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GOVERNMENT RESIDENTIAL WOMEN'S POLYTECHNIC, LATUR

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Part B

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3 COURSE OUTCOMES AND PROGRAM OUTCOMES (100)

Total Marks 100.00

Define the Program specific outcomes

Open Separately (eSARDiplomaQuestion.aspx?Appid=4513&Progid=25&QuestID=147)

Edit

PSO1	Computer Software and Hardware Usage: Use state-	Delete
PSO2	Computer Engineering Maintenance: Maintain compu	Delete

3.1 Establish the correlation between the courses and the POs and PSOs (20)

Total Marks 20.00

3.1.1 Course Outcomes (SAR should include course outcomes of one course from each semester of study, however, should be prepared for all courses) (5)

Open Separately (eSARDiplomaQuestion.aspx?Appid=4513&Progid=25&QuestID=129)

Institute Marks

(POs as mentioned in Annexure I and PSOs as defined by the Program)

5.00

Note: Number of Outcomes for a Course is expected to be 3 to 5

Note : Number of Outcomes for a Course is expected to be 3 to 6.

Course Name :	C101	Course Year :	2016-17
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Edit

Course Name	Statements	Action
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C101.1	Formulate grammatically correct sentences.	Delete
C101.2	Summaries comprehension passages	Delete
C101.3	Compose dialogues and paragraphs for different situations.	Delete
C101.4	Use relevant words as per context	Delete
C101.5	Deliver prepared speeches to express ideas, thoughts and emotions	Delete

Course Name :	C107	Course Year :	2016-17
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Edit

Course Name	Statements	Action
C107.1	Utilize the skill necessary to be a competent communicator	Delete
C107.2	Apply the appropriate method of communication in various situations	Delete
C107.3	Compose dialogues and paragraphs for different situations.	Delete
C107.4	Use different formats of formal written skills.	Delete
C107.5	Use presentation skills focusing on body language.	Delete

Course Name :	C202	Course Year :	2017-18
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Edit

Course Name	Statements	Action
C202.1	Perform Basic Operations on array(data structure)	Delete
C202.2	Apply different searching & sorting techniques	Delete
C202.3	Implement basic operations on stack & queue using array representat	Delete
C202.4	Implement basic operations on linked list	Delete
C202.5	Implement program to create & traverse tree & graph to solve problem	Delete

Course Name :	C211	Course Year :	2017-18
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Edit

Course Name	Statements	Action
C211.1	Analyze the functional block of 8086 microprocessor	Delete
C211.2	Write assembly language program for given problem	Delete
C211.3	Use instructions for different addressing modes	Delete
C211.4	Develop an assembly language program using assembler	Delete
C211.5	Develop assembly language programs using procedure, macro and mo	Delete

Course Name :	C303	Course Year :	2018-19
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Edit

Course Name	Statements	Action
C303.1	To understand CIA model and security attacks, also to identify the risk:	Delete
C303.2	To understand role of people in security, biometrics and network securi	Delete
C303.3	To understand cryptography and learn transposition techniques, symm	Delete

C303.4	To learn Firewall technique, VPN, Kerberos, security topologies, IDS, er	Delete
C303.5	Learn different cyber-crimes and understand IT acts in India	Delete
C303.6	To understand web security for secure Operating Systems and applicat	Delete

Course Name :	C312	Course Year :	2018-19
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Edit

Course Name	Statements	Action
C312.1	Understand architecture, memory management & multitasking of 8038	Delete
C312.2	Understand the superscalar architecture of Pentium	Delete
C312.3	Understand the Working of RISC & CISC processors	Delete
C312.4	Design a program in assembly language using different for different ha	Delete
C312.5	Understand the logic and working principal of next generation processc	Delete

3.1.2 CO-PO matrices of courses selected in 3.1.1(Six matrices to be mentioned; one per semester from 1st to 6th semester) (5)

Open Separately (eSARDiplomaQuestion.aspx?Appid=4513&Progid=25&QuestID=130)

Institute Marks

5.00

Note: Enter correlation levels 1, 2 or 3 as defined below:

1: Slight (Low) 2: Moderate (Medium) 3: Substantial (High). *If there is no correlation, put "-"*

Instructions -

Data of above tables are used in following tables. Alter the above table data will cause the loss of records in following tables. Click the button to load the data in following grids. Please avoid the manipulation of data after filling the following grids. Click the button to load the data in following Grids. [Load Grid](#)

1 . course name : C101

Edit

Course	PO1	PO2	PO3	PO4	PO5	PO6	PO7
C101.1	2 ▾	- ▾	- ▾	- ▾	- ▾	- ▾	3 ▾
C101.2	2 ▾	- ▾	- ▾	- ▾	- ▾	- ▾	3 ▾
C101.3	2 ▾	- ▾	- ▾	- ▾	- ▾	- ▾	3 ▾
C101.4	2 ▾	- ▾	- ▾	- ▾	- ▾	- ▾	3 ▾
C101.5	2 ▾	- ▾	- ▾	- ▾	- ▾	- ▾	3 ▾
Average	2.00	0.00	0.00	0.00	0.00	0.00	3.00

2 . course name : C107

Edit

Course	PO1	PO2	PO3	PO4	PO5	PO6	PO7
C107.1	2 ▾	- ▾	- ▾	- ▾	- ▾	- ▾	3 ▾
C107.2	2 ▾	- ▾	- ▾	- ▾	- ▾	- ▾	3 ▾
C107.3	2 ▾	- ▾	- ▾	- ▾	- ▾	- ▾	3 ▾

C107.4	<div>2</div>	<div>-</div>	<div>-</div>	<div>-</div>	<div>-</div>	<div>-</div>	<div>3</div>
C107.5	<div>2</div>	<div>-</div>	<div>-</div>	<div>-</div>	<div>-</div>	<div>-</div>	<div>3</div>
Average	2.00	0.00	0.00	0.00	0.00	0.00	3.00

3 . course name : C202

Edit

Course	PO1	PO2	PO3	PO4	PO5	PO6	PO7
C202.1	<div>1</div>	<div>2</div>	<div>1</div>	<div>1</div>	<div>-</div>	<div>1</div>	<div>2</div>
C202.2	<div>1</div>	<div>2</div>	<div>2</div>	<div>1</div>	<div>1</div>	<div>2</div>	<div>2</div>
C202.3	<div>2</div>	<div>3</div>	<div>3</div>	<div>3</div>	<div>1</div>	<div>2</div>	<div>2</div>
C202.4	<div>2</div>	<div>3</div>	<div>2</div>	<div>2</div>	<div>1</div>	<div>2</div>	<div>2</div>
C202.5	<div>2</div>	<div>3</div>	<div>2</div>	<div>2</div>	<div>1</div>	<div>2</div>	<div>2</div>
Average	1.60	2.60	1.80	1.60	1.00	1.80	2.00

