



Dattakala Shikshan Sanstha's

DATTAKALA GROUP OF INSTITUTIONS

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Approved by AICTE - New Delhi, DTE - Mumbai, Recognized by Govt. of Maharashtra

Affiliated to Savitribai Phule Pune University, Pune and M.S.B.T.E., Mumbai

[DTE Code: 6628 | MSBTE Code: 1712 | AICTE ID: I-5986711 | AISHE Code: C-44576]

Department of MCA

Academic Year 2025-2026

CO PO Mapping & Attainment

Name of Staff	: Prof. More P.N
Designation	: Assistant Professor
Course Name	: Fundamentals of Cloud Computing
Course Code	: FCC510MJ
SEM	: I



Subject Name	Fundamentals of Cloud Computing
Subject Code	FCC510MJ
Faculty Name	Prof. More P.N

Acedemic Year	2025-26
Semester	1

S.NO	Course Outcomes	
CO1	Describe concepts of Cloud Computing, Dockers and Containers	
CO2	Explore Cloud Service Models and Deployment Models	
CO3	Implement virtualization concepts and hypervisors	
CO4	Describe Cloud Architecture and relate Cloud to SOA	
CO5	Compare various Cloud Platforms such as AWS, GCP and IBM Cloud	
S.NO	Programme Outcomes	
PO1	Computing Knowledge -Apply knowledge of computing fundamentals, computing specialization, mathematics, and domain knowledge appropriate for the computing specialization to the abstraction and conceptualization of computing models from defined problems and requirements. business issues	
PO2	Problem Analysis- Identify, formulate, research literature, and solve complex Computing problems reaching substantiated conclusions using fundamental principles of Mathematics, Computing sciences, and relevant domain disciplines.	
PO3	Design & Development- Design and evaluate solutions for complex computing problems, and design and evaluate systems, components, or processes that meet specified needs with appropriate consideration for public health and safety, cultural, societal, and environmental considerations.	
PO4	Research & Development -Use research-based knowledge and research methods including design of experiments, analysis and interpretation of data, and synthesis of information to provide valid conclusions.	
PO5	Prompt Tool Usage- Create, select, adapt and apply appropriate techniques, resources, and modern computing tools to complex computing activities, with an understanding of the limitations	
PO6	Ethical Practices- Understand and commit to professional ethics and cyber regulations, responsibilities, and norms of professional computing practice.	
PO7	Life Long Learning- Recognize the need, and have the ability, to engage in independent learning for continual development as a Computing professional.	
PO8	Professional Skills- Demonstrate knowledge and understanding of computing and management principles and apply these to one's own work, as a member and leader in a team, to manage projects and in	





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 | Email: dkgoi@dattakala.edu | Web: www.dattakala.edu.in | Contact No. 9673002923, 9673400500 |

Mapping /Alignment of CO's with PO's (Programme Articulation Matrix)												
	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12
CO1	3	2	1		2		1					
CO2	3	3	2	1	3		1					
CO3	3	3	3	2	3		1	2			2	
CO4	3	2	3	2	2	1	1	2	1	2	1	
CO5	3	3	2	2	3		2	1	1	1		2
Average	3.00	2.6	2.2	1.75	2.6	1	1.2	1.666667	1	1.5	1.5	2
CO*PO	3.00	2.60	2.20	1.75	2.60	1.00	1.20	1.66	1.00	1.50	1.50	2.00

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

Internal Assessment Type	Description	Marks		
		Assigned	Frequency	Weightage
Assignment	Understanding Of Topic & Content Quality	5	1	5
In Depth Viva	Skill ,Analytical Thinking ,Subject Knowledge,Particip	10	1	10
Case Study	real world software engineering Problems and propose	10	1	10





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Internal Evaluations

CO's * Assessment	Assignments	In Depth Viva	Case Study	0	Total Internal
CO1	1	1	1		3
CO2	0.5	2	2		4.5
CO3	1	2	2		5
CO4	2	3	3		8
CO5	0.5	2	2		4.5
Total	10	5	10	0	25

CO's * Assessment	Assignments	In Depth Viva	Case Study	0	0	0
CO1	0.1	0.2	0.1			
CO2	0.05	0.4	0.2			
CO3	0.1	0.4	0.2			
CO4	0.2	0.6	0.3			
CO5	0.05	0.4	0.2			
Total	0.5	2	1	0	0	0





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Seat No.	Name	Internals			Internal Total (25M)	CO1	CO2	CO3	CO4	CO5	External Total (50M)	CO1	CO2	CO3	CO4	CO5	Total
		In Depth Viva (5M)	Assign ment (10M)	Case Study (10M)													
16500	ADALINGE MAYUR BAPURAO	5	8	10	23	4.6	4.6	4.6	4.6	4.6	18	4	4	4	3	3	18
16502	ASHTEKAR NIKITA CHARUDATTA	5	9	10	24	4.8	4.8	4.8	4.8	4.8	18	4	4	4	3	3	18
16503	AUTI VAISHANAVI SANTOSH	4	8	10	22	4.4	4.4	4.4	4.4	4.4	18	4	4	4	3	3	18
16504	BAGADE ABHIJEET DHIRAJ	5	8	10	23	4.6	4.6	4.6	4.6	4.6	18	4	4	4	3	3	18
16505	BANGRE SNEHA MAHESH	5	9	10	24	4.8	4.8	4.8	4.8	4.8	19	4	4	4	4	3	19
16506	BANKAR PUNAM ANIL	4	7	10	21	4.2	4.2	4.2	4.2	4.2	18	4	4	4	3	3	18
16507	BANSODE ROHIT ABHIJIT	5	8	10	23	4.6	4.6	4.6	4.6	4.6	13	3	3	3	2	2	13
16508	BHALERAO ROHAN PRAFULLA	5	9	10	24	4.8	4.8	4.8	4.8	4.8	12	3	3	2	2	2	12
16509	BHANDARE PRERANA DILIP	4	8	10	22	4.4	4.4	4.4	4.4	4.4	18	4	4	4	3	3	18
16510	BHANGE KIRAN MAHADEV	4	8	10	22	4.4	4.4	4.4	4.4	4.4	13	3	3	3	2	2	13
16513	BHOSALE MINAKSHI SANTOSH	5	8	10	23	4.6	4.6	4.6	4.6	4.6	11	3	2	2	2	2	11
16514	BHOSALE SANDIP MAHADEV	5	8	10	23	4.6	4.6	4.6	4.6	4.6	12	3	3	2	2	2	12
16515	BHOSALE SHRIRAM ABHIMANYU	5	9	10	24	4.8	4.8	4.8	4.8	4.8	10	2	2	2	2	2	10
16516	BHOSALE SHRIYASH DATTATRAY	4	8	10	22	4.4	4.4	4.4	4.4	4.4	9	2	2	2	2	1	9
16517	BHOSALE SIDDHI AMBRUSHI	4	7	10	23	4.6	4.6	4.6	4.6	4.6	18	4	4	4	3	3	18
16518	BHOSALE SWAPNALI SAMBHAJI	5	9	10	24	4.8	4.8	4.8	4.8	4.8	22	5	5	4	4	4	22
16519	BHUBBAL SIDDHI MADHAV	4	7	10	21	4.2	4.2	4.2	4.2	4.2	18	4	4	4	3	3	18
16520	BODAKHE RUTUJA BAPU	5	8	10	23	4.6	4.6	4.6	4.6	4.6	11	3	2	2	2	2	11
16521	BORDE NIKITA JALINDAR	5	9	10	24	4.8	4.8	4.8	4.8	4.8	13	3	3	3	2	2	13
16522	CHAVAN DIPAK VISHWAS	4	8	10	22	4.4	4.4	4.4	4.4	4.4	9	2	2	2	2	1	9
16523	DALIMBE SHRADDHA AJAY	4	8	10	22	4.4	4.4	4.4	4.4	4.4	6	2	1	1	1	1	6
16525	DEVURKHE SNEHA SANTOSH	5	8	10	23	4.6	4.6	4.6	4.6	4.6	9	2	2	2	2	1	9
16526	DHANDE ROHIT NANA	5	8	10	23	4.6	4.6	4.6	4.6	4.6	9	2	2	2	2	1	9
16527	DHUMAL CHAITANYA SACHIN	5	9	10	24	4.8	4.8	4.8	4.8	4.8	12	3	3	2	2	2	12
16528	DHUMAL SANIKA SANDIP	4	8	10	22	4.4	4.4	4.4	4.4	4.4	18	4	4	4	3	3	18
16529	DHUMAL TEJAL RAJENDRA	5	8	10	23	4.6	4.6	4.6	4.6	4.6	18	4	4	4	3	3	18



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		In Depth Viva (5M)	Assignment (10M)	Case Study (10M)													
16530	GADADE ABHJEET RAJENDRA	5	9	10	24	4.8	4.8	4.8	4.8	4.8	20	4	4	4	4	4	20
16531	GADHAVE PRERANA NANASO	4	7	10	21	4.2	4.2	4.2	4.2	4.2	15	3	3	3	3	3	15
16532	GAIKWAD ASHWINI MAHADEV	5	8	10	23	4.6	4.6	4.6	4.6	4.6	18	4	4	4	4	4	18
16533	GAIKWAD MONIKA SHARAD	5	9	10	24	4.8	4.8	4.8	4.8	4.8	18	4	4	4	4	4	18
16534	GAIKWAD PAYAL DATTATRAY	4	8	10	22	4.4	4.4	4.4	4.4	4.4	12	3	3	2	2	2	12
16535	GAIKWAD SHIVAM HEMANT	4	8	10	22	4.4	4.4	4.4	4.4	4.4	18	4	4	4	4	4	18
16536	GALANDE DIVYA DADA	5	8	10	23	4.6	4.6	4.6	4.6	4.6	20	4	4	4	4	4	20
16537	GAWAND DIPALI LAXMAN	5	8	10	23	4.6	4.6	4.6	4.6	4.6	20	4	4	4	4	4	20
16538	GHADGE SHITAL NANA	5	9	10	24	4.8	4.8	4.8	4.8	4.8	0	0	0	0	0	0	0
16539	GHADGE SIDDHI DHANAJI	4	8	10	22	4.4	4.4	4.4	4.4	4.4	18	4	4	4	4	4	18
16540	GHOLVE AUDUMBAR ANIL	4	8	10	23	4.6	4.6	4.6	4.6	4.6	20	4	4	4	4	4	20
16541	GHULE TRUPTI RAMDAS	5	9	10	24	4.8	4.8	4.8	4.8	4.8	18	4	4	4	4	4	18
16542	GIRME KIRAN KAILAS	4	7	10	21	4.2	4.2	4.2	4.2	4.2	0	0	0	0	0	0	0
16543	GODAGE SIDDHI GANESH	5	8	10	23	4.6	4.6	4.6	4.6	4.6	27	6	6	5	5	5	27
16544	GODASE ARTI SATISH	5	9	10	24	4.8	4.8	4.8	4.8	4.8	21	5	4	4	4	4	21
16545	GODASE GAURI RAJENDRA	4	8	10	22	4.4	4.4	4.4	4.4	4.4	26	6	5	5	5	5	26
16546	GOPHANE RUTUJA RAJENDRA	4	8	10	22	4.4	4.4	4.4	4.4	4.4	22	5	5	4	4	4	22
16547	GORE SAMRUDDHI NARHARI	5	8	10	23	4.6	4.6	4.6	4.6	4.6	20	4	4	4	4	4	20
16548	GULAME HARSHAD BALU	5	8	10	23	4.6	4.6	4.6	4.6	4.6	14	3	3	3	3	3	14
16549	GULMAGAD PRUTHVIRAJ MOHAN	5	9	10	24	4.8	4.8	4.8	4.8	4.8	12	3	3	2	2	2	12
16550	GUNJAL JAYSHREE PRAKASH	4	7	10	21	4.2	4.2	4.2	4.2	4.2	19	4	4	4	4	4	19
16551	HARAL ADITYA KANBARAO	4	7	10	23	4.6	4.6	4.6	4.6	4.6	21	5	4	4	4	4	21
16552	HAVALDAR GAYTRI SANDIP	5	8	10	24	4.8	4.8	4.8	4.8	4.8	13	3	3	3	3	3	13
16553	HEGADE VIVEK MANIK	4	8	10	22	4.4	4.4	4.4	4.4	4.4	22	5	5	4	4	4	22
16554	HIRAVE SAYALI NITIN	4	8	10	22	4.4	4.4	4.4	4.4	4.4	18	4	4	4	4	4	18
16555	HOGALE NIKITA DNYANDEV	5	8	10	23	4.6	4.6	4.6	4.6	4.6	18	4	4	4	4	4	18





