0
11182603	JAYENDRA MALLA	24	12	12	0	0	0	0	26	0	0	9	9	5	5	13	3.0	3.0	2.3	2.3	1.1	1.1	30	30	0	0	0	0	0	0
11182604	ANKUSH RANGA	24	12	12	0	0	0	0	26	0	0	9	9	4	4	12	3.0	3.0	2.2	2.2	1.0	1.0	30	30	0	0	0	0	0	0
11182605	RAGHAV MITTAL	10	5	5	0	0	0	0	28	0	0	5	5	2	2	10	3.0	3.0	1.2	1.2	0.6	0.6	30	30	0	0	0	0	0	0
11182606	PANKAJ JOSHI	30	15	15	0	0	0	0	30	0	0	9	9	5	5	9	1.3	1.3	2.3	2.3	1.1	1.1	30	30	0	0	0	0	0	0
11182607	MUKUL ARORA	24	12	12	0	0	0	0	24	0	0	10	10	5	5	15	3.8	3.8	2.5	2.5	1.2	1.2	30	30	0	0	0	0	0	0
11182608	NANCY	20	10	10	0	0	0	0	22	0	0	7	7	4	4	12	3.0	3.0	2.0	2.0	1.0	1.0	30	30	0	0	0	0	0	0
11182611	HIMANSHU SHARMA	20	10	10	0	0	0	0	28	0	0	9	9	5	5	10	2.5	2.5	1.8	1.8	0.9	0.9	30	30	0	0	0	0	0	0
11182613	PUJA KUMARI	30	15	15	0	0	0	0	30	0	0	10	10	5	5	12	2.5	2.5	2.3	2.3	1.1	1.1	30	30	0	0	0	0	0	0
11183102	KARAN VIG	10	5	5	0	0	0	0	22	0	0	7	7	4	4	8	1.3	1.3	1.8	1.8	0.9	0.9	30	30	0	0	0	0	0	0

52  
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20	0	20	0	0	0	0	0	20	0	0	10	10	0	0	20	0	0	0	0	10	10	11	3.8	2.5	1.7	1.7	0.8	0.8	9	1.5	1.5	1.5	1.5	1.5	1.5
20	0	20	0	0	0	0	20	0	0	10	10	0	0	10	0	0	0	0	5	5	9	9	2.5	2.5	1.7	1.7	0.4	0.4	4	0.7	0.7	0.7	0.7	0.7	0.7
20	0	20	0	0	0	0	20	0	0	10	10	0	0	20	0	0	0	0	10	10	11	3.8	2.5	1.7	1.7	0.8	0.8	6	1.0	1.0	1.0	1.0	1.0	1.0	
30	0	30	0	0	0	0	20	0	0	10	10	0	0	20	0	0	0	0	10	10	11	3.8	2.5	1.7	1.7	0.8	0.8	7	1.2	1.2	1.2	1.2	1.2	1.2	
0	0	0	0	0	0	0	30	0	0	15	15	0	0	30	0	0	0	0	15	15	15	15	3.8	3.8	2.5	2.5	1.2	1.2	10	1.7	1.7	1.7	1.7	1.7	1.7
30	0	30	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	4	3.8	0.0	0.0	0.0	0.0	0.0	7	1.2	1.2	1.2	1.2	1.2	1.2
20	0	20	0	0	0	0	20	0	0	10	10	0	0	20	0	0	0	0	15	15	15	15	3.8	3.8	2.5	2.5	1.2	1.2	10	1.7	1.7	1.7	1.7	1.7	1.7
30	0	30	0	0	0	0	25	0	0	13	12.5	0	0	20	0	0	0	0	10	10	11	3.8	2.5	1.7	1.7	0.8	0.8	8	1.3	1.3	1.3	1.3	1.3	1.3	
30	0	30	0	0	0	0	30	0	0	15	15	0	0	30	0	0	0	0	15	15	14	3.8	3.8	2.1	2.1	1.2	1.2	10	1.7	1.7	1.7	1.7	1.7	1.7	
30	0	30	0	0	0	0	30	0	0	15	15	0	0	30	0	0	0	0	15	15	15	15	3.8	3.8	2.5	2.5	1.2	1.2	7	1.2	1.2	1.2	1.2	1.2	1.2
30	0	30	0	0	0	0	0	0	0	0	0	0	0	20	0	0	0	0	10	10	9	3.8	3.8	0.0	0.0	0.8	0.8	7	1.2	1.2	1.2	1.2	1.2	1.2	
30	0	30	0	0	0	0	30	0	0	15	15	0	0	30	0	0	0	0	15	15	14	3.8	3.8	2.1	2.1	1.2	1.2	10	1.7	1.7	1.7	1.7	1.7	1.7	
30	0	30	0	0	0	0	30	0	0	15	15	0	0	30	0	0	0	0	15	15	15	15	3.8	3.8	2.5	2.5	1.2	1.2	8	1.3	1.3	1.3	1.3	1.3	1.3
30	0	30	0	0	0	0	30	0	0	15	15	0	0	30	0	0	0	0	15	15	15	15	3.8	3.8	2.5	2.5	1.2	1.2	10	1.7	1.7	1.7	1.7	1.7	1.7
30	0	30	0	0	0	0	25	0	0	13	12.5	0	0	30	0	0	0	0	10	10	9	3.8	3.8	0.0	0.0	0.8	0.8	7	1.2	1.2	1.2	1.2	1.2	1.2	
30	0	30	0	0	0	0	30	0	0	15	15	0	0	30	0	0	0	0	15	15	14	3.8	3.8	2.1	2.1	1.2	1.2	10	1.7	1.7	1.7	1.7	1.7	1.7	
30	0	30	0	0	0	0	30	0	0	15	15	0	0	30	0	0	0	0	15	15	15	15	3.8	3.8	2.5	2.5	1.2	1.2	8	1.3	1.3	1.3	1.3	1.3	1.3
30	0	30	0	0	0	0	30	0	0	15	15	0	0	30	0	0	0	0	15	15	15	15	3.8	3.8	2.5	2.5	1.2	1.2	10	1.7	1.7	1.7	1.7	1.7	1.7
30	0	30	0	0	0	0	30	0	0	15	15	0	0	30	0	0	0	0	15	15	14	3.8	3.8	2.1	2.1	1.2	1.2	9	1.5	1.5	1.5	1.5	1.5	1.5	
30	0	30	0	0	0	0	30	0	0	15	15	0	0	30	0	0	0	0	15	15	15	15	3.8	3.8	2.5	2.5	1.2	1.2	10	1.7	1.7	1.7	1.7	1.7	1.7
30	0	30	0	0	0	0	0	0	0	0	0	0	0	30	0	0	0	0	15	15	15	15	3.8	3.8	2.5	2.5	1.2	1.2	8	1.3	1.3	1.3	1.3	1.3	1.3
30	0	30	0	0	0	0	0	0	0	0	0	0	0	30	0	0	0	0	15	15	15	15	3.8	3.8	2.5	2.5	1.2	1.2	8	1.3	1.3	1.3	1.3	1.3	1.3
30	0	30	0	0	0	0	0	0	0	0	0	0	0	30	0	0	0	0	15	15	14	3.8	3.8	2.5	2.5	0.9	0.9	8	1.3	1.3	1.3	1.3	1.3	1.3	
30	0	30	0	0	0	0	25	0	0	13	12.5	0	0	30	0	0	0	0	15	15	14	3.8	3.8	2.1	2.1	1.2	1.2	10	1.7	1.7	1.7	1.7	1.7	1.7	

62  
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34	8.8	7.6	5.5	5.5	3.4	3.4	96	83	82	82	82	82	35	8.7	8.7	5.8	5.8	2.9	2.9	58	58	58	58	58	58														
18	4.5	4.5	3.0	3.0	1.4	1.4	49	49	45	45	33	33	35	8.8	8.8	5.9	5.9	2.9	2.9	59	59	59	59	59	59														
30	7.6	6.3	5.2	5.2	3.0	3.0	83	69	77	77	72	72	35	8.7	8.7	5.8	5.8	2.9	2.9	58	58	58	58	58	58														
33	8.5	7.2	5.3	5.3	3.2	3.2	93	79	80	80	76	76	35	8.8	8.8	5.9	5.9	2.9	2.9	59	59	59	59	59	59														
36	7.5	7.5	6.5	6.5	4.0	4.0	82	82	97	97	96	96	35	8.8	8.8	5.8	5.8	2.9	2.9	58	58	58	58	58	58														
22	7.0	3.2	3.7	3.7	2.4	2.4	76	35	55	55	57	57	35	8.7	8.7	5.8	5.8	2.9	2.9	58	58	58	58	58	58														
37	8.0	8.0	6.5	6.5	4.0	4.0	87	87	97	97	96	96	35	8.7	8.7	5.8	5.8	2.9	2.9	58	58	58	58	58	58														
31	8.2	6.9	4.8	4.8	3.0	3.0	89	75	72	72	72	72	35	9.8	9.8	6.5	6.5	3.3	3.3	65	65	65	65	65	65														
34	6.7	6.7	6.2	6.2	4.0	4.0	73	73	92	92	97	97	35	8.8	8.8	5.9	5.9	2.9	2.9	59	59	59	59	59	59														
37	8.8	8.8	6.2	6.2	3.6	3.6	96	96	92	92	86	86	35	8.8	8.8	5.9	5.9	2.9	2.9	59	59	59	59	59	59														
37	7.7	7.7	6.7	6.7	4.1	4.1	84	84	100	100	98	98	37	9.3	9.3	6.2	6.2	3.1	3.1	62	62	62	62	62	62														
24	6.2	6.2	2.8	2.8	2.8	2.8	68	68	42	42	66	66	35	8.8	8.8	5.8	5.8	2.9	2.9	58	58	58	58	58	58														
32	5.8	5.8	6.1	6.1	4.0	4.0	64	64	91	91	96	96	35	8.8	8.8	5.9	5.9	2.9	2.9	59	59	59	59	59	59														
33	6.7	6.7	6.3	6.3	3.7	3.7	73	73	95	95	90	90	36	8.9	8.9	5.7	5.7	2.8	2.8	57	57	57	57	57	57														
37	8.0	8.0	6.5	6.5	4.0	4.0	87	87	97	96	96	96	35	8.5	8.5	5.9	5.9	3.0	3.0	59	59	59	59	59	59														
31	5.5	5.5	6.2	6.2	3.8	3.8	60	60	92	92	92	92	35	8.8	8.8	5.8	5.8	2.9	2.9	58	58	58	58	58	58														
33	6.3	6.3	6.1	6.1	3.9	3.9	69	69	91	91	94	94	35	8.8	8.8	5.8	5.8	2.9	2.9	58	58	58	58	58	58														
32	5.7	5.7	6.3	6.3	3.9	3.9	62	62	94	94	93	93	35	8.9	8.9	5.9	5.9	3.0	3.0	59	59	59	59	59	59														
34	7.7	7.7	5.8	5.8	3.5	3.5	84	84	87	87	84	84	35	8.8	8.8	5.9	5.9	2.9	2.9	59	59	59	59	59	59														
16	5.9	2.1	2.5	2.5	1.6	1.6	64	23	37	37	39	39	0	0.0	0.0	0.0	0.0	0.0	0.0	0	0	0	0	0	0														
30	7.5	7.5	4.5	4.5	2.8	2.8	82	82	67	67	66	66	35	8.9	8.9	5.9	5.9	3.0	3.0	59	59	59	59	59	59														
37	8.3	8.3	6.3	6.3	3.9	3.9	90	90	95	95	94	94	42	10.5	10.5	7.0	7.0	3.5	3.5	70	70	70	70	70	70														
37	8.3	8.3	6.3	6.3	3.9	3.9	90	90	95	95	94	94	35	8.8	8.8	5.8	5.8	2.9	2.9	58	58	58	58	58	58														
0	0.0	0.0	0.0	0.0	0.0	0.0	0	0	0	0	0	0	0	0.0	0.0	0.0	0.0	0.0	0.0	0	0	0	0	0	0														
36	7.5	7.5	6.5	6.5	4.0	4.0	82	82	97	97	96	96	35	8.8	8.8	5.8	5.8	2.9	2.9	58	58	58	58	58	58														
22	7.0	3.2	3.7	3.7	2.4	2.4	76	35	55	55	57	57	35	8.8	8.8	5.8	5.8	2.9	2.9	58	58	58	58	58	58														
38	8.5	8.5	6.5	6.5	4.0	4.0	93	93	97	97	96	96	35	8.7	8.7	5.8	5.8	2.9	2.9	58	58	58	58	58	58														
37	8.5	8.5	5.9	5.9	3.9	3.9	93	93	89	89	94	94	48	12.1	12.1	8.1	8.1	4.0	4.0	81	81	81	81	81	81														
34	8.3	8.3	5.2	5.2	3.3	3.3	91	91	77	77	78	78	34	8.6	8.6	5.7	5.7	2.9	2.9	57	57	57	57	57	57														
23	5.9	4.6	4.0	4.0	2.4	2.4	64	51	60	60	56	56	35	8.7	8.7	5.8	5.8	2.9	2.9	58	58	58	58	58	58														
38	8.9	8.9	6.3	6.3	3.7	3.7	97	97	95	95	90	90	30	7.5	7.5	5.0	5.0	2.5	2.5	50	50	50	50	50	50														
37	8.5	8.5	6.2	6.2	3.8	3.8	93	93	92	92	92	92	50	12.5	12.5	8.3	8.3	4.2	4.2	83	83	83	83	83	83														
33	7.7	7.7	5.7	5.7	3.4	3.4	84	84	85	85	82	82	35	8.6	8.6	5.8	5.8	2.9	2.9	58	58	58	58	58	58														
37	8.0	8.0	6.5	6.5	4.0	4.0	87	87	97	97	96	96	35	8.8	8.8	5.8	5.8	2.9	2.9	58	58	58	58	58	58														
37	8.9	8.9	6.3	6.3	3.4	3.4	97	97	95	95	82	82	52	12.9	12.9	8.6	8.6	4.3	4.3	86	86	86	86	86	86														
32	6.7	6.7	5.6	5.6	3.7	3.7	73	73	84	84	90	90	35	8.7	8.7	5.8	5.8	2.9	2.9	58	58	58	58	116	58														
														79.77	75.24	82.08	82.08	80.29	80.29															59	59	59	59	59	59

Class Average Percentage using CIA & ESA =	CO1	CO2	CO3	CO4	CO5	CO6
	71.4	68.6	72.7	72.7	71.7	71.7

by  
Head  
Department of Computer  
Science & Engineering  
M.M. Engineering College  
Maharishi Markandeshwar  
(Deemed To Be University)  
Murhana, Ambala, Haryana-133207

## Measuring CO attainment through Cumulative Internal Examinations (CIE)

### Sample Course Attainment Matrix – Airport Planning and Design (BCIV-030)

Batch: 2018-22	Subject Name, Code	Semester: 8th		Programme: B. Tech Civil Engineering	Taught By: Vikas Bagga
	BCIV-030: Airport Planning and Design	CO-1	To understand the characteristics of airport.		
		CO-2	To understand runway orientation.		
		CO-3	To study various component of runway.		
		CO-4	To structural design of airport pavement.		

Sr. No.	Roll No	Student Name	Assignment Marks		Sessional 1 (Marks 30)		Assignment Marks		Sessional 2 (Marks 30)		Internal Marks (40)				External (60)	Internal (40)
			Assignment CO1 Marks out of 30	Assignment CO2 Marks out of 30	Unit 1 CO1 (15)	Unit 2 CO2 (15)	Assignment CO3 Marks out of 30	Assignment CO4 Marks out of 30	Unit 3 CO3 (15)	Unit 4 CO4 (15)	Sessional - 1 (7.5)	Sessional - 2 (7.5)	Assignment (15)	Attendance (10)	External Marks	Internal Marks
			30	30	15	15	30	30	15	15	7.5	7.5	15	10	60	40
1	11169142	PAPU KUMAR YADAV	26	26	14	9	27	25	14	10	5.75	6.00	13.0	7.25	29	32
2	11182508	SHAJEDUL ISLAM	25	18	13	9	18	19	11	11	5.50	5.50	10.0	10.00	37	31
3	11185105	NAVEEN KUMAR	26	22	12	12	26	26	9	9	6.00	4.50	12.5	9.00	36	32
4	11189103	ANOH YAO JACOB	22	24	9	9	27	29	12	12	4.50	6.00	12.8	8.75	49	32
5	11189106	ANKIT KUMAR	22	23	12	13	26	25	13	11	6.25	6.00	12.0	6.75	27	31
6	11189107	Ramesh kumar	25	24	9	9	28	29	12	13	4.50	6.25	13.3	9.00	34	33
7	11189108	JASVINDER SINGH	23	24	12	15	19	22	14	13	6.75	6.75	11.0	7.50	44	32
8	11189110	ANSHU KAIRON	22	22	13	12	19	17	9	11	6.25	5.00	10.0	8.75	43	30
9	11189111	BINIT KUMAR SINGH	24	18	11	9	21	21	12	13	5.00	6.25	10.5	9.25	37	31
10	11189112	KISHAN SAHANI	18	24	12	12	16	16	11	12	6.00	5.75	9.3	9.00	28	30
11	11189114	SUSMA RAI	26	28	8	10	28	28	8	11	4.50	4.75	13.8	10.00	36	33
12	11189115	ISHANT KUMAR	18	25	8	11	27	24	8	10	4.75	4.50	11.8	10.00	43	31
13	11189117	LALAN YADAV	27	27	14	8	26	24	12	12	5.50	6.00	13.0	9.50	55	34
14	11189118	ABHASH JHA	25	20	12	7	17	18	11	7	4.75	4.50	10.0	7.75	16	27
15	11189119	Martian rai	20	25	13	10	22	21	11	12	5.75	5.75	11.0	8.50	34	31
16	11189120	GHANASHYAM KUMAR SAH	24	23	12	10	21	24	13	11	5.50	6.00	11.5	10.00	35	33
17	11189121	AALOK YADAV	18	19	10	9	19	16	12	8	4.75	5.00	9.0	9.25	21	28
18	11189122	RAHUL KUMAR YADAV	19	18	11	12	17	18	11	13	5.75	6.00	9.0	7.25	22	28
19	11189123	SHITAL KUMAR MANDAL	22	24	13	9	27	23	9	11	5.50	5.00	12.0	9.50	50	32
20	11189124	TIRTHA RAJ TIMALSINA	19	18	12	9	18	17	12	7	5.25	4.75	9.0	10.00	50	29
21	11189125	ALIZA SAH	23	23	13	10	21	21	12	9	5.75	5.25	11.0	10.00	36	32
22	11189126	JAY PRAKASH YADAV	22	24	12	9	28	22	13	10	5.25	5.75	12.0	10.00	33	33


