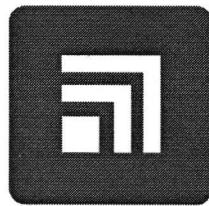


CHITKARA
UNIVERSITY



HIMACHAL PRADESH

NAAC ACCREDITED

Report on PO Attainment

Master of Engineering

(Computer Science & Engineering)

Batch 2017

**Department of Computer Science &
Engineering**

Report on PO Attainment

ME -Batch 2017

Department of Computer Science & Engineering

Dated:28/08/2020

Overview

An outcome is a result of learning that reveals what the student should be able to do at the end of a course; Outcome-based curriculum is a performance-based education system which is crucial in determining the type of graduates we want. In this approach, the desired educational outcomes should be clearly specified. Having an unequivocal outcome facilitates the nature of course offered, its content and also the teaching plans. Constructive alignment is a principle used for devising teaching and learning activities and assessment tasks that directly address the course outcomes (COs) intended. The outcome-based approach provides a mechanism to ensure the accountability and quality assurance to an educational program.

Course mapping shows the educational relationship (Level of Learning achieved) between Course Outcomes and Program Outcomes for a Course. The result strongly indicates whether the students are able to achieve the course learning objectives. The method can be used for any course and is a good way to evaluate a course syllabus.

The below mentioned steps shall address the procedure for assessing the percentage achievement of Program Outcomes.

Program Outcomes (PO)

The Program Outcomes for the ME(CSE) Program are the following:

- PO1.** Possess an ability to apply knowledge of Computer Science & Engineering.
- PO2.** Possess an ability to design and conduct experiments, as well as to analyze and interpret data.
- PO3.** Possess an ability to design a system, component or process to meet desired meets within realistic constraints such as economics, environmental, social, political, ethical, health and safety, manufacturability, and sustainability.
- PO4.** Possess an ability to function on multidisciplinary teams.
- PO5.** Possess an ability to identify, formulate and solve engineering problems
- PO6.** Possess an understanding professional and ethical responsibility.
- PO7.** Possess an ability to communicate effectively.


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- PO8.** Possess a capability to understand impact of engineering solutions in a global, economic, environmental, and societal context.
- PO9.** Possess an ability to recognize the need for, and an ability to engage in life-long learning.
- PO10.** Possess an ability to use the techniques, skills, and modern engineering tools necessary for engineering.

Course Outcomes mapping with Program Outcomes:

The course learning outcomes were mapped with the defined program outcomes of the Department of Computer Science & Engineering on the scale of High, Medium and Low. Subsequently the mapped values were assigned with the weights i.e. High: 3; Medium: 2; and Low: 1. The subject wise result was compiled for 1st, 2nd, 3rd, 4th, 5th & 6th semester.



