

in pods



-:RESOURCE PERSON:-

MR. AJAY BHAGWAT
DIRECTOR, INPODS INDIA

WORKSHOP ON CO-PO ATTAINMENT & COMPUTATION FOR ACTION PLAN

REGISTER HERE

DATE: 06TH FEBRUARY 2023 - 10TH FEBRUARY 2023
MODE: ONLINE, MICROSOFT TEAM, IIMTU MEERUT

ORGANIZED BY
**INTERNAL QUALIY ASSURANCE
CELL**
IIMT UNIVERSITY, MEERUT
IN ASSOCIATION WITH
INPODS, INDIA



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Ref.No: IIMTU/IQAC-QI-C/2022-23/04

Date: 02-02-2023

Internal Quality Assurance Cell (IQAC)

Notice

All the Deans/Principals/HODs of all the Schools of IIMTU, Meerut are hereby informed that, The Internal Quality Assurance Cell (IQAC) is organizing a highly informative and engaging five day workshop on the topic of 'CO-PO attainment and Computation for Action Plan' from 06th February 2023 to 10th February 2023 on Microsoft Team, IIMTU Meerut. This seminar aims to provide an in-depth understanding of the National Credit Framework (NCF) designed to fulfill the vision of NEP 2020 and its significance for HEIs.

The Schedule detail of the program is as follows:

- 06th February 2023-10:00am to 01:00pm
- 07th February 2023-10:00am to 01:00pm
- 08th February 2023-10:00am to 01:00pm
- 09th February 2023-10:00am to 01:00pm
- 10th February 2023-10:00am to 01:00pm

Major Areas to Cover:

1. The importance of CO-PO attainment in higher education
2. Understanding the computation process for CO-PO attainment
3. The role of CO-PO assessment in accreditation
4. Challenges faced in assessing COs and POs
5. Benefits of CO-PO assessment

Resource Person: Mr. Ajay Bhagwat, Director, Inpods India and Dr. Satish Kumar, Dean School of Commerce and Management and Coordinator IQAC


We cordially invite all faculty members to actively participate to gain valuable insights about the evolving landscape of credit-based education.

With Regards,


Coordinator/Director,
IQAC

Copy to:

1. Hon'ble Vice Chancellor
2. Registrar
3. All Deans/Principals/HODs


Registrar
IIMT University, Meerut
U.P. Act No. 32 of 2016





REPORT
Workshop on
'CO-PO Attainment and Computation for Action Plan'

Date: 06th February 2023 to 10th February 2023

Schedule:

- 06th February 2023-10:00am to 01:00pm
- 07th February 2023-10:00am to 01:00pm
- 08th February 2023-10:00am to 01:00pm
- 09th February 2023-10:00am to 01:00pm
- 10th February 2023-10:00am to 01:00pm

Mode: Microsoft Team, IIMTU, Meerut

Keynote Speaker: Ajay Bhagwat, Director, Inpods India & Computer and Mechanical Engineer

No. of Participants: 46

DETAILS:

We are delighted to inform you that the Internal Quality Assurance Cell (IQAC) organized a highly informative and engaging five day workshop on 'CO-PO attainment and Computation for Action Plan' from 06th February 2023 to 10th February 2023 in Seminar Hall Main Building, IIMTU Meerut. This workshop aims to provide an in-depth understanding of CO-PO attainment and Computation for Action Plan and its significance for HEIs.

Resource Person was Mr. Ajay Bhagwat, Director, Inpods India. Mr. Bhagwat brings extensive experience and expertise in the field, and participants can expect to gain valuable insights and practical knowledge through interactive sessions and hands-on activities. The following domains covered during the workshop:

1. The importance of CO-PO attainment in higher education: Explain why it is crucial for institutions to measure and improve the achievement of Course Outcomes (CO) and Program Outcomes (PO). Discuss how this assessment process helps ensure quality education and enhances student learning.



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2. Understanding the computation process for CO-PO attainment: Explore the different methods used to calculate CO-PO attainment, such as rubrics, surveys, and exams. Provide examples of how these calculations are performed to track student progress

3. The role of CO-PO assessment in accreditation: Discuss how measuring and improving COs and POs plays a vital role in the accreditation process for higher education institutions. Highlight the importance of meeting accreditation standards and how CO-PO assessment helps ensure compliance.