V. K. Bagga

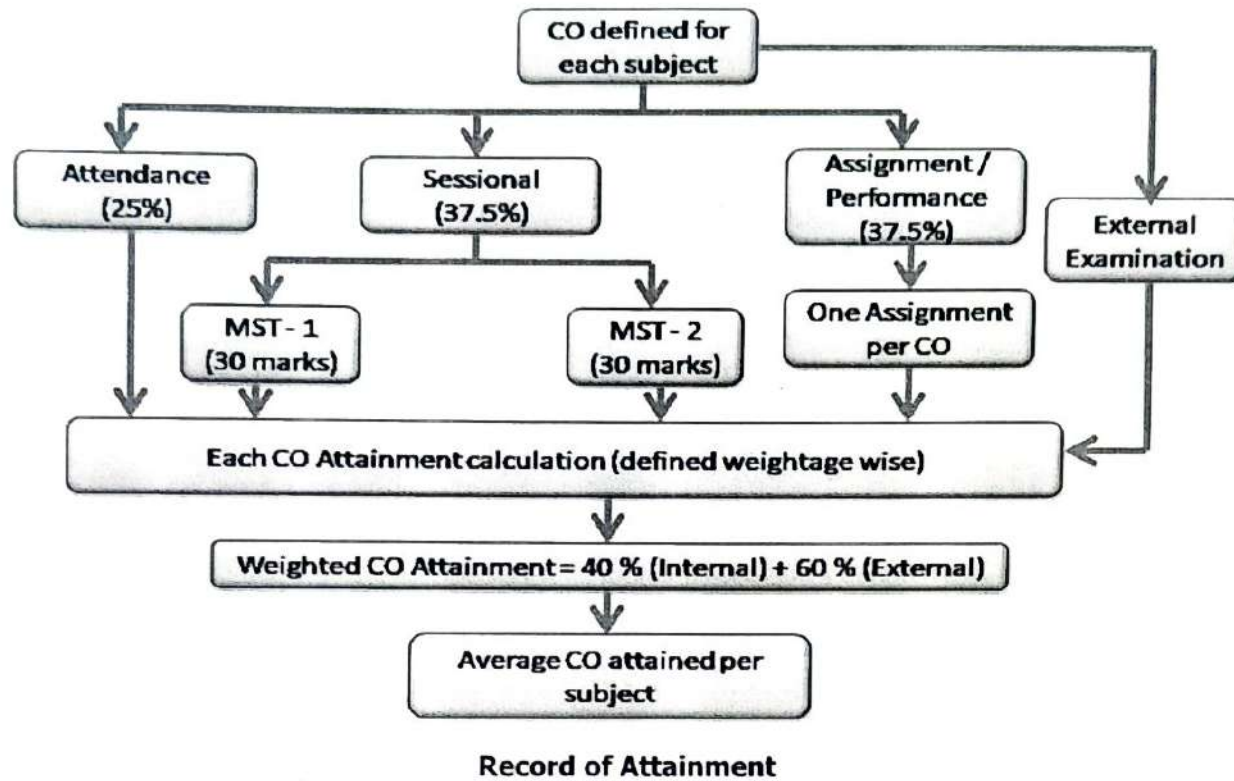
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Civil Engineering Department  
V. M. Engineering College


23	11189127	PRASHANT BIRAJEE	19	20	12	13	20	21	12	10	6.25	5.50	10.0	7.25	12	29
24	11189128	UMA SHANKAR THAKUR	23	24	9	17	24	21	13	11	6.50	6.00	11.5	10.00	54	34
25	11189129	JAY NANDAN SAH	22	20	12	12	20	18	13	10	6.00	5.75	10.0	9.25	41	31
26	11189130	SANJAY KUMAR BIRAJI	21	19	12	12	24	28	12	10	6.00	5.50	11.5	10.00	33	33
27	11189131	GAJENDRA YADAV	28	28	13	13	28	28	13	13	6.50	6.50	14.0	10.00	50	37
28	11189133	OM PRAKASH YADAV	21	23	13	12	27	27	11	7	6.25	4.50	12.3	9.00	41	32
29	11189134	AJAY KUMAR SAH	25	22	12	11	27	28	12	10	5.75	5.50	12.8	9.00	44	33
30	11189137	HARSH	24	23	12	10	22	21	11	12	5.50	5.75	11.3	9.50	49	32
31	2314102	HEMANT KATARIA	20	22	12	13	18	20	12	12	6.25	6.00	10.0	8.75	0	31
Average Marks			67.61	20.28	20.28	10.14	10.14	20.28	20.28	10.14	5.07	5.07	10.14	6.76	36.10	31.52
No. of Students obtain marks greater than AVG			23	22	25	15	20	22	26	18	24	22	21	30	15	17
%of Students obtain marks greater than AVG			74.19	70.97	80.65	48.39	64.52	70.97	83.87	58.06	77.42	70.97	67.74	96.77	48.39	54.84

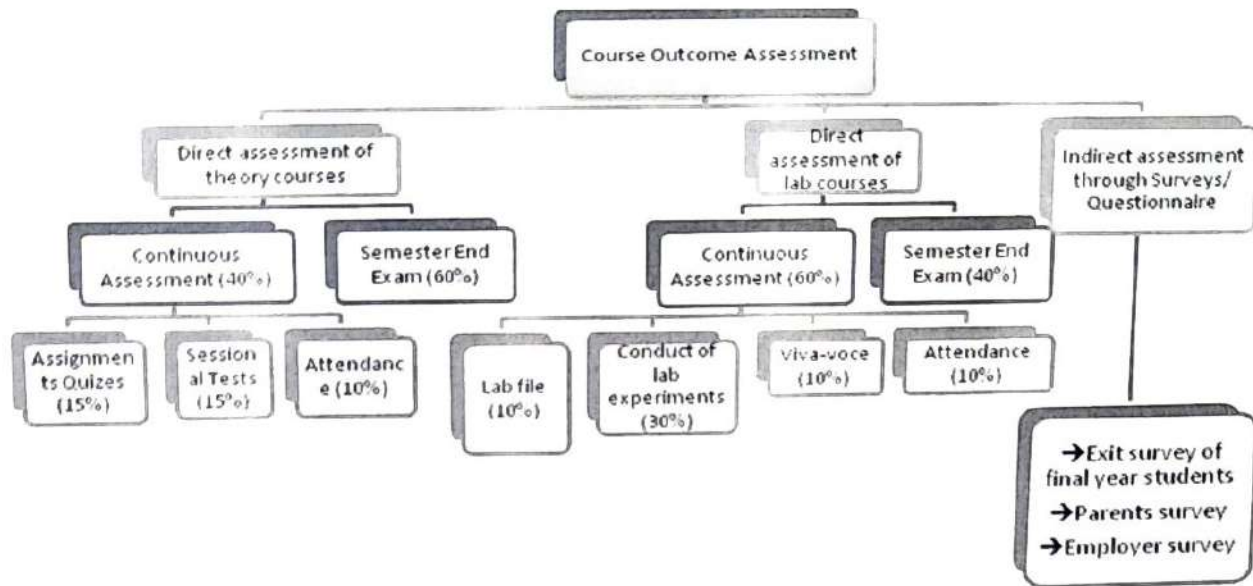
								Internal	External	CO Attainment
CO1	74.19		80.65					82.26	48.39	61.94
CO2		70.97		48.39				68.95	48.39	56.61
CO3					64.52		83.87	79.84	48.39	60.97
CO4						70.97	58.06	72.58	48.39	58.06
Average Attainment										59.40
Attainment Level										1.78

V. Has Bagya

  
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**Civil Engineering Department**  
**M. M. Engineering College**  
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**Course Outcome Assessment Tools**

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**PO Attainment**

**Batch 2018-22**

COURSE	Code	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12	PSO1	PSO2	PSO3
Physics –I	BSC-001	1.72	1.15	1.15	1.15	1.72	-	0.57	-	-	1.15	1.43	1.72	0.57	-	-
Mathematics –I	BSC-002	1.64	1.42	-	0.55	-	-	-	-	-	-	-	1.20	-	-	-
Manufacturing Process	ESC-007	0.78	0.34	-	-	0.44	0.34	0.34	-	0.34	-	-	0.44	-	0.34	-
Chemistry-I	BSC-004	1.72	1.72	1.03	-	1.43	1.72	1.72	0.57	1.61	1.43	1.43	1.32	-	-	-
English	HSMC-001	0.54	-	0.54	0.54	-	-	-	-	1.08	1.08	-	0.54	-	-	-
Physics Lab-I	BSC-003	2.35	2.19	2.35	-	2.35	-	1.80	-	-	2.35	2.19	2.35	-	-	-
Workshop Practice	ESC-008	1.11	-	0.72	-	1.67	-	-	-	1.28	-	-	1.67	0.56	0.56	0.56
Chemistry-I Lab	BSC-006	1.42	1.42	1.09	0.95	1.33	1.42	1.42	-	1.33	1.18	1.42	1.42	-	-	-
English Lab	HSMC-002	0.54	-	0.54	0.54	-	-	-	-	1.07	1.07	-	0.54	-	-	-
SAP-01	ESC-006	0.76	0.59	0.76	0.59	1.17	0.59	0.59	0.76	1.06	0.88	0.88	0.88	-	-	-
Physics-II	BSC-008	1.25	1.36	1.36	-	1.25	-	0.54	-	-	1.09	1.09	1.63	0.54	-	-
Mathematics-II	BSC-009	1.60	1.33	-	-	-	-	-	-	-	-	-	1.23	-	-	-
Basic Electrical Engineering	ESC-001	1.41	0.71	1.77	1.06	1.41	1.41	1.06	-	0.92	0.92	1.20	0.71	-	-	-
Engineering Graphics & Design	ESC-002	1.69	1.09	1.21	0.78	1.21	-	-	-	-	-	-	1.21	0.60	0.60	0.60
Engineering Mechanics	ESC-003	1.74	2.09	1.39	1.74	1.05	0.91	0.70	-	-	0.70	-	1.05	0.70	0.70	0.70
Computer Programing Lab-I	ESC-004	1.65	1.54	1.38	0.83	1.65	-	1.27	-	-	0.83	-	-	-	-	-
Basic Electrical Engineering Lab	ESC-005	1.45	1.33	1.62	0.87	1.62	1.04	0.87	1.16	-	1.16	1.04	0.87	-	-	-
SAP-02	ESC-010	1.84	1.72	1.53	0.92	1.84	-	1.41	-	-	0.92	-	-	-	-	-
Environmental Studies	ES-101	-	-	0.44	-	-	0.44	1.22	0.70	0.96	0.70	-	0.87	-	-	-
Mathematics-III	BMAT-003	2.13	1.59	1.24	-	-	-	-	-	-	-	-	-	-	-	-
Introduction to Fluid Mechanics	BCIV-001	2.04	1.77	1.22	1.90	0.68	-	-	-	0.68	-	1.09	1.09	0.68	0.68	-
Introduction to Solid Mechanics	BCIV-002	1.25	1.25	0.89	-	0.71	-	-	-	-	-	-	0.80	0.98	-	-
Surveying & Geomatics	BCIV-003	2.18	2.04	0.73	-	0.73	0.87	0.73	-	0.87	-	-	-	1.89	1.74	-
Materials, Testing & Evaluation	BCIV-004	2.22	1.58	1.27	-	-	-	-	-	-	-	-	-	2.06	-	-
Indian Constitution	BMAT-004	-	-	1.37	-	-	0.78	-	2.15	0.98	-	1.37	0.78	1.57	-	-
Fluid Mechanics Lab	BCIV-005	1.50	1.38	1.13	-	0.88	-	-	-	-	-	-	0.88	1.13	-	-
Surveying & Geomatics Lab	BCIV-006	1.67	1.39	0.56	-	0.56	0.65	0.56	-	0.65	-	-	-	1.39	1.21	-
Design of Concrete Structures-I	BCIV-007	0.87	1.41	1.63	0.87	0.98	0.98	-	0.87	0.98	0.98	0.98	0.98	0.87	0.87	-
Concrete Technology	BCIV-008	1.55	0.66	0.89	1.44	1.55	1.55	0.89	1.00	0.89	1.11	0.89	1.44	0.55	-	-
Civil Engineering – Societal & Global Impact	BHUM-114	-	-	0.74	-	-	2.06	0.74	1.91	1.03	-	1.91	1.32	-	-	-
Building Construction Practice (Elective-I)	BCIV-033	-	0.95	1.62	0.95	0.95	-	-	-	-	-	0.95	0.54	1.08	1.08	-

*Handwritten Signature*  
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Batch 2018-22																
COURSE	Code	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12	PSO1	PSO2	PSO3
Structural Geology (Elective-I)	BCIV-037	1.55	-	-	-	-	0.99	1.55	0.56	0.85	0.99	0.99	0.99	-	-	-
Environmental Engineering	BCIV-013	1.59	0.98	1.84	0.61	0.61	-	1.47	-	0.61	-	0.61	-	0.74	-	-
Concrete Technology Lab	BCIV-009	1.50	0.68	0.82	1.50	1.64	1.50	0.96	0.96	0.96	1.09	0.82	1.37	0.55	-	-
Structural Mechanics Lab	BCIV-010	1.66	1.75	1.31	-	0.96	-	-	-	-	-	-	1.13	1.22	-	-
Building Construction Drawing	BCIV-011	1.01	1.01	0.51	0.51	-	0.51	0.51	-	-	0.51	-	0.51	1.52	1.52	-
Project- I	BCIV-012	1.67	1.67	1.67	1.67	1.67	1.67	1.12	1.67	1.12	1.12	1.12	1.67	1.67	1.12	1.67
Geotechnical Engineering	BCIV-014	2.00	1.60	1.60	0.67	-	0.67	-	0.67	-	-	0.67	-	1.73	-	-
Transportation Engineering	BCIV-015	1.84	1.59	1.35	1.59	0.98	0.98	1.23	0.98	0.98	1.59	1.10	0.98	0.98	1.10	1.59
Pavement Materials (Elective-II)	BCIV-038	1.50	1.37	0.50	0.87	-	-	-	-	0.50	-	-	-	0.75	-	1.50
Construction Engineering Materials (Elective-II)	BCIV-039	1.40	0.47	0.70	-	-	-	0.82	-	-	-	1.28	0.47	1.17	-	-
Geometric Design of Highways (Elective-III)	BCIV-044	1.43	1.27	0.79	0.95	-	-	-	0.48	0.48	-	1.27	-	1.27	0.79	1.27
Construction Cost Analysis (Elective-III)	BCIV-046	1.60	0.57	0.57	0.92	-	-	-	-	1.03	-	1.49	0.57	1.49	-	-
Planning for Sustainable Development (Open Elective-I)	BCIV-083	1.39	-	1.67	-	-	0.97	1.53	1.11	0.56	-	1.39	0.56	-	-	-
Transportation Engineering Lab	BCIV-016	2.20	2.20	0.73	1.47	1.47	2.20	-	-	-	0.73	1.47	0.73	1.47	-	2.20
Geotechnical Engineering Lab	BCIV-017	1.41	1.41	0.47	0.94	0.94	1.41	-	-	-	0.47	0.94	0.47	0.94	-	1.41
Environmental Engineering Lab	BCIV-019	0.60	1.20	1.81	1.81	1.81	1.81	1.81	1.20	1.20	-	1.20	1.20	0.60	0.60	1.20
Project - II	BCIV-020	1.85	1.85	1.85	1.85	1.85	0.62	1.24	1.85	1.24	1.24	1.24	1.85	1.85	1.85	1.85
Hydrology & Water Resource Engineering/Irrigation Engineering	BCIV-021	1.24	1.95	1.06	1.42	1.42	-	1.06	0.71	-	-	1.24	1.24	1.95	1.24	-
Design of Steel Structures	BCIV-022	1.20	1.29	0.83	1.11	0.46	-	-	-	-	-	-	0.46	0.74	0.83	-
Traffic Engineering and Management (Elective-IV)	BCIV-050	1.07	0.89	1.07	1.43	-	-	0.54	-	-	-	1.61	0.89	-	0.54	1.61
Pavement Construction and Management (Elective-IV)	BCIV-051	0.95	1.36	0.54	1.36	0.81	0.54	-	0.54	0.54	-	1.36	0.81	1.09	0.95	1.49
Disaster Management (Open Elective-II)	BCIV-080	1.00	-	1.54	-	-	1.54	1.63	0.91	1.27	-	1.45	1.00	-	-	-
Rural Technology and Community Development (Open Elective-III)	BCIV-084	0.57	-	1.55	-	-	1.13	1.55	0.99	0.57	-	1.55	0.99	-	-	-
Essence of Indian Traditional	BHUM-117	-	-	1.59	-	-	-	1.06	1.59	1.06	1.06	-	1.59	-	-	-

  
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Batch 2018-22																
COURSE	Code	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12	PSO1	PSO2	PSO3
Knowledge																
Computer-aided-Civil Engineering Design	BCIV-025	1.76	1.17	1.76	1.76	1.76	0.59	-	0.59	1.17	1.17	1.17	1.76	1.76	1.76	1.76
Project-III	BCIV-023	1.76	1.76	1.76	1.76	1.76	0.59	1.17	1.76	1.17	1.17	1.17	1.76	1.76	1.76	1.76
Seminar	BCIV-024	1.55	1.55	1.55	1.55	1.55	0.52	1.03	1.55	1.03	1.03	1.03	1.55	1.55	1.55	1.55
Engineering Economics, Estimation & Costing	BCIV-026	2.03	0.68	-	0.68	0.68	1.18	-	1.18	1.86	0.68	1.86	1.18	2.03	1.86	0.68
Contracts Management (Elective-V)	BCIV-056	-	0.62	-	0.62	0.62	1.71	0.62	1.09	1.71	1.24	1.71	1.09	1.09	0.62	0.62
Repairs & Rehabilitation of Structures (Elective-V)	BCIV-057	0.93	0.62	0.62	1.87	0.62	1.71	1.09	1.09	1.09	1.87	-	0.62	0.93	1.25	1.25
Physico-Chemical Processes for Water and Wastewater Treatment (Elective-VI)	BCIV-063	1.11	0.93	0.74	0.56	-	0.56	1.49	0.56	0.74	-	-	0.56	-	-	-
Sewage and Sewerage Treatment (Elective-VI)	BCIV-064	1.33	1.52	1.33	0.76	-	0.76	2.09	0.76	0.76	-	-	0.76	-	-	-
Infrastructure Systems Planning (Open Elective-IV)	BCIV-085	0.91	1.52	0.61	1.67	1.21	0.61	-	0.61	0.61	-	1.67	1.06	1.21	1.21	1.67
Entrepreneurship Development and Management	BHUM-121	-	0.60	-	0.60	0.60	1.65	0.60	1.20	1.80	1.05	1.50	1.05	1.20	0.60	0.60
Concrete Structure Drawing	BCIV-027	1.68	1.68	-	1.68	0.56	-	-	0.56	0.98	-	1.12	0.56	1.12	1.68	-
Project-IV	BCIV-028	1.76	1.76	1.76	1.76	1.76	0.59	1.17	1.76	1.17	1.17	1.17	1.76	1.76	1.76	1.76
Survey Camp	BCIV-018	1.70	1.70	1.70	1.70	1.70	0.57	1.13	1.70	1.13	1.13	1.13	1.70	1.70	1.70	1.70
Airport Planning and Design	BCIV-030	1.63	1.63	1.78	1.78	1.48	1.63	1.04	0.59	1.78	0.59	1.63	1.19	1.48	1.63	1.78
Bridge Engineering	BCIV-031	1.68	1.53	1.68	1.68	1.84	1.68	1.07	0.61	1.53	0.76	1.53	0.92	1.84	1.84	1.84
Railway Engineering (Elective-VII)	BCIV-066	2.23	2.23	1.73	1.24	1.48	1.48	1.24	1.48	0.99	2.23	1.24	1.24	1.48	1.24	2.23
Geotechnical Design (Elective-VIII)	BCIV-074	1.91	-	-	-	-	1.39	1.56	0.70	1.04	1.39	1.22	1.04	-	-	-
Construction Engineering & Management (Elective-IX)	BCIV-075	0.49	0.63	0.56	0.49	0.49	1.25	0.56	0.84	1.25	0.84	1.25	0.84	0.97	0.49	0.49
<b>Direct Attainment</b>		<b>1.47</b>	<b>1.35</b>	<b>1.19</b>	<b>1.19</b>	<b>1.26</b>	<b>1.12</b>	<b>1.12</b>	<b>1.07</b>	<b>1.04</b>	<b>1.12</b>	<b>1.28</b>	<b>1.08</b>	<b>1.23</b>	<b>1.19</b>	<b>1.43</b>