4 . course name : C211

Edit

Course	PO1	PO2	PO3	PO4	PO5	PO6	PO7
C211.1	<div>2</div>	<div>2</div>	<div>2</div>	<div>-</div>	<div>2</div>	<div>2</div>	<div>2</div>
C211.2	<div>1</div>	<div>2</div>	<div>2</div>	<div>2</div>	<div>3</div>	<div>2</div>	<div>2</div>
C211.3	<div>2</div>	<div>2</div>	<div>2</div>	<div>2</div>	<div>2</div>	<div>2</div>	<div>2</div>
C211.4	<div>1</div>	<div>1</div>	<div>2</div>	<div>2</div>	<div>1</div>	<div>2</div>	<div>2</div>
C211.5	<div>2</div>	<div>2</div>	<div>2</div>	<div>2</div>	<div>2</div>	<div>1</div>	<div>2</div>
Average	1.60	1.80	2.00	2.00	2.00	1.80	2.00

5 . course name : C303

Edit

Course	PO1	PO2	PO3	PO4	PO5	PO6	PO7
C303.1	<div>2</div>	<div>3</div>	<div>3</div>	<div>-</div>	<div>3</div>	<div>2</div>	<div>2</div>
C303.2	<div>3</div>	<div>2</div>	<div>2</div>	<div>2</div>	<div>3</div>	<div>2</div>	<div>2</div>
C303.3	<div>2</div>	<div>3</div>	<div>2</div>	<div>2</div>	<div>2</div>	<div>2</div>	<div>2</div>
C303.4	<div>1</div>	<div>1</div>	<div>2</div>	<div>2</div>	<div>1</div>	<div>2</div>	<div>2</div>
C303.5	<div>3</div>	<div>3</div>	<div>3</div>	<div>3</div>	<div>3</div>	<div>3</div>	<div>3</div>
C303.6	<div>3</div>	<div>3</div>	<div>3</div>	<div>3</div>	<div>3</div>	<div>3</div>	<div>3</div>
Average	2.20	2.40	2.40	2.25	2.40	2.20	2.20

6 . course name : C312

Edit

Course	PO1	PO2	PO3	PO4	PO5	PO6	PO7
C312.1	<div>1</div>	<div>2</div>	<div>2</div>	<div>1</div>	<div>-</div>	<div>1</div>	<div>2</div>
C312.2	<div>1</div>	<div>2</div>	<div>2</div>	<div>2</div>	<div>1</div>	<div>1</div>	<div>2</div>
C312.3	<div>1</div>	<div>2</div>	<div>2</div>	<div>2</div>	<div>-</div>	<div>1</div>	<div>2</div>

C312.4	<div>2</div>	<div>2</div>	<div>2</div>	<div>2</div>	<div>2</div>	<div>3</div>	<div>3</div>
C312.5	<div>2</div>	<div>2</div>	<div>1</div>	<div>2</div>	<div>2</div>	<div>1</div>	<div>1</div>
Average	1.40	2.00	1.80	1.80	1.60	1.40	2.00

1 . Course Name : C101

Edit

Course	PSO1	PSO2
C101.1	<div>-</div>	<div>-</div>
C101.2	<div>-</div>	<div>-</div>
C101.3	<div>-</div>	<div>-</div>
C101.4	<div>-</div>	<div>-</div>
C101.5	<div>-</div>	<div>-</div>
Average	0.00	0.00

2 . Course Name : C107

Edit

Course	PSO1	PSO2
C107.1	<div>-</div>	<div>-</div>
C107.2	<div>-</div>	<div>-</div>
C107.3	<div>-</div>	<div>-</div>
C107.4	<div>-</div>	<div>-</div>
C107.5	<div>-</div>	<div>-</div>
Average	0.00	0.00

3 . Course Name : C202

Edit

Course	PSO1	PSO2
C202.1	<div>2</div>	<div>1</div>
C202.2	<div>2</div>	<div>1</div>
C202.3	<div>2</div>	<div>3</div>
C202.4	<div>2</div>	<div>2</div>
C202.5	<div>2</div>	<div>3</div>
Average	2.00	2.00

4 . Course Name : C211

Edit

Course	PSO1	PSO2
C211.1	<div>1</div>	<div>2</div>
C211.2	<div>-</div>	<div>2</div>
C211.3	<div>-</div>	<div>2</div>