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		In Depth Viva (5M)	Assign ment (10M)	Case Study (10M)													
16556	HOLE RUTUJA GANESH	5	8	10	23	4.6	4.6	4.6	4.6	4.6	18	4	4	4	3	3	18
16557	HOLE YASH BHANUDAS	5	9	10	24	4.8	4.8	4.8	4.8	4.8	10	2	2	2	2	2	10
16558	HULAGE VAISHANAVI PRAMOD	4	8	10	22	4.4	4.4	4.4	4.4	4.4	0	0	0	0	0	0	0
16559	JADHAV ADITI JANARDAN	5	8	10	23	4.6	4.6	4.6	4.6	4.6	8	2	2	2	1	1	8
16560	JADHAV GAYATRI LAXMAN	5	9	10	24	4.8	4.8	4.8	4.8	4.8	20	4	4	4	4	4	20
16561	JADHAV LAXMAN BABAN	4	7	10	21	4.2	4.2	4.2	4.2	4.2	6	2	1	1	1	1	6
16563	JADHAV MITALI LALASAHEB	5	8	10	23	4.6	4.6	4.6	4.6	4.6	18	4	4	4	3	3	18
16564	JADHAV SAYALI RAJNARAYAN	5	9	10	24	4.8	4.8	4.8	4.8	4.8	18	4	4	4	3	3	18
16566	JAGTAP ADITYA JALINDAR	4	8	10	22	4.4	4.4	4.4	4.4	4.4	21	5	4	4	4	4	21
16567	JAGTAP GEETANJALI BHAGWAN	4	8	10	22	4.4	4.4	4.4	4.4	4.4	0	0	0	0	0	0	0
55568	JAGTAP PRAGATI SHAHAJI	5	8	10	23	4.6	4.6	4.6	4.6	4.6	20	4	4	4	4	4	20
6569	JAGTAP ROHIT SACHIN	5	8	10	23	4.6	4.6	4.6	4.6	4.6	14	3	3	3	3	2	14
6570	JAMBLE PRANAV DATTATRAY	5	9	10	24	4.8	4.8	4.8	4.8	4.8	9	2	2	2	2	1	9
6571	JARAD PRATIKSHA BALASO	5	8	10	23	4.6	4.6	4.6	4.6	4.6	20	4	4	4	4	4	20
5572	JATHAR MANISH SUNIL	5	9	10	24	4.8	4.8	4.8	4.8	4.8	19	4	4	4	4	3	19
6573	KADAM SANDIP SUNIL	4	7	10	21	4.2	4.2	4.2	4.2	4.2	20	4	4	4	4	4	20
6574	KADAM VAIBHAVI SANTOSH	5	8	10	23	4.6	4.6	4.6	4.6	4.6	19	4	4	4	4	3	19
6575	KAKADE AISHWARYA KAILAS	5	9	10	24	4.8	4.8	4.8	4.8	4.8	14	3	3	3	3	2	14
6576	KALDATE TUSHAR SATISH	4	8	10	22	4.4	4.4	4.4	4.4	4.4	14	3	3	3	3	2	14
6577	KALE NIKHIL RAMESH	4	8	10	22	4.4	4.4	4.4	4.4	4.4	20	4	4	4	4	4	20
6578	KALE SAKSHI VINAYAK	5	8	10	23	4.6	4.6	4.6	4.6	4.6	18	4	4	4	3	3	18
6579	KALE SHIVAM RAJENDRA	5	8	10	23	4.6	4.6	4.6	4.6	4.6	5	1	1	1	1	1	5
6580	KALE SNEHA KISHOR	5	9	10	24	4.8	4.8	4.8	4.8	4.8	20	4	4	4	4	4	20
6581	KALE SUPRIYA PARSHURAM	4	8	10	22	4.4	4.4	4.4	4.4	4.4	13	3	3	3	2	2	13
16582	KAMBLE AKASH SHRAVAN	5	8	10	23	4.6	4.6	4.6	4.6	4.6	2	1	1	1	0	0	2
16583	KAMBLE GAURI JITENDRA	5	9	10	24	4.8	4.8	4.8	4.8	4.8	8	2	2	2	1	1	8





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		In Depth Viva (5M)	Assign ment (10M)	Case Study (10M)														
16584	KANGUDE SAYALI SURESH	4	7	10	21	4.2	4.2	4.2	4.2	4.2	9	2	2	2	2	2	1	9
16585	KAPSE DIPALI ANIL	5	8	10	23	4.6	4.6	4.6	4.6	4.6	12	3	3	3	3	3	2	12
16586	KHABALE PATIL SHWETALI PRABHAKAR	5	9	10	24	4.8	4.8	4.8	4.8	4.8	21	5	4	4	4	4	4	21
16587	KHALATE SAKSHI UDAY	4	8	10	22	4.4	4.4	4.4	4.4	4.4	9	2	2	2	2	2	1	9
16588	KHALATE SIDDHI SOMNATH	4	8	10	22	4.4	4.4	4.4	4.4	4.4	18	4	4	4	4	4	3	18
16589	KHAMGAL BHAVANA KONDIBHAU	5	8	10	23	4.6	4.6	4.6	4.6	4.6	19	4	4	4	4	4	3	19
16590	KHANDEKAR CHAITANYA SUDHIR	5	8	10	23	4.6	4.6	4.6	4.6	4.6	18	4	4	4	4	4	3	18
16591	KHOMANE GAURI DATTATRAY	5	9	10	24	4.8	4.8	4.8	4.8	4.8	21	5	4	4	4	4	4	21
16592	KILOR APURVA DADARAO	5	8	10	23	4.6	4.6	4.6	4.6	4.6	19	4	4	4	4	4	3	19
16593	KOKARE BHUSHAN BALASO	5	9	10	24	4.8	4.8	4.8	4.8	4.8	7	2	2	2	1	1	1	7
16594	KOLAPKAR SANIKA GANESH	4	7	10	21	4.2	4.2	4.2	4.2	4.2	19	4	4	4	4	4	3	19
6595	KOLEKAR AMAR RAJENDRA	5	8	10	23	4.6	4.6	4.6	4.6	4.6	10	2	2	2	2	2	2	10
6596	KOLHE SARTHAK TUKARAM	5	9	10	24	4.8	4.8	4.8	4.8	4.8	20	4	4	4	4	4	4	20
6597	KORATKAR AKSHAY RAJENDRA	4	8	10	22	4.4	4.4	4.4	4.4	4.4	8	2	2	2	2	2	1	8
6598	KSHETRE APURV SANJAY	4	8	10	22	4.4	4.4	4.4	4.4	4.4	11	3	2	2	2	2	2	11
6599	KSHIRSAGAR ADIRAJ SHANKAR	5	8	10	23	4.6	4.6	4.6	4.6	4.6	9	2	2	2	2	2	1	9
6600	KULKARNI PIYUSH PADMAKAR	5	8	10	23	4.6	4.6	4.6	4.6	4.6	11	3	2	2	2	2	2	11
6601	KUMBHAR NIKITA SHIVAJI	5	9	10	24	4.8	4.8	4.8	4.8	4.8	20	4	4	4	4	4	4	20
6602	LAKADE SHRADDHA KUNDAN	4	8	10	22	4.4	4.4	4.4	4.4	4.4	12	3	3	3	3	3	2	12
6603	LAMBHATE PRERANA UMESH	5	8	10	23	4.6	4.6	4.6	4.6	4.6	13	3	3	3	3	3	2	13
6604	LAVAND MAYURI NANASO	5	9	10	24	4.8	4.8	4.8	4.8	4.8	19	4	4	4	4	4	3	19
6605	LENGARE AMOL BIRUDEV	4	7	10	21	4.2	4.2	4.2	4.2	4.2	19	4	4	4	4	4	3	19
6606	LILHARE HEENA PAVAN	5	8	10	23	4.6	4.6	4.6	4.6	4.6	18	4	4	4	4	4	3	18
6607	MAHADIK ANUSHKA ANIL	5	9	10	24	4.8	4.8	4.8	4.8	4.8	12	3	3	3	3	3	2	12
6608	MAHALINGE OMKAR MOHAN	4	8	10	22	4.4	4.4	4.4	4.4	4.4	10	2	2	2	2	2	2	10
6609	MAHAMUNI ANIKET DNYANESHWAR	4	8	10	22	4.4	4.4	4.4	4.4	4.4	12	3	3	3	3	3	2	12



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| Email: dkgoi@dattakala.edu | Web: www.dattakala.edu.in | Contact No. 9673002923, 9673400500 |