: Direct Attainment

*[Signature]*

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Survey	P01	P02	P03	P04	P05	P06	P07	P08	P09	P010	P011	P012	PS01	PS02	PS03
Exit Survey	2.06	2.63	2.44	2.34	2.25	2.53	2.16	2.72	2.81	2.34	2.25	2.25	2.63	2.44	2.25
Employer Survey	3.00	2.40	2.40	1.80	3.00	2.40	1.80	2.40	2.40	1.80	1.20	1.20	3.00	2.40	1.80
Parents Survey	2.70	2.40	2.10	2.40	2.70	1.80	2.40	2.70	2.10	1.80	1.80	2.40	2.40	2.70	2.10
Overall Indirect Attainment	2.59	2.48	2.31	2.18	2.65	2.24	2.12	2.61	2.44	1.98	1.75	1.95	2.68	2.51	2.05

**Indirect Attainment**

Course	P01	P02	P03	P04	P05	P06	P07	P08	P09	P010	P011	P012	PS01	PS02	PS03
Direct Attainment	1.47	1.33	1.19	1.17	1.20	1.11	1.09	1.05	1.03	1.09	1.27	1.07	1.22	1.16	1.38
Indirect Attainment	2.59	2.48	2.31	2.18	2.65	2.24	2.12	2.61	2.44	1.98	1.75	1.95	2.68	2.51	2.05
Overall Attainment	1.69	1.56	1.41	1.37	1.49	1.34	1.30	1.36	1.31	1.27	1.37	1.25	1.51	1.43	1.51
Target Level (70% of Average Articulation)	1.76	1.58	1.41	1.40	1.46	1.30	1.30	1.23	1.24	1.30	1.50	1.29	1.45	1.38	1.65
Target Achieved	No	No	Yes	No	Yes	Yes	Yes	Yes	Yes	No	No	No	Yes	Yes	No

**: Final Attainment**

  
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## Attainment of Course Outcomes B.Pharm

Assessment is done through one or more than one processes, carried out by the institution, that identify, collect, and prepare data to evaluate the achievement of course outcomes (CO's).

Assessment tools to assess the course outcomes as:

### Direct methods

- Direct method display the student's knowledge and skills from their performance in the sessional examinations, class test, seminars, and assignments. These methods provide a sampling of what students know and/or can do and provide strong evidence of student learning.

### Direct Assessment Methods:

**Sessional Examination:** Sessional examination (theory or practical) are the metric to assess, whether all the course outcomes are attained or not framed by the course owner. Sessional Examination is more focused on attainment of course outcomes and uses a descriptive exam.

It is a metric to continuously assess the attainment of course outcomes w.r.t course objectives.

**Project work Viva-voce:** Viva-voce examination of project work shall be conducted batch-wise.

**Assignment/ Class Test:** Assignment topics are allotted to all the students according to their potential, subject knowledge. In order to bridge the gap in curriculum, bright students are given some assignment beyond the syllabus. Class tests, quizzes, video links are provided.

**In the present analysis, the targets for assessment were set as:**

1. First class with distinction > 70 marks, attainment level is 3 (substantial)
2. First class 60 to 70 marks, attainment level is 2 (moderate)
3. Pass class 50 to 59 marks, attainment level is 1 (low)

The same indicators are applied to both sessional and university results. The number of students of all the above three categories are considered (rather than the criteria: as 80% students scoring more than 60% marks of the relevant maximum marks (is considered) for the attainment of 3). The calculation is as follows.

**Internal marks:** The total internal marks are 20% for **theory** (for semester system marks are 25%) as per C207 are considered for calculation.

Example: B. Pharmacy 2 year course (subject) – (Pharmacognosy-11, C207) in 2015-16 year. The following are the marks of theory internal.

	First class with	First class (60 to	Pass class 50	Total
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	Distinction (>70%); Attainment level is 3	69 %); Attainment level is 2	to 59%); Attainment level is 1	Students
No of students	17	10	26	53
No of students X value	17 X3	10 X2	26 X1	
Total	51+20+26 = 97			
Ratio	97/53 = 1.83			
Value 20% for internal exams	1.83 X.20 = 0.37			

**For the practical exams:** The total internal marks are 20% for theory (for semester system marks are 25%) as per the Examination Scheme of B.Pharmacy curriculum and same subject (Pharmacognosy-11, C214) in 2015-16 year considered for calculation. The calculation is as follows.

	First class with Distinction (>70%); Attainment level is 3	First class (60 to 69 %); Attainment level is 2	Pass class 50 to 59%); Attainment level is 1	Total Students
No of students	29	12	12	53
No of students X value	29 X3	12 X2	12X1	
Total	87+24+12 = 123			
Ratio	123/53 = 2.32			
Value 20% for internal exams	2.32 X.20 = 0.46			

For University theory exams, the University marks are 80% (for semester system marks are 75%) for theory as per Examination Scheme of B.Pharmacy curriculum and same subject (Pharmacognosy-11, C207) in 2015-16 year considered for calculation. The calculation is as follows.

	First class with Distinction (>70%); Attainment level is 3	First class (60 to 69 %); Attainment level is 2	Pass class 50 to 59%); Attainment level is 1	Total Students
No of students	3	7	29	39
No of students X value	3X3	7 X2	29 X1	
Total	9+14+29 = 51			
Ratio	51/39 = 1.31			

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Value 80% for External exams	$1.31 \times 0.80 = 1.05$	
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The university theory examinations are conducted in another college. In other words, students of college do not write their theory examination in their parent college.

**For University practical exams**, the University marks are 80% for theory as per Examination Scheme of B.Pharmacy curriculum and same subject (Pharmacognosy-11, C214) in **2015-16** year considered for calculation. The calculation is as follows.

	First class with Distinction (>70%); Attainment level is 3	First class (60 to 69 %); Attainment level is 2	Pass class 50 to 59%); Attainment level is 1	Total Students
No of students	4	11	38	53
No of students X value	4X3	11X2	38X1	
Total	$12+22+38 = 72$			
Ratio	$73/53 = 1.35$			
Value 80% for internal exams	$1.35 \times 0.80 = 1.09$			

For conducting practical examination of University, external examiner is appointed by the Maharishi Markandeshwar University.

The above calculated values are tabulated as follows:

Subject code	Subject name	University		Internal		Total
C207 Theory	Pharmacognosy-11, BPH-2.7	100%	80%	100%	20%	
		1.33	1.07	1.83	0.37	1.44
	Theoretical Attainment = 2.24 % attainment of outcomes = $1.44 / 2.24 = 64.2\%$ or 1.92 (against the scale Max = 3)					
C214 Practical	Pharmacognosy-11, BPH-2.7	100%	80%	100%	20%	
		1.35	1.09	2.32	0.46	1.55
	Theoretical Attainment = 2.33 % attainment of outcomes = $1.55 / 2.33 = 66.5\%$ or 1.99 (against the scale Max = 3)					

  
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Record the attainment of Course Outcomes of all courses with respect to set attainment levels

2016-2017

Course code	Course name	University attainment		Sessional attainment		Attainment Level		%Attainment (Achieved/required) X100	Average programme outcomes (max 3.00)
		100%	75%	100%	25%	Achieved	Required		
		<b>B. Pharmacy I Semester</b>							
									2.97
BP101T	Human Anatomy and Physiology I – Theory	1.95	1.46	2.32	0.58	2.04	2.06	99.03	3.00
BP102T	Pharmaceutical Analysis I – Theory	1.73	1.30	2.24	0.56	1.86	1.80	100.00	2.58
BP103T	Pharmaceutics I – Theory	1.71	1.28	2.04	0.51	1.79	2.08	85.92	3
BP104T	Pharmaceutical Inorganic Chemistry – Theory	2.65	1.99	2.60	0.65	2.64	2.33	100	3.00
BP105T	Communication skills – Theory	2.40	1.80	3.00	0.75	2.55	1.89	100.00	2.82
BP106RBT	Remedial Biology/	2.00	1.50	2.69	0.67	2.17	2.31	94.00	2.55
BP106RMT	Mathematics – Theory*	2.40	1.80	2.16	0.54	2.34	2.75	85.09	3.00
BP107P	Human Anatomy and Physiology – Practical	2.26	1.69	3.00	0.75	2.44	2.28	100.00	3.00
BP108P	Pharmaceutical Analysis I – Practical	2.71	2.04	2.73	0.68	2.72	2.40	100.00	3.00
BP109P	Pharmaceutics I – Practical	2.23	1.67	2.53	0.63	2.30	2.28	100.00	3
BP110P	Pharmaceutical Inorganic Chemistry – Practical	2.34	1.76	2.53	0.63	2.39	2.30	100	3.00
BP111P	Communication skills – Practical*	2.53	1.90	3.00	0.75	2.65	1.80	100.00	3.00
BP112RBP	Remedial Biology – Practical*	3.00	2.25	2.90	0.73	2.98	1.93	100.00	3.00

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II nd semester									
BT201T	Human Anatomy and Physiology II– Theory	1.91	1.43	2.52	0.63	2.06	1.89	100.00	3.00
BP202T	Pharmaceutical Organic Chemistry I – Theory	1.44	1.08	2.32	0.58	1.66	2.29	72.44	2.17
BP203T	Biochemistry – Theory	2.40	1.80	2.44	0.61	2.41	2.31	100.00	3.00
BP204T	Pathophysiology – Theory	1.95	1.46	2.76	0.69	2.15	2.18	98.62	2.96
BP205T	Computer Applications in Pharmacy – Theory *	2.74	2.06	3.00	0.75	2.81	2.75	100.00	3.00
BP206T	Environmental sciences – Theory *	1.68	1.26	2.88	0.72	1.98	2.69	73.64	2.21
BP207P	Human Anatomy and Physiology II – Practical	2.57	1.93	2.73	0.68	2.61	2.22	100.00	3.00
BP208P	Pharmaceutical Organic Chemistry I– Practical	2.46	1.84	2.47	0.62	2.46	2.50	98.38	2.95
BP209P	Biochemistry – Practical	2.89	2.16	2.67	0.67	2.83	2.72	100.00	3.00
BP210P	Computer Applications in Pharmacy – Practical*	2.87	2.15	3.00	0.75	2.90	2.75	100.00	3.00
II nd Year									
		100%	80%	100%	80%	Achieved	Required		
C201	Pharmaceutics-III (Unit Operation-I)	1.6	1.28	2.25	0.45	1.73	2.23	77.63	2.33
C202	Pharmaceutics-IV (Pharmaceutical Microbiology)	2.188	1.75	2.7	0.54	2.29	1.46	100.00	3.00
C203	Pharmaceutics-V Forensic Pharmacy	1.575	1.26	2.45	0.49	1.75	2.39	73.38	2.20
C204	Pharmaceutical Chemistry-III (Biochemistry)	1.88	1.51	2.1	0.42	1.93	1.92	100.00	3.00
C205	Pharmaceutical Chemistry-IV (Physical Chemistry)	2.225	1.78	2.95	0.59	2.37	2.13	100.00	3.00

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C206	Pharmaceutical Chemistry-V (Pharmaceutical Analysis-I)	1.675	1.34	2.15	0.43	1.77	1.33	100.00	3.00
C207	Pharmacognosy-II	1.663	1.33	2.25	0.45	1.78	2.16	82.34	2.47
C208	Computer Science	1.313	1.05	2.1	0.42	1.47	2.46	59.66	1.79
C209	Environmental Studies	2.18	1.74	2.96	0.59	2.34	1.80	100.00	3.00
C210	Pharmaceutics-IV(Pharmaceutical Microbiology) Laboratory	2.438	1.95	2.7	0.54	2.49	1.46	100.00	3.00
C211	Pharmaceutical Chemistry-III (Biochemistry) Laboratory	2.4	1.92	2.1	0.42	2.34	2.39	97.95	2.94
C212	Pharmaceutical Chemistry-IV(Physical Chemistry) Laboratory	1.938	1.55	2.95	0.59	2.14	2.20	97.27	2.92
C213	Pharmaceutical Chemistry-V (Pharmaceutical Analysis-I) Laboratory	1.75	1.4	2.15	0.43	1.83	1.33	100.00	3.00
C214	Pharmacognosy-II Laboratory	2.075	1.66	2.25	0.45	2.11	2.04	100.00	3.00
C215	Computer Science Laboratory	2.45	1.96	2.1	0.42	2.38	2.66	89.34	2.68
<b>B. Pharmacy III year</b>									
C301	Pharmaceutics-VI (Physical Pharmacy)	1.725	1.38	2.1	0.42	1.80	2.03	88.89	2.67
C302	Pharmaceutics-VII (Unit Operation-II)	1.7	1.36	2.3	0.46	1.82	1.90	95.79	2.87
C303	Pharmaceutics-VIII (Dosage Form Design)	1.613	1.29	2.05	0.41	1.70	1.50	100.00	3.00
C304	Pharmaceutical Chemistry-VI (Heterocyclic Compounds and Natural Products)	1.488	1.19	2.1	0.42	1.61	2.08	77.59	2.33
C305	Pharmaceutical Chemistry-VII (Medicinal Chemistry-I)	1.338	1.07	2.2	0.44	1.51	2.37	63.67	1.91
C306	Pharmacology-II	1.313	1.05	2.1	0.42	1.47	1.93	76.22	2.29
C307	Pharmaceutical Biotechnology	2.475	1.98	2.4	0.48	2.46	2.00	100.00	3.00
C308	Pharmacognosy-III	1.688	1.35	2.25	0.45	1.80	1.83	98.36	2.95

  
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C309	Pharmaceutics-VI(Physical Pharmacy) Laboratory	1.6	1.28	2.25	0.45	1.73	2.46	70.37	2.11
C310	Pharmaceutics-VII (Unit Operation-II) Laboratory	2.188	1.75	2.85	0.57	2.32	2.33	99.45	2.98
C311	Pharmaceutics-VIII (Dosage Form Design) Laboratory	1.575	1.26	2.3	0.46	1.72	2.32	74.09	2.22
C312	Pharmaceutical Chemistry-VII (Medicinal Chemistry-I) Laboratory	2.225	1.78	2.75	0.55	2.33	1.89	100.00	3.00
C313	Pharmacology-II Laboratory	1.675	1.34	2.75	0.55	1.89	1.79	100.00	3.00
C314	Pharmacognosy-III Laboratory	1.313	1.05	2.95	0.59	1.64	1.87	87.86	2.64
B. Pharmacy I V year									
C401	Pharmaceutics-IX (Biopharmaceutics and Pharmacokinetic)	2.08	1.56	2.45	0.49	2.05	2.10	97.62	2.93
C402	Pharmaceutics-X (Pharmaceutical Technology-I)	2.333	1.75	2.3	0.46	2.21	1.75	100.00	3.00
C403	Pharmaceutics-XI (Pharmaceutical Technology-II)	2.6	1.95	2.35	0.47	2.42	1.26	100.00	3.00
C404	Pharmaceutics-XII (Pharmaceutical Management)	2.293	1.72	2.65	0.53	2.25	2.31	97.30	2.92
C405	Pharmaceutical Chemistry-VIII (Medicinal Chemistry-II)	1.773	1.33	2.45	0.49	1.82	2.33	77.96	2.34
C406	Pharmaceutical Chemistry-IX (Pharmaceutical Analysis-II)	1.667	1.25	1.85	0.37	1.62	1.85	87.65	2.63
C407	Pharmacology-II	1.853	1.39	2.2	0.44	1.83	1.93	94.73	2.84
C408	Project	3.173	2.38	3	0.6	2.98	1.79	100.00	3.00
C409	Pharmaceutics-IX (Biopharmaceutics and Pharmacokinetic) Laboratory	3.173	2.38	3	0.6	2.98	2.13	100.00	3.00

  
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C410	Pharmaceutics-XI (Pharmaceutical Technology-II) Laboratory	2.387	1.79	2.9	0.58	2.37	1.26	100.00	3.00
C411	Pharmaceutical Chemistry-VIII (Medicinal Chemistry-II) Laboratory	2.533	1.9	2.95	0.59	2.49	2.13	100.00	3.00
C412	Pharmaceutical Chemistry-IX (Pharmaceutical Analysis-II) Laboratory	2.307	1.73	2.95	0.59	2.32	1.85	100.00	3.00
C413	Pharmacology-II Laboratory	2.733	2.05	2.45	0.49	2.54	1.86	100.00	3.00

The following conclusions are drawn on the basis of analysis of the results (both internal and University Examination):

**2016-2017**

**Theory:** 25 courses have attained more than 90% aggregate of learning outcome

**Practical:** 22 courses have attained more than 90% aggregate of learning outcome

**2015-16:**

**Theory:** 20 courses have attained more than 90% aggregate of learning outcome

**Practical:** 18 courses have attained more than 90% aggregate of learning outcome

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## 2015-2016

**Table: 3.2.2a Consolidated: University + Internal Marks**

Course code	Course name	University attainment		Sessional attainment		Attainment Level		%Attainment (Achieved /required) X100	Average programme outcomes (max 3.00)
		100%	80%	100%	20%	Achieved	Required		
<b>B. Pharmacy I year</b>									
C101	Pharmaceutical Chemistry-I (Organic Chemistry)	1.2	0.96	2.517	0.5	1.46	1.88	77.87	2.34
C102	Pharmaceutical Chemistry-II(Inorganic Chemistry)	1.2	0.96	2.085	0.42	1.38	1.75	78.86	2.37
C103	Pharmaceutics-I(Dispensing and Hospital Pharmacy)	1.43	1.14	2.667	0.53	1.67	2.63	63.62	1.91
C104	Pharmaceutics-II(General Pharmacy)	1.48	1.18	2.1	0.42	1.6	1.60	100.00	3.00
C105	Pharmacology-I(Human Anatomy and Physiology)	1.54	1.23	2.433	0.49	1.72	2.32	74.14	2.22
C106	Pharmacognosy-I	1.33	1.07	2.617	0.52	1.59	1.85	85.95	2.58
C107	Mathematics	1.49	1.17	2.133	0.43	1.6	1.92	83.55	2.51
C108	Biology	1.63	1.3	2.343	0.47	1.77	1.68	100.00	3.00
C109	Pharmaceutical Chemistry-I(Organic Chemistry) Laboratory	1.966	1.57	2.28	0.53	2.1	2.17	96.92	2.91
C110	Pharmaceutical Chemistry-II(Inorganic Chemistry) Laboratory	2.06	1.65	2.46	0.49	2.14	1.60	100.00	3.00
C111	Pharmaceutics-I(Dispensing and Hospital Pharmacy)Laboratory	2.46	1.97	2.53	0.5	2.47	2.10	100.00	3.00
C112	Pharmaceutics-II(General Pharmacy)Laboratory	1.92	1.53	2.61	0.52	2.05	2.33	88.17	2.65
C113	Pharmacology-I (Human Anatomy and Physiology) Laboratory	1.83	1.46	2.88	0.57	2.03	2.32	87.50	2.63
C114	Pharmacognosy-I Laboratory	2.09	1.67	2.91	0.58	2.25	2.13	100.00	3.00
C115	Biology Laboratory	1.59	1.27	2.01	0.4	1.67	1.68	99.70	2.99
<b>B. Pharmacy II year</b>									
C201	Pharmaceutics-III (Unit Operation-I)	1.54	1.23	1.64	0.33	1.56	2.23	70.00	2.10
C202	Pharmaceutics-IV (Pharmaceutical Microbiology)	2.08	1.66	1.94	0.39	2.05	1.46	100.00	3.00
C203	Pharmaceutics-V Forensic Pharmacy	1.92	1.54	2.62	0.52	2.06	2.39	86.37	2.59
C204	Pharmaceutical Chemistry-III (Biochemistry)	1.38	1.1	1.73	0.35	1.45	1.69	85.57	2.57