C108C	3 ▾	2 ▾	2 ▾	1 ▾	1 ▾	1 ▾	1 ▾	Delete
C109	2 ▾	2 ▾	2 ▾	2 ▾	2 ▾	2 ▾	2 ▾	Delete
C110	1 ▾	1 ▾	1 ▾	1 ▾	1 ▾	1 ▾	2 ▾	Delete
C111	3 ▾	2 ▾	1 ▾	1 ▾	1 ▾	- ▾	2 ▾	Delete
C112	1 ▾	1 ▾	1 ▾	1 ▾	1 ▾	1 ▾	2 ▾	Delete
C113	2 ▾	2 ▾	2 ▾	2 ▾	1 ▾	1 ▾	2 ▾	Delete
C201	3 ▾	1 ▾	1 ▾	1 ▾	1 ▾	- ▾	2 ▾	Delete
C202	2 ▾	3 ▾	2 ▾	2 ▾	1 ▾	2 ▾	2 ▾	Delete
C203	2 ▾	3 ▾	2 ▾	2 ▾	1 ▾	2 ▾	2 ▾	Delete
C204	2 ▾	2 ▾	2 ▾	2 ▾	2 ▾	2 ▾	2 ▾	Delete
C205	2 ▾	1 ▾	2 ▾	1 ▾	1 ▾	1 ▾	2 ▾	Delete
C206	2 ▾	2 ▾	2 ▾	2 ▾	1 ▾	2 ▾	2 ▾	Delete
C207	2 ▾	3 ▾	2 ▾	2 ▾	1 ▾	2 ▾	2 ▾	Delete
C208	2 ▾	2 ▾	2 ▾	2 ▾	1 ▾	1 ▾	2 ▾	Delete
C209	2 ▾	2 ▾	2 ▾	2 ▾	1 ▾	2 ▾	2 ▾	Delete
C210	2 ▾	2 ▾	2 ▾	1 ▾	1 ▾	2 ▾	2 ▾	Delete
C211	2 ▾	2 ▾	2 ▾	2 ▾	2 ▾	2 ▾	2 ▾	Delete
C212	2 ▾	3 ▾	2 ▾	2 ▾	1 ▾	2 ▾	2 ▾	Delete
C213	2 ▾	2 ▾	2 ▾	2 ▾	1 ▾	2 ▾	2 ▾	Delete
C214	3 ▾	2 ▾	2 ▾	2 ▾	2 ▾	2 ▾	2 ▾	Delete
C301	2 ▾	2 ▾	2 ▾	2 ▾	2 ▾	2 ▾	2 ▾	Delete
C302	2 ▾	2 ▾	2 ▾	2 ▾	2 ▾	2 ▾	2 ▾	Delete
C303	2 ▾	2 ▾	2 ▾	2 ▾	2 ▾	2 ▾	2 ▾	Delete
C304	2 ▾	2 ▾	2 ▾	2 ▾	2 ▾	2 ▾	2 ▾	Delete
C305	2 ▾	2 ▾	2 ▾	2 ▾	2 ▾	2 ▾	2 ▾	Delete
C306	2 ▾	2 ▾	2 ▾	2 ▾	2 ▾	2 ▾	2 ▾	Delete
C307	2 ▾	2 ▾	2 ▾	2 ▾	2 ▾	2 ▾	2 ▾	Delete
C308	2 ▾	2 ▾	2 ▾	2 ▾	1 ▾	2 ▾	2 ▾	Delete
C309	2 ▾	2 ▾	2 ▾	2 ▾	2 ▾	1 ▾	2 ▾	Delete
C310	2 ▾	2 ▾	2 ▾	2 ▾	1 ▾	2 ▾	2 ▾	Delete
C311	1 ▾	2 ▾	2 ▾	2 ▾	2 ▾	2 ▾	2 ▾	Delete
C312	2 ▾	2 ▾	2 ▾	2 ▾	2 ▾	1 ▾	2 ▾	Delete
C313	1 ▾	2 ▾	2 ▾	2 ▾	1 ▾	1 ▾	2 ▾	Delete
C314	2 ▾	2 ▾	2 ▾	2 ▾	2 ▾	2 ▾	2 ▾	Delete
C315	2 ▾	2 ▾	1 ▾	2 ▾	2 ▾	2 ▾	2 ▾	Delete

3.1.3 - B Program level Course-PSO matrix of all courses INCLUDING first year courses

Open Separately (eSARDiplomaQuestion.aspx?Appid=4513&Progid=25&QuestID=134)

Edit

Course	PSO1	PSO2	Action
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C101	<div>-▼</div>	<div>-▼</div>	Delete
C102P	<div>-▼</div>	<div>-▼</div>	Delete
C102C	<div>-▼</div>	<div>-▼</div>	Delete
C103	<div>1▼</div>	<div>-▼</div>	Delete
C104	<div>2▼</div>	<div>-▼</div>	Delete
C105	<div>1▼</div>	<div>1▼</div>	Delete
C106	<div>1▼</div>	<div>1▼</div>	Delete
C107	<div>-▼</div>	<div>-▼</div>	Delete
C108P	<div>-▼</div>	<div>-▼</div>	Delete
C108C	<div>-▼</div>	<div>-▼</div>	Delete
C109	<div>2▼</div>	<div>2▼</div>	Delete
C110	<div>1▼</div>	<div>1▼</div>	Delete
C111	<div>1▼</div>	<div>-▼</div>	Delete
C112	<div>1▼</div>	<div>2▼</div>	Delete
C113	<div>1▼</div>	<div>1▼</div>	Delete
C201	<div>1▼</div>	<div>-▼</div>	Delete
C202	<div>2▼</div>	<div>2▼</div>	Delete
C203	<div>2▼</div>	<div>2▼</div>	Delete
C204	<div>2▼</div>	<div>2▼</div>	Delete
C205	<div>-▼</div>	<div>-▼</div>	Delete
C206	<div>2▼</div>	<div>1▼</div>	Delete
C207	<div>2▼</div>	<div>2▼</div>	Delete
C208	<div>-▼</div>	<div>-▼</div>	Delete
C209	<div>2▼</div>	<div>2▼</div>	Delete
C210	<div>2▼</div>	<div>2▼</div>	Delete
C211	<div>2▼</div>	<div>2▼</div>	Delete
C212	<div>2▼</div>	<div>2▼</div>	Delete
C213	<div>2▼</div>	<div>1▼</div>	Delete
C214	<div>2▼</div>	<div>1▼</div>	Delete
C301	<div>2▼</div>	<div>2▼</div>	Delete
C302	<div>2▼</div>	<div>2▼</div>	Delete
C303	<div>2▼</div>	<div>3▼</div>	Delete
C304	<div>2▼</div>	<div>2▼</div>	Delete
C305	<div>2▼</div>	<div>2▼</div>	Delete
C306	<div>2▼</div>	<div>1▼</div>	Delete
C307	<div>2▼</div>	<div>2▼</div>	Delete
C308	<div>2▼</div>	<div>2▼</div>	Delete
C309	<div>1▼</div>	<div>1▼</div>	Delete
C310	<div>2▼</div>	<div>2▼</div>	Delete
C311	<div>2▼</div>	<div>2▼</div>	Delete
C312	<div>2▼</div>	<div>2▼</div>	Delete
C313	<div>2▼</div>	<div>2▼</div>	Delete
C314	<div>2▼</div>	<div>2▼</div>	Delete

3.2 Attainment of Course Outcomes (40)

Total Marks 40.00

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

Institute Marks

Open Separately (eSARDiplomaQuestion.aspx?Appid=4513&Progid=25&QuestID=135)

(Examples of data collection processes may include, but are not limited to, specific exam/tutorial questions, assignments, laboratory tests, project evaluation, internally developed assessment exams, project presentations, oral exams etc.)

10.00

Edit Answer

There are basically two types of assessment methods in order to gather evidence of student learning. The assessment should be done through direct and indirect method as given below.