Seat No.	Name	Internals			Internal Total (25M)	CO1	CO2	CO3	CO4	CO5	External Total (50M)	CO1	CO2	CO3	CO4	CO5	Total
		In Depth Viva (5M)	Assign ment (10M)	Case Study (10M)													
16610	MAHAMUNI SAURABH GOVIND	5	8	10	23	4.6	4.6	4.6	4.6	4.6	18	4	4	4	3	3	18
16611	MANE PRANIL PRABHAAR	5	8	10	23	4.6	4.6	4.6	4.6	4.6	0	0	0	0	0	0	0
16613	MANE YASHSHRI DADASO	5	9	10	24	4.8	4.8	4.8	4.8	4.8	19	4	4	4	4	3	19
16614	MARALE SURAJ RAVINDRA	5	8	10	23	4.6	4.6	4.6	4.6	4.6	9	2	2	2	2	1	9
16615	MODHALE UTKARSHA SANJAY	5	9	10	24	4.8	4.8	4.8	4.8	4.8	15	3	3	3	3	3	15
16616	MOHITE SHIVRAJ GAJANAN	4	7	10	21	4.2	4.2	4.2	4.2	4.2	18	4	4	4	4	3	18
16617	MOKASHI PRAJWAL RAHUL	5	8	10	23	4.6	4.6	4.6	4.6	4.6	13	3	3	3	2	2	13
16618	MORE PRAJWAL VIKAS	5	9	10	24	4.8	4.8	4.8	4.8	4.8	13	3	3	3	2	2	13
16619	MULAY MAHENDRA PRAVIN	4	8	10	22	4.4	4.4	4.4	4.4	4.4	15	3	3	3	3	3	15
16620	NAGARE MADHURI SAMPAT	4	8	10	22	4.4	4.4	4.4	4.4	4.4	18	4	4	4	3	3	18
16621	NALE SHIVANI SANDIP	5	8	10	23	4.6	4.6	4.6	4.6	4.6	25	5	5	5	5	5	25
16622	NANAVARE KISHOR SUKHADEV	5	8	10	23	4.6	4.6	4.6	4.6	4.6	19	4	4	4	4	3	19
16624	NARUTE PRATIKSHA ASHOK	5	9	10	24	4.8	4.8	4.8	4.8	4.8	19	4	4	4	4	3	19
16625	NAZIRKAR SIDDHI TANAJI	4	8	10	22	4.8	4.8	4.8	4.8	4.8	18	4	4	4	3	3	18
16626	NIMBALKAR KIRAN KANTILAL	5	8	10	23	4.4	4.4	4.4	4.4	4.4	4	1	1	1	1	0	4
16627	NIMBHORE NIKITA SAMPAT	5	9	10	24	4.6	4.6	4.6	4.6	4.6	18	4	4	4	3	3	18
16628	NIMBHORE SOHAM RAJENDRA	4	7	10	21	4.4	4.4	4.4	4.4	4.4	13	3	3	3	2	2	13
16629	PADWAL PRITI SANJAY	5	8	10	23	4.8	4.8	4.8	4.8	4.8	20	4	4	4	4	4	20
16630	PADWAL RUTIK TANAJI	5	9	10	24	4.8	4.8	4.8	4.8	4.8	9	2	2	2	2	1	9
16631	PALASE SAMARTH GAJANAN	4	8	10	22	4.4	4.4	4.4	4.4	4.4	18	4	4	4	3	3	18
16632	PALAVE VISHAL PANDURANG	4	8	10	22	4.6	4.6	4.6	4.6	4.6	9	2	2	2	2	1	9
16633	PANDULE SIMARAN HARIBHAU	5	8	10	23	4.6	4.6	4.6	4.6	4.6	10	2	2	2	2	2	10
16634	PATIL AJAY BALASAHEB	5	8	10	23	4.6	4.6	4.6	4.6	4.6	0	0	0	0	0	0	0
16635	PATIL MEGHA DNYANESHWAR	5	9	10	24	4.8	4.8	4.8	4.8	4.8	22	5	5	5	4	4	22
16636	PATIL SHREEKAR RAMCHANDRA	5	8	10	23	4.6	4.6	4.6	4.6	4.6	20	4	4	4	4	4	20
16637	PATIL SHUBHANGI SAMADHAN	5	9	10	24	4.8	4.8	4.8	4.8	4.8	18	4	4	4	3	3	18



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Seat No.	Name	Internals			Internal Total (25M)	CO1	CO2	CO3	CO4	CO5	Extern al Total (50M)	CO1					T
		In Depth Viva (5M)	Assign ment (10M)	Case Study (10M)								CO1	CO2	CO3	CO4	CO5	
16638	PATIL VIJAYKUMAR SAMBHAI	4	7	10	21	4.2	4.2	4.2	4.2	4.2	13	3	3	3	2	2	
16639	PATIL VITTHAL AJINATH	5	8	10	23	4.6	4.6	4.6	4.6	4.6	22	5	5	4	4	4	
16640	PAWAR AARTI AJIT	5	9	10	24	4.8	4.8	4.8	4.8	4.8	18	4	4	4	3	3	
16641	PAWAR PALLAVI DILIP	4	8	10	22	4.4	4.4	4.4	4.4	4.4	0	0	0	0	0	0	
16642	PETKAR PUNAM ANIL	4	8	10	23	4.6	4.6	4.6	4.6	4.6	9	2	2	2	2	1	
16643	PHADATARE SAURABH HANUMANT	5	8	10	23	4.6	4.6	4.6	4.6	4.6	13	3	3	3	3	2	
16644	PISAL ABHISHEK HANUMANT	5	8	10	24	4.8	4.8	4.8	4.8	4.8	15	3	3	3	3	3	
16645	POKALE MAYURI PRAKASHRAO	5	9	10	22	4.4	4.4	4.4	4.4	4.4	18	4	4	4	3	3	
16646	PUKALE VITTHAL BABASAHEB	4	8	10	23	4.6	4.6	4.6	4.6	4.6	13	3	3	3	2	2	
16647	RANANAVARE SNEHAL SANJAY	5	8	10	24	4.8	4.8	4.8	4.8	4.8	0	0	0	0	0	0	
16648	RAUT ALOK MACHINDRA	4	7	10	21	4.2	4.2	4.2	4.2	4.2	21	5	4	4	4	4	
16649	RAUT ANIKET HANUMANT	5	8	10	23	4.6	4.6	4.6	4.6	4.6	23	5	5	5	4	4	
16650	SALUNKHE MANSI MADHUKAR	5	9	10	24	4.8	4.8	4.8	4.8	4.8	21	5	4	4	4	4	
16651	SATAV PRAKISHA GANESH	4	8	10	22	4.4	4.4	4.4	4.4	4.4	20	4	4	4	4	4	
16652	SAWANT DIVYA SANJAY	4	8	10	22	4.4	4.4	4.4	4.4	4.4	20	4	4	4	4	4	
16653	SAWANT ANKITA LAHU	4	8	10	23	4.6	4.6	4.6	4.6	4.6	18	4	4	4	3	3	
16654	SAVVAD AMAN ASLAM	5	8	10	23	4.6	4.6	4.6	4.6	4.6	0	0	0	0	0	0	
16655	SHAIKH ALISHA AUJI	5	8	10	24	4.8	4.8	4.8	4.8	4.8	9	2	2	2	2	1	
16657	SHELAR SAURABH ANIL	5	8	10	23	4.6	4.6	4.6	4.6	4.6	0	0	0	0	0	0	
16658	SHELKE PRERANA DASHRATH	5	9	10	24	4.8	4.8	4.8	4.8	4.8	22	5	5	4	4	4	
16659	SHENDE MEGHA BAPURAO	4	7	10	21	4.2	4.2	4.2	4.2	4.2	29	6	6	6	6	5	
16660	SHENDGE PRIYA DADASO	5	8	10	23	4.6	4.6	4.6	4.6	4.6	13	3	3	3	2	2	
16661	SHINDE NIKHIL KRISHNA	5	9	10	24	4.8	4.8	4.8	4.8	4.8	18	4	4	4	3	3	
16662	SHINDE PAYAL RAMESH	4	8	10	22	4.4	4.4	4.4	4.4	4.4	13	3	3	3	2	2	
16663	SHINDE PRAATHAMESH AGATRAO	4	8	10	22	4.4	4.4	4.4	4.4	4.4	12	3	3	2	2	2	
16664	SHINDE PRIYA SANTOSH	5	8	10	22	4.4	4.4	4.4	4.4	4.4							

Name	Internals			Internal Total (25M)	CO1	CO2	CO3	CO4	CO5	External Total (50M)	CO1	CO2	CO3	CO4	CO5	Total
	In Depth Viva (5M)	Assign ment (10M)	Case Study (10M)													
HINDE ROHINI HARIBHAU	5	8	10	23	4.6	4.6	4.6	4.6	4.6	9	2	2	2	2	1	9
HINDE SAYALI VISHWAS	5	9	10	23	4.6	4.6	4.6	4.6	4.6	23	5	5	5	4	4	23
HINDE SONIYA SHAHAJI	4	8	10	24	4.8	4.8	4.8	4.8	4.8	22	5	5	4	4	4	22
SINGARE AKSHAY AJAYKUMAR	5	8	10	22	4.4	4.4	4.4	4.4	4.4	23	5	5	5	4	4	23
SUNE SANSKRUTI SANDIP	4	8	10	23	4.6	4.6	4.6	4.6	4.6	23	5	5	5	4	4	23
SUPEKAR KAJAL RAJENDRA	5	9	10	24	4.8	4.8	4.8	4.8	4.8	20	4	4	4	4	4	20
SURAVASE TUKARAM MADHUKAR	4	7	10	21	4.2	4.2	4.2	4.2	4.2	0	0	0	0	0	0	0
TAMHANE MADHURI DADASO	5	8	10	23	4.6	4.6	4.6	4.6	4.6	18	4	4	4	3	3	18
TAWARE ASHWINI VIJAY	5	9	10	24	4.8	4.8	4.8	4.8	4.8	13	3	3	3	2	2	13
TAWARE AYUSH MILIND	4	8	10	22	4.4	4.4	4.4	4.4	4.4	19	4	4	4	4	3	19
TEKALE AMOL BABASO	4	8	10	22	4.4	4.4	4.4	4.4	4.4	24	5	5	5	5	4	24
THORAT GITANJALI VINAYAK	5	8	10	23	4.6	4.6	4.6	4.6	4.6	27	6	6	5	5	5	27
THORAT SIDDHI MANOJ	5	8	10	23	4.6	4.6	4.6	4.6	4.6	24	5	5	5	5	4	24
THOTE ARATI DNYANESHWAR	5	9	10	24	4.8	4.8	4.8	4.8	4.8	22	5	5	5	4	4	22
TURE GOVIND SHANKAR	5	9	10	24	4.8	4.8	4.8	4.8	4.8	18	4	4	4	3	3	18
UKIRDE SIMARAN SATISH	4	8	10	22	4.4	4.4	4.4	4.4	4.4	13	3	3	3	2	2	13
VAREKAR JOTIRAM DATTATRAY	5	8	10	23	4.6	4.6	4.6	4.6	4.6	22	5	5	4	4	4	22
WAVHARE ARATI SUNIL	4	8	10	22	4.4	4.4	4.4	4.4	4.4	18	4	4	4	3	3	18
WAGHMODE AKASH BIRA	5	9	10	24	4.8	4.8	4.8	4.8	4.8	18	4	4	4	3	3	18