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C205	Pharmaceutical Chemistry-IV (Physical Chemistry)	1.82	1.46	2.547	0.51	1.97	2.13	92.71	2.78
C206	Pharmaceutical Chemistry-V (Pharmaceutical Analysis-I)	1.36	1.09	1.75	0.35	1.44	1.33	100.00	3.00
C207	Pharmacognosy-II	1.33	1.07	1.83	0.37	1.44	2.23	64.49	1.93
C208	Computer Science	1.75	1.4	2.38	0.48	1.88	2.46	76.30	2.29
C209	Environmental Studies	1.59	1.272	2.32	0.46	1.736	1.80	96.67	2.90
C210	Pharmaceutics-IV(Pharmaceutical Microbiology) Laboratory	2.45	1.96	2.66	0.53	2.49	1.46	100.00	3.00
C211	Pharmaceutical Chemistry-III (Biochemistry) Laboratory	2.04	1.63	2.07	0.41	2.04	2.39	85.40	2.56
C212	Pharmaceutical Chemistry-IV(Physical Chemistry) Laboratory	2.19	1.75	2.96	0.59	2.34	2.13	100.00	3.00
C213	Pharmaceutical Chemistry-V (Pharmaceutical Analysis-I) Laboratory	2.28	1.83	2.38	0.47	2.3	1.43	100.00	3.00
C214	Pharmacognosy-II Laboratory	1.358	1.09	2.32	0.46	1.55	2.33	66.49	1.99
C215	Computer Science Laboratory	2.96	2.37	2.32	0.46	2.83	2.66	100.00	3.00
B. Pharmacy III year									
C301	Pharmaceutics-VI (Physical Pharmacy)	2.18	1.75	2.17	0.44	2.19	2.03	100.00	3.00
C302	Pharmaceutics-VII (Unit Operation-II)	2.07	1.65	2.22	0.44	2.09	1.50	100.00	3.00
C303	Pharmaceutics-VIII (Dosage Form Design)	1.925	1.54	2.37	0.47	2.01	1.50	100.00	3.00
C304	Pharmaceutical Chemistry-VI (Heterocyclic Compounds and Natural Products)	1.56	1.25	2.16	0.43	1.68	2.08	80.96	2.43
C305	Pharmaceutical Chemistry-VII (Medicinal Chemistry-I)	1.29	1.03	2.32	0.46	1.49	2.14	69.53	2.09
C306	Pharmacology-II	2.09	1.67	2.28	0.46	2.13	1.64	100.00	3.00
C307	Pharmaceutical Biotechnology	2.07	1.66	2.07	0.42	2.08	2.00	100.00	3.00
C308	Pharmacognosy-III	1.67	1.33	2.766	0.55	1.88	1.83	100.00	3.00
C309	Pharmaceutics-VI(Physical Pharmacy) Laboratory	2.22	1.78	2.62	0.52	2.3	2.46	93.56	2.81
C310	Pharmaceutics-VII (Unit Operation-II) Laboratory	2.16	1.73	2.8	0.56	2.29	2.33	98.16	2.94
C311	Pharmaceutics-VIII (Dosage Form Design) Laboratory	2.28	1.82	2.74	0.55	2.37	2.32	100.00	3.00
C312	Pharmaceutical Chemistry-VII (Medicinal Chemistry-I) Laboratory	2.3	1.84	2.49	0.5	2.34	1.89	100.00	3.00

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C313	Pharmacology-II Laboratory	2.22	1.78	2.86	0.57	2.35	1.79	100.00	3.00
C314	Pharmacognosy-III Laboratory	2.48	1.98	2.76	0.55	2.53	1.87	100.00	3.00
B. Pharmacy I V year									
C401	Pharmaceutics-IX (Biopharmaceutics and Pharmacokinetic)	2.1	1.37	1.89	0.38	1.75	2.10	83.33	2.50
C402	Pharmaceutics-X (Pharmaceutical Technology-I)	1.74	1.34	2.29	0.46	1.8	1.75	100.00	3.00
C403	Pharmaceutics-XI (Pharmaceutical Technology-II)	1.45	1.42	2.10	0.42	1.84	2.15	85.67	2.57
C404	Pharmaceutics-XII (Pharmaceutical Management)	2.31	1.23	2.36	0.47	1.7	2.31	73.51	2.21
C405	Pharmaceutical Chemistry-VIII (Medicinal Chemistry-II)	2.33	0.99	2.03	0.41	1.4	2.33	59.97	1.80
C406	Pharmaceutical Chemistry-IX (Pharmaceutical Analysis-II)	2.12	0.95	1.69	0.34	1.29	1.85	69.80	2.09
C407	Pharmacology-II	2.18	1.46	1.74	0.35	1.81	1.93	93.69	2.81
C408	Project	2.04	1.63	2.83	0.57	2.20	1.79	100.00	3.00
C409	Pharmaceutics-IX (Biopharmaceutics and Pharmacokinetic) Laboratory	2.12	1.75	1.98	0.38	2.13	2.13	100.00	3.00
C410	Pharmaceutics-XI (Pharmaceutical Technology-II) Laboratory	1.5	1.81	2.34	0.46	2.27	2.09	100.00	3.00
C411	Pharmaceutical Chemistry-VIII (Medicinal Chemistry-II) Laboratory	2.37	2.06	2.74	0.55	2.61	2.13	100.00	3.00
C412	Pharmaceutical Chemistry-IX (Pharmaceutical Analysis-II) Laboratory	2.12	1.87	2.54	0.5	2.37	1.85	100.00	3.00
C413	Pharmacology-II Laboratory	2.05	1.83	2.85	0.57	2.4	1.86	100.00	3.00

  
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## **Attainment of Program Outcomes B.Pharm**

### **Attainment of each PO**

The course outcomes are mapped for each program outcome. The attainment of course outcomes achieved in the years 2013-2014, 2014-15 and 2015-16 are translated into program outcomes based on the CO-PO Matrixes and course-PO Matrixes

### **The following are the PO's Assessment Tools:**

Several tools are described for assessing outcomes. The program outcomes are based on the course outcomes. Thus the tools remain the same for assessing the program outcomes.

Assessment tools are categorized into two methods to assess the course outcomes as:

### **Direct methods and indirect methods.**

- Direct method display the student's knowledge and skills from their performance in the Sessional examinations, class test, seminars, and assignments. These methods provide a sampling of what students know and/or can do and provide strong evidence of student learning.
- Indirect methods such as surveys ask the stakeholders to reflect on student's learning. They assess opinions or thoughts about the graduate's knowledge or skills and their valued by different stakeholders.

### **Indirect Assessment Methods**

**ALUMNI: SURVEY QUESTIONNAIRE:** Collect variety of information about program satisfaction and college from the Alumni students.

**EMPLOYER'S FEEDBACK FORM:** Collect variety of information about the graduates' skills, capabilities and opportunities.

### **Result evaluation of each PO (30)**

The results evaluation is made in two levels:

Student performance (direct) – 80% value

Surveys (indirect) – 20% value

Direct attainment level of PO is determined by taking average across all courses. Indirect attainment level of PO is determined on the student surveys (alumni).

### **The observations are made as per the given Table:**

The percent attainment are converted into a scale considering the maximum of 3, *i.e.*, high. Form the calculations, results are tabulated as given below, for the academic year of 2013-14, 2014-15 and 2015-16.

The conclusions are drawn for the **B. Pharmacy Program.**

**2016-2017**

  
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65 courses attained the three (3) Pos (PO1, PO3, PO11) to the tune for more than 75%. About 5 POs (PO 3, PO 4, PO 4, PO 6, PO10, and PO 11) are attained to the tune of more than 70% and POs (PO 5, PO 6 and PO 10) more than 65%.

The conclusions are drawn for the B. Pharmacy Program.

**2015-16:** 43 courses attained the POs to the tune for more than 75%. About 6 POs (PO 1, PO 3, PO 4, PO 6, PO10, and PO 11) are attained to the tune of more than 65%, other POs are attained by more than 45%

  
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2016-2017

Table

Course code	Course name	Program outcomes										
		1	2	3	4	5	6	7	8	9	10	11
	B. Pharmacy I Semester											
BP101T	Human Anatomy and Physiology I– Theory	2.97	2.97	1.98	1.98	1.98	-	0.99	1.98	0.99	-	2.57
BP102T	Pharmaceutical Analysis I –Theory	3.00	1.00	2.00	2.00	-	-	-	-	-	1.00	-
BP103T	Pharmaceutics I – Theory	2.58	1.72	1.50	1.72	-	1.93	1.72	1.29	1.93	-	1.72
BP104T	Pharmaceutical Inorganic Chemistry – Theory	2.16	2.33	2.66	-	-	2.66	2.33	-	2.16	2.66	2.16
BP105T	Communication skills –Theory	2.20	1.60	-	-	2.00	1.60	1.40	2.00	-	-	2.40
BP106RBT	Remedial Biology/	2.82	1.50	2.26	2.07	-	1.69	0.94	2.82	2.63	-	2.82
BP106RMT	Mathematics – Theory*	3.00	3.00	3.00	1.75	-	-	-	-	-	-	3.00
BP107P	Human Anatomy and Physiology – Practical	3.00	2.00	2.50	3.00	2.50	-	1.80	2.00	2.00	-	3.00
BP108P	Pharmaceutical Analysis I – Practical	3.00	2.00	3.00	2.00	-	-	-	-	-	2.00	-
BP109P	Pharmaceutics I – Practical	2.75	1.50	2.25	3.00	-	2.75	2.00	2.75	1.75	-	1.75
BP110P	Pharmaceutical Inorganic Chemistry – Practical	2.25	3.00	2.25	-	-	2.25	2.25		2.00	-	2.00
BP111P	Communication skills –Practical*	1.60	1.60	-	-	2.00	1.60	1.40	2.00	-	-	2.40
BP112RBP	Remedial Biology –Practical*	3.00	1.00	2.00	2.40	-	1.00	1.00	2.00	2.00	-	3.00
	B. Pharmacy II Semester											
BT201T	Human Anatomy and Physiology II– Theory	3.00	2.00	2.00	2.00	2.00	-	1.00	2.00	1.00	-	2.00
BP202T	Pharmaceutical Organic Chemistry I – Theory	2.17	2.17	1.99	-	1.45	-	-	0.72	-	1.45	-
BP203T	Biochemistry – Theory	3.00	2.50	1.50	2.25	-	2.00	-	2.00	2.50	2.00	3.00
BP204T	Pathophysiology – Theory	2.96	2.17	2.56	1.58	1.97	1.38	-	2.17	1.97	1.97	2.76

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BP205T	Computer Applications in Pharmacy – Theory *	3.00	3.00	3.00	1.75	-	-	-	-	-	-	3.00
BP206T	Environmental sciences – Theory *	1.47	2.21	2.21	1.47	2.06	2.21	-	1.77	-	2.21	2.21
BP207P	Human Anatomy and Physiology II –Practical	3.00	2.00	-	2.00	2.30	-	-	2.00	-	-	2.00
BP208P	Pharmaceutical Organic Chemistry I– Practical	2.95	2.95	2.56	2.56	-	-	-	-	-	1.77	1.97
BP209P	Biochemistry – Practical	3.00	2.00	2.75	-	-	2.50	-	3.00	2.50	3.00	3.00
BP210P	Computer Applications in Pharmacy – Practical*	3.00	3.00	3.00	1.75	-	-	-	-	-	-	3.00
B. Pharmacy II Year												
C201	Pharmaceutics-III (Unit Operation-I)	1.68	1.96	1.82	1.68	-	2.10	-	-	1.68	-	1.68
C202	Pharmaceutics-IV (Pharmaceutical Microbiology)	1.50	2.00	1.00	1.16	-	-	-	1.66	-	-	-
C203	Pharmaceutics-V Forensic Pharmacy	1.91	1.58	-	-	-	1.71	1.83	1.58	1.83	-	-
C204	Pharmaceutical Chemistry-III (Biochemistry)	2.77	-	1.51	2.52	-	2.01	-	2.01	2.27	2.27	2.77
C205	Pharmaceutical Chemistry-IV (Physical Chemistry)	2.60	2.00	2.40	-	2.40	3.00	-	2.20	-	2.40	2.80
C206	Pharmaceutical Chemistry-V (Pharmaceutical Analysis-I)	2.00	2.60	1.00	1.00	-	-	-	-	2.00	-	1.75
C207	Pharmacognosy-II	2.06	1.65	0.96	2.19	-	1.78	-	-	1.92	-	2.19
C208	Computer Science	-	1.79	1.19	1.19	-	-	1.59	1.59	-	-	-
C209	Environmental Studies	1.59	1.27	2.32	0.46	1.73	2.6	0	2.6	0	0	0
C210	Pharmaceutics-IV(Pharmaceutical Microbiology) Laboratory	1.50	2.00	1.00	1.16	-	-	-	1.66	-	-	-
C211	Pharmaceutical Chemistry-III (Biochemistry) Laboratory	2.94	1.96	2.69	2.69	-	2.45	-	2.94	2.45	2.94	2.94
C212	Pharmaceutical Chemistry-IV(Physical Chemistry) Laboratory	2.53	1.95	2.33	-	2.33	2.92	-	2.14	-	2.33	2.72
C213	Pharmaceutical Chemistry-V (Pharmaceutical Analysis-I) Laboratory	2.00	2.00	1.00	1.00	-	-	-	-	2.00	-	2.25
C214	Pharmacognosy-II Laboratory	2.50	2.16	-	3.00	2.16	2.50	2.00	2.00	-	-	2.33

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C215	Computer Science Laboratory	-	2.68	2.38	1.79	-	-	2.38	2.68	-	-	-
B. Pharmacy III year												
C301	Pharmaceutics-VI (Physical Pharmacy)	2.31	1.96	1.96	1.78	-	2.49	-	-	1.97	1.96	2.13
C302	Pharmaceutics-VII (Unit Operation-II)	2.39	1.92	2.56	-	-	2.23	-	-	-	2.23	-
C303	Pharmaceutics-VIII (Dosage Form Design)	2.16	1.67	1.67	2.17	-	-	-	1.33	-	-	1.00
C304	Pharmaceutical Chemistry-VI (Heterocyclic Compounds and Natural Products)	1.75	1.94	1.55	2.13	-	1.75	2.13	1.94	1.55	1.36	2.13
C305	Pharmaceutical Chemistry-VII (Medicinal Chemistry-I)	1.66	2.5	1.40	1.53	-	1.40	-	0.89	1.15	1.53	-
C306	Pharmacology-II	2.29	1.52	-	1.91	-	1.72	1.14	-	0.95	-	1.91
C307	Pharmaceutical Biotechnology	1.40	2.00	2.00	2.60	-	-	-	-	-	-	1.80
C308	Pharmacognosy-III	2.29	2.12	-	2.29	-	1.97	-	-	2.12	-	2.12
C309	Pharmaceutics-VI(Physical Pharmacy) Laboratory	2.11	2.11	1.94	-	-	2.11	-	-	-	2.11	2.11
C310	Pharmaceutics-VII (Unit Operation-II) Laboratory	2.98	2.32	2.39	2.98	2.59	-	-	2.98	-	-	2.78
C311	Pharmaceutics-VIII (Dosage Form Design) Laboratory	2.22	1.67	2.04	2.04	-	2.04	-	-	-	2.04	2.04
C312	Pharmaceutical Chemistry-VII (Medicinal Chemistry-I) Laboratory	2.60	1.60	1.80	2.80	-	2.20	-	-	1.80	-	2.00
C313	Pharmacology-II Laboratory	2.25	2.25	-	2.75	-	2.00	2.00	-	2.25	-	2.00
C314	Pharmacognosy-III Laboratory	2.11	1.93	-	2.11	-	1.76	-	-	1.93	-	1.93
B. Pharmacy I V year												
C401	Pharmaceutics-IX (Biopharmaceutics and Pharmacokinetic)	2.20	2.05	2.93	2.50	-	0.98	-	-	1.71	-	-
C402	Pharmaceutics-X (Pharmaceutical Technology-I)	1.83	1.83	1.83	1.50	-	-	-	-	1.83	1.66	-
C403	Pharmaceutics-XI (Pharmaceutical Technology-II)	2.50	1.00	1.00	1.67	1.33	1.33	-	-	-	-	1.33
C404	Pharmaceutics-XII (Pharmaceutical Management)	-	1.70	-	-	2.19	-	-	2.43	2.68	-	-

16

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C405	Pharmaceutical Chemistry-VIII (Medicinal Chemistry-II)	2.08	1.56	1.82	2.67	-	1.56	2.08	1.56	1.56	2.08	-
C406	Pharmaceutical Chemistry-IX (Pharmaceutical Analysis-II)	2.63	1.75	2.63	2.33	0.88	1.75	1.75	1.75	1.75	0.88	2.63
C407	Pharmacology-II	2.13	1.66	2.13	1.89	1.66	2.13	1.89	2.37	2.37	1.89	2.61
C408	Project	2.83	1.66	1.83	1.83	2.50	2.00	1.50	1.83	2.33	1.33	2.83
C409	Pharmaceutics-IX (Biopharmaceutics and Pharmacokinetic) Laboratory	2.25	2.25	3.00	2.50	-	1.00	-	-	1.75	-	-
C410	Pharmaceutics-XI (Pharmaceutical Technology-II) Laboratory	2.50	1.00	1.00	1.67	1.33	1.33	-	-	-	-	1.67
C411	Pharmaceutical Chemistry-VIII (Medicinal Chemistry-II) Laboratory	2.50	1.25	2.50	2.50	-	2.50	-	-	1.50	-	1.50
C412	Pharmaceutical Chemistry-IX (Pharmaceutical Analysis-II) Laboratory	3.00	2.00	3.00	2.33	1.00	2.00	2.00	2.00	2.00	1.00	3.00
C413	Pharmacology-II Laboratory	2.50	2.50	2.25	3.00	-	1.25	2.00	-	1.75	1.50	1.75
	B. Pharm, Direct attainment (3 Max)	2.37643	1.95053	2.10318	2.04035	1.8394	1.89796	2.05664	2.00151	1.96058	1.9448	2.29533
	B. Pharm, Direct attainment (100%)	79.2142	65.0177	70.1059	68.0115	61.3132	63.2654	68.5547	66.7172	65.3528	64.8268	76.511
	B. Pharm, Direct attainment (80%)	63.3713	52.0142	56.0847	54.4092	49.0506	50.6123	54.8437	53.3737	52.2822	51.8614	61.2088
	B. Pharm, Indirect attainment (20%)	18	18	18	16	18	17	19	18	18	18	19
	Total attainment, %	81.37	70.01	74.08	70.41	67.05	67.61	73.84	71.37	70.28	69.86	80.21