1. Direct Method- Direct methods are used to assess the students' knowledge and skills (Cognitive, Psychomotor and Affective) from their performance

Throughout the semester as well as by conducting term end examinations.

Various assessment tools used are as listed below.

1. Term End Theory Examination (TH)
2. Term End Practical/Oral /Project Examination (PR/OR)
3. Progressive Test Assessment (PA)
4. Continuous Assessment of Practical/Term work/Tutorials/Project (TW)
5. Online Exam

As per MSBTE Scheme external examination is required or not any above then assessment Tools is again categorised into following two.

1. Internal Assessment Tools
2. External Assessment Tools

Table 3.2.1a Direct assessment Tools

Direct Assessment Tools(Internal)					
Sr. No	Direct Assessment Method	Description of the Assessment Process	Assessment Frequency	Assessed By	Formats Required for Data Collection
1	Progressive Tests (PST)	<ol style="list-style-type: none"> 1. As per the teaching scheme of MSBTE, two unit tests of each theory subject are conducted. It is a metric to continuously assess the attainment of course outcomes w.r.t course objectives. Sessional marks to be communicated to MSBTE shall be as per teaching Examination scheme 2. The feedback regarding the assessment is given to the students in the class room for betterment. 	Twice in a Semester	Course in-charge	CIAAN norms 2012-13 Format No. D3

2	Continuous Assessment of Practical/Term work/Sessional Tests/Tutorials/Project (TW/SW/IPR)	1. Continuous Assessment is one of the measuring criteria to assess student practical knowledge & their skills like Cognitive Psychomotor and Affective as well as punctuality in attending the laboratory work.	After Completion of each experiment	Course in-charge	CIAAN norms 2012-13 Format No. D4, D6
3	Term End Practical/Oral /Project Examination (PR/OR)	2. End term laboratory practical examination is the measure of attainment of course outcome which is mentioned in the curriculum.	Once in Semester	Course in-charge as internal examiner	CIAAN norms 2012-13 Format No. D5
Direct Assessment Tools(External)					
Sr. No	Direct Assessment Method	Description of the Assessment Process	Assessment Frequency	Assessed By	Formats Required for Data Collection
1	End Term Final Theory examination	1. The MSBTE theory examination is more focused on attainment of course outcome and program outcome using descriptive exam. 2. After declaration of MSBTE result, class, division, subject wise result analysis is carried out at department level. 3. MSBTE provide theory score index is used as standard target and calculating the numbers of students scoring above the set standards with the help of MSBTE theory exam.	Once in Semester	MSBTE board/ External Assessor	MSBTE Result Gazette Copy
2	Term End Practical/Oral /Project Examination (PR/OR)	1. End term laboratory practical /oral examination is the measure of attainment of course outcome which is mentioned in the curriculum.	Once in Semester	External Assessor	CIAAN norms 2012-13 Format No. D5
3	Online Exam	1. Online end semester exam is conducted by MSBTE for some courses as mention in curriculum	Once in Semester	MSBTE board/ External Assessor	MSBTE Result Gazette Copy

2. Indirect Method- Indirect methods such as alumni survey, student feedback, exit student feedback which reflect the opinion & thought about the diploma student knowledge & skills and their valued for different stake holders.

Table 3.2.1b Indirect assessment Tools

Sr. No.	Indirect Assessment Method	Description of the Assessment Process	Assessment Frequency	Assessed By
1	Alumni feedback	Collected variety of information about program satisfaction and institute from alumni students of institute. Relevant questionnaire in exit survey form to evaluate attainment of POs and PSOs is prepared to record their responses.	Once in Year	Departmental T&P Officer
2	Program Exit feedback	An exit survey is conducted for students who have graduated out of the department. Relevant questionnaire in exit survey form to evaluate attainment of POs and PSOs is prepared to record their responses.	Once in Year	Departmental T&P Officer

3.2.2 Record the attainment of Course Outcome of all courses with respect to set attainment levels (30)

Open Separately (eSARDiplomaQuestion.aspx?Appid=4513&Progid=25&QuestID=137)

Institute Marks

Program shall have set Course Outcome attainment levels for all courses.

30.00

(The attainment levels shall be set considering average performance levels in the board examination for the assessment years. Attainment level is to be measured in terms of student performance in internal assessments with respect the COs of a course plus the performance in the Board examination)

Edit Answer

Measuring Course Outcomes attained through board examinations

(Target may be stated in terms of percentage of students getting more than the Board average marks or more as selected by the Program in the final examination. For cases where the Board does not provide useful indicators like average or median marks etc., the program may choose an attainment level on its own with justification.)

Course outcome attainment levels are set separately for external and internal assessments as given below.

Setting attainment levels for performance through External Assessment

MSBTE provide minimum passing percentage for board examinations as theory score index (TSI), that TSI is set as target to decide attainment level for external assessment. therefore percentage of student scoring less than TSI marks is considered as zero level of attainment (i.e. no attainment) and accordingly levels 1, 2 and 3 (low, moderate and high) are set as defined below.

- o Attainment Level 1: 50% - 54.99% students scoring more than board TSI marks in external assessment is considered to be attainment of Level "1".
- o Attainment Level 2: 55% - 59.99% students scoring more than board TSI marks in external assessment is considered to be attainment of Level "2".
- o Attainment Level 3: 60% & above students scoring more than board TSI marks in external assessment is considered to be attainment of Level "3" .

Setting attainment levels for performance through Internal Assessment

Internal assessment tools comprises unit test, continuous assessment term work, internal practical exams. For unit test set assessment level are in terms of percentage of students getting more than class average marks but the class average marks for unit test is too low , here decided set assessment level for unit test is 40% marks and accordingly levels 1, 2 and 3 (low, moderate and high) are set as defined below.

Attainment level 1: 50% - 54.99% students scoring marks more than 40% marks out of the relevant Maximum marks in unit test.

Attainment level 2: 55% - 59.99% students scoring marks more than 40% marks out of the relevant Maximum marks in unit test.

Attainment level 3: 60% & more students scoring marks more than 40% marks out of the relevant Maximum marks in unit test.

Internal assessment tool also comprises of continuous assessment/TW marks, internal practical marks given by respective course co-ordinator from performance in the continuous assessment for laboratory work. Here the assessment levels are set in terms of percentage of students getting more than set assessment marks in internal assessment, as given below.

Attainment level 1: 40% - 49.99% students scoring marks more than 60% marks out of the relevant maximum marks in Internal Assessment.