Internal Attainment						
Level of Attainment & of attainment	3	3	3	3	3	3
Total Students	1	1	1	1	1	1
No. above Expected	184	184	184	184	184	184
Expected Marks	184	184	184	184	184	184
Expected % secured	1.5	2.25	2.5	2.5	4	2.25
	50%					

External Attainment						
Level of Attainment & of attainment	0	0	0	0	0	#DIV/0!
Total Students	0.15429	0.11429	0.06286	0.04	0.02857	#DIV/0!
No. above Expected	175	175	175	175	175	0
Expected Marks	27	20	11	7	5	0
Expected % secured	5	5	5	5	5	0
	0.5					

	Direct Attainment	
	Internal	Internal
C01	3	3
C02	3	3
C03	3	3
C04	3	3
C05	3	3
Average	3	3
Weightage	100%	0%
Attainment	3	0





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Approved by AICTE - New Delhi, DTE - Mumbai, Recognized by Govt. of Maharashtra

Affiliated to Savitribai Phule Pune University, Pune and M.S.B.T.E., Mumbai

| DTE Code: 6628 | MSBTE Code: 1712 | AICTE ID: 1-5986711 | AISHE Code: C-44576 |

Department of MCA

Academic Year 2025-2026

CO PO Mapping & Attainment

Name of Staff	: Prof.Nimbhore S.M
Designation	:Assistant Professor
Course Name	: Software Engineering and Project Management
Course Code	: SEP505MJ
SEM	: I



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Subject Name	Software Engineering and Project Management
Subject Code	SEP505MJ
Faculty Name	Prof. Nimbhore S.M
Acedemic Year	2025-26
Semester	1

S.NO	Course Outcomes
CO1	Apply concepts, principles of software engineering to develop comprehensive Software Requirement Specification.
CO2	Use software engineering analysis and design modelling technique
CO3	Illustrate Software Project Management models for effective plan,
CO4	Implement Agile methodologies to enhance project adaptability and responsiveness to changing requirements.
CO5	Employ Agile tools effectively to manage, navigate and facilitate collaboration and streamline project workflows in software development.
S.NO	Programme Outcomes
PO1	Computing Knowledge - Apply knowledge of computing fundamentals, computing specialization, mathematics, and domain knowledge appropriate for the computing specialization to the abstraction and conceptualization of computing models from defined problems and requirements. business issues
PO2	Problem Analysis- Identify, formulate, research literature, and solve complex Computing problems reaching substantiated conclusions using fundamental principles of Mathematics, Computing sciences, and relevant domain disciplines.
PO3	Design & Development- Design and evaluate solutions for complex computing problems, and design and evaluate systems, components, or processes that meet specified needs with appropriate consideration for public health and safety, cultural, societal, and environmental considerations.
PO4	Research & Development - Use research-based knowledge and research methods including design of experiments, analysis and interpretation of data, and synthesis of information to provide valid conclusions.
PO5	Prompt Tool Usage- Create, select, adapt and apply appropriate techniques, resources, and modern computing tools to complex computing activities, with an understanding of the limitations
PO6	Ethical Practices- Understand and commit to professional ethics and cyber regulations, responsibilities, and norms of professional computing practice.
PO7	Life Long Learning- Recognize the need, and have the ability, to engage in independent learning for continual development as a Computing professional.
PO8	Professional Skills- Demonstrate knowledge and understanding of computing and management principles and apply these to one's own work, as a member and leader in a team, to manage projects and in
PO9	Communication Skills- Communicate effectively with the computing community, and with society at large, about complex computing activities by being able to comprehend and write effective reports, design documentation, make effective presentations, and give and understand clear instructions.



Mapping /Alignment of CO's with PO's (Programme Articulation Matrix)												
	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12
CO1	3	2	2	1								
CO2	2	3	3	1								
CO3	2	2	3	1								
CO4	2	2	3					3	2		2	
CO5	1	1	2		2		1	2	2		2	
Average	2.00	2		1	3	1	1	3	2		2	1
CO*PO	0.00	0.00	2.6	1	2.5	1	1	2.666667	2	#DIV/0!	2	1
			0.00	0.00	0.00	0.00	0.00	0.00	0.00	#DIV/0!	0.00	0.00

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

Internal Assessment Type	Description	Marks Assigned	Frequency	Weightage
Assignment	Understanding Of Topic & Content Quality	5	1	5
In Depth Viva	ation Skill ,Analytical Thinking ,Subject Knowledge,Participation.	10	1	10
Case Study	alyze real world software engineering Problems and propose effect	10	1	10



Internal Evaluations					
CO's * Assessment	Assignments	In Depth Viva	Case Study	0	Total Internal
CO1	1	1	1		3
CO2	0.5	2	2		4.5
CO3	1	2	2		5
CO4	2	3	3		8
CO5	0.5	2	2		4.5
Total	10	5	10	0	25

CO's * Assessment	Assignments	In Depth Viva	Case Study	0	0	0
CO1	0.1	0.2	0.1			
CO2	0.05	0.4	0.2			
CO3	0.1	0.4	0.2			
CO4	0.2	0.6	0.3			
CO5	0.05	0.4	0.2			
Total	0.5	2	1	0	0	0



Name	Internals			Internal Total (25M)	CO1	CO2	CO3	CO4	CO5	Total	External Total	CO1	CO2	CO3	CO4	CO5	Total
	In Depth Viva (5M)	Assignme nt (10M)	Case Study (10M)														
ADALINGE MAYUR BAPURAO	4	10	10	24	3.4	6.2	6.4	9.8	6.2	32	10	2	2	2	2	2	10
1 AJABE SHIVAM NAGNATH	4	9	9	22	3.1	5.6	5.8	8.9	5.6	29	11	2.2	2.2	2.2	2.2	2.2	11
2 ASHTEKAR NIKITA CHARUDATTA	5	7	9	21	2.8	4.85	5.1	7.9	4.85	25.5	18	3.6	3.6	3.6	3.6	3.6	18
3 AUTI VAISHANAVI SANTOSH	4	10	10	24	3.4	6.2	6.4	9.8	6.2	32	18	3.6	3.6	3.6	3.6	3.6	18
4 BAGADE ABHIJEET DHIRAJ	5	8	9	22	3	5.25	5.5	8.5	5.25	27.5	16	3.2		3.2	3.2	3.2	12.8
5 BANGRE SNEHA MAHESH	4	9	9	22	3.1	5.6	5.8	8.9	5.6	29	31	6.2	6.2	6.2	6.2	6.2	31
6 BANKAR PUNAM ANIL	5	7	9	21	2.8	4.85	5.1	7.9	4.85	25.5	21	4.2	4.2	4.2	4.2	4.2	21
7 BANSODE ROHIT ABHIJIT	4	9	9	22	3.1	5.6	5.8	8.9	5.6	29	18	3.6	3.6	3.6	3.6	3.6	18
8 BHALERAO ROHAN PRAFULLA	4	9	10	23	3.2	5.8	6	9.2	5.8	30	18	3.6	3.6	3.6	3.6	3.6	18
9 BHANDARE PRERANA DILIP	5	9	7	21	3	5.25	5.5	8.5	5.25	27.5	22	4.4	4.4	4.4	4.4	4.4	22
10 BHANGE KIRAN MAHADEV	4	10	9	23	3.3	6	6.2	9.5	6	31	21	4.2	4.2	4.2	4.2	4.2	21
11 BHOITE JAYRAJ SANTOSH	5	10	9	24	3.4	6.05	6.3	9.7	6.05	31.5	18	3.6	3.6	3.6	3.6	3.6	18
12 BHOSALE ANUSHKA POPAT	4	9	9	22	3.1	5.6	5.8	8.9	5.6	29	20	4	4	4	4	4	20
13 BHOSALE MINAKSHI SANTOSH	5	10	9	24	3.4	6.05	6.3	9.7	6.05	31.5	18	3.6	3.6	3.6	3.6	3.6	18
14 BHOSALE SANDIP MAHADEV	5	9	9	23	3.2	5.65	5.9	9.1	5.65	29.5	21	4.2	4.2	4.2	4.2	4.2	21
15 BHOSALE SHRIRAM ABHIMANYU	5	8	9	22	3	5.25	5.5	8.5	5.25	27.5	20	4	4	4	4	4	20
16 BHOSALE SHRIYASH DATTATRAY	5	9	10	24	3.3	5.85	6.1	9.4	5.85	30.5	7	1.4	1.4	1.4	1.4	1.4	7
17 BHOSALE SIDDHI AMBRUSHI	5	9	8	22	3.1	5.45	5.7	8.8	5.45	28.5	24	4.8	4.8	4.8	4.8	4.8	24
18 BHOSALE SWAPNALI SAMBHAJI	4	9	10	23	3.2	5.8	6	9.2	5.8	30	21	4.2	4.2	4.2	4.2	4.2	21
19 BHUJBAL SIDDHI MADHAV	4	8	9	21	2.9	5.2	5.4	8.3	5.2	27	25	5	5	5	5	5	25
20 BODAKHE RUTUJA BAPU	5	8	9	22	3	5.25	5.5	8.5	5.25	27.5	12	2.4	2.4	2.4	2.4	2.4	12
21 BORDE NIKITA JALINDAR	4	10	9	23	3.3	6	6.2	9.5	6	31	18	3.6	3.6	3.6	3.6	3.6	18
22 CHAVAN DIPAK VISHWAS	5	8	9	22	3	5.25	5.5	8.5	5.25	27.5	18	3.6	3.6	3.6	3.6	3.6	18
23 DALIMBE SHRADDHA AJAY	5	9	9	23	3.2	5.65	5.9	9.1	5.65	29.5	6	1.2	1.2	1.2	1.2	1.2	6
24 DESHMANE SHIVAM SANJAY	4	9	9	22	3.1	5.6	5.8	8.9	5.6	29	4	0.8	0.8	0.8	0.8	0.8	4
25 DEVURKHE SNEHA SANTOSH	4	9	8	21	3	5.4	5.6	8.6	5.4	28	6	1.2	1.2	1.2	1.2	1.2	6
26 DHANDE ROHIT NANA	5	10	9	24	3.4	6.05	6.3	9.7	6.05	31.5	5	1	1	1	1	1	5
27 DHUMAL CHAITANYA SACHIN	5	9	10	24	3.3	5.85	6.1	9.4	5.85	30.5	15	3	3	3	3	3	15
28 DHUMAL SANIKA SANDIP	5	9	10	24	3.3	5.85	6.1	9.4	5.85	30.5	18	3.6	3.6	3.6	3.6	3.6	18
29 DHUMAL TEJAL RAJENDRA	5	9	10	24	3.3	5.85	6.1	9.4	5.85	30.5	24	4.8	4.8	4.8	4.8	4.8	24
30 GADADE ABHIJEET RAJENDRA	4	10	9	23	3.3	5.85	6.1	9.4	5.85	30.5	24	4.8	4.8	4.8	4.8	4.8	24
31 GADHAVE PRERANA NANASO	5	10	9	24	3.4	6.05	6.3	9.7	6.05	31.5	18	3.6	3.6	3.6	3.6	3.6	18
32 GAIKWAD ASHWINI MAHADEV	5	10	9	24	3.4	6.05	6.3	9.7	6.05	31.5	27	5.4	5.4	5.4	5.4	5.4	27