  
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2015-16

Table:

Course code	Course name	Program outcomes										
		1	2	3	4	5	6	7	8	9	10	11
B. Pharmacy 1 year												
C101	Pharmaceutical Chemistry-I (Organic Chemistry)	2.3 4	1.56	1.17	0.78	-	-	-	-	-	-	-
C102	Pharmaceutical Chemistry-II (Inorganic Chemistry)	1.5 8	1.58	0.99	-	-	-	-	-	1.3 8	-	-
C103	Pharmaceutics-I(Dispensing and Hospital Pharmacy)	1.9 1	1.27	1.75	1.75	-	-	-	-	-	-	-
C104	Pharmaceutics-II(General Pharmacy)	2.4 0	2.00	2.00	1.60	-	-	-	-	-	-	1.8 0
C105	Pharmacology-I(Human Anatomy and Physiology)	2.2 2	1.93	-	1.93	-	1.4 8	-	-	1.0 4	-	-
C106	Pharmacognosy-I	2.2 3	-	1.72	2.58	-	-	1.72	1.8 9	2.5 8	-	2.5 8
C107	Mathematics	1.3 9	1.67	1.25	2.09	-	-	-	-	-	-	-
C108	Biology	3.0 0	1.00	-	1.25	1.5 0	2.2 5	1.50	2.0 0	2.2 5	2.0 0	3.0 0
C109	Pharmaceutical Chemistry-I (Organic Chemistry) Laboratory	2.9 1	2.91	2.91	1.94	-	-	-	-	-	1.9 4	2.9 1
C110	Pharmaceutical Chemistry-II (Inorganic Chemistry) Laboratory	2.0 0	2.00	1.25	-	-	-	-	-	1.7 5	-	1.7 0
C111	Pharmaceutics-I(Dispensing and Hospital Pharmacy)Laboratory	3.0 0	3.00	2.75	2.75	-	-	-	-	-	-	2.7 5
C112	Pharmaceutics-II(General Pharmacy)Laboratory	2.6 5	1.76	2.65	2.65	2.2 9	-	-	2.6 5	1.7 6	-	2.6 5

  
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C113	Pharmacology-I (Human Anatomy and Physiology) Laboratory	2.63	2.28	-	2.28	-	1.75	-	-	1.23	-	-
C114	Pharmacognosy-I Laboratory	2.60	2.00	2.00	3.00	-	-	2.00	2.60	2.80	-	3.00
C115	Biology Laboratory	2.99	1.00	-	1.25	1.50	2.24	1.50	1.99	2.24	1.99	2.99
B. Pharmacy 2 <sup>nd</sup> year												
C201	Pharmaceutics-III (Unit Operation-I)	1.68	1.96	1.82	1.68	-	2.10	-	-	1.68	-	1.68
C202	Pharmaceutics-IV (Pharmaceutical Microbiology)	1.50	2.00	1.00	1.16	-	-	-	1.66	-	-	-
C203	Pharmaceutics-V Forensic Pharmacy	2.25	1.87	-	-	-	2.01	2.16	1.87	2.16	-	-
C204	Pharmaceutical Chemistry-III (Biochemistry)	2.35		1.28	2.14	-	1.71	-	1.71	1.93	1.93	2.35
C205	Pharmaceutical Chemistry-IV (Physical Chemistry)	2.41	1.85	2.22	-	2.22	2.78	-	2.04	-	2.22	2.60
C206	Pharmaceutical Chemistry-V (Pharmaceutical Analysis-I)	2.00	2.00	1.00	1.00	-	-	-	-	2.00	-	
C207	Pharmacognosy-II	1.61	1.29	0.75	1.72	-	1.39	-	-	1.50	-	1.72
C208	Computer Science	-	2.29	1.53	1.53	-	-	2.03	2.03	-	-	-
C209	Environmental Studies	1.54	1.23	2.24	0.44	1.67	2.51	0	2.57	0	0	0
C210	Pharmaceutics-IV (Pharmaceutical Microbiology) Laboratory	1.50	2.00	1.00	1.16	-	-	-	1.66	-	-	-
C211	Pharmaceutical Chemistry-III (Biochemistry) Laboratory	2.56	1.71	2.35	2.35	-	2.13	-	2.56	2.13	2.56	2.56


C212	Pharmaceutical Chemistry-IV(Physical Chemistry) Laboratory	2.60	2.00	2.40	-	2.40	3.00	-	2.20	-	2.40	2.80
C213	Pharmaceutical Chemistry-V (Pharmaceutical Analysis-I) Laboratory	2.00	2.60	1.00	1.00	-	-	-	-	2.00	-	2.25
C214	Pharmacognosy-II Laboratory	1.90	1.64	-	2.28	1.64	1.90	1.52	1.52	-	-	-
C215	Computer Science Laboratory	-	3.00	2.66	2.00	-	-	2.66	3.00	-	-	-
B. Pharmacy 3 <sup>rd</sup> year												
C301	Pharmaceutics-VI (Physical Pharmacy)	2.60	2.20	2.20	2.00	-	2.80	-	-	2.22	2.20	2.40
C302	Pharmaceutics-VII (Unit Operation-II)	2.50		2.67	-	-	2.33	-	-	-	2.33	-
C303	Pharmaceutics-VIII (Dosage Form Design)	2.16	1.67	1.67	2.17	-	-	-	1.33	-	-	1.00
C304	Pharmaceutical Chemistry-VI (Heterocyclic Compounds and Natural Products)	1.82	2.02	1.62	2.23	-	1.82	2.23	2.02	1.62	1.42	2.23
C305	Pharmaceutical Chemistry-VII (Medicinal Chemistry-I)	1.81		1.53	1.67	-	1.53	-	0.97	1.25	1.67	-
C306	Pharmacology-II	3.00		-	2.50	-	2.25	1.50	-	1.25	-	2.50
C307	Pharmaceutical Biotechnology	1.40	2.00	2.00	2.60	-	-	-	-	-	-	1.80
C308	Pharmacognosy-III	2.33	2.16	-	2.33	-	2.00	-	-	2.16	-	2.16
C309	Pharmaceutics-VI(Physical Pharmacy) Laboratory	2.81	2.81	2.57	-	-	2.81	-	-	-	2.81	2.81
C310	Pharmaceutics-VII (Unit Operation-II) Laboratory	2.94	2.29	2.36	2.94	2.55	-	-	2.94	-	-	2.75

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C311	Pharmaceutics-VIII (Dosage Form Design) Laboratory	3.00	2.25	2.75	2.75	-	2.75	-	-	-	2.75	2.75
C312	Pharmaceutical Chemistry-VII (Medicinal Chemistry-I) Laboratory	2.60	1.60	1.80	2.80	-	2.20	-	-	1.80	-	2.00
C313	Pharmacology-II Laboratory	2.25	2.25	-	2.75	-	2.00	2.00	-	2.25	-	2.00
C314	Pharmacognosy-III Laboratory	2.40	2.20	-	2.40	-	2.00	-	-	2.20	-	2.20
B. Pharmacy 4 <sup>th</sup> year												
C401	Pharmaceutics-IX (Biopharmaceutics and Pharmacokinetic)	1.88	1.75	2.50	2.50	-	0.83	-	-	1.46	-	-
C402	Pharmaceutics-X (Pharmaceutical Technology-I)	1.83	1.83	1.83	1.50	-	-	-	-	1.83	1.66	-
C403	Pharmaceutics-XI (Pharmaceutical Technology-II)	2.14	0.86	0.86	1.67	1.14	1.14	-	-	-	-	1.14
C404	Pharmaceutics-XII (Pharmaceutical Management)	-	1.29	-	-	1.65	-	-	1.84	2.02	-	-
C405	Pharmaceutical Chemistry-VIII (Medicinal Chemistry-II)	1.60	1.20	1.40	2.67	-	1.20	1.60	1.20	1.20	1.60	-
C406	Pharmaceutical Chemistry-IX (Pharmaceutical Analysis-II)	2.09	1.40	2.09	2.33	0.70	1.40	1.40	1.40	1.40	0.70	2.09
C407	Pharmacology-II	2.11	1.64	2.11	1.87	1.64	2.11	1.87	2.34	2.34	1.87	2.58
C408	Project	2.83	1.66	1.83	1.83	2.50	2.00	1.50	1.83	2.33	1.33	2.83
C409	Pharmaceutics-IX (Biopharmaceutics and Pharmacokinetic) Laboratory	2.25	2.25	3.00	2.50	-	1.00	-	-	1.75	-	-
C410	Pharmaceutics-XI (Pharmaceutical Technology-II) Laboratory	2.50	1.00	1.00	1.67	1.33	1.33	-	-	-	-	1.67

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<b>C411</b>	Pharmaceutical Chemistry-VIII (Medicinal Chemistry-II) Laboratory	2.5 0	1.25	2.50	2.50	-	2.5 0	-	-	1.5 0	-	1.5 0
<b>C412</b>	Pharmaceutical Chemistry-IX (Pharmaceutical Analysis-II) Laboratory	3.0 0	2.00	3.00	2.33	1.0 0	2.0 0	2.00	2.0 0	2.0 0	1.0 0	3.0 0
<b>C413</b>	Pharmacology-II Laboratory	2.5 0	2.50	2.25	3.00	-	1.2 5	2.00	-	1.7 5	1.5 0	1.7 5
	B. Pharm, Direct attainment (3 Max)	2.2 7	1.71	1.90	2.03	1.7 0	1.9 5	1.03	1.4 3	1.8 0	1.8 0	2.2 0
	<b>B. Pharm, Direct attainment (100%)</b>	<b>75. 52</b>	<b>56.8 7</b>	<b>63.2 0</b>	<b>67.6 9</b>	<b>56. 74</b>	<b>65. 03</b>	<b>34.4 3</b>	<b>47. 81</b>	<b>59. 96</b>	<b>60. 13</b>	<b>73. 32</b>
	<b>B. Pharm, Direct attainment (80%)</b>	<b>60. 42</b>	<b>45.4 9</b>	<b>50.5 6</b>	<b>54.1 6</b>	<b>45. 40</b>	<b>52. 02</b>	<b>27.5 5</b>	<b>38. 25</b>	<b>47. 97</b>	<b>48. 10</b>	<b>58. 65</b>
	<b>B. Pharm, Indirect attainment (20%)</b>	<b>18. 00</b>	<b>18.0 0</b>	<b>18.0 0</b>	<b>16.0 0</b>	<b>18. 00</b>	<b>17. 00</b>	<b>18.0 0</b>	<b>19. 00</b>	<b>16. 00</b>	<b>17. 00</b>	<b>18. 00</b>
	<b>Total attainment, %</b>	<b>78. 74</b>	<b>63.6 8</b>	<b>68.6 6</b>	<b>70.3 4</b>	<b>64. 10</b>	<b>69. 38</b>	<b>45.7 2</b>	<b>57. 39</b>	<b>64. 01</b>	<b>65. 10</b>	<b>76. 97</b>

  
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**Program Outcomes & Course Outcomes**

**Course and PO Correlation Table**

POs	1st Semester	2nd Semester	3rd Semester	4th Semester
<b>PO1</b>	CP-101, CP-102, CP-103, CP-104, CP-105, CP-106, CP-107, CP-108	CP-201, CP-202, CP-203, CP-204, CP-205, CP-206, CP-207, CP-208	CP-301, CP-302, CP-303, HR-301, HR-306, MM-301, MM-302, FM-301, FM-302, IT-305, IB-302, IB-303, RM-301, RM-302, MH-301, MH-303, ST-301	CP-401, CP-402, CP-403, MM-401, MM-405, FM-404, FM-406, HR-404, IT-402, IT-403, IB-401, IB-403, MH-401, MH-402, RM-401, RM-402
<b>PO2</b>	CP-101, CP-102, CP-103, CP-104, CP-105, CP-106, CP-107, CP-108	CP-201, CP-202, CP-203, CP-204, CP-205, CP-206, CP-207, CP-208	CP-301, CP-302, CP-303, HR-301, HR-306, MM-301, MM-302, FM-301, FM-302, IT-305, IB-302, IB-303, RM-301, RM-302, MH-301, MH-303, ST-301	CP-401, CP-402, CP-403, MM-401, MM-405, FM-404, FM-406, HR-404, IT-402, IT-403, IB-401, IB-403, MH-401, MH-402, RM-401, RM-402
<b>PO3</b>	CP-101, CP-102, CP-104, CP-105, CP-107, CP-108	CP-201, CP-202, CP-203, CP-204, CP-205, CP-206, CP-207, CP-208	CP-301, CP-302, CP-303, HR-301, HR-306, MM-301, MM-302, , IT-305, IB-302, IB-303, RM-301, RM-302, MH-301, MH-303, ST-301	CP-403, MM-401, MM-405, HR-404, IT-402, IT-403, IB-401, IB-403, MH-402, RM-401, RM-402
<b>PO4</b>	CP-101, CP-102, CP-103, CP-104, CP-105, CP-106, CP-107, CP-108	CP-201, CP-202, CP-203, CP-204, CP-205, CP-206, CP-207, CP-208	CP-301, CP-302, CP-303, HR-301, HR-306, MM-301, MM-302, FM-301, FM-302, IT-305, IB-302, IB-303, RM-301, RM-302, MH-301, MH-303, ST-301	CP-401, CP-402, CP-403, MM-401, MM-405, FM-404, FM-406, HR-404, IT-402, IT-403, IB-401, IB-403, MH-401, MH-402, RM-401, RM-402
<b>PO5</b>	CP-101, CP-102, CP-103, CP-104, CP-105, CP-106, CP-107, CP-108	CP-201, CP-202, CP-203, CP-204, CP-205, CP-206, CP-207, CP-208	CP-301, CP-302, CP-303, HR-301, HR-306, MM-301, MM-302, FM-301, FM-302, IT-305, IB-302, IB-303, RM-301, RM-302, MH-301, MH-303, ST-301	CP-401, CP-402, CP-403, MM-401, MM-405, FM-404, FM-406, HR-404, IT-402, IT-403, IB-401, IB-403, MH-401, MH-402, RM-401, RM-402
<b>PO6</b>	CP-102, CP-103, CP-104, CP-106, CP-107, CP-108	CP-201, CP-202, CP-204, CP-205, CP-206, CP-207, CP-208	CP-303, FM-301, FM-302, IT-305, RM-301, RM-302, MH-303, ST-301	CP-401, FM-404, FM-406, HR-404, IT-402, IT-403, IB-401, MH-401
<b>PO7</b>	CP-101, CP-102, CP-103, CP-104, CP-106, CP-107, CP-108	CP-201, CP-202, CP-204, CP-205, CP-206, CP-207, CP-208	CP-301, CP-302, CP-303, HR-301, HR-306, MM-301, MM-302, FM-301, FM-302, IT-305, IB-302, IB-303, RM-301, RM-302, MH-301, MH-303, ST-301	CP-401, CP-402, CP-403, MM-401, MM-405, FM-404, FM-406, HR-404, IT-402, IT-403, IB-401, IB-403, MH-401, MH-402, RM-401, RM-402

**Attainment of Program Outcomes**

**Describe the assessment tools and processes used to gather the data upon which the evaluation of Program Outcome is based**

Attainment of program outcome has been assessed through direct and indirect assessment. For each question from assignment/Case Study and sessional test, Percentage of students getting more than overall average marks provides Course Outcome.