Attainment level 2: 50% - 59.99% students scoring marks more than 60% marks out of the relevant maximum marks in Internal Assessment.

Attainment level 3: 60% & more students scoring marks more than 60% marks out of the relevant maximum marks in Internal Assessment..

Note:

- o As the information on performance in external TH and PR/OR for each student in individual COs is not available, the Institution/Department has to take that attainment (percentage marks) for all COs of the course is the same.

- o As evaluation of continuous assessment/TW, Internal Practical End semester Exam is done by developing rubric of cluster of skills from cognitive, psychomotor and affective learning domains thorough proper mix of COS, hence same attainment level is considered for all Cos.

E.g. Specimen sheet of analysis of CO Attainment for the Microcontroller course is as shown below, (Academic year 2016-17 admitted batch; passed out academic year 2018-19) (TH: Theory PR/OR: Practical/Oral PT: Progressive Test TW: Term work)

Course Name :	Data Structure Using C (DSU)
Course Code :	17330
Program/Semester:	III rd Sem (CO3G Scheme)
Academic Year :	2017-18

DIRECT CO ASSESSMENT TOOL/COURSE EVALUATION PLAN	TH-PA		PA-TW	PR-ESE	TH-ESE	TOTAL
	<u>U. Test I</u>	<u>U. Test II</u>	<u>PA Term Work</u>	Practical Exam	E.S.E. Board	
MAX MARKS AS PER TEACHING SCHEME	10		25	50	100	185
INDIVIDUAL WEIGHTAGE (%)	5.41		13.51	27.03	54.05	100

Note- Individual weightage for each internal and external tool are varying as per MSBTE teaching scheme for each course.

Attainment for theory progressive assessment is shown as below

**Evaluation of Answer sheets for Unit Tests
Internal Assessment (Direct Mode)**

Course Name	(Data Sheet Using C - SEM I)
Course Code	17120
Program/Semester	(B Ed Sem I (COPE Scheme))
Academic Year	2017-18