Seat No.	Name	Internals			Internal Total (25M)	CO1	CO2	CO3	CO4	CO5	Total	External					Total		
		In Depth Viva (5M)	Assignme nt (10M)	Case Study (10M)								Total End	Term	Exam	CO1	CO2		CO3	CO4
16533	GAIKWAD MONIKA SHARAD	5	9	9	23	3.2	5.65	5.9	9.1	5.65	29.5	18	3.6	3.6	3.6	3.6	3.6	3.6	18
16534	GAIKWAD PAYAL DATTATRAY	5	10	9	24	3.4	6.05	6.3	9.7	6.05	31.5	18	3.6	3.6	3.6	3.6	3.6	3.6	18
16535	GAIKWAD SHIVAM HEMANT	5	10	9	24	3.4	6.05	6.3	9.7	6.05	31.5	20	4	4	4	4	4	4	20
16536	GALANDE DIVYA DADA	5	10	9	24	3.4	6.05	6.3	9.7	6.05	31.5	24	4.8	4.8	4.8	4.8	4.8	4.8	24
16537	GAWAND DIPALI LAXMAN	5	10	9	24	3.4	6.05	6.3	9.7	6.05	31.5	24	4.8	4.8	4.8	4.8	4.8	4.8	24
16538	GHADGE SHITAL NANA	5	8	10	23	3.1	5.45	5.7	8.8	5.45	28.5	0	0	0	0	0	0	0	0
16539	GHADGE SIDDHI DHANAJI	5	8	10	23	3.1	5.45	5.7	8.8	5.45	28.5	10	2	2	2	2	2	2	10
16540	GHOLVE AUDUMBAR ANIL	5	8	8	21	2.9	5.05	5.3	8.2	5.05	26.5	18	3.6	3.6	3.6	3.6	3.6	3.6	18
16541	GHULE TRUPTI RAMDAS	4	9	9	22	3.1	5.6	5.8	8.9	5.6	29	18	3.6	3.6	3.6	3.6	3.6	3.6	18
16542	GIRME KIRAN KAILAS	5	10	9	24	3.4	6.05	6.3	9.7	6.05	31.5	0	0	0	0	0	0	0	0
16543	GODAGE SIDDHI GANESH	5	9	9	23	3.2	5.65	5.9	9.1	5.65	29.5	19	3.8	3.8	3.8	3.8	3.8	3.8	19
16544	GODASE ARTI SATISH	5	9	9	23	3.2	5.65	5.9	9.1	5.65	29.5	20	4	4	4	4	4	4	20
16545	GODASE GAURI RAJENDRA	5	9	9	23	3.2	5.65	5.9	9.1	5.65	29.5	23	4.6	4.6	4.6	4.6	4.6	4.6	23
16546	GOPHANE RUTUJA RAJENDRA	5	9	10	24	3.3	5.85	6.1	9.4	5.85	30.5	18	3.6	3.6	3.6	3.6	3.6	3.6	18
16547	GORE SAMRUDDHI NARHARI	5	10	9	24	3.4	6.05	6.3	9.7	6.05	31.5	18	3.6	3.6	3.6	3.6	3.6	3.6	18
16548	GULAME HARSHAD BALU	3	9	9	21	3	5.55	5.7	8.7	5.55	28.5	18	3.6	3.6	3.6	3.6	3.6	3.6	18
16549	GULDAGAD PRUTHVIRAJ MOHA	4	8	8	20	2.8	5	5.2	8	5	26	13	2.6	2.6	2.6	2.6	2.6	2.6	13
16550	GUNJAL JAYSHREE PRAKASH	4	9	8	21	3	5.4	5.6	8.6	5.4	28	18	3.6	3.6	3.6	3.6	3.6	3.6	18
16551	HARAL ADITYA KANBARAO	5	10	9	24	3.4	6.05	6.3	9.7	6.05	31.5	24	4.8	4.8	4.8	4.8	4.8	4.8	24
16552	HAVALDAR GAYTRI SANDIP	5	9	9	23	3.2	5.65	5.9	9.1	5.65	29.5	18	3.6	3.6	3.6	3.6	3.6	3.6	18
16553	HEGADE VIVEK MANIK	4	8	10	22	3	5.4	5.6	8.6	5.4	28	18	3.6	3.6	3.6	3.6	3.6	3.6	18
16554	HIRAVE SAYALI NITIN	5	10	9	24	3.4	6.05	6.3	9.7	6.05	31.5	18	3.6	3.6	3.6	3.6	3.6	3.6	18
16555	HOGALE NIKITA DNYANDEV	5	10	8	23	3.3	5.85	6.1	9.4	5.85	30.5	18	3.6	3.6	3.6	3.6	3.6	3.6	18
16556	HOLE RUTUJA GANESH	5	10	9	24	3.4	6.05	6.3	9.7	6.05	31.5	20	4	4	4	4	4	4	20
16557	HOLE YASH BHANUDAS	5	10	9	24	3.4	6.05	6.3	9.7	6.05	31.5	19	3.8	3.8	3.8	3.8	3.8	3.8	19
16558	HULAGE VAISHANAVI PRAMOD	5	10	8	23	3.3	5.85	6.1	9.4	5.85	30.5	0	0	0	0	0	0	0	0
16559	JADHAV ADITI JANARDAN	5	9	9	23	3.2	5.65	5.9	9.1	5.65	29.5	18	3.6	3.6	3.6	3.6	3.6	3.6	18
16560	JADHAV GAYATRI LAXMAN	4	9	10	23	3.2	5.8	6	9.2	5.8	30	22	4.4	4.4	4.4	4.4	4.4	4.4	22
16561	JADHAV LAXMAN BABAN	4	9	9	22	3.1	5.6	5.8	8.9	5.6	29	9	1.8	1.8	1.8	1.8	1.8	1.8	9
16562	JADHAV MAYURI HANUMANT	5	9	9	23	3.2	5.65	5.9	9.1	5.65	29.5	21	4.2	4.2	4.2	4.2	4.2	4.2	21
16563	JADHAV MITALI LALASAHEB	5	10	9	24	3.4	6.05	6.3	9.7	6.05	31.5	14	2.8	2.8	2.8	2.8	2.8	2.8	14
16564	JADHAV SAYALI RAJNARAYAN	5	9	8	22	3.1	5.45	5.7	8.8	5.45	28.5	18	3.6	3.6	3.6	3.6	3.6	3.6	18



Seat No.	Name	Internals			Internal Total (25M)	CO1	CO2	CO3	CO4	CO5	Total	External Total	CO1	CO2	CO3	CO4	CO5	Total
		In Depth Viva (5M)	Assignment (10M)	Case Study (10M)														
16565	JADHAV SHRAVANI TARACHAND SHITAL 2032502368	5	10	9	24	3.4	6.05	6.3	9.7	6.05	31.5	18	3.6	3.6	3.6	3.6	3.6	18
16566	JAGTAP ADITYA JALINDAR	4	9	8	21	3	5.4	5.6	8.6	5.4	28	24	4.8	4.8	4.8	4.8	4.8	24
16567	JAGTAP GEETANJALI BHAGWAN	4	9	8	21	3	5.4	5.6	8.6	5.4	28	0	0	0	0	0	0	0
16568	JAGTAP PRAGATI SHAHAJI	5	10	9	24	3.4	6.05	6.3	9.7	6.05	31.5	19	3.8	3.8	3.8	3.8	3.8	19
16569	JAGTAP ROHIT SACHIN	4	9	9	22	3.1	5.6	5.8	8.9	5.6	29	8	1.6	1.6	1.6	1.6	1.6	8
16570	JAMBLE PRANAV DATTATRAY	4	9	9	22	3.1	5.6	5.8	8.9	5.6	29	7	1.4	1.4	1.4	1.4	1.4	7
16571	JARAD PRATIKSHA BALASO	5	9	9	23	3.2	5.65	5.9	9.1	5.65	29.5	18	3.6	3.6	3.6	3.6	3.6	18
16572	JATHAR MANISH SUNIL	5	10	9	24	3.4	6.05	6.3	9.7	6.05	31.5	22	4.4	4.4	4.4	4.4	4.4	22
16573	KADAM SANDIP SUNIL	4	10	10	24	3.4	6.2	6.4	9.8	6.2	32	25	5	5	5	5	5	25
16574	KADAM VAIBHAVI SANTOSH	5	9	10	24	3.3	5.85	6.1	9.4	5.85	30.5	21	4.2	4.2	4.2	4.2	4.2	21
16575	KAKADE AISHWARYA KAILAS	5	10	9	24	3.4	6.05	6.3	9.7	6.05	31.5	7	1.4	1.4	1.4	1.4	1.4	7
16576	KALDATE TUSHAR SATISH	5	9	9	23	3.2	5.65	5.9	9.1	5.65	29.5	18	3.6	3.6	3.6	3.6	3.6	18
16577	KALE NIKHIL RAMESH	5	9	9	23	3.2	5.65	5.9	9.1	5.65	29.5	27	5.4	5.4	5.4	5.4	5.4	27
16578	KALE SAKSHI VINAYAK	5	9	9	23	3.2	5.65	5.9	9.1	5.65	29.5	25	5	5	5	5	5	25
16579	KALE SHIVAM RAJENDRA	4	8	8	20	2.8	5	5.2	8	5	26	8	1.6	1.6	1.6	1.6	1.6	8
16580	KALE SNEHA KISHOR	5	9	9	23	3.2	5.65	5.9	9.1	5.65	29.5	20	4	4	4	4	4	20
16581	KALE SUPRIYA PARSHURAM	5	10	9	24	3.4	6.05	6.3	9.7	6.05	31.5	13	2.6	2.6	2.6	2.6	2.6	13
16582	KAMBLE AKASH SHRAVAN	4	9	8	21	3	5.4	5.6	8.6	5.4	28	8	1.6	1.6	1.6	1.6	1.6	8
16583	KAMBLE GAURI JITENDRA	5	9	9	23	3.2	5.65	5.9	9.1	5.65	29.5	18	3.6	3.6	3.6	3.6	3.6	18
16584	KANGUDE SAYALI SURESH	5	10	9	24	3.4	6.05	6.3	9.7	6.05	31.5	19	3.8	3.8	3.8	3.8	3.8	19
16585	KAPSE DIPALI ANIL	5	10	9	24	3.4	6.05	6.3	9.7	6.05	31.5	18	3.6	3.6	3.6	3.6	3.6	18
16586	KHABALE PATIL SHWETALI PRABHAKAR	5	8	10	23	3.1	5.45	5.7	8.8	5.45	28.5	30	6	6	6	6	6	30
16587	KHALATE SAKSHI UDAY	5	8	8	21	2.9	5.05	5.3	8.2	5.05	26.5	9	1.8	1.8	1.8	1.8	1.8	9
16588	KHALATE SIDDHI SOMNATH	5	9	9	23	3.2	5.65	5.9	9.1	5.65	29.5	29	5.8	5.8	5.8	5.8	5.8	29
16589	KHAMGAL BHAVANA KONDIBHA	4	9	8	21	3	5.4	5.6	8.6	5.4	28	27	5.4	5.4	5.4	5.4	5.4	27
16590	KHANDEKAR CHAITANYA SUDHI	5	10	9	24	3.4	6.05	6.3	9.7	6.05	31.5	22	4.4	4.4	4.4	4.4	4.4	22
16591	KHOMANE GAURI DATTATRAY	5	10	9	24	3.4	6.05	6.3	9.7	6.05	31.5	20	4	4	4	4	4	20
16592	KILOR APURVA DADARAO	5	9	9	23	3.2	5.65	5.9	9.1	5.65	29.5	22	4.4	4.4	4.4	4.4	4.4	22
16593	KOKARE BHUSHAN BALASO	5	9	8	22	3.2	5.65	5.7	8.8	5.45	28.5	18	3.6	3.6	3.6	3.6	3.6	18
16594	KOLAPKAR SANIKA GANESH	5	9	9	23	3.2	5.65	5.9	9.1	5.65	29.5	13	2.6	2.6	2.6	2.6	2.6	13