4. Challenges faced in assessing COs and POs: Analyze some common challenges that institutions face when assessing COs and POs, such as lack of standardized assessment methods or difficulties in aligning curriculum with outcomes. Explore potential solutions to these challenges and discuss how institutions can overcome them.

5. Benefits of CO-PO assessment: Explain the benefits that come with assessing COs and POs, such as identifying areas for improvement, enhancing student learning outcomes, and aligning educational programs with industry standards. Discuss how this assessment process contributes to institutional growth and success.

This workshop was very beneficial for all the participants and the vote of thanks was presented by Dr. Satish Kumar, Coordinator IQAC to the external speaker of the workshop.





CO-PO MATRIX



S. No.	Course Outcomes (CO)	POs	PSOs
CO1	Understand the concept of abstract machines and their power to recognize the languages	1,2,3,10,12	1,2,3
CO2	Employ finite state machines for modeling and solving computing problems.	1,2,3,4,5,10,12	1,2,3
CO3	Design context free grammars for formal languages.	1,2,3,4,5,10,12	1,2,3
CO4	Knowledge on converting Context-Free Grammars into pushdown automata to identify the acceptance of a string by the Context Free Language	1,2,3,4,5,10,12	1,2,3
CO5	Understand the power of the Turing Machine, as an abstract automaton, that describes computation, effectively and efficiently	1,2,3,4,5,10,12	1,2,3
CO6	Distinguish between decidability and undecidability	1,2,10,12	1,2,3

COs	Program Outcomes (POs)											
	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12
CO1	2	2	1	-	-	-	-	-	-	1	-	1
CO2	3	3	2	2	1	-	-	-	-	1	-	2
CO3	3	3	3	1	1	-	-	-	-	1	-	2
CO4	3	3	2	2	1	-	-	-	-	1	-	2
CO5	3	3	2	2	1	-	-	-	-	1	-	2
CO6	2	2	-	-	-	-	-	-	-	1	-	1
AVG	2.67	2.67	2.00	1.75	1.0	-	-	-	-	1.0	-	1.67

Justification: CO5 highly correlated to PO2 as it needs the mathematical analysis for TM



PSOs Attainment Results



Programme Outcomes (PSOs) Attainment:

$$PSO = (\text{Weighted Average value of } PSO * CO \text{ ATTAINMENT AVERAGE})/3$$

PSO Mapping				PSO Attainment Computation		PSO Attainment Results			
Course	PSO1	PSO2	PSO3	PO	Attainment level	Course	PSO1	PSO2	PSO3
CS404ES	3	2	2	PSO1	$(2.67*2.72)/3=2.42$	CS404ES	2.67	1.67	1.67
Weighted Average	2.67	1.67	1.67	PSO2	$(1.67*2.72)/3=1.51$	Attainment	2.42	1.51	1.51
				PSO3	$(1.67*2.72)/3=1.51$				

PSOs CORRECTIVE MEASURES

PO	Attainment	Action Plan
PSO1	2.42	<ul style="list-style-type: none"> More focus to clear basic fundamentals of students Co-Curricular activities to enrich knowledge and updating towards technology development Students are encouraged to listen video lectures provided from NPTEL Students are encouraged to Enroll NPTEL Online Certification exam course and to appear for certification exam
PSO2	1.51	<ul style="list-style-type: none"> More focus to clear basic fundamentals of computer system Understanding the assembling and disassembling of computer system and troubleshooting shooting of computer system in IT Workshop lab
PSO3	1.51	<ul style="list-style-type: none"> Develop software tool/product to run Automaton techniques to recognize formal languages automatically



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CERTIFICATE

The following awards are given to
Amit Kumar Maurya
SCHOOL OF AGRICULTURAL SCIENCE

For participating in the five days workshop on
'CO-PO attainment and Computation for Action Plan'
from 06th February 2023 to 10th February 2023


Director, Inpods


Director, IQAC



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CERTIFICATE

The following awards are given to
Kumar Siddharth
SCHOOL OF HOTEL MANAGEMENT, CATERING & TOURISM

For participating in the five days workshop on
'CO-PO attainment and Computation for Action Plan'
from 06th February 2023 to 10th February 2023


Director, Inpods


Director, IQAC