*Prof. Academic - Coordinator*



**Director**  
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**Deemed to be University**  
**Huilana-Ambala-133207**



**Program Outcomes & Course Outcomes**

**Course and PO Correlation Table**

POs	1st Semester	2nd Semester	3rd Semester	4th Semester
<b>PO1</b>	CP-101, CP-102, CP-103, CP-104, CP-105, CP-106, CP-107, CP-108	CP-201, CP-202, CP-203, CP-204, CP-205, CP-206, CP-207, CP-208	CP-301, CP-302, CP-303, HR-301, HR-306, MM-301, MM-302, FM-301, FM-302, IT-305, IB-302, IB-303, RM-301, RM-302, MH-301, MH-303, ST-301	CP-401, CP-402, CP-403, MM-401, MM-405, FM-404, FM-406, HR-404, IT-402, IT-403, IB-401, IB-403, MH-401, MH-402, RM-401, RM-402
<b>PO2</b>	CP-101, CP-102, CP-103, CP-104, CP-105, CP-106, CP-107, CP-108	CP-201, CP-202, CP-203, CP-204, CP-205, CP-206, CP-207, CP-208	CP-301, CP-302, CP-303, HR-301, HR-306, MM-301, MM-302, FM-301, FM-302, IT-305, IB-302, IB-303, RM-301, RM-302, MH-301, MH-303, ST-301	CP-401, CP-402, CP-403, MM-401, MM-405, FM-404, FM-406, HR-404, IT-402, IT-403, IB-401, IB-403, MH-401, MH-402, RM-401, RM-402
<b>PO3</b>	CP-101, CP-102, CP-104, CP-105, CP-107, CP-108	CP-201, CP-202, CP-203, CP-204, CP-205, CP-206, CP-207, CP-208	CP-301, CP-302, CP-303, HR-301, HR-306, MM-301, MM-302, , IT-305, IB-302, IB-303, RM-301, RM-302, MH-301, MH-303, ST-301	CP-403, MM-401, MM-405, HR-404, IT-402, IT-403, IB-401, IB-403, MH-402, RM-401, RM-402
<b>PO4</b>	CP-101, CP-102, CP-103, CP-104, CP-105, CP-106, CP-107, CP-108	CP-201, CP-202, CP-203, CP-204, CP-205, CP-206, CP-207, CP-208	CP-301, CP-302, CP-303, HR-301, HR-306, MM-301, MM-302, FM-301, FM-302, IT-305, IB-302, IB-303, RM-301, RM-302, MH-301, MH-303, ST-301	CP-401, CP-402, CP-403, MM-401, MM-405, FM-404, FM-406, HR-404, IT-402, IT-403, IB-401, IB-403, MH-401, MH-402, RM-401, RM-402
<b>PO5</b>	CP-101, CP-102, CP-103, CP-104, CP-105, CP-106, CP-107, CP-108	CP-201, CP-202, CP-203, CP-204, CP-205, CP-206, CP-207, CP-208	CP-301, CP-302, CP-303, HR-301, HR-306, MM-301, MM-302, FM-301, FM-302, IT-305, IB-302, IB-303, RM-301, RM-302, MH-301, MH-303, ST-301	CP-401, CP-402, CP-403, MM-401, MM-405, FM-404, FM-406, HR-404, IT-402, IT-403, IB-401, IB-403, MH-401, MH-402, RM-401, RM-402
<b>PO6</b>	CP-102, CP-103, CP-104, , CP-106, CP-107, CP-108	CP-201, CP-202, , CP-204, CP-205, CP-206, CP-207, CP-208	CP-303, FM-301, FM-302, IT-305, RM-301, RM-302, MH-303, ST-301	CP-401, FM-404, FM-406, HR-404, IT-402, IT-403, IB-401, , MH-401
<b>PO7</b>	CP-101, CP-102, CP-103, CP-104, CP-106, CP-107, CP-108	CP-201, CP-202, , CP-204, CP-205, CP-206, CP-207, CP-208	CP-301, CP-302, CP-303, HR-301, HR-306, MM-301, MM-302, FM-301, FM-302, IT-305, IB-302, IB-303, RM-301, RM-302, MH-301, MH-303, ST-301	CP-401, CP-402, CP-403, MM-401, MM-405, FM-404, FM-406, HR-404, IT-402, IT-403, IB-401, IB-403, MH-401, MH-402, RM-401, RM-402

**Attainment of Program Outcomes**

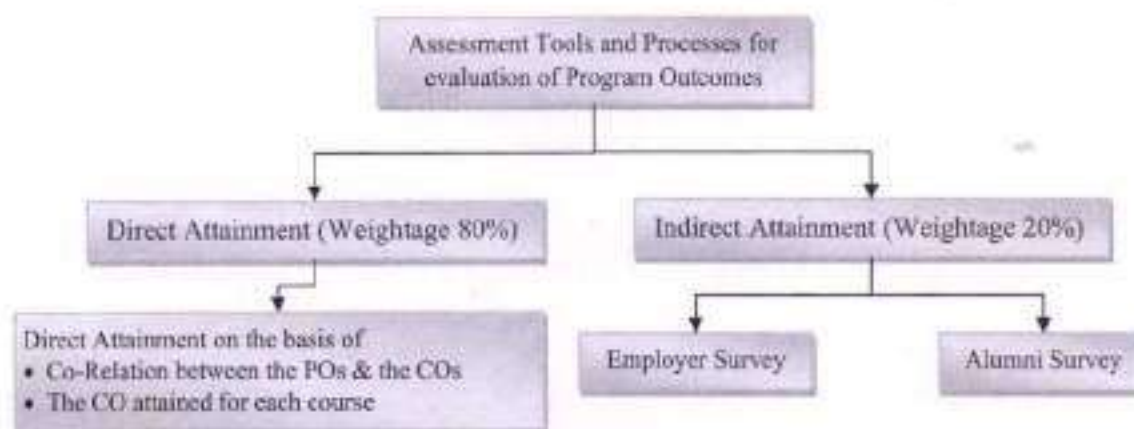
**Describe the assessment tools and processes used to gather the data upon which the evaluation of Program Outcome is based**

Attainment of program outcome has been assessed through direct and indirect assessment. For each question from assignment/Case Study and sessional test, Percentage of students getting more than overall average marks provides Course Outcome.

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**Figure1** Assessment Tools and Processes for evaluation of Program Outcomes

The co-relation of each Program Outcome with Course Outcome has been tabulated in the table 3.3. On the basis of the co-relation between the POs & the COs and the value of CO attained, the direct assessment of PO has been made. The target level for each PO has been set to 60 %. If the target level has not been achieved, then the program has been put for an action plan to achieve the target in the subsequent years.

However, for the Indirect Assessment of POs has been calculated on the basis of Employer Survey and the Alumni Survey. Table below shows the type of assessment tool, assessment criteria, data collection frequency, responsible entity and mapped PO for assessment processes. The weightage for direct and indirect assessments for POs has been considered as 80:20 respectively.

Assessment Tools, Criteria & Data Collection frequency for Program Outcomes

Assessment Tool	Assessment Tool	Assessment Criteria	Data Collection Frequency	Responsible Entity	Mapped PO
Direct	Course Performance	Average Marks Obtained in Internal and External Examination	Once every semester	Result Analysis Committee of the Department	All POs
Indirect	Employer Survey	Level of achievement	Once every year	Alumni Committee	All POs
	Alumni Survey	Level of achievement	Once every year	Alumni Committee	All POs

### 3.1.2. POs attainment levels (35)

**Table 3.3** POs Attainment

CO	Course Outcome	PO1	PO2	PO3	PO4	PO5	PO6	PO7
CP-101	Principles and Practices of Management	2.8	0.8	1.5	2.3	1.5	2.5	2.5
CP-102	Managerial Economics	2	3	1	3	1		2.5
CP-103	Business Environment	3	2.3		2.5	2	1	2.8
CP-104	Accounting for Managers	3	2.8	0.5	2.3	2.3		2.5
CP-105	Business Communication	1	1	2	3	1	1.5	3
CP-106	Quantitative Techniques for Decision Making	3	3		2.5	2.5	2.3	2.3
CP-107	Computer Applications in Management	1.5	2.8	1.8	2.5	2.3	1.5	2.5
CP-108	Industrial Research Presentation*	3	3	1.8	2.8	2	2.5	2.8
CP-201	Marketing Management	2.3	1.3	0.5	2.5	2.3	1.5	2.8
CP-202	Operations Research	2	3	1	1	2	0.8	2.3
CP-203	Business Research Methodology	2	3	1	3	2	0.8	2.8
CP-204	Organizational Behavior	1.5	1.8	2.3	2.3	2.5	1.5	2.5
CP-205	Financial Management	2.5	3	0.3	2.3	2.3	0.5	2.8
CP-206	Human Resource Management	3	1	3	2	3	1.8	3
CP-207	Production & Operations Management	3	3	2	2.3	2.8	0.5	2.8
CP-208	Industrial Research Presentation*	3	3	1.8	2.8	2	2.5	2.5
CP-301	Strategic Management	3	2.8	2.3	2.8	2.5	2.5	3
CP-302	Advance Business Research Methods	2	3	1	2	1		3
CP-303	Industrial Behaviour	2.8	2	0.8	3	1.8	1	3
HR-301	Management of Industrial Relations	3	2	2	2	3		2.5
HR-306	Human Resource Development	3	1	1	2	3		3
MM-301	Consumer Behavior	2	1	3	2	3		3
MM-302	Product & Brand Management	3	2	1	2	1		3
FM-301	Management of Financial Institutions & Services	2.5	2.3		2.8	2.3		3
FM-302	Security Analysis and Portfolio Management	2	3		3	1		3
IT-301	Electronic Commerce	2	2.3	1.3	2.3	2.3	2	3
IT-305	Applied IT Management- I	2.3	2.3	1.3	2	2.8	2	3
IB-302	International Trade	3	2	1	2	1		2.8
IB-303	International Marketing	3	1	1	3	2		3
RM-301	Retail Management	3	3	2.3	2.5	2.8	1.8	3
RM-302	Visual Merchandizing	3	3	1	2	2	1.8	3
MH-301	Management of Medical and Health Services	2	1	1	2	3		2.8
MH-303	Communication for Hospital Managers	1.8	1	1.8	2.5	1.8	1	3
ST-301	Summer Training	2.5	2.5	2.8	2.8	2.8	3	3
CP-401	Entrepreneurship Development	3	3		3	2.5	1.5	2.8
CP-402	Business Law	1	2		3	1	0.8	1.8
CP-403	Final Research Report	3	3	2.3	2.5	2.5	3	3
MM-401	Direct and E-marketing	3	2	1	3	1.8	1.3	
MM-405	Advance Marketing Strategies	2.8	3	0.3	2.5	2.5		3
FM-404	Foreign Exchange Management	2.5	3		2.3	2		3
FM-406	Business Analysis and evaluation	2.5	3		2.8	2.5		3
HR-404	Manpower Planning and Training & Development	2	2	2.5	2	3	1.8	3
HR-405	Performance Management	1.3	2	1.3	2	2.3	1.8	3
IT-402	Database Design and Management	2.8	2.5	1.3	1.8	1.5	1.5	2.3
IT-403	System Analysis & Design	2	2	1	2	1.8	1.5	2.5

IB-401	Export Import Documentation & Procedures	1.5	2.8	0.5	2.8	1.5	1.5	2.5
IB-403	Cross-Cultural & Global Human Resource Management	2.8	2	2	2.8	1.8	2.8	3
MH-401	Patient Care Services	1.5	2.3		1.5	2.8	2	2.8
MH-402	Hospital Management and Law	3	0.8	1.5	2.5	2.5	2.8	3
RM-401	Customer Relationship Management	3	3	2	2	3	3	3
RM-402	Non-Store Retailing	3	3	2	2.5	2	2	3
	POs Attainment Level	2.45	2.28	1.5	2.41	2.15	1.77	2.75

Each Course has been divided into 4 Course Outcomes and each course outcome has been further mapped with all Program Outcomes, on the basis of Low (1), Medium (2) and High (3) levels of relations. The average of COs level of relation with the POs provides the relation of POs with the different courses covered during the MBA program and tabulated in the table 3. The PO Attainment Level is also been calculated by taking average of each PO.

### Program Outcomes Attainment for MBA Program



**Figure2** Program Outcomes Attainment for MBA Program (Session 2016-2017)

The graph shows in figure 2 the commutative result of Direct and Indirect Attainment of Program Outcomes. After detailed analysis of COs and POs it has been found that POs Achieve the level of 60%.

#### Course Outcomes (50)

Describe the assessment tools and processes used to gather the data upon which the evaluation of Course Outcome is based

The evaluation for course outcomes is based on end semester and internal examinations. To measure the outcomes the internal examinations, assignments/ case-studies and sessionals were taken into consideration. For each course, the Course outcomes have been defined and correlation level (1: Low, 2: Medium, 3: High) for each course outcome has also been defined with all the described POs. The evaluation of theory classes, Practical classes, and Project works are basis on the following criterion:

- The criterion to measure the Course Outcomes for Internal Assessment (this comprises of Sessional Exam and Assignment/Case-Study) is the percentage of students attains more than the overall average marks (the overall average marks is the average marks obtained by all the students in all subjects during the semester).
- Similarly, External Assessment is also the percentage of number of students, who have obtained more than or equal to the overall average marks in end semester examination.
- Further, it has been decided that the course outcome for each course is having 40% weightage for Internal and 60% weightage for end semester examination
- Course Outcome Attainment level for the current academic year is 60%.

Record the attainment of Course Outcomes of all courses with respect to set attainment levels

As per the described process a detailed format has been designed to access the commutative effect of internal and external assessment for each course as shown in figure 3. The Course Outcomes attainment has been calculated on the basis of the internal marks and external marks. The percentage of students obtaining more than the university average marks has been calculated for all individual COs related to the course.

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CP-103.3	To construct the interest of International business among the students.	71.98
CP-103.4	To define the current Indian economic scenario and its implications in business.	71.98
<b>CP-103</b>	<b>Business Environment</b>	<b>71.87</b>
CP-104.1	Develop an awareness and understanding of the accounting process and fundamental accounting principles	62.06
CP-104.2	Develop ability for decision making and analytical skills in the context of financial analysis	62.12
CP-104.3	To develop and inculcate the financial decision making competence	62.49
CP-104.4	To extend the ability to apply cost control technique from industrial perception	62.49
<b>CP-104</b>	<b>Accounting for Managers</b>	<b>62.29</b>
CP-105.1	To have an understanding of basics of communication	68.12
CP-105.2	Ability to write business letters	68.18
CP-105.3	To learn the art of interviews and presentations	68.86
CP-105.4	Understand about the human Qualities like attitude, motivation, leadership and team work to work efficiently in the organization	68.86
<b>CP-105</b>	<b>Business Communication</b>	<b>68.51</b>
CP-106.1	Select the appropriate statistical method for solving practical problems.	39.90
CP-106.2	Develop skills among the students in analysing data.	39.71
CP-106.3	Understanding and comparing various statistical parameters to solve the business problems.	40.45
CP-106.4	To construct the understanding of the basic statistical concept.	40.51
<b>CP-106</b>	<b>Quantitative Techniques for Decision Making</b>	<b>40.14</b>
CP-107.1	Understand the meaning and basics of Data, Information, Knowledge and importance of IT in management.	48.39
CP-107.2	Understand the meaning and basic components of a computer system.	48.39
CP-107.3	To understand Hardware and Software components of computer system	48.57
CP-107.4	Choose and apply the various applications of IT used in Business.	48.57
<b>CP-107</b>	<b>Computer Applications in Management</b>	<b>48.48</b>
CP-108.1	Application of the theoretical concept in the business.	85.59
CP-108.2	To determine the importance of research in the business world	85.59
CP-108.3	Development of the practical and applied skills required in the industry.	85.65
CP-108.4	Building presentation skills among students.	85.65
<b>CP-108</b>	<b>Industrial Research Presentation*</b>	<b>85.62</b>
CP-201.1	To demonstrate the concepts of marketing with its role in business and society	54.23
CP-201.2	To analyze marketing strategies based on products and price.	52.89
CP-201.3	To compare various types of distribution channels	55.96
CP-201.4	Provide overview of the Indian Service sector	55.96
<b>CP-201</b>	<b>Marketing Management</b>	<b>54.76</b>
CP-202.1	Understand the methods of linear program problems	37.26
CP-202.2	Understand about transportation models and their applications	36.17
CP-202.3	Understand about the tools for decision making by different innovative methods	38.02
CP-202.4	Ability to solve the problems using graphical methods	38.85
<b>CP-202</b>	<b>Operations Research</b>	<b>37.57</b>
CP-203.1	Ability to identify the area of research and their applications	35.57
CP-203.2	Ability to develop hypothesis and their testing	34.94
CP-203.3	Understand various methods about the data analysis	37.43
CP-203.4	Enhance the skill of report writing/ presentation	37.30

<b>CP-203</b>	<b>Business Research Methodology</b>	<b>36.31</b>
CP-204.1	To discuss the developments in the field of organizational behaviour	64.13
CP-204.2	To demonstrate conceptual Understanding of learning, perception and motivation in organizational behaviour	62.60
CP-204.3	To explain group dynamics and its impact on group introduce multiple conflict models and well known conflict resolution tools	64.00
CP-204.4	To demonstrate Organizational Dynamics and complexities faced by contemporary and how culture and stress affect individuals as well as organisation	64.06
<b>CP-204</b>	<b>Organisational Behavior</b>	<b>63.70</b>
CP-205.1	To interpret the tools, techniques and significance of financial statement analysis.	45.49
CP-205.2	To apply the capital budgeting techniques in industrial practices.	45.04
CP-205.3	To analyse the cost and value of different financial instruments.	46.57
CP-205.4	To critically evaluate the impact of appropriation practice on the wealth of industry.	47.40
<b>CP-205</b>	<b>Financial Management</b>	<b>46.13</b>
CP-206.1	Understanding about human resource planning and its techniques.	58.02
CP-206.2	To get an insight into various sources of recruitment.	58.47
CP-206.3	Understanding about the various training methods for employees.	58.98
CP-206.4	To get an insight of the various policies and practices of HRM.	59.49
<b>CP-206</b>	<b>Human Resource Management</b>	<b>58.74</b>
CP-207.1	To understand the production function in designing of products and services	43.38
CP-207.2	To familiarize with the different cost effective strategy in production process	42.23
CP-207.3	To determine the production capacity required by an organization to meet out the demand	45.11
CP-207.4	To aware about the tools implement in operations management	45.17
<b>CP-207</b>	<b>Production &amp; Operations Management</b>	<b>43.97</b>
CP-208.1	Applications of the theoretical concepts in the business.	70.79
CP-208.2	To determine the importance of research in the business world.	70.02
CP-208.3	Development of the practical and applied skills required in the industry.	73.02
CP-208.4	Building presentation skills among students.	73.15
<b>CP-208</b>	<b>Industrial Research Presentation*</b>	<b>71.74</b>
CP-301.1	To introduce with the main concepts and through processes in strategic management.	48.68
CP-301.2	It also helps in learning to formulate organizational vision, mission, goals and values.	48.68
CP-301.3	Analyze develop and establish organizational priorities.	47.49
CP-301.4	The course develops strategic awareness and strategy skills.	47.41
<b>CP-301</b>	<b>Strategic Management</b>	<b>48.06</b>
CP-302.1	Understand the basics of SPSS statistical software to solve the managerial problems	82.56
CP-302.2	Understand the basics of AMOS statistical software to solve the managerial problems	82.39
CP-302.3	Understand the basics of Econometrics methods	82.48
CP-302.4	Understand the basics of EXCEL statistical software to solve the managerial problems	82.39
<b>CP-302</b>	<b>Advance Business Research Methods</b>	<b>82.46</b>
CP-303.1	To understand the basics of Industrial Behaviour, consumer behaviour and human resource management	69.83
CP-303.2	To know the basics of Neuron-economics	69.66
CP-303.3	To understand technology management	69.66
CP-303.4	To know in detail about managerial ethics	69.66
<b>CP-303</b>	<b>Industrial Behaviour</b>	<b>69.70</b>



MM-301.1	Students will be able to learn what they have studied in class in relation to the real world	36.35
MM-301.2	To identify and understand the psychological factors that affect consumer buying decisions.	36.35
MM-301.3	To understand theories of consumer behaviour including perception and learning, motivation and values, lifestyles etc	36.79
MM-301.4	To define the conception of consumer behaviour and reveal its importance in the context of marketing	36.79
<b>MM-301</b>	<b>Consumer Behavior</b>	<b>36.57</b>
MM-302.1	To know the different avenues of investment and overview of money market instruments.	29.65
MM-302.2	To know the different types of analysis and selection techniques.	29.65
MM-302.3	To explain the different types of models of valuation of equity.	30.44
MM-302.4	To know the concept of portfolio and various models.	30.44
<b>MM-302</b>	<b>Product &amp; Brand Management</b>	<b>30.04</b>
FM-301.1	Understand the financial system and role of RBI	82.61
FM-301.2	Understands the importance of Capital Adequacy norms.	82.24
FM-301.3	To have an in-depth study of Credit rating, Plastic Money and Venture capital	82.79
FM-301.4	To understand the importance of insurance contract and Mutual fund working	82.79
<b>FM-301</b>	<b>Management of Financial Institutions &amp; Services</b>	<b>82.61</b>
FM-302.1	Understand the concept of investment, Risk and Return	65.21
FM-302.2	To have an in-depth study of security Analysis	65.21
FM-302.3	To have a detailed knowledge about Valuation of Equity and Bonds	64.48
FM-302.4	Understand about portfolio management strategies and Evaluation	64.48
<b>FM-302</b>	<b>Security Analysis and Portfolio Management</b>	<b>64.85</b>
HR-301.1	To understand the HRM and industrial relation	52.89
HR-301.2	To have an in-depth study of Discipline, Negotiation & Empowerment	52.89
HR-301.3	To discuss various development programmes.	52.67
HR-301.4	To understand Industrial Legislations	52.67
<b>HR-301</b>	<b>Management of Industrial Relations</b>	<b>52.78</b>
HR-306.1	To know about Modern concepts of Human Resources	68.15
HR-306.2	Understanding the Team Building and HR interventions	68.15
HR-306.3	To get aware key resources of Training & Development Prog. for HR	67.26
HR-306.4	To get aware key resources about various approaches to improve quality of work life.	67.26
<b>HR-306</b>	<b>Human Resource Development</b>	<b>67.70</b>
IT-301.1	Describe the infrastructure for e-commerce.	76.00
IT-301.2	Analyze the impact of e-commerce on business models and strategy	76.00
IT-301.3	assess electronic payment systems.	78.00
IT-301.4	discuss the security issues and methods.	78.00
<b>IT-301</b>	<b>Electronic Commerce</b>	<b>77.00</b>
IT-305.1	Develop an awareness and understanding of the Information system and knowledge about IT organization.	80.00
IT-305.2	To provide decision making skills to the students in the context of IT Business applications	80.00
IT-305.3	Understand and apply the course concept to analyse the business management decisions.	80.00