Seat No.	Name	Internals			Internal Total (25M)	CO1	CO2	CO3	CO4	CO5	Total	External					Total	
		In Depth Viva (5M)	Assignme nt (10M)	Case Study (10M)								Total End Term Exam	CO1	CO2	CO3	CO4		CO5
16595	KOLEKAR AMAR RAJENDRA	5	10	8	23	3.3	5.85	6.1	9.4	5.85	30.5	10	2	2	2	2	2	10
16596	KOLHE SARTHAK TUKARAM	5	10	9	24	3.4	6.05	6.3	9.7	6.05	31.5	13	2.6	2.6	2.6	2.6	2.6	13
16597	KORATKAR AKSHAY RAJENDRA	5	10	9	24	3.4	6.05	6.3	9.7	6.05	31.5	10	2	2	2	2	2	10
16598	KSHETRE APURV SANJAY	5	9	8	22	3.1	5.45	5.7	8.8	5.45	28.5	20	4	4	4	4	4	20
16599	KSHIRSAGAR ADIRAJ SHANKAR	5	9	8	22	3.1	5.45	5.7	8.8	5.45	28.5	14	2.8	2.8	2.8	2.8	2.8	14
16600	KULKARNI PIYUSH PADMAKAR	5	10	9	24	3.4	6.05	6.3	9.7	6.05	31.5	18	3.6	3.6	3.6	3.6	3.6	18
16601	KUMBHAR NIKITA SHIVAJI	5	9	9	23	3.2	5.65	5.9	9.1	5.65	29.5	22	4.4	4.4	4.4	4.4	4.4	22
16602	LAKADE SHRADDHA KUNDAN	5	10	9	24	3.4	6.05	6.3	9.7	6.05	31.5	12	2.4	2.4	2.4	2.4	2.4	12
16603	LAMBHATE PRERANA UMESH	5	10	9	24	3.4	6.05	6.3	9.7	6.05	31.5	18	3.6	3.6	3.6	3.6	3.6	18
16604	LAVAND MAYURI NANASO	5	10	9	24	3.4	6.05	6.3	9.7	6.05	31.5	18	3.6	3.6	3.6	3.6	3.6	18
16605	LENGARE AMOL BIRUDEV	5	10	9	24	3.4	6.05	6.3	9.7	6.05	31.5	18	3.6	3.6	3.6	3.6	3.6	18
16606	LILHARE HEENA PAVAN	5	9	9	23	3.2	5.65	5.9	9.1	5.65	29.5	18	3.6	3.6	3.6	3.6	3.6	18
16607	MAHADIK ANUSHKA ANIL	5	9	9	23	3.2	5.65	5.9	9.1	5.65	29.5	24	4.8	4.8	4.8	4.8	4.8	24
16608	MAHALINGE OMKAR MOHAN	4	10	9	23	3.3	6	6.2	9.5	6	31	19	3.8	3.8	3.8	3.8	3.8	19
	MAHAMUNI ANIKET																	
16609	DNYANESHWAR	4	10	9	23	3.3	6	6.2	9.5	6	31	22	4.4	4.4	4.4	4.4	4.4	22
16610	MAHAMUNI SAURABH GOVIND	4	10	9	23	3.3	6	6.2	9.5	6	31	22	4.4	4.4	4.4	4.4	4.4	22
16611	MANE PRANIL PRABHAKAR	4	9	8	21	3	5.4	5.6	8.6	5.4	28	0	0	0	0	0	0	0
16612	MANE VAISHNAVI SUBHASH	5	10	9	24	3.4	6.05	6.3	9.7	6.05	31.5	18	3.6	3.6	3.6	3.6	3.6	18
16613	MANE YASHSHRI DADASO	5	10	9	24	3.4	6.05	6.3	9.7	6.05	31.5	19	3.8	3.8	3.8	3.8	3.8	19
16614	MARALE SURAJ RAVINDRA	4	10	9	23	3.3	6	6.2	9.5	6	31	12	2.4	2.4	2.4	2.4	2.4	12
16615	MODHALE UTKARSHA SANJAY	5	10	9	24	3.4	6.05	6.3	9.7	6.05	31.5	18	3.6	3.6	3.6	3.6	3.6	18
16616	MOHITE SHIVRAJ GAJANAN	4	9	9	22	3.1	5.6	5.8	8.9	5.6	29	19	3.8	3.8	3.8	3.8	3.8	19
16617	MOKASHI PRAJWAL RAHUL	5	10	9	24	3.4	6.05	6.3	9.7	6.05	31.5	13	2.6	2.6	2.6	2.6	2.6	13
16618	MORE PRAJWAL VIKAS	5	10	9	24	3.4	6.05	6.3	9.7	6.05	31.5	10	2	2	2	2	2	10
16619	MULAY MAHENDRA PRAVIN	5	10	9	24	3.4	6.05	6.3	9.7	6.05	31.5	19	3.8	3.8	3.8	3.8	3.8	19
16620	NAGARE MADHURI SAMPAT	4	9	9	22	3.1	5.6	5.8	8.9	5.6	29	22	4.4	4.4	4.4	4.4	4.4	22
16621	NALE SHIVANI SANDIP	5	10	9	24	3.4	6.05	6.3	9.7	6.05	31.5	21	4.2	4.2	4.2	4.2	4.2	21
16622	NANAVARE KISHOR SUKHADEV	4	10	9	23	3.3	6	6.2	9.5	6	31	18	3.6	3.6	3.6	3.6	3.6	18
16623	NANAVARE KUMAR SATYAWAN	4	8	9	21	2.9	5.2	5.4	8.3	5.2	27	18	3.6	3.6	3.6	3.6	3.6	18
16624	NARUTE PRATIKSHA ASHOK	4	9	9	22	3	5.6	5.8	8.9	5.6	29	27	5.4	5.4	5.4	5.4	5.4	27
16625	NAZIRKAR SIDDHI TANAJI	5	10	9	24	3.4	6.05	6.3	9.7	6.05	31.5	21	4.2	4.2	4.2	4.2	4.2	21
16626	NIMBALKAR KIRAN KANTILAL	4	10	9	23	3.3	6	6.2	9.5	6	31	20	4	4	4	4	4	20



Seat No.

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Seat No.	Name	Internals			Internal Total (25M)	CO1	CO2	CO3	CO4	CO5	Total	External Total	Total					
		In Depth Viva (5M)	Assignment (10M)	Case Study (10M)									End Term Exam	CO1	CO2	CO3	CO4	CO5
16627	NIMBHOSE NIKITA SAMPAT	4	10	9	23	3.3	6	6.2	9.5	6	31	27	5.4	5.4	5.4	5.4	5.4	27
16628	NIMBHOSE SOHAM RAJENDRA	5	10	9	24	3.4	6.05	6.3	9.7	6.05	31.5	20	4	4	4	4	4	20
16629	PADWAL PRITI SANJAY	5	9	9	23	3.2	5.65	5.9	9.1	5.65	29.5	18	3.6	3.6	3.6	3.6	3.6	18
16630	PADWAL RUTIK TANAJI	4	9	9	22	3.1	5.6	5.8	8.9	5.6	29	23	4.6	4.6	4.6	4.6	4.6	23
16631	PALASE SAMARTH GAJANAN	4	8	9	21	2.9	5.2	5.4	8.3	5.2	27	22	4.4	4.4	4.4	4.4	4.4	22
16632	PALAVE VISHAL PANDURANG	4	8	9	21	2.9	5.2	5.4	8.3	5.2	27	22	4.4	4.4	4.4	4.4	4.4	22
16633	PANDULE SIMARAN HARIBHAU	4	9	9	22	3.1	5.6	5.8	8.9	5.6	29	21	4.2	4.2	4.2	4.2	4.2	21
16634	PATIL AJAY BALASAHEB	4	9	9	22	3.1	5.6	5.8	8.9	5.6	29	0	0	0	0	0	0	0
16635	PATIL MEGHA DNYANESHWAR	5	10	9	24	3.4	6.05	6.3	9.7	6.05	31.5	21	4.2	4.2	4.2	4.2	4.2	21
16636	PATIL SHREEKAR RAMCHANDRA	4	9	9	22	3.1	5.6	5.8	8.9	5.6	29	18	3.6	3.6	3.6	3.6	3.6	18
16637	PATIL SHUBHANGI SAMADHAN	4	9	9	22	3.1	5.6	5.8	8.9	5.6	29	14	2.8	2.8	2.8	2.8	2.8	14
16638	PATIL VIJAYKUMAR SAMBHAJI	4	10	9	23	3.3	6	6.2	9.5	6	31	13	2.6	2.6	2.6	2.6	2.6	13
16639	PATIL VITTHAL AJINATH1	4	8	9	21	2.9	5.2	5.4	8.3	5.2	27	22	4.4	4.4	4.4	4.4	4.4	22
16640	PAWAR AARTI AJIT 6	4	10	9	23	3.3	6	6.2	9.5	6	31	23	4.6	4.6	4.6	4.6	4.6	23
16641	PAWAR PALLAVI DILIP	5	10	9	24	3.4	6.05	6.3	9.7	6.05	31.5	24	4.8	4.8	4.8	4.8	4.8	24
16642	PETKAR PUNAM ANIL	4	9	9	22	3.1	5.6	5.8	8.9	5.6	29	0	0	0	0	0	0	0
16643	PHADATARE SAURABH HANUMANT	5	10	9	24	3.4	6.05	6.3	9.7	6.05	31.5	21	4.2	4.2	4.2	4.2	4.2	21
16644	PISAL ABHISHEK HANUMANT	4	9	9	22	3.1	5.6	5.8	8.9	5.6	29	23	4.6	4.6	4.6	4.6	4.6	23
16645	POKALE MAYURI PRAKASHRAO	4	8	9	21	2.9	5.2	5.4	8.3	5.2	27	24	4.8	4.8	4.8	4.8	4.8	24
16646	PUKALE VITTHAL BABASAHEB	4	9	9	22	3.1	5.6	5.8	8.9	5.6	29	19	3.8	3.8	3.8	3.8	3.8	19
16647	RANANAVARE SNEHAL SANJAY	4	9	9	22	3.1	5.6	5.8	8.9	5.6	29	27	5.4	5.4	5.4	5.4	5.4	27
16648	RAUT ALOK MACHINDRA	4	8	8	20	2.8	5	5.2	8	5	26	0	0	0	0	0	0	0
16649	RAUT ANIKET HANUMANT	5	8	6	19	2.7	4.65	4.9	7.6	4.65	24.5	26	5.2	5.2	5.2	5.2	5.2	26
16650	SALUNKHE MANSI MADHUKAR	5	10	9	24	3.4	6.05	6.3	9.7	6.05	31.5	28	5.6	5.6	5.6	5.6	5.6	28
16651	SATAV PRATIKSHA GANESH	4	10	9	23	3.3	6	6.2	9.5	6	31	27	5.4	5.4	5.4	5.4	5.4	27
16652	SAWANT DIVYA SANJAY	5	10	9	24	3.4	6.05	6.3	9.7	6.05	31.5	30	6	6	6	6	6	30
16653	SAWANT ANKITA LAHU	4	9	9	22	3.1	5.6	5.8	8.9	5.6	29	27	5.4	5.4	5.4	5.4	5.4	27
16654	SAYYAD AMAN ASLAM	4	8	9	21	2.9	5.2	5.4	8.3	5.2	27	19	3.8	3.8	3.8	3.8	3.8	19
16655	SHAIKH ALISHA AJIJ	4	9	9	22	3.1	5.6	5.8	8.9	5.6	29	0	0	0	0	0	0	0
16656	SHAIKH JAVED TAYYAB	4	8	9	21	2.9	5.2	5.4	8.3	5.2	27	18	3.6	3.6	3.6	3.6	3.6	18
16657	SHELAR SAURABH ANIL	5	8	9	22	3.3	5.25	5.5	8.5	5.25	27.5	9	1.8	1.8	1.8	1.8	1.8	9
16658	SHELKE PRERANA DASHRATH	4	9	8	21	3.1	5.6	5.8	8.6	5.4	28	0	0	0	0	0	0	0



