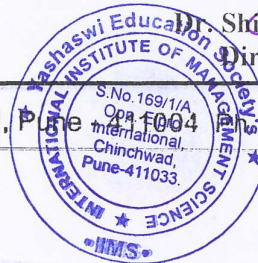




III. MCA Programme
Course Outcome Attainment of all Courses

Attainment Level	Ratings
0	No
1	Low
2	Medium
3	High

Programme		MCA (Batch 2021-23)	
Semester I	Course Code	Course Title	CO Attainment
	IT11	Java Programming	2.72
	IT12	Data Structure and Algorithms	2.77
	IT13	Object Oriented Software Engineering	2.65
	IT14	Operating System Concepts	2.72
	IT15	Network Technologies	2.73
	IT11L	Practical	2.71
	ITC11	Mini Project	2.60
Semester II	IT21	Python Programming	1.82
	IT22	Software Project Management	2.79
	IT23	Optimization Techniques	2.02
	IT24	Advanced Internet Technologies	2.48
	IT25	Advanced DBMS	2.28
	IT21L	Practical	2.33
	ITC21	Mini Project	2.51
Semester III	IT 31	Mobile Application Development	2.69
	IT 32	Data Warehousing and Data Mining	1.95
	IT 33	Software Testing and Quality Assurance	2.01
	IT 34	Knowledge Representation & Artificial Intelligence - ML, DL	2.43
	IT 35	Cloud Computing	1.95
	IT31L	Practical	2.33
	ITC 31	Mini Project	2.51
Semester IV	IT 41	DevOps	2.92
	BM41	PPM and OB	2.88
	ITC41	Project	2.98

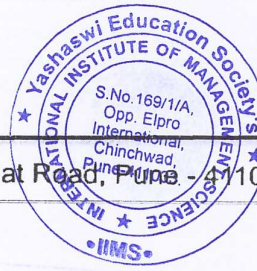


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Observations and Action taken on Course exit Survey

- The overall CO attainment throughout all Semesters is moderately consistent

Semester	Observations	Action Taken
I	<ul style="list-style-type: none"> More practical and project sessions need to be introduced to consolidate students' understanding in practical and project areas. 	<ul style="list-style-type: none"> Enhanced focus on Mini Project to improve the CO attainment
II	<ul style="list-style-type: none"> Python Programming CO attainment, indicating a need for better engagement and understanding. Software Project Management had the highest attainment, showing strong project management skills among students. 	<ul style="list-style-type: none"> Expert sessions and remedial classes are conducted on Python Programming to improve the hands-on programming skills.
III	<ul style="list-style-type: none"> Data Warehousing, Data Mining, and Cloud Computing have lower CO attainment, indicating difficulty in these advanced topics Mobile Application Development shows a higher CO attainment, reflecting good practical application skills. 	<ul style="list-style-type: none"> Conducted remedial classes and problem solving oriented sessions to bridge the gap in understanding complex topics like Data Mining and Cloud Computing
IV	<ul style="list-style-type: none"> The highest CO attainment across all semesters is observed in Semester IV 	<ul style="list-style-type: none"> Maintained the high standard of project-based learning and ensured mentorship in terms of internal mentor and industry mentors for projects in last semester.
Overall Recommendations	<ul style="list-style-type: none"> Introduce remedial classes and supplementary resources for courses with lower CO attainment Enhance interactive and practical learning methodologies to improve engagement and understanding Continuous monitoring and feedback from students to identify areas of improvement and adjust teaching methods accordingly. 	<ul style="list-style-type: none"> Effectiveness of remedial measures is considered in terms of result improvement and subject understanding. Industry mentor allocation and engagement improved the student's practical oriented learnings. Feedback of students is taken time to time.



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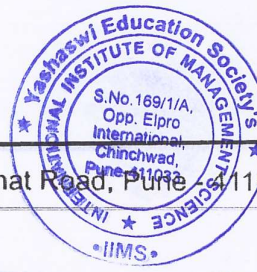
MCA Programme PO Attainment

1) Direct Attainment: Average of CO PO Attainment of All Courses

Attainment Level	Ratings
0	No
1	Low
2	Medium
3	High

CO PO Attainment of all Courses

Semster	Course Code	Course Title	CO-PO Attainment
Sem I	IT12	Data Structure and Algorithms	2.13
	IT11	Java Programming	2.17
	IT15	Network Technologies	2.12
	IT13	Object Oriented Software Engineering	2.30
	IT14	Operating System Concepts	2.37
	IT11L	Practical	2.22
	ITC11	Mini project	2.22
	Sem II	IT21	Python Programming
IT22		Software Project Management	2.78
IT23		Optimization Techniques	2.22
IT24		Advanced Internet Technologies	2.22
IT25		Advanced DBMS	2.22
IT21L		Practical	2.98
ITC21		Mini Project	2.98
Sem III		IT 31	Mobile Application Development
	IT 32	Data Warehousing and Data Mining	1.95
	IT 33	Software Testing and Quality Assurance	2.00
	IT 34	Knowledge Representation & Artificial Intelligence - ML, DL	2.44
	IT 35	Cloud Computing	2.22
	IT31L	Practical	2.98
	ITC 31	Mini Project	2.98
	Sem IV	IT 41	DevOps
BM41		PPM and OB	2.86
ITC41		Project	2.98
Average			2.45