IT-305.4	To help the students in converting the theoretical knowledge in a practical way	80.00
<b>IT-305</b>	<b>Applied IT Management- I</b>	<b>80.00</b>
IB-302.1	To make about national income and global trade theories	65.00
IB-302.2	To make aware about implications for Economic policies globally	65.00
IB-302.3	Role of E-commerce in IT	65.00
IB-302.4	Awareness about business risks and barriers at global level	65.00
<b>IB-302</b>	<b>International Trade</b>	<b>65.00</b>
IB-303.1	The students understand the concept of international marketing & various factors to be considered to expand the business to other countries.	65.00
IB-303.2	The students understands the importance of research & opportunity analysis & learns to formulate the strategies as per the analysis.	65.00
IB-303.3	The students learn about various strategies to be adopted by the company to enter in other count	65.00
IB-303.4	The students learn about various priving strategies on international front & distribution system.	65.00
<b>IB-303</b>	<b>International Marketing</b>	<b>65.00</b>
RM-301.1	Enable learner understand the concept of Retail.	50.00
RM-301.2	Compare and contrast traditional retailers and category specialists	47.00
RM-301.3	Describe how the consumers' decision process affects retailers	47.00
RM-301.4	Develop a retail strategy that appeals to a specific target market	50.00
<b>RM-301</b>	<b>Retail Management</b>	<b>48.50</b>
RM-302.1	Enable learner understand the concept of visual merchandising	40.00
RM-302.2	Evaluate the effectiveness of merchandising decisions in the retail industry.	40.00
RM-302.3	The learner will be able to analyse the current trend in the industry.	40.00
RM-302.4	The program will enable them to understand the process of merchandise selection.	40.00
<b>RM-302</b>	<b>Visual Merchandizing</b>	<b>40.00</b>
MH-301.1	Students will be able to describe basic concepts of economics and its application in Health care.	46.67
MH-301.2	To have a detailed knowledge about Demand, cost analysis and various market structure.	46.67
MH-301.3	This will help students to understand various financial theory, trends in healthcare and impact of Globalization	46.67
MH-301.4	To understand contribution of health care and analyse the issues of it.	46.67
<b>MH-301</b>	<b>Management of Medical and Health Services</b>	<b>46.67</b>
MH-303.1	To prepare them in managing hospital and health care facilities.	66.67
MH-303.2	To have a detailed knowledge about the structure and interdependence of health care elements.	66.67
MH-303.3	To understand management of financial records and prepare budgets and understand the major concepts of marketing of hospitals.	66.67
MH-303.4	To understand importance of organising and controlling health services and community health care.	66.67
<b>MH-303</b>	<b>Communication for Hospital Managers</b>	<b>66.67</b>
ST-301.1	Widen the student's perspective by providing an exposure to real life organizational and environmental situations.	78.90
ST-301.2	Apply knowledge and techniques learnt in the first year to real business problems.	78.82
ST-301.3	Give insight into the working of the real organisations by giving deeper understanding in specific functional area.	78.99
ST-301.4	Helps the students in exploring career opportunities in their area of interest.	78.99
<b>ST-301</b>	<b>Summer Training</b>	<b>78.92</b>

CP-401.1	To discover the business opportunity that fits the individual needs.	50.84
CP-401.2	To examine the factors affecting entrepreneurs in developing business.	50.75
CP-401.3	To find the attractive market that can be reached economically.	51.46
CP-401.4	To examine the role of government incentives in running the business.	51.46
<b>CP-401</b>	<b>Entrepreneurship Development</b>	<b>51.13</b>
CP-402.1	Understand contract Act, 1872	97.01
CP-402.2	To explain sales of Goods Act, 1930 and Negotiable Instrument Act, 1881	97.01
CP-402.3	To apply the rules and rights under Consumer Protection Act and overview of Partnership	97.01
CP-402.4	To outline companies Act, 1932 since its inception till winding up	96.93
<b>CP-402</b>	<b>Business Law</b>	<b>96.99</b>
CP-403.1	Application of theoretical concepts in research.	52.84
CP-403.2	To determine the importance of research in business world.	52.84
CP-403.3	To develop practical and applied skills required in the industry.	53.91
CP-403.4	To maximise the knowledge of conducting research and relate its importance in making career.	53.91
<b>CP-403</b>	<b>Final Research Report</b>	<b>53.37</b>
MM-401.1	Explain how e-marketing can ease the business operations.	35.52
MM-401.2	To outline the ethical and global issues related to e-marketing.	35.52
MM-401.3	To explain the various elements of direct marketing and its applications.	36.38
MM-401.4	Illustrate the importance of marketing campaigns in improving customer relationship.	36.38
<b>MM-401</b>	<b>Direct and E-marketing</b>	<b>35.95</b>
MM-405.1	To understand work practices and theories applied in marketing.	39.84
MM-405.2	To compare and contrast different marketing strategies.	39.65
MM-405.3	To distinguish between the Business to Business and Business to Customer market mechanism	38.22
MM-405.4	To outline the role and relevance of contemporary marketing environment.	38.32
<b>MM-405</b>	<b>Advance Marketing Strategies</b>	<b>39.01</b>
FM-404.1	To understand the mechanism of foreign exchange markets along with its players	75.70
FM-404.2	To demonstrate the factors responsible for volatility in exchange rate	75.70
FM-404.3	Disclosure about the various kinds of risks involved in the forex and instruments available for hedging the same	75.88
FM-404.4	To identify the role of apex bodies and regulatory bodies helps to mitigate the exposure in forex market	75.88
<b>FM-404</b>	<b>Foreign Exchange Management</b>	<b>75.79</b>
FM-406.1	To interpret hands on experience in valuation especially using financial analysis	50.85
FM-406.2	To identify the various approaches used for valuation for financial statements	50.85
FM-406.3	To identify the relationship between the financial performance and market capitalization of a company	50.67
FM-406.4	To give an exposure of advanced features of Excel and how could it be used in financial modeling	50.67
<b>FM-406</b>	<b>Business Analysis and evaluation</b>	<b>50.76</b>

HR-404.1	To understand the Human Resource Planning and the process of selection.	58.16
HR-404.2	The descriptions about the training needs, process and role in the organisation	58.16
HR-404.3	To define objectives of lesson planning and learning processes	58.40
HR-404.4	To understand the Training methods, Techniques with their applications.	58.40
<b>HR-404</b>	<b>Manpower Planning and Training &amp; Development</b>	<b>58.28</b>
HR-405.1	To understand the Performance management and Performance Appraisal in Organisation.	58.40
HR-405.2	Understand the performance management system with its results, behavior and improvement	58.64
HR-405.3	To outline the reward based performance system and term based performance Management	58.40
HR-405.4	To explain the culture based, measurement based, leadership based, competency based performance management.	58.16
<b>HR-405</b>	<b>Performance Management</b>	<b>58.40</b>
IT-402.1	Explain the concepts of database management systems	66.67
IT-402.2	Understanding about that how database management systems information is utilized in business.	66.67
IT-402.3	Demonstrate SQL programming skills to solve common business problems and web development techniques.	66.67
IT-402.4	Analyse how different control techniques and recovery system in the environment can affect the business	66.67
<b>IT-402</b>	<b>Database Design and Management</b>	<b>66.67</b>
IT-403.1	Understand the concepts of system analysis and design and how it will affect new business.	66.67
IT-403.2	Describe the principles and techniques of the SAD.	66.67
IT-403.3	Define the concept of the system modeling and discuss the cycle phase.	66.67
IT-403.4	Anlyse Information systems and Data Models.	66.67
<b>IT-403</b>	<b>System Analysis &amp; Design</b>	<b>66.67</b>
IB-401.1	To understand about the regulatory framework, export preliminaries, international contracts.	46.67
IB-401.2	To practice the various payment instruments and financing methods involved in international trade.	46.67
IB-401.3	To discover about the various risks of business involved, foreign exchange regulation and the documentation required to avail export incentive.	46.67
IB-401.4	To identify the various options of transportation that can be applied in international trade.	46.67
<b>IB-401</b>	<b>Export Import Documentation &amp; Procedures</b>	<b>46.67</b>
IB-403.1	To demonstrate management philosophy regarding international involvement on marketing function.	66.67
IB-403.2	To identify the cross-cultural fundamentals & their ability to interact effectively with people of different cultures.	66.67
IB-403.3	To memorize various cross cultural backgrounds along with the intercultural communication.	66.67
IB-403.4	To discover about the role of human resource management including the challenges that it can face in international firms.	66.67
<b>IB-403</b>	<b>Cross- Cultural &amp; Global Human Resource Management</b>	<b>66.67</b>
MH-401.1	Understand about Nursing Service Management	80.00
MH-401.2	Classify the supportive services to Health Issues	80.00
MH-401.3	Apply the waste management process with the policies and procedures	80.00
MH-401.4	Define the public policies about Health.	80.00

<b>MH-401</b>	<b>Patient Care Services</b>	<b>80.00</b>
MH-402.1	Understand about Regulatory framework and bodies of Hospital	71.00
MH-402.2	Understand about Responsibility and Liability of Hospital	71.00
MH-402.3	Classify about right & responsibility of Patients	77.00
MH-402.4	Understanding about National and International Acts about Health Issues	77.00
<b>MH-402</b>	<b>Hospital Management and Law</b>	<b>74.00</b>
RM-401.1	Define the concepts of Customer Relation Management and its relation with marketing.	20.00
RM-401.2	Classify the role of CRM in various marketing and ethical practices.	20.00
RM-401.3	Apply the concept of Customer Relation Management and related data techniques.	23.00
RM-401.4	Define the Applications of Customer Relation Management in various industries.	20.00
<b>RM-401</b>	<b>Customer Relationship Management</b>	<b>20.75</b>
RM-402.1	To introduce students to the various formats of non store retailing.	50.00
RM-402.2	To provide an overview of e-commerce and its applications.	50.00
RM-402.3	To provide an overview of the technical aspects related to non store retailing.	50.00
RM-402.4	To understand application of Information Technology in Non- store Retailing.	50.00
<b>RM-402</b>	<b>Non-Store Retailing</b>	<b>50.00</b>

## Course Overview

### Bachelors of Commerce (Hons.)

The B.Com Hons. course aims at providing inputs to the students relevant to the business, industry and trade so that they can function in different organizations and face the challenges arising there from. The course not only aims at providing knowledge and skills in different areas of management, but also provides inputs necessary for the overall development of the personality of the students.

Summer training for 6 weeks is compulsory for every student pursuing the course, which they have to undergo between fourth and fifth semester. Research project is part of the course. The case study shall be taught wherever required.

### Course Curriculum

#### 1<sup>ST</sup> Semester

Subject Name	Course Objective
Environmental Studies	The subject gives a direct contact with nature and the knowledge of it. The subject gives students an ample scope for application. They will get some real-time knowledge and skill which required when they are actually dealing with environmental problems and the possible solutions.
Financial Accounting	The objective of this paper is to help students to acquire conceptual knowledge of the financial accounting and to impart skills for recording various kinds of business transactions.
Business Organisation and Management	The course aims to provide basic knowledge to the students about the organisation and management of a business enterprise.

Principles of Micro Economics	The purpose of this course is to provide a basic understanding of the principles of microeconomics among the students. At its core, the study of economics deals with the choices and decisions that have to be made in order to manage scarce resources available to us from this course, students will learn how and why these decisions are made and how they affect one another in the economy.
Basic Mathematics	The objective of this course is to enable the students to have such minimum knowledge of Mathematics as is applicable to business and economic situations.
Communication Skills- I	To teach as a major language of international communication in the present world scenario. This course would equip the students with excellent communication skill in diverse applications of English language functionally.

## 2<sup>nd</sup> Semester

Subject Name	Course Objective
Personality Development	The objective of the programme is to build self-confidence, enhance self-esteem and improve overall personality of the students. The programme aims at grooming the participants through sensitizing them about proper behaviour, socially and professionally, in formal and informal circumstances.
Business Law	The objective of the course is to impart basic knowledge of the important business laws along with relevant case law.

Statistics for Business Decisions.	The objective of this course is to familiarize students with the applications of Mathematics and statistical techniques in business decisions process.
Research Methodology	The objective of this paper is to help students to acquire conceptual knowledge of research and to apply those skills in the business entity.
Indian Economy	This course seeks to enable the student to grasp the major economic problems in India and their solution.
Business Processes	The objective of this course is to acquaint the management students with the SAP usage to enhance their personal efficiency so that they can understand how SAP may be used to enhance organizational effectiveness.

### 3<sup>RD</sup> Semester

Subject Name	Course Objective
Company Law	The objective of the course is to impart basic knowledge of the provisions of the companies Act 2013 and the Depositories Act, 1996. Case studies involving issues in corporate laws are required to be discussed.



Income Tax Law & Practice	To provide basic knowledge and equip students with application of principles and provisions of Income-tax Act, 1961 and the relevant Rules & Regulations.
Human Resource Management	The objective of the course is to acquaint students with the techniques and principles to manage human resources of an organisation.
Computer Applications in Business	This course seeks to enhance the skills needed for computerized accounting system and to enable the students to develop simple accounting applications.
Personal Selling & Salesmanship	The purpose of this course is to familiarize the students with the fundamentals of personal selling and the selling process. They will be able to understand selling as a career and what it takes to be a successful salesman.

#### 4<sup>th</sup> Semester

Subject Name	Course Objective
Banking and Insurance	To impart knowledge about the basic principles of the banking and insurance.

Corporate Accounting	To help the students to acquire the conceptual knowledge of the corporate accounting and to learn the techniques of preparing the financial statements.
E-Commerce	To enable the students to become familiar with the mechanism for conducting business transactions through electronic means.
Elective-I	
Elective-II	

#### 5<sup>th</sup> Semester

Subject Name	Course Objective
Business Values & Ethics	This course aims to: Promote understanding of the importance, for business and the community, of ethical conduct; Enhance awareness and critical self-examination of one's own values, and to appreciate the



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	relevance of personal values in the business/workplace setting.
Elective-III	
Elective-IV	

### 6<sup>th</sup> Semester

Subject Name	Course Objective
Principles of Macro Economics	The course aims at providing the student with knowledge of basic concepts of the macro economics. The modern tools of macro-economic analysis are discussed and the policy framework is elaborated, including the open economy.
Entrepreneurship	The purpose of the subject is to orient the learner toward entrepreneurship as a career option and creative thinking and behaviour.
Industrial Relations & Labor Laws	The objective of this course is to provide a framework of the issues relating to Industrial relations and overview of the legal environment relating to Indian workforce.

	Emphasis would be given to provisions and cases of various acts.
Cost Accounting	To acquaint the students with basic concepts used in cost accounting, various methods involved in cost ascertainment and cost accounting book keeping systems.
Dissertation	It helps to create skill that is grounded in the cognitive domain. It involves learning, comprehension, application and synthesis of new knowledge to promote the interest of research among the students.

#### Electives-I

Subject Name	Course Objective
Corporate Tax Planning	To provide Basic knowledge of corporate tax planning and its impact on decision making.
Management Accounting	To impart the students, knowledge about the use of financial, cost and other data for the purpose of managerial planning, control and decision making.
Fundamentals of Investment	To familiarize the students with different investment alternatives, introduce them to the framework of their analysis and valuation and highlight the role of investor protection.

**Elective-II**

<b>Subject Name</b>	<b>Course Objective</b>
International Business	The objective of the course is to familiarise the students with the concepts, importance and dynamics of international business and India's involvement with global business. The course also seeks to provide theoretical foundations of international business to the extent these are relevant to the global business operations and developments.
Office Management and Secretarial Practice	The purpose of this course is to familiarize the students with the activities in a modern office. Smooth functioning of any organization depends upon the way various activities are organized, facilities provided to the staff working in the office, the working environment and the tools and equipments used in office.
Consumer Protection	This paper seeks to familiarise the students with of their rights as a consumer, the social framework of consumer rights and legal framework of protecting consumer rights. It also provides an understanding of the procedure of redress of consumer complaints, and the role of different agencies in establishing product and service standards. The student should be able to comprehend the business firms' interface with consumers and the consumer related regulatory and business environment.

**Elective-III**

Subject Name	Course Objective
Principles of Marketing	The objective of this course is to provide basic knowledge of concepts, principles, tools and techniques of marketing.
Auditing and Corporate Governance	To provide knowledge of auditing principles, procedures and techniques in accordance with current legal requirements and professional standards and to give an overview of the principles of Corporate Governance and Corporate Social Responsibility.

### Elective-III

Subject Name	Course Objective
Fundamentals of Financial Management	To familiarize the students with the principles and practices of financial management.
Indirect Taxes	To provide basic knowledge and equip students with application of principles and provisions of GST, Central Excise, and Customs Laws.
Logistics Management	The objective of this course is to give the knowledge of logistics and the supply chain effectively and efficiently.

### Career Opportunities

This course equips the students with the complete accounting & trading knowledge, thereby making them enough capable to employ themselves in the accounting & auditing firms as the financial consultant and advisor.

Also, this course provides the opportunity to become the successful business entrepreneur in any trading and commerce activities business.

## Course Overview

### BACHELORS OF BUSINESS ADMINISTRATION

The BBA course aims at providing inputs to the students relevant to the business, industry and trade so that they can function in different organizations and face the challenges arising there from. The course not only aims at providing knowledge and skills in different areas of management, but also provides inputs necessary for the overall development of the personality of the students.

Summer training for 6 weeks is compulsory for every student pursuing the course, which they have to undergo between fourth and fifth semester. Research project is part of the course. The case study shall be taught wherever required.

## Course Curriculum

### 1<sup>st</sup> Semester

Subject Name	Course Objective
Fundamentals of Management and Organizational Behaviour	The objective of this course is to develop an understanding of the basic concepts of business and various functional areas of management.
Business Ethics & CSR	This course aims at acquainting the students with the emerging issues in business at the national & international level in the light of the policies of liberalization & globalization.
Communication Skills-I	To teach as a major language of international communication in the present world scenario. This course would equip the students with excellent communication skill in diverse applications of English language functionally.
Statistics for Business Decisions	Students will be expected to be able to define relevant terms, discuss the importance of statistical and mathematical concepts in business decision-making and to interpret all results.