Sl. No.	Enrollment ID	Student Name	UNIT TEST I												UNIT TEST II												COA Max. Marks	CO B Max. Marks	CO C Max. Marks	CO D Max. Marks	CO E Max. Marks	Total Max. Marks (with Extra)	U. TEST I (%)	U. TEST II (%)
			Q1						Q2						Q3						Q4													
			41	30	42	40	1	2	3	40	30	42	40	1	2	3	40	30	42	40	1	2	3	40	30	42								
			CO A	CO B	CO C	CO D	CO E	CO A	CO B	CO C	CO D	CO E	CO A	CO B	CO C	CO D	CO E	CO A	CO B	CO C	CO D	CO E	CO A	CO B	CO C	CO D	CO E							
1	1601360118	APINGEKAR SUNAYANA SUNE	2.5	3	2	3	1	3	4	3	4	3	3	2	3	3	2	3	3	3	3	2	3	3	3	3	3	3	3	3	3	3	3	3
2	1601360115	BANSODE PALLAVI MUKIND	3	2	3	3	1	4	4	4	3	3	3	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	
3	1601360114	BHARADWAJ BHAKTI ASHOK	2.5	2	3	3	2	3	2	1	3	2	3	2	3	2	3	2	3	2	3	2	3	2	3	2	3	2	3	2	3	2	3	
4	1601360109	BHARADWAJ MADHUR MADHUKAR	2	3	3	3	1	4	3	2	4	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	
5	1601360139	BHARADWAJ SHIVAKANYA RAM	3	2	3	3	3	1	4	4	4	3	2	3	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	
6	1601360145	BHARADWAJ DIPSITI MAHADEV	2	2	3	3	3	3	4	4	2	3	1	3	2	1	3	3	4	3	3	3	3	3	3	3	3	3	3	3	3	3	3	
7	1601360147	CHALCHANDI SHIKHA SARABHAJI	2	2	3	3	3	3	2	2	3	3	2	3	2	3	2	3	2	3	2	3	2	3	2	3	2	3	2	3	2	3	2	
8	1601360152	DALVI ASHVINI SHIVAJI	2	2	3	3	1	4	3	2	4	3	3	3	3	2	4	3	2	3	3	3	3	3	3	3	3	3	3	3	3	3	3	
9	1601360152	DHAGE POOJA UMESH	2	2	3	3	1	2	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	
10	1601360141	DHARMA SUGMITA MADHAVRAO	3	2	3	3	1	4	3.5	4	2	1	3	6.5	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	
11	1601360154	DIVATE VADISHTA VIJAYANTHRAO	2	2	3	3	3	4	2	3.5	3	3	1	2	4	1.5	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	
12	1601360130	GAIKWAD RIJATA DILIP	2	2	2	1.5	2	1.5	1	3	2	1.5	2	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	
13	1601360143	GAVER ANALI NARSING	2.5	2	3	3	1	3	2	2	1	1	1	5	2	1	1	2	2	3	2	3	2	3	2	3	2	3	2	3	2	3	2	
14	1601360138	GHARALKAR SHASHIDA RADHAKRISHNA	2	2.5	2	2	1	1	1	1	2	2	2	4	1	6	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
15	1601360155	GOKHARE CAURABAI SHIVRAJ	1	2	2.5	1	2	4	6	3	2	2	2	2	4	3.5	6	4	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	
16	1601360153	GORE ASHVINI LMBIRAJ	2	2	3	3	3	3	0	6	2	2	2	1.5	2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
17	1601360144	GORE RAJESH BHALAJI	2	2.5	3	3	0	3	2	2	2	3	3	5	2	4	2	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	
18	1601360151	GOTAVALE GITANJALI MAROTI	2	2	3	3	3	1	4	3	3	1	1	1	2	4	1.5	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	
19	1601360177	GULAMBE SAYALI ANIL	2	2	3	3	3	3	3	1	2	2	6.5	4	6	4	6	4	6	4	6	4	6	4	6	4	6	4	6	4	6	4	6	
20	1601360152	JADHAV MAYURI SATISH	2	2.5	3	3	3	3	2	6.5	1	2	1	2	1	1	4	1	4	1	4	1	4	1	4	1	4	1	4	1	4	1	4	
21	1601360163	JADHAV SRIJAL BABURAO	2	2	3	3	1	1	4	6.5	3	3	3	3	5	4	2	1	2	4	2	9	14.5	2	9	14.5	2	9	14.5	2	9	14.5	2	9
22	1601360166	JOGI GEETA GOKARNATH	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	
23	1601360173	KALE ASHWINIYA BHAGIRAJ	2	1.5	3	2.5	2.5	3	3	2	2	6	3	2	2	6	3	2	2	6	3	2	2	6	3	2	2	6	3	2	2	6	3	2
24	1601360177	KALE MOHINI JEEVAN	3	2.5	3	3	4	3.5	4	2.5	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	
25	1601360140	KALWALE RAJESH RAMKISHOR	2.5	0	0	0	0	1	1.5	0	3	3	3	3	3	2	3	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
26	1601360174	KAMBLE KAJAL BHALCHANDRA	1	0	0	2	1	2.5	0	2	0	3	1	1	4	0	1	3.5	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3
27	1601360108	KAMBLE SHREYATI PANDHARINATH	2	3	3	3	2	1	2.5	0	6	2	3	3	3	2	2	6	0	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3
28	1601360144	KAMBLE VANDANA SHIVAMANT	3	2	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	
29	1601360168	KARANDE MANOJAKI BHALAJI	2.5	2.5	3	2.5	2.5	2	6.5	3	3	3	2	2	2	2	6	4.5	3.5	3	3	3	3	3	3	3	3	3	3	3	3	3	3	
30	1601360107	KARPE SONALI SANJAY	2	2.5	3	3	2	2	3	4	1	3	3	1	3	4	1	3	3.5	3	3	3	3	3	3	3	3	3	3	3	3	3	3	
31	1601360191	KORATE POOJA DHARMARAJ	3	2.5	3	3	3	3	2	6.5	0	3	3	3	3	4	1	3.5	2	4	3	3	3	3	3	3	3	3	3	3	3	3	3	
32	1601360194	KOTALE SHIVAJI SANJAY	3	2	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	
33	1601360106	KSHIRSAGAR RAJANI VIJAYKUMAR	3	2.5	3	3	2	0	4	3	4	3	3	3	3	4	0	4	2	4	7	12.5	7	7	21.5	29	3	3	3	3	3	3	3	
34	1601360199	KSHIRSAGAR YOGITA BHAKTI RAO	2.5	2.5	3	3	1	0	3	0	1	3	2	3	3	4	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
35	1601360152	KURUD SHRINEETA SHRIKANT	3	3	1	4	4	4	4	3	3	3	3	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	
36	1601360141	LADAGE PRADYNA MILIND	2	2	2.5	3	1	6.5	1	6.5	2	2	2	2	0	3	3	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	
37	1601360195	MALVADKAR PRIYANKA MANOJ	3	2	0	3	3	2.5	2	2	4	1	3	2	1	6.5	4	1	1	4	6	7.5	22	23	5	22.5	17.5	5	5	5	5	5	5	
38	1601360139	MANE DIPALI SANJAY	3	0	3	3	3	2	4	3.5	4	3	3	2	4	4	3.5	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	
39	1601360107	MANE SNEHA LAXMAN	2.5	2	0	3	0	2.5	2	0	1	1	3	2	0	0	1	1	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
40	16013601147	MATOLE PRINHA DASHRATH	3	3	1	3	3	2.5	2	4	4	3	2.5	2	4	4	4	3.5	6	8.5	18.5	6	9.5	29.5	5	29.5	5	5	5	5	5	5	5	
41	1601360112	MONITE RADHA GOKARH	6.5	3	1	2	1	0	1	0	3	2	6.5	1.5	1	0	1	1	3	3	6.5	2.5	2.5	6.5	1	6.5	1	6.5	1	6.5	1	6.5	1	
42	1601360124	MUCHOLKAR DEEPAK PRADEEPRAO	2	2.5	3	3	3	3	2.5	3	3	3	3	3	3	3	4	4	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	
43	1601360117	NIKAM PRATIKSHA MAROTI	2.5	2	3	3	1	1	3	4	2	3	3	1	1	6.2	3.5	1.5	4	6	6	11.5	2	8.5	26.5	15	8	26.5	15	8	26.5	15	8	
44	1601360118	PANDEYANAND GITANJALI BHARUJI	2.5	1.5	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	
45	1601360119	PATE VISHAKHA UMESH	2	2.5	0	3	2.5	6.5	1	3	3	2	2	2	0	1	0	3	2	3	3	3	3	3	3	3	3	3	3	3	3	3	3	
46	1601360120	PAWAR POOJA PANDORANJAN	2	0	0	0	1	0	1	1.5	2	1	0	3	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
47	1601360121	PHULMANTRE PRITILATA PARMESHVAR	2	0	0	3	1	3	3	6.5	1	0	2	4	0	0	0	3	3	6	3	3	6	4	12	18.5	10	4	12	18.5	10	4	12	
48	1601360122	RAJANIKANTA YADAVRANJAN	2	0	0	2	2	6.5	0	3	1	6.5	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	
49	1601360124	RATHOD MANOJAKA PUNE CHAND	2	2.5	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	
50	1601360125	ROOKE SAKSHI MADHUKAR	2	2.5	3	3	4	4	1	2	3	3	2	4	3	3	4	4	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	
51	1601360169	SHERPURSE SNEHA SHIRAMANT	2	2	2	1	2	1	2	4	3	2	3	1	3	2	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4</			

Set Competency target as 40 % marks of each CO	2.4	7.6	8.8	4.4	5.6
No. of students above set target	37	28	35	20	39

Benchmark of Attainment level against set target/ competency	No of Students	Level
20% of Students got score than set target	71	18.2
40% of Students got score than set target		2
60% of Students got score than set target		3

CO-wise Attainment for Unit Test	CO1	CO2	CO3	CO4	CO5	CO6
Attainment Level	3	1	2	1	2	0

Similarly, CO attainment for progressive test has been determined and recorded as given in the following table.