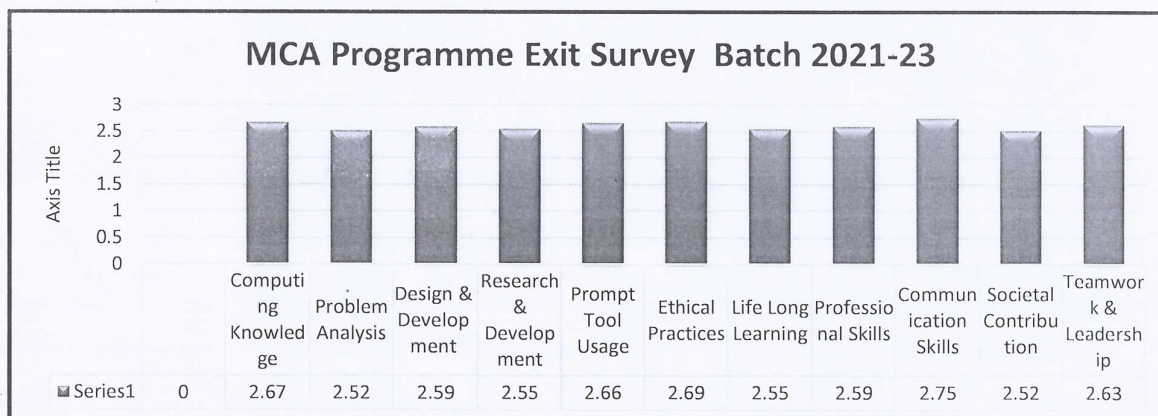


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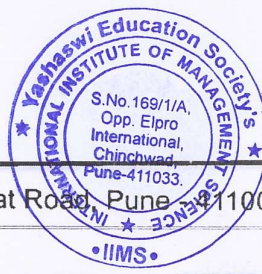
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2) Indirect Attainment: Programme Exit Survey

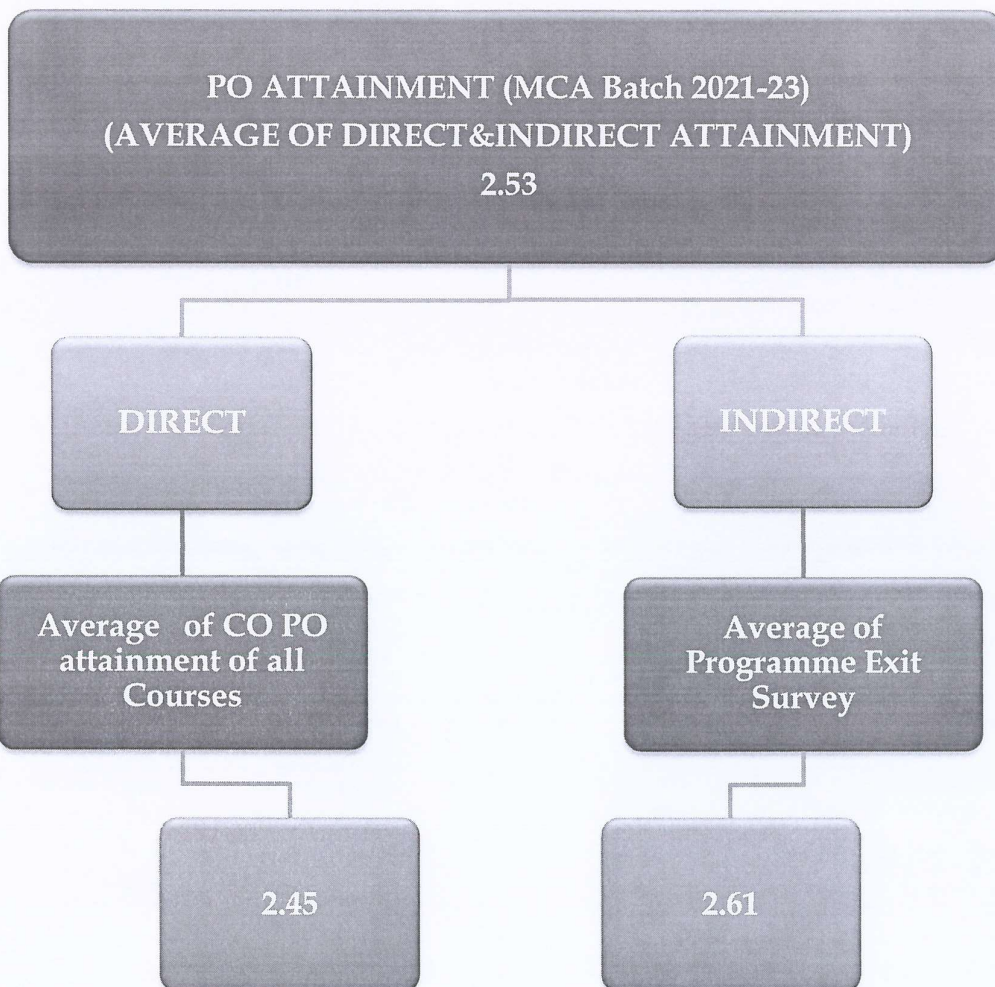
Programme Outcomes		Attainment
PO 1	Computing Knowledge	2.67
PO 2	Problem Analysis	2.52
PO 3	Design & Development	2.59
PO 4	Research & Development	2.55
PO 5	Prompt Tool Usage	2.66
PO 6	Ethical Practices	2.69
PO 7	Life Long Learning	2.55
PO 8	Professional Skills	2.59
PO 9	Communication Skills	2.75
PO 10	Societal Contribution	2.52
PO 11	Teamwork & Leadership	2.63
PO 12	Innovation & Sustainability	2.61
Average		2.61