Seat No.	Name	Internals			Internal Total (25M)	CO1	CO2	CO3	CO4	CO5	Total	External Total	CO1	CO2	CO3	CO4	CO5	Total
		In Depth Viva (5M)	Assignment (10M)	Case Study (10M)														
16659	SHENDE MEGHA BAPURAO	5	10	9	24	3.4	6.05	6.3	9.7	6.05	31.5	34	6.8	6.8	6.8	6.8	6.8	34
16660	SHENDGE PRIYA DADASO	5	10	9	24	3.4	6.05	6.3	9.7	6.05	31.5	35	7	7	7	7	7	35
16661	SHINDE NIKHIL KRISHNA	4	9	9	22	3.1	5.6	5.8	8.9	5.6	29	20	4	4	4	4	4	20
16662	SHINDE PAYAL RAMESH	4	9	9	22	3.1	5.6	5.8	8.9	5.6	29	19	3.8	3.8	3.8	3.8	3.8	19
16663	SHINDE PRATHAMESH	4	9	9	22	3.1	5.6	5.8	8.9	5.6	29	20	4	4	4	4	4	20
16664	AGATRAO	4	9	9	22	3.1	5.6	5.8	8.9	5.6	29	20	4	4	4	4	4	20
16664	SHINDE PRIYA SANTOSH	5	10	9	24	3.4	6.05	6.3	9.7	6.05	31.5	20	4	4	4	4	4	20
16665	SHINDE ROHINI HARIBHAU	5	8	8	21	2.9	5.05	5.3	8.2	5.05	26.5	24	4.8	4.8	4.8	4.8	4.8	24
16666	SHINDE SAYALI VISHWAS	5	9	9	23	3.2	5.65	5.9	9.1	5.65	29.5	24	4.8	4.8	4.8	4.8	4.8	24
16667	SHINDE SONIYA SHAHAJI	5	10	9	24	3.4	6.05	6.3	9.7	6.05	31.5	21	4.2	4.2	4.2	4.2	4.2	21
16668	SINGARE AKSHAY AJAYKUMAR	4	9	8	38	6.87	6.87	9.12	7.6	4.567	28	18	3.6	3.6	3.6	3.6	3.6	18
16669	SUNE SANSKRUTI SANDIP	5	10	9	38	6.87	6.87	9.12	7.6	4.567	31.5	18	3.6	3.6	3.6	3.6	3.6	18
16670	SUPEKAR KAJAL RAJENDRA	4	9	9	38	6.87	6.87	9.12	7.6	4.567	29	19	3.8	3.8	3.8	3.8	3.8	19
16671	SURAVASE TUKARAM	4	9	8	38	6.87	6.87	9.12	7.6	4.567	28	18	3.6	3.6	3.6	3.6	3.6	18
16672	TAMHANE MADHURI DADASO	5	10	9	38	6.87	6.87	9.12	7.6	4.567	31.5	18	3.6	3.6	3.6	3.6	3.6	18
16673	TAWARE ASHWINI VIJAY	5	10	9	38	6.87	6.87	9.12	7.6	4.567	31.5	12	2.4	2.4	2.4	2.4	2.4	12
16674	TAWARE AYUSH MILIND	4	9	9	38	6.87	6.87	9.12	7.6	4.567	29	12	2.4	2.4	2.4	2.4	2.4	12
16675	TEKALE AMOL BABASO	4	9	8	38	6.87	6.87	9.12	7.6	4.567	28	20	4	4	4	4	4	20
16676	THORAT GITANJALI VINAYAK	4	8	8	38	6.87	6.87	9.12	7.6	4.567	26	19	3.8	3.8	3.8	3.8	3.8	19
16677	THORAT SIDDHI MANOJ	5	9	9	38	6.87	6.87	9.12	7.6	4.567	29.5	20	4	4	4	4	4	20
16678	THOTE ARAI DNYANESHWAR	5	8	8	38	6.87	6.87	9.12	7.6	4.567	26.5	9	1.8	1.8	1.8	1.8	1.8	9
16679	TURE GOVIND SHANKAR	5	8	8	38	6.87	6.87	9.12	7.6	4.567	26.5	9	1.8	1.8	1.8	1.8	1.8	9
16680	UKIRDE SIMARAN SATISH	4	10	9	38	6.87	6.87	9.12	7.6	4.567	31	22	4.4	4.4	4.4	4.4	4.4	22
16681	VAREKAR JOTIRAM DATTATRAY	4	9	9	38	6.87	6.87	9.12	7.6	4.567	29	13	2.6	2.6	2.6	2.6	2.6	13
16682	VYAVHARE ARAI SUNIL	4	10	9	38	6.87	6.87	9.12	7.6	4.567	31	20	4	4	4	4	4	20
16683	WAGHMODE AKASH BIRA	4	9	9	38	6.87	6.87	9.12	7.6	4.567	29	9	1.8	1.8	1.8	1.8	1.8	9



Internal Attainment							
Level of Attainment	3	3	3	3	3	3	3
& of attainment	1	1	1	1	1	1	1
Total Students	184	184	184	184	184	184	184
No. above Expected	184	184	184	184	184	184	184
Expected Marks	1.5	2.25	2.5	2.5	4	2.25	2.25
Expected % secured	50%						

External Attainment							
Level of Attainment	0	0	0	0	0	0	0
& of attainment	0.10326	0.10326	0.10326	0.10326	0.10326	0.10326	0
Total Students	184	184	184	184	184	184	121
No. above Expected	19	19	19	19	19	19	0
Expected Marks	5	5	5	5	5	5	0
Expected % secured	50%						0

	Direct Attainment	
	Internal	Internal
C01	3	3
C02	3	3
C03	3	3
C04	3	3
C05	3	3
Average	3	3
Weightage	100%	0%
Attainment	3	0





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| DTE Code: 6628 | MSBTE Code: 1712 | AICTE ID: 1-5986711 | AISHE Code: C-44576 |

Department of MCA

Academic Year 2025-2026

CO PO Mapping & Attainment

Name of Staff : Prof.Chopade S.S
Designation : Assistant Professor
Course Name : Business Statistics
Course Code : BST504MJ
SEM : I

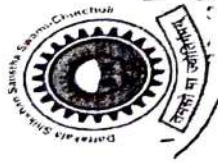


Subject Name	Business Statistics
Subject Code	BST504MJ
Faculty Name	Prof.Chopade S.S

Acedemic Year	2025-26
Semester	I

S.NO	Course Outcomes	
CO1	Understand the role and importance of statistics in business decision-making.	
CO2	Apply measures of central tendency and dispersion to summarize data.	
CO3	Understand basic probability concepts and rules.	
CO4	Apply correlation and regression techniques to analyze relationships between variables	
CO5	Apply time series analysis techniques to forecast business trends.	
S.NO	Programme Outcomes	
PO1	Computing Knowledge -Apply knowledge of computing fundamentals, computing specialization, mathematics, and domain knowledge appropriate for the computing specialization to the abstraction and conceptualization of computing models from defined problems and requirements. business issues	
PO2	Problem Analysis- Identify, formulate, research literature, and solve complex Computing problems reaching substantiated conclusions using fundamental principles of Mathematics, Computing sciences, and relevant domain disciplines.	
PO3	Design & Development- Design and evaluate solutions for complex computing problems, and design and evaluate systems, components, or processes that meet specified needs with appropriate consideration for public health and safety, cultural, societal, and environmental considerations.	
PO4	Research & Development -Use research-based knowledge and research methods including design of experiments, analysis and interpretation of data, and synthesis of information to provide valid conclusions.	
PO5	Prompt Tool Usage- Create, select, adapt and apply appropriate techniques, resources, and modern computing tools to complex computing activities, with an understanding of the limitations	
PO6	Ethical Practices- Understand and commit to professional ethics and cyber regulations, responsibilities, and norms of professional computing practice.	
PO7	Life Long Learning- Recognize the need, and have the ability, to engage in independent learning for continual development as a Computing professional.	
PO8	Professional Skills- Demonstrate knowledge and understanding of computing and management principles and apply these to one's own work, as a member and leader in a team, to manage projects and in	
PO9	Communication Skills- Communicate effectively with the computing community, and with society at large, about complex computing activities by being able to comprehend and write effective reports, design documentation, make effective presentations, and give and understand clear instructions.	
PO10	Social Contribution- Understand and assess societal, environmental, health, safety, legal, and cultural issues within local and global contexts, and the consequential responsibilities relevant to professional computing	
PO11	Teamwork & Leadership- Function effectively as an individual and as a member or leader in diverse teams and in multidisciplinary environments. documentation, make effective presentations, and give and understand clear instructions.	
PO12	Innovation & Sustainability- Identify a timely opportunity and using innovation to create value and wealth for the betterment of the individual and society at large.	