Business Processes	The objective of this course is to acquaint the management students with the SAP usage to enhance their personal efficiency so that they can understand how SAP may be used to enhance organizational effectiveness.
Environmental Studies-I	To understand the transnational character of environmental problems and ways of addressing them, including interactions across local to global scales.

## 2<sup>ND</sup> Semester

Subject Name	Course Objective
Managerial Economics	This Course is meant to acquaint the students with the principles of Economics as are applicable in business.
Business Communication	To teach as a major language of international communication in the present world scenario. This course would equip the students with excellent communication skill in diverse applications of English language functionally.
Business Accounting	To acquire an understanding of the principles used to prepare financial statement. To acquire the skill necessary to read, interpret and perform calculations for the accounting reports involved in cost control and profit planning to learn how to read and understand financial statements and to observe the effects of routine business transactions on them.
Financial Management	The objective of this course is to provide a theoretical framework as well as business applications of various accounting methods in management.



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India's Diversity & Business	Students will be expected to be able to define relevant terms, discuss the importance of diverse business and concepts in business decision-making and to interpret all results.
Basic Mathematics	The objective of this course is to enable the students to have such minimum knowledge of Mathematics as is applicable to business and economic situations.

### 3<sup>rd</sup> Semester

Subject Name	Course Objective
Business Research	To equip the students with the basic understanding of the research methodology and to provide an insight into the application of modern analytical tools.
Management Accounting	To provide a strong conceptual foundation for corporate finance and develop the analytical skills by associating the tools and techniques.
Tax Planning	The objective of this course is to help the participants to understand the conceptual framework of taxation laws and planning.
Macro Economics	This Course is meant to acquaint the students with the principles of macro Economics as are applicable in business.

### 4<sup>th</sup> Semester

Subject Name	Course Objective
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Principles of Marketing	The objective of this course is to help students to understand the concept of marketing & its applications.
Human Resource Management	To develop an understanding of the basic concepts of human resource and various functional areas of HR.
Entrepreneurship Development	The objective of this course is to develop a basic understanding of the entrepreneurial development and the process of setting up of new ventures and their management.
Digital Marketing & Social Media	The learning objective of this subject is to create a structured plan to grow your business using digital marketing. It helps to understand and follow the practical success factors to improve results from digital marketing and social media.

#### 5<sup>th</sup> Semester

Subject Name	Course Objective
Logistics Management	The objective of this course is to give the knowledge of logistics and the supply chain effectively and efficiently.
Business Policy and Strategy	The objective of this course is to provide theoretical framework as well as business applications of various strategies used by the corporate.
Legal Aspects of Business	The students will be imparted with the knowledge of laws. The students will come to know legal environment in which business operates, develop and approach to manage and maximize the value

	of the corporate legal function.
Elective I	
Elective II	

#### 6<sup>th</sup> Semester

Subject Name	Course Objective
Leadership In Organisation	It will help students to develop critical thinking skills as well as they will learn to develop and understanding of change processes and be able to think critically about obstacles to change.
Management Information System	of The purpose of this course is to introduce the concepts of management Information systems and their use.
Electives III	
Electives IV	

#### Electives

Subject Name	Course Objective
<b>Finance Specialization</b>	
Project Appraisal	To learn the main phases in a project's life cycle and the role/requirements of project management and the project manager in those phases.
Investment Banking & Financial Services	This course is to familiarize the students with the basic concepts of financial services, its scope and application. Concepts of NBFc, Financial Institutions and various financial services will be discussed in detail.
Investment and Portfolio Management	The subject is aim at providing insight to the various analytical techniques used in evaluations of the various investment opportunities. The course also provides of extension of these concepts to the portfolio of security and the concept of diversification, management of a portfolio.
International Finance	To develop a global orientation for the Management of Finance in Multinational Firms. To introduce the participants to complexities of the world of international finance. To provide a thorough understanding of the financial issues facing International enterprises, particularly in developing countries. To help to learn basic analytical tools used in international corporate finance.
Financial Modelling and Derivatives	To Develop an Understanding of the Role Of Derivatives In Managing Risks and their Applications In different areas of Finance.
Strategic Corporate Finance	It will help students to understand the techniques of restructuring and liquidating the corporate entities. The course will help the students to understand the knowledge of recent developments in strategic corporate finance.

Business Analysis and Valuation	The objective of the course is to provide hands-on experience in financial statement analysis. Students will be exposed to tools of financial analysis, theoretical concepts and practical valuation issues.
<b>Marketing Specialization</b>	
Personal Selling & Sales Force Management	The objective of this course is to acquaint students with the concepts which are helpful in developing a sound sales programme and in organizing and managing sales force.
Retail Management	This course would equip students with the practical aspects of retail Management.
Advertising and Brand Management	The objective of this course is to impart indepth knowledge about theory and practice of brand management.
Consumer Behaviour	At the end of the course it is expected that the students will be - Proficient and knowledgeable about the various disciplines contribution in understanding buyer behaviour in a holistic manner.
Marketing of Services	The purpose of the course is to develop an insights into emerging trends in the service sector in a developing economy and issues involved in the management of services.
Distribution & Supply Chain Management	The basic objective of this subject is to get familiar with supply chain and its functions. How supply chain management plays an important role in today's business world.
International Marketing	This course examines the impact of economic, cultural, political, legal and other environmental influences on international marketing. Within this context, the course emphasizes on how to identify and analyze worldwide marketing opportunities, and examine product, pricing, distribution and promotion strategies.

### Human Resource Specialization

Management of Industrial Relations	This paper plays an important role of managing people's work and their environment, employment relations, workplace change and education and training.
Training & Development	To provide an in-depth understanding of the role of training & development, and to Enable the students to manage the training systems and processes.
Performance and compensation Management	In a complex world of industry and business, organizational efficiency is largely dependent on the contribution made by the members of the organization. The objectives of this course is to sensitize students to the various facets of managing people and to create an understanding of the various policies and practices of human resource management
HRD : Systems & Strategies	The course is intended to instill in the students a sense of competitive advantage gained by Human Capital and Knowledge by exposing them to Net-based knowledge networks, Knowledge worker mobility and knowledge intranets of new knowledge based economy.
Counselling & Negotiation Skills for Managers	The subject will help to develop the essential skills for achieving the objectives in a variety of situations, without compromising the views and opinions of other persons.
Cross Cultural HRM	The objective of this course id to enhance the ability of students to interact efficiently with people from cultures other than their own, specifically in the context of International business.
Talent & Knowledge Management	The course is intended to instill in the students a sense of competitive advantage gained by Talent by exposing them to Net-based Talent networks, Talent worker mobility and Talent intranets of new Talent based economy.

### **Career Opportunities**

This course equips the students with the complete business management knowledge making them fully capable to get employed in the big business corporate including any domain of the business like finance, human resource management, marketing management, operations and like.

They can also become a successful entrepreneurs, starting their own business ventures after completing this course.



## Course Overview

### Master of Business Administration

The MBA course aims at providing inputs to the students relevant to the business, industry and trade so that they can function in different organizations and face the challenges arising there from. The course not only aims at providing knowledge and skills in different areas of management, but also provides inputs necessary for the overall development of the personality of the students.

The structure of the course is designed in a way that students have to study the core courses from different functional areas of management that are made compulsory. Later on, specializations are offered in functional areas where the students can opt for two specializations. Right from the beginning of the course, the focus is on providing relevant inputs through case discussion / analysis, simulation games, role plays etc, keeping in mind the current business scenario.

Broadly, the course is of two years divided into four semesters. There is a system of dual specialization having five papers (two in third semester and three in the fourth semester) from specialization 1 and five papers (two in third semester and three in the fourth semester) from specialization 2.

Summer training for 6 weeks is compulsory for every student pursuing the course, which they have to undergo in the last semester IV.2.

The student can opt for two non credit summer internships too for 6-8 weeks during their MBA. The case study shall be taught wherever required.

### Course Curriculum

#### 1<sup>st</sup> Semester

Subject Name	Course Objective
Management Principles & OB	To provide an understanding of the functions & tasks of Management. The emphasis of the course is to help students develop toolkit of useful skills, strategies & approaches drawn from principles and practices of management.
Managerial Economics	The main objective of this paper is to develop an understanding in students about the applicability of microeconomics for business decision.
Accounting for Managers	To acquire an understanding of the principles used to prepare financial statement. To acquire the skill necessary to read, interpret and perform calculations for the accounting reports involved in cost control and profit planning to learn how to read and understand financial statements and to

	observe the effects of routine business transactions on them.
Business Communication	To enhance both verbal & written communication skills required for various managerial activities. The course attempts to provide adequate exposure to the students in the different types of communication across functional areas of an organization.
Statistics for Managers	The objective of this course is to provide a theoretical framework as well as business applications of various quantitative techniques for management decisions. It aims to understand the applications of various statistical tools with emphasis on their practical applications to business scenarios.
Business Processes	The objective of this course is to acquaint the management students with the SAP usage to enhance their personal efficiency so that they can understand how SAP may be used to enhance organizational effectiveness.
Legal Aspects of Business	The students will be imparted with the knowledge of laws. The students will come to know legal environment in which business operates, develop and approach to manage and maximize the value of the corporate legal function.
Human Values & Professional Ethics	The objective of this course is to impart the professional values and the ethics which will be helpful to work in the corporate world.
Personality Development	The objective of this course is to develop the professional personality with the self confidence. The programme aims at grooming the students through sensitizing them about proper behavior in formal and informal circumstances.

2<sup>ND</sup> Semester

<b>Subject Name</b>	<b>Course Objective</b>
Marketing management	This course seeks to introduce participants to the basic concepts, tools and techniques in marketing management and provide them with the opportunities to utilize and apply these marketing concepts, tools and techniques to analyze and solve marketing problems and to make marketing decisions.
Operations Research	The Objectives of this course is to impart knowledge to students about the important tools, techniques and methods of Operations Research with their business applications.
Research Methodology	To develop understanding of tools and techniques used for business research methodology from a user's perspective and a researcher's perspective. The practical aspects of research methodology will be emphasized. This will help to prepare students for their summer training in which students are usually assigned projects that involve use of research methodology. It will also help them in preparation of other assigned research projects.
Advance Excel	The objective of the course is to differentiate between formulas and functions in excel.
Finance management	To provide a strong conceptual foundation for corporate finance and develop the analytical skills by associating the tools and techniques.

Human Resource Management	The objectives of this course are to sensitize students to the various facets of managing people and to create an understanding of the various policies and practices of human resource management.
Logistics Management	The objective of this course is to give the knowledge of logistics and the supply chain effectively and efficiently.
International Business Environment	This course will provide students with the knowledge, skills and abilities to understand the global economic, political, cultural environment within which a firm operates.
Event Management	The course will provide a structured approach to operational and creative fundamentals of event management. This will help to identify management essentials such as developing budgets, critical paths and risk mitigation.
Presentation & Interviewing Skills	This practical subject will give the knowledge about professional interviews and improve the public speaking skills and knowledge. This will also help to enable the students to present professionally and confidently.

### 3<sup>rd</sup> Semester

Subject Name	Course Objective
Strategic Management	To provide an in depth understanding of the concepts, role and practices of Strategic Management in the changing Business Environment as well as practical exposure.

Corporate Outlook	The course will help the students to understand the foundations of good time management and will be able to use their knowledge in the global corporate world.
Elective -I	
Elective -II	
Elective -III	
Elective -IV	
Elective -V	
Elective -VI	

4<sup>th</sup> Semester

Subject Name	Course Objective
Entrepreneurship	This course introduces key concepts that an entrepreneurial aspirant will need to first understand before being able to evaluate and then manage opportunities in modern times.
Cross Cultural Management	The objective of this course is to enhance the ability of students to interact efficiently with people from cultures other than their own, specifically in the context of International business.
Summer Internship	The objective is to promote the research aptitude among the students in real corporate world
Elective -I	
Elective -II	
Elective -III	
Elective -IV	

**Electives (Marketing Specialization)**

Marketing Analytics	This subject will enable the students to measure, manage and analyze marketing performance to maximize its effectiveness and optimize return on investment. This will also help to predict outcomes and systematically
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	allocating resources.
Brand Management	The focus of this course is on strategic decisions about how a company can build and manage its products so that they are profitable to the company and at the same time adequately meet target customers' needs and wants.
Integrated Marketing Communications	The objective of the course is to help students understand the principles and concepts of marketing communications, involvement tools used by marketers to inform consumers and to provide a managerial framework for IMC.
Marketing of Services	The purpose of the course is to develop an insights into emerging trends in the service sector in a developing economy and issues involved in the management of services.
Retail Management	To develop knowledge of contemporary retail management issues at the strategic level. To describe and analyze the way retailing works, specifically the key activities and relationships. To provide an academic underpinning to the above through the application of retailing theory and research.

#### Finance Specialization

Management of Financial Institutions & Services	This course is to familiarize the students with the basic concepts of financial services, its scope and application. Concepts of NBFc, Financial Institutions and various financial services will be discussed in detail.
Security Analysis and Portfolio Management	The subject is aim at providing insight to the various analytical techniques used in evaluations of the various investment opportunities. The course also provides of extension of these concepts to the portfolio of security and the concept of diversification, management of a portfolio.

Performance Management

Performance management is the most critical function and strong determinant of organizational excellence. This course is designed to develop appreciation and skills essential for designing and instituting effective performance management systems.

Talent Management

The course is intended to instill in the students a sense of competitive advantage gained by Talent by exposing them to Net-based Talent networks, Talent worker mobility and Talent intranets of new Talent based economy.

#### Information Technology Specialization

Electronic Commerce

To acquaint the students with the concepts and applications of electronic commerce.

Strategic Management of Information Technology

This course will explore necessary management actions, which will ensure that information is available, correct, manipulate, protected and archived. The objective of this course is to make professionals learn how these business skills can be applied effectively to cut information systems costs and improve the quality without reducing services.

Business Process Re-engineering

The course is designed for students who need to have an overview of generic business processes. They will learn how to describe, analyze, and redesign a business process through the use of tools and methodologies.

Applied IT Management-I

Roles for human resources and introduction to packaged software are discussed. The concept of IT enabled BPR (business process re-engineering) across a number of domains is introduced: manufacturing, finance, distribution & logistics sales & concepts related to ERP. Students



	will be made aware of real life software development methodology via SDLC and popular models of software development. Students are enlightened about Entrepreneurship opportunities in IT via five case studies and finally will be introduced to the concept of "Business Analysis" & elementary documentation.
Database Design and Management	To introduce the concepts of database management systems and the design of relational databases.

#### International Business Specialization

International Trade Laws	The will provide a broad overview of the law that regulates international trade at both a private and a public level. This subject will include laws relating to the carriage of good by sea, resolving international trade disputes etc.
International Trade	The course provides an understanding of trade and investment theories, framework of trade, and analysis of markets and a range of international issues confronting trade. This course will also help enhance students' ability to make informed getting a clear picture of the current international trade scenario, risks and other issues.
International Marketing	This course examines the impact of economic, cultural, political, legal and other environmental influences on international marketing. Within this context, the course emphasises on how to identify and analyze worldwide marketing opportunities, and examine product, pricing, distribution and promotion strategies.

Export Import Documentation & Procedures	The main objective of this paper is to develop an understanding in students about the increasing pace of exports and the various formalities and procedure need to be taken into consideration.
Multi Modal Transportation	The objective of this paper is to acquaint the students with the concepts and tools of multi modal transportation management relevant for an international firm & To emphasize the evolving impact of globalization on International transportation Management.

#### Hospitality Management Specialization

Introduction to Hospitality	The course familiarizes the students with different sectors of hospitality industry .The student will get to know about Tourism industry, Accommodation sector , Airlines,& cruise industry.
Front Office Operations	The course is aimed at familiarizing the students with various functions of front office in hospitality industry and develops the work ethics towards the customer care and satisfaction.
Conference and Event Management	The objective of this paper is to make students familiar with Conference & management. It also focuses on various considerations to be kept in mind while planning and organizing an event.
Tourism Products Design and Development	The paper is designed to provide an in-depth understanding of the rich Tourism resources of India. The paper shall also provide further insight in developing & designing the itinerary & Tour packages.

Food and Beverage Management and Control	To study the food and beverage management control to serve the guests in the hospitality industry.
Air Port Management	To study both the on-board and the off-board airport hospitality management.
Customer Relationship Management	To study the importance of Customer Relationship management in the hospitality industry.
Travel Agency and Tour Operations	To understand the tour Operations and the functions of the travel agency.
Service Marketing	The purpose of the course is to develop an insights into emerging trends in the service sector in a developing economy and issues involved in the management of services.
Operations Management	The course focuses on the basic concepts, issues and techniques for efficient and effective management of operations.

#### Hospital Management Specialization

Management of Medical and Health Services	To provide the students and health care professional with a valuable set of data and insights into the major features and idiosyncrasies of Indian health care delivery system and how it compares with the other systems of the world.
Health Economics	The Primary aim of this subject is to provide a clear, concise introduction to micro and macro economics in general and economics as applied to hospital and health care sector in specific. The student will be exposed to Indian health care policies and will also introduce to recent trends in health care sector.



Communication for Hospital Managers	This unique module is an outcome of innovative thoughts that have been conceptualized in order to prepare the students for the healthcare challenges, transforming them into future healthcare leaders.
Marketing of Hospital Services	This subject will give the insight into the application of marketing principles in various situations in a hospital environment.
Health Insurance Management	To study the Health insurance in detail along with its importance.
Patient Care Services	To understand the patient care services in detail.
Hospital Management and Law	The objective is to discuss the hospital management and legal issues aligned with the hospital industry.
Hospital Systems Information	To study the Hospital information systems for the flow of information in the business.
Hospital Management operations	To study the management of the various operations in the hospital for the overall optimization.
Hospital Management Patient	The subject will focus on recording and documenting patient information, diagnosis and treatment plan in a concise, organized manner. Learning about using the various means for effective counseling, identifying illness, initiating treatment and of obtaining follow up information

Logistics & Supply Chain Management

Warehouse Mangement	The objective of this subject is to get familiar with warehousing, warehousing operations and value added services to warehousing
Procurement & Inventory Management	The basic objective of this subject is to impart understanding of procurement, its functions and provide knowledge of key issues related to inventory management in current co-ordinated and collaborated SCM environment.
E-commerce Operations	The course will help to enhance students ability to make informed decisions by getting a clear picture of E-commerce and purchase and inventory management.
Strategic Supply Chain Management	The basic objective of this subject is to get familiar with supply chain and its functions. How supply chain management plays an important role in today's business world.
Production and operations Management	The objective of this subject is to understand the principles of supply chain networks, inter relation between supply chain and logistics. The subject will also impart the basic concepts of management systems involved in transportation.

#### Career Opportunities:

The MBA course expose the students with the complete corporate environment, along with all the business knowledge domains, thereby having the employable opportunities in all the big business corporate having the business in various sectors like Finance, Human Resource Management, Marketing Management and like.

Also, the students can start them their own business ventures after completing MBA as they have the complete knowledge of the business planning and the successful implementation of a business plan.

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