Direct Attainment	Average of CO PO attainment of all Courses	2.45
Indirect Attainment	Average of Programme Exit Survey	2.61
PO Attainment	PO Attainment for Batch (2021-23)	2.53



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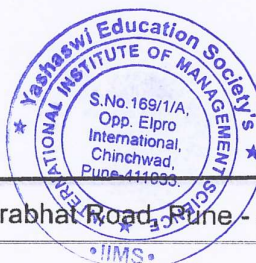



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Conclusion and Observations of Programme Exit Survey

Programme Outcomes		Conclusion /Observations
PO 1	Computing Knowledge	It has observed that students are able to apply the computing knowledge to the given problems and need which they have learned in their from syllabus towards high level of attainment.
PO 2	Problem Analysis	It has resulted has students can identify the various approached for solving various problems.
PO 3	Design & Development	MCA programme highly helpful for designing and development of specified needs for public health and safety, cultural, societal, and environmental considerations
PO 4	Research & Development	The research-based knowledge and methods learned by the students are useful at Moderate level.
PO 5	Prompt Tool Usage	It has resulted that students have applied the techniques and Tools during their MCA Programme
PO 6	Ethical Practices	MCA Programme is highly helpful for understating the cyber ethics norms.
PO 7	Life Long Learning	Life Long Learning is moderately useful for the students during their continual development
PO 8	Professional Skills	MCA Programme is fruitful for the development of professional skills in multidisciplinary environments
PO 9	Communication Skills	Students can highly communicate and present effectively in all aspects of computing activities.
PO 10	Societal Contribution	MCA programme is very helpful for Societal Contribution
PO 11	Teamwork & Leadership	It has observed that the teamwork and leadership qualities are highly build in MCA programme which are useful in professional computing practice.
PO 12	Innovation & Sustainability	For betterment of the individual and society MCA programme is moderately helpful in terms of Innovation & Sustainability.

Overall Conclusion: The MCA Programme in is helpful for the students in various aspects in terms of Medium , High, Medium to High rating for the various programme outcomes namely Computing Knowledge, Problem Analysis, Design & Development, Prompt Tool Usage, Ethical Practices, Life Long Learning, Professional Skills, Communication Skills, Teamwork & Leadership, Innovation & Sustainability. These skills helps students for achieving excellent academic performance as well as their IT profession carrier.



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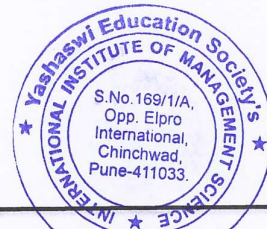
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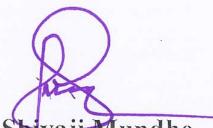
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Overall Observations and Action taken on PO Attainment

Observations	Action Taken
<ul style="list-style-type: none">Students are confident in their communication skills and ethical practices, and possess solid computing knowledge	<ul style="list-style-type: none">To enhance the communication skills in students institute introduced more soft skills trainings to make them ready for the industry.
<ul style="list-style-type: none">Problem Analysis and Societal Contribution represents show a need for improvement in students' abilities to analyze problems effectively and contribute to society	<ul style="list-style-type: none">Introduce more case studies and problem-solving sessions for the upcoming batches.Institute has established software development cell to resolve the real-world problems, projects and practical experience during their teaching learning problems.
<ul style="list-style-type: none">Innovation & Sustainability and teamwork shows Encourage group projects and team-based activities,	<ul style="list-style-type: none">Conduct regular surveys and feedback sessions to continuously monitor and improve the programme outcomesEngage alumni and industry professionals engagement should be focused.

By addressing the areas of improvement and building strengths, the programme can continue to evolve and better prepare students for their professional careers.




Dr. Shivaji Mundhe
Director – IIMS

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