Total No. Of Students	71				
Course Outcome	CO1	CO2	CO3	CO4	CO5
Max Marks	06	19	22	11	14
Set threshold (40%) of marks of each CO	2.4	7.6	8.8	4.4	5.6
Number of student above threshold value (40%)	57	28	35	20	39
% OF students Above target marks	80	39	49	28	54

Attainment Level	3	1	2	1	2
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External assessment for End Semester Exam (TH and PR ESE) and internal assessment PA-TW is given below

Course Code -17330		Data Structure Using C -DSU		
Sr. No	Enrolment No	TH-ESE	PA-TW	PR-ESE
		100	25	50
1	1601360018	78	21	42
2	1601360016	78	21	44
3	1601360014	71	22	46
4	1601360069	89	20	44
5	1601360039	78	23	48
6	1601360046	70	22	44
7	1601360047	69	22	42
8	1601360052	72	21	39
9	1501360102	24	14	25
10	1601360141	73	21	40
11	1601360056	75	19	38
12	1601360030	48	18	37
13	1601360043	77	21	38
14	1601360138	43	20	38
15	1601360010	56	21	40
16	1601360033	48	19	35
17	1601360166	60	20	40
18	1601360061	63	18	38
19	1601360027	40	17	26
20	1601360022	65	20	37
21	1601360063	80	22	42

22	1601360066	40	14	30
23	1601360073	31	18	28
24	1601360077	84	21	41
25	1601360140	55	17	35
26	1601360174	30	18	33
27	1601360086	60	18	32
28	1601360044	75	18	31
29	1601360088	79	20	41
30	1601360007	78	22	45
31	1601360091	72	18	40
32	1601360096	62	22	44
33	1601360006	77	22	46
34	1601360099	59	19	38
35	1601360102	88	23	48
36	1601360041	42	15	26
37	1601360105	72	20	42
38	1601360239	72	21	42
39	1601360107	22	16	38
40	1601360114	82	21	41
41	1601360112	67	17	37
42	1601360024	69	20	41
43	1601360117	63	21	43
44	1601360118	47	19	35
45	1601360119	50	19	37
46	1601360120	32	17	37
47	1601360121	59	20	42
48	1601360122	67	18	42

49	1601360124	62	19	39
50	1601360126	75	22	47
51	1601360169	59	20	41
52	1601360005	47	18	39
53	1601360128	30	18	42
54	1601360129	63	21	42
55	1601360172	63	18	37
56	1601360142	74	20	41
57	1601360031	79	23	48
58	1601360131	59	20	40
59	1601360133	71	18	38
60	1601360134	69	20	38
61	1601360136	75	19	44
62	1301360074	Disallowed	AB	AB
63	1701360286	58	16	38
64	1701360291	AB	18	AB
65	1701360288	61	17	40
66	1701360283	72	16	42
67	1701360311	57	19	41
68	1701360285	40	16	37
69	1701360289	45	16	35
70	1701360287	45	16	34
71	1701360284	30	14	29
72	1701360290	AB	16	AB
73	1701360282	Disallowed	AB	AB

Total No. Of Students	71		
Max Marks	100	25	50

Target Defined	45.87	15	30
Total no. of students scoring more than target	54	68	64
% of student above target Marks	76	95	90
Attainment Level	3	3	3

Note-For external ESE target defined as per MSBTE Board TSI, for internal progressive TW target is decide by internal faculty is 60%.

In case of ESE, PR, TW same attainment level consider for all CO.

Direct attainment calculated by same method for all courses.

CO's	Direct Attainment			
	Internal Tool		External Tool	
	TH-PA	PA-TW	PR-ESE	TH-ESE
CO1	3	3	3	3
CO2	1	3	3	3
CO3	2	3	3	3
CO4	1	3	3	3
CO5	2	3	3	3
Average Attainment	2	3	3	3
Individual Weightage (%)	5.41	13.51	27.03	54.05
Direct Total Attainment	0.24	0.50	0.70	1.40
Total course attainment		2.84		

Overall weightage	100%
Overall direct course attainment	2.84

3.3 Attainment of Program Outcomes and Program Specific Outcomes (40)

Total Marks 40.00

3.3.1 Describe assessment tools and processes used for assesing the attainment of each POs and PSOs as mentioned in Annexure 1 (10)

Open Seperately (eSARDiplomaQuestion.aspx?Appid=4513&Progid=25&QuestID=143)

Institute Marks

(Describe the assessment tools and processes used to gather the data upon which the evaluation of each of the Program Outcome and Program Specific Outcome is based, indicating the frequency with which these processes are carried out. Describe the assessment processes that demonstrate the degree to which the Program Outcomes and Program Specific Outcomes are attained and document the attainment levels)

10.00

Assessment tools used for assessing the attainment of each POs and PSOs is describe as follows

1. In each course of curriculum, the outcomes are defined/set by respective faculty member of the course.
2. The COs of each course are mapped with POs and PSO. This mapping is done over the scale of 1 to 3, where; 1 is Low, 2 is Medium and 3 is high.
3. This mapping matrix is presented in Table 3.1.4 which shows the mapping matrix of CO and POs/PSOs of all the courses of the program including First year courses as well as elective courses of the program.
4. By using different assessment (internal and external) tools overall direct CO attainment is calculated for each course.
5. Direct PO/PSOs attainment calculated by following formula

Assessment tools used for assessing the attainment of each POs and PSOs is shown below

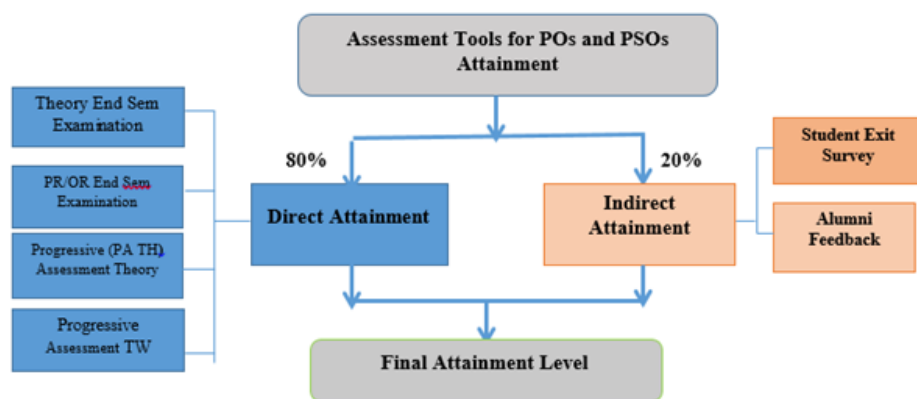


Figure: Assessment tools used for assessing the attainment of each POs and PSOs

Direct PO/PSOs attainment value = (PO/PSO value of corresponding course PO /PSO matrix X Overall CO Attainment value for the same course)/ 3 (maximum attainment level)

Example of direct PO attainment calculation for Course DSU- Data Structure Using C is given below

PO's / Attainment Level Calculations		PO1	PO2	PO3	PO4	PO5	PO6	PO7	PSO1	PSO2
Average Contribution of each CO to each PO/PSO (A)	A	2	3	2	2	1	2	2	2	3
Overall Course Attainment (B)	B	2.88	2.88	2.88	2.88	2.88	2.88	2.88	2.88	2.88
Direct attainment level	$C = (A \times B) / 3$	1.92	2.88	1.92	1.92	0.96	1.92	1.92	1.92	2.88

1. For indirect attainment feedback from different stakeholders are consider.
2. Total attainment is calculate for each course = 80% of direct attainment + 20% of indirect attainment.