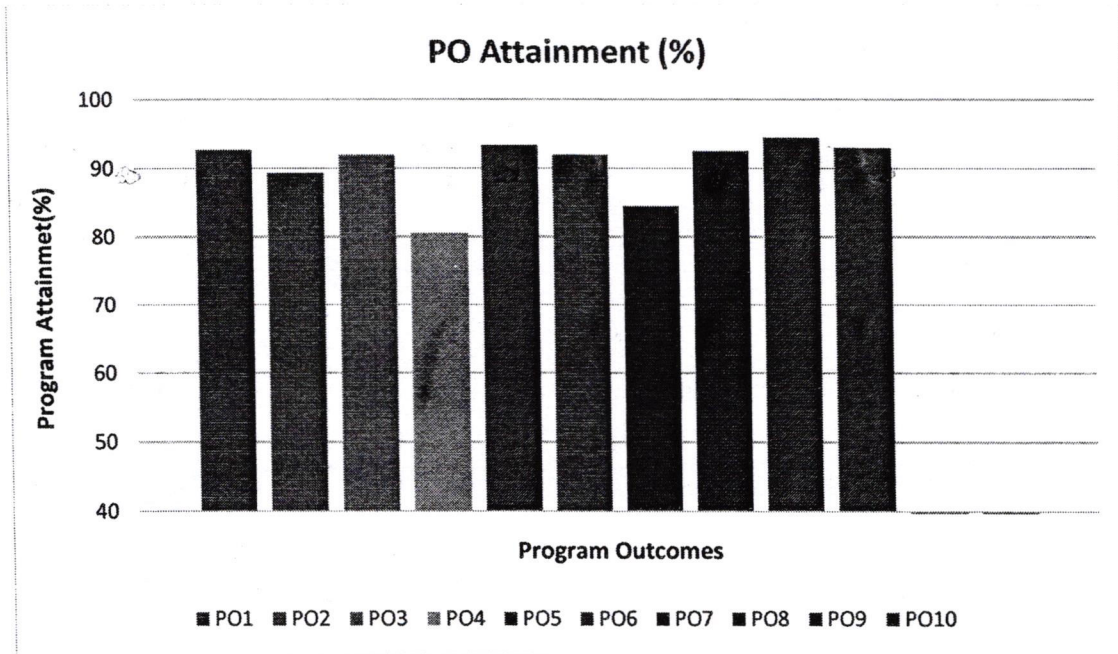
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PO Attainment of Subjects: ME CSE Computer Science & Engineering

Subject	PO0	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10
CSL4631	95	95	-	-	95	-	-	-	-	95
CSL4632	-	85	-	-	85	-	-	85	-	-
CSL4633	72	72	-	-	-	-	72	-	-	-
CSP1631	100	-	-	-	100	-	-	-	-	-
CSP1632	-	100	-	-	-	-	-	-	-	-
CSL4502	97	-	-	-	-	-	97	-	97	-
CSL4626	-	-	-	-	-	-	-	-	-	-
CSL4620	80	80	-	80	80	-	80	-	80	-
CSP1502	-	-	-	85	-	-	-	-	85	-
ECL2601	92	92	92	-	-	92	-	-	-	92
ECL4606	-	92	92	-	-	-	-	-	92	92
ECP1606	100	-	-	-	-	-	-	100	-	-
CSL4635	76	-	-	-	-	-	-	-	76	-
CSL4636	-	82	-	82	-	82	-	-	-	-
CSP1635	76	-	-	-	-	76	-	-	-	-
CSL4211	-	67	67	67	67	67	67	67	67	-
CSL4212	55	55	-	-	55	-	-	55	-	-
CSL4665	-	-	83	83	83	-	-	83	83	-
CSL2518	-	-	75	75	75	-	-	75	75	-
PRM4101	-	-	-	69	69	-	-	69	69	-
RS994	-	-	-	-	-	-	-	-	-	-
RS995	-	-	-	-	-	-	-	-	-	-
POA	92.67	89.33	92	80.55	93.33	92	84.5	92.5	94.5	93


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Representation of PO attainment



Analysis: -

The above chart represents the students of ME -batch 2017 have successfully achieved minimum program outcomes of 90% . This shows the consistency in evaluation pattern, questions asked and the marks obtained by the students. The further change in the pattern may be visible when more multidisciplinary projects will be done by the students and a few co-curricular activities will be conducted.

Head of Department
Department of Computer Science & Engineering
School of Engineering & Technology
Chitkara University, Himachal Pradesh
HOD CSE

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Programme **ME CSE [Computer Science & Engineering]**
Subject **Distributed Computing**

Batch **2017**
Code **CSL4631** Semester **1**

Subject Assessment: Distributed Computing

#	Tools	Task	Task-Id	Marks	Wt (%)	Weighted Marks (%)
1	Internal	1	397	40	100	40
2	External	1	398	60	100	60

Course Outcome: Distributed Computing

SNo	Course Outcome	Wt(%)
CO1	Develop and apply knowledge of parallel and distributed computing skills and methodologies.	20
CO2	Apply design development and performance analysis of parallel and distributed applications.	20
CO3	Use the application of fundamental Computer Science methods and algorithms in the development of parallel applications.	20
CO4	Explain the design testing and performance analysis of a software system and to be able to communicate that design to others.	20
CO5	Develop and apply knowledge of parallel and distributed computing techniques and methodologies.	20

CO-PO Map: Distributed Computing

Course Outcome	PO0	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10
Develop and apply knowledge of parallel and distributed computing skills and methodologies.	-	-	-	-	-	-	-	-	-	M
Apply design development and performance analysis of parallel and distributed applications.	-	-	-	-	L	-	-	-	-	-
Use the application of fundamental Computer Science methods and algorithms in the development of parallel applications.	-	M	-	-	-	-	-	-	-	-
Explain the design testing and performance analysis of a software system and to be able to communicate that design to others.	H	-	-	-	-	-	-	-	-	-
Develop and apply knowledge of parallel and distributed computing techniques and methodologies.	-	L	-	-	-	-	-	-	-	-

Course Outcome Contribution in Each Question

Tool	Task No.	QNo	Marks	DL	BT Level	Percentage Contribution of Course Outcome
Internal	1	1	40	Easy	Remembering	CO1 [20], CO2 [20], CO3 [20], CO4 [20], CO5 [20],
External	1	1	60	Easy	Remembering	CO1 [20], CO2 [20], CO3 [20], CO4 [20], CO5 [20],

CO-Assessment-Marks: Distributed Computing

We would consider 40% weightage for Internal Marks and 60% weightage for external marks for calculating attainment level of Student Course Outcome. In case of either only internal or external components, we would consider 100%.

CO1: Develop and apply knowledge of parallel and distributed computing skills and methodologies.

#	RollNo	Internal-1[8]	External-1[12]	Total [20]	MO(%)	Scale
1	1710981001	6.8	8.6	15.4	77	3
2	1710981002	6.2	8.6	14.8	74	3
3	1710981003	6.8	9.2	16	80	3
4	1710981004	6.2	8	14.2	71	3
5	1710981005	7	8.4	15.4	77	3
6	1710981006	5.2	6.2	11.4	58	2
7	1710981007	5	6.6	11.6	58	2
8	M1711984001	7.2	9.6	16.8	85	3
9	M1711984002	5	7.8	12.8	64	3
10	M1711984003	7	6	13	65	3
11	M1711984004	7.4	10.2	17.6	89	3
12	M1711984005	5.6	10.4	16	80	3
13	M1711984006	6.4	8.2	14.6	73	3

CO Attainment on Scale of 3

2.85

Percentage of Students Scored above 60%

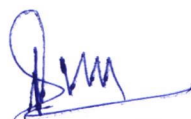
84.62

CO5: Develop and apply knowledge of parallel and distributed computing techniques and methodologies.

#	RollNo	Internal-1[8]	External-1[12]	Total [20]	MO(%)	Scale
1	1710981001	6.8	8.6	15.4	77	3
2	1710981002	6.2	8.6	14.8	74	3
3	1710981003	6.8	9.2	16	80	3
4	1710981004	6.2	8	14.2	71	3
5	1710981005	7	8.4	15.4	77	3
6	1710981006	5.2	6.2	11.4	58	2
7	1710981007	5	6.6	11.6	58	2
8	M1711984001	7.2	9.6	16.8	85	3
9	M1711984002	5	7.8	12.8	64	3
10	M1711984003	7	6	13	65	3
11	M1711984004	7.4	10.2	17.6	89	3
12	M1711984005	5.6	10.4	16	80	3
13	M1711984006	6.4	8.2	14.6	73	3

CO Attainment on Scale of 3	Percentage of Students Scored above 60%
2.85	84.62

Attainment on Scale of 3	Percentage Attainment
2.85	95.00



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