3.3.2 Provide results of evaluation of each PO & PSO (30)

[Open Separately \(eSARDiplomaQuestion.aspx?Appid=4513&Progid=25&QuestID=145\)](#)

Institute Marks

(The attainment levels by direct (student performance) and indirect (surveys) are to be presented through Program level Course-PO matrix and course- PSO Matrix as indicated)

PO Attainment

[Edit](#)

Course	PO1	PO2	PO3	PO4	PO5	PO6	PO7	Action
C101	2	0	0	0	0	0	3	Delete
C102P	1.32	1.32	1.49	1.32	1.65	1.65	1.49	Delete
C102C	3	2	1	1	1	0	2	Delete
C103	3	2	2	1	1	0	2	Delete
C104	1.8	1.7	1.2	0.8	0.7	1.5	1.3	Delete
C105	1	1	1	2	1	1	2	Delete
C106	2	1	1	1	1	1	2	Delete
C107	2	0	0	0	0	0	3	Delete
C108P	2.45	1.64	1.64	1.64	1.64	1.64	0	Delete
C108C	3	2	1	1	1	1	1	Delete
C109	1.66	1.84	1.84	1.61	1.48	1.84	1.84	Delete
C110	1.4	1.2	1.4	1.2	1.2	1.2	2	Delete
C111	3	2	1	1	1	0	2	Delete
C112	1.4	1.2	1.4	1.2	1.2	1.2	2	Delete
C113	1.67	1.6	1.8	1.6	1.4	1.2	2.2	Delete
C201	2.84	1.33	0.95	0.95	0.95	0	1.52	Delete
C202	1.54	2.5	1.73	1.54	0.96	1.73	1.92	Delete
C203	1.87	1.87	1.87	0.94	1.87	0.94	1.87	Delete
C204	2	1.8	2.2	2	2	2.2	2.2	Delete
C205	1.6	1	1.4	1.2	1	1	2	Delete
C206	2	2	1.8	1.6	1	1.8	2	Delete
C207	1.6	2.6	1.8	1.6	1	1.8	2	Delete
C208	2	2	1.67	1.6	1.2	1.25	2	Delete
C209	1.8	2	1.4	1.6	1	1.67	2	Delete
C210	1.7	1.89	1.51	1.33	1.14	1.7	2.08	Delete
C211	1.54	1.73	1.92	1.92	1.92	1.73	1.92	Delete
C212	2.2	2.6	1.8	1.6	1	1.8	2	Delete
C213	1.8	1.4	1.8	1.6	1	1.75	2	Delete
C214	2.67	2	2	2	1.67	1.67	2	Delete
C301	1.8	1.8	1.75	1.6	1.5	1.5	2	Delete
C302	1.27	1.15	1.15	1.15	1.04	1.27	1.15	Delete
C303	2.15	2.34	2.34	2.19	2.34	2.15	2.15	Delete
C304	2	2	2	1.6	1.4	2	2	Delete
C305	1.8	2	2	1.6	1.4	1.2	2	Delete

C306	2	2	2	2	1.8	1.6	2	Delete
C307	2	1.8	1	1.6	1.2	1.5	2.2	Delete
C308	2	1.75	1.75	1.6	1.2	1.6	2	Delete
C309	2	2	2	1.5	1.34	1	2.2	Delete
C310	2.2	2.2	2	2	1.2	1.6	2.4	Delete
C311	1.4	2	2	1.8	1.67	1.6	2.2	Delete
C312	1.8	2	1.8	1.8	1	1.4	2	Delete
C313	1.4	2	2	1.8	1.34	1.4	2.2	Delete
C314	2	2	2	2	1.8	2.2	2.2	Delete
C315	1.75	1.75	1	1.67	1.5	1.5	2.25	Delete

PO Attainment Level

Course	PO1	PO2	PO3	PO4	PO5	PO6	PO7
Direct Attainment	1.94	1.81	1.63	1.52	1.30	1.52	2.01
InDirect Attainment	2.68	2.6	2.6	2.50	2.57	2.69	2.63
PO Attainment	2.09	1.97	1.82	1.72	1.55	1.75	2.13

PSO Attainment

Edit

Course	PSO1	PSO2	Action
C101	0	0	Delete
C102P	0	0	Delete
C102C	0	0	Delete
C103	1	0	Delete
C104	1	0	Delete
C105	1	1	Delete
C106	1	1	Delete
C107	0	0	Delete
C108P	0	0	Delete
C108C	0	0	Delete
C109	1.57	1.84	Delete
C110	1.57	1.4	Delete
C111	1	0	Delete
C112	1.57	1.4	Delete
C113	1.57	1	Delete
C201	1	0	Delete
C202	1.92	1.92	Delete
C203	1.87	1.87	Delete
C204	1.62	2	Delete
C205	0	0	Delete

C206	2	1	Delete
C207	2	2	Delete
C208	0	0	Delete
C209	1.8	1.6	Delete
C210	1.7	1.89	Delete
C211	1.62	1.73	Delete
C212	2	1.8	Delete
C213	2	1	Delete
C214	2	1.34	Delete
C301	1.8	1.8	Delete
C302	1.15	1.15	Delete
C303	1.1	2.73	Delete
C304	1.6	1.6	Delete
C305	1.5	1.25	Delete
C306	1.67	1	Delete
C307	1.8	1.6	Delete
C308	1.6	1.4	Delete
C309	1	1	Delete
C310	1.6	1.6	Delete
C311	2	2	Delete
C312	1.8	1.8	Delete
C313	2	2	Delete
C314	1.5	2	Delete
C315	1.58	1.58	Delete

PSO Attainment Level

Course	PSO1	PSO2
Direct Attainment	1.57	1.57
InDirect Attainment	2.68	2.58
PSO Attainment	1.79	1.77

Previous

Next