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[NAAC Accredited & ISO Certified]

Off Pune- Solapur Highway, Swami-Chincholi (Bhigwan), Tal - Daund, Dist. - Pune 413130 Maharashtra.

| Email: dkgoi@dattakala.edu | Web: www.dattakala.edu.in | Contact No. 9673002923, 9673400500 |

Mapping /Alignment of CO's with PO's (Programme Articulation Matrix)

	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12
CO1	3	2	1	2	1		2	2	2	1		1
CO2	3	3	2	2	2		1	1	1			
CO3	3	3	1	2	1		1					
CO4	3	3	3	3	2		1	2	2	1	1	1
CO5	3	3	3	3	2		1	2	2	1	1	2
Average	3.00	2.8	2	2.4	1.6	0	1.2	1.75	1.75	1	1	1.33
CO*PO	3.00	2.8	2.00	2.40	1.60	0	1.20	1.75	1.75	1.00	1.00	1.33

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

Internal Assessment Type	Description	Marks Assigned	Frequency	Weightage
In depth Viva	ion Skill ,Analytical Thinking ,Subject Knowledge,Participation	5	1	5
Assignment	Understanding Of Topic & Content Quality	10	1	10
Class Test	Clarity of Explanation ,Problem Solving Ability	10	1	10



Internal Evaluations				
CO's * Assessment	In depth Viva	Assignment	Class test	Total Internal
CO1	1	2	1	4
CO2	0.5	1	2	3.5
CO3	1	2	2	5
CO4	2	2	3	7
CO5	0.5	3	2	5.5
Total	5	10	10	25

CO's * Assessment	In depth Viva	Assignment	Class test
CO1	0.2	0.2	0.1
CO2	0.1	0.1	0.2
CO3	0.2	0.2	0.2
CO4	0.4	0.2	0.3
CO5	0.1	0.3	0.2
Total	1	1	1



Seat No.	Name	Internals			Internal Total (25M)	CO1	CO2	CO3	CO4	CO5	Total	External Total	CO1	CO2	CO3	CO4	CO5	Total	
		Class Test (10Marks)	Assignment (10Marks)	In Depth Viva (5Marks)															
16500	ADALINGE MAYUR BAPURAO	9	10	5	24	4.3	2.9	4.8	7.1	4.9	24	008	10	1.6	1.6	1.6	1.6	10	50
16501	AJABE SHIVAM NAGNATH	9	9	5	23	4.1	2.8	4.6	6.9	4.6	23	009	1.8	1.8	1.8	1.8	1.8	1.6	008
16502	ASHTEKAR NIKITA CHARUDATTA	9	9	4	22	4	2.6	4.4	6.6	4.4	22	010	2	2	2	2	2	2	009
16503	AUTI VAISHANAVI SANTOSH	9	10	5	24	4.3	2.9	4.8	7.1	4.9	24	011	2.2	2.2	2.2	2.2	2.2	2	010
16504	BAGADE ABHIJEET DHIRAJ	9	8	4	21	3.8	2.5	4.2	6.4	4.1	21	014	2.8	2.8	2.8	2.8	2.8	2.8	011
16505	BANGRE SNEHA MAHESH	9	9	5	23	4.1	2.8	4.6	6.9	4.6	23	020	4	4	4	4	4	4	014
16506	BANKAR PUNAM ANIL	9	10	5	24	4.3	2.9	4.8	7.1	4.9	24	018	3.6	3.6	3.6	3.6	3.6	4	020
16507	BANSODE ROHIT ABHIJIT	9	9	5	23	4.1	2.8	4.6	6.9	4.6	23	018	3.6	3.6	3.6	3.6	3.6	3.6	018
16508	BHALERAO ROHAN PRAFULLA	9	9	4	22	4	2.6	4.4	6.6	4.4	22	009	1.8	1.8	1.8	1.8	1.8	3.6	018
16509	BHANDARE PRERANA DILIP	10	9	5	24	4.3	2.9	4.8	7.3	4.7	24	010	2	2	2	2	2	2	009
16510	BHANGE KIRAN MAHADEV	9	9	5	23	4.1	2.8	4.6	6.9	4.6	23	012	2.4	2.4	2.4	2.4	2.4	2.4	010
16511	BHOITE JAYRAJ SANTOSH	9	9	5	23	4.1	2.8	4.6	6.9	4.6	23	009	1.8	1.8	1.8	1.8	1.8	1.8	012
16512	BHOSALE ANUSHKA POPAT	9	10	5	24	4.3	2.9	4.8	7.1	4.9	24	006	1.2	1.2	1.2	1.2	1.2	1.2	006
16513	BHOSALE MINAKSHI SANTOSH	9	10	5	24	4.3	2.9	4.8	7.1	4.9	24	004	0.8	0.8	0.8	0.8	0.8	0.8	004
16514	BHOSALE SANDIP MAHADEV	9	9	5	23	4.1	2.8	4.6	6.9	4.6	23	007	1.4	1.4	1.4	1.4	1.4	1.4	007
16515	BHOSALE SHRIRAM ABHIMANYU	9	9	5	23	4.1	2.8	4.6	6.9	4.6	23	005	1	1	1	1	1	1	005
16516	BHOSALE SHRIYASH DATTATRAY	9	9	5	23	4.1	2.8	4.6	6.9	4.6	23	008	1.6	1.6	1.6	1.6	1.6	1.6	008
16517	BHOSALE SIDDHI AMBRUSHI	9	9	4	22	4	2.6	4.4	6.6	4.4	22	012	2.4	2.4	2.4	2.4	2.4	2.4	012
16518	BHOSALE SWAPNALI SAMBHAJI	9	10	5	24	4.3	2.9	4.8	7.1	4.9	24	006	1.2	1.2	1.2	1.2	1.2	1.2	006
16519	BHUJBAL SIDDHI MADHAV	9	8	4	21	3.8	2.5	4.2	6.4	4.1	21	010	2	2	2	2	2	2	010
16520	BODAKHE RUTUJA BAPU	9	9	5	23	4.1	2.8	4.6	6.9	4.6	23	005	1	1	1	1	1	1	005
16521	BORDE NIKITA JALINDAR	9	9	5	23	4.1	2.8	4.6	6.9	4.6	23	007	1.4	1.4	1.4	1.4	1.4	1.4	007
16522	CHAVAN DIPAK VISHWAS	9	9	5	23	4.1	2.8	4.6	6.9	4.6	23	006	1.2	1.2	1.2	1.2	1.2	1.2	006
16523	DALIMBE SHRADDHA AJAY	9	10	5	24	4.3	2.9	4.8	7.1	4.9	24	007	1.4	1.4	1.4	1.4	1.4	1.4	007
16524	DESHMANE SHIVAM SANJAY	9	9	5	23	4.1	2.8	4.6	6.9	4.6	23	007	1.4	1.4	1.4	1.4	1.4	1.4	007
16525	DEVURKHE SNEHA SANTOSH	9	9	5	23	4.1	2.8	4.6	6.9	4.6	23	013	2.6	2.6	2.6	2.6	2.6	2.6	013
16526	DHANDE ROHIT NANA	9	9	5	23	4.1	2.8	4.6	6.9	4.6	23	015	3	3	3	3	3	3	015
16527	DHUMAL CHAITANYA SACHIN	9	10	5	24	4.3	2.9	4.8	7.1	4.9	24	014	2.8	2.8	2.8	2.8	2.8	2.8	014
16528	DHUMAL SANIKA SANDIP	9	9	5	23	4.1	2.8	4.6	6.9	4.6	23	009	1.8	1.8	1.8	1.8	1.8	1.8	009
16529	DHUMAL TEJAL RAJENDRA	9	9	4	22	4	2.6	4.4	6.6	4.4	22	009	1.8	1.8	1.8	1.8	1.8	1.8	009
16530	GADADE ABHIJEET RAJENDRA	9	10	5	24	4.3	2.9	4.8	7.1	4.9	24	009	1.8	1.8	1.8	1.8	1.8	1.8	009



5668	JAGTAP PRAGATI SHAHAJI	9	9	4	22	4	2.6	4.4	6.6	4.4	22	018	3.6	3.6	3.6	3.6	3.6	018
5669	JAGTAP ROHIT SACHIN	9	10	5	24	4.3	2.9	4.8	7.1	4.9	24	008	1.6	1.6	1.6	1.6	1.6	008
5670	JAMBLE PRANAV DATTATRAY	9	8	4	21	3.8	2.5	4.2	6.4	4.1	21	003	0.6	0.6	0.6	0.6	0.6	003
5671	JARAD PRATIKSHA BALASO	9	9	5	23	4.1	2.8	4.6	6.9	4.6	23	009	1.8	1.8	1.8	1.8	1.8	009
5672	JATHAR MANISH SUNIL	9	9	5	23	4.1	2.8	4.6	6.9	4.6	23	005	1	1	1	1	1	005
6573	KADAM SANDIP SUNIL	9	9	5	23	4.1	2.8	4.6	6.9	4.6	23	018	3.6	3.6	3.6	3.6	3.6	018
6574	KADAM VAIBHAVI SANTOSH	9	10	5	24	4.3	2.9	4.8	7.1	4.9	24	013	2.6	2.6	2.6	2.6	2.6	013
16575	KAKADE AISHWARYA KAILAS	9	9	5	23	4.1	2.8	4.6	6.9	4.6	23	003	0.6	0.6	0.6	0.6	0.6	003
16576	KALDATE TUSHAR SATISH	9	9	5	23	4.1	2.8	4.6	6.9	4.6	23	004	0.8	0.8	0.8	0.8	0.8	004
16577	KALE NIKHIL RAMESH	9	9	5	23	4.1	2.8	4.6	6.9	4.6	23	007	1.4	1.4	1.4	1.4	1.4	007
16578	KALE SAKSHI VINAYAK	9	10	5	24	4.3	2.9	4.8	7.1	4.9	24	005	1	1	1	1	1	005
16579	KALE SHIVAM RAJENDRA	9	9	5	23	4.1	2.8	4.6	6.9	4.6	23	006	1.2	1.2	1.2	1.2	1.2	006
16580	KALE SNEHA KISHOR	9	9	4	22	4	2.6	4.4	6.6	4.4	22	009	1.8	1.8	1.8	1.8	1.8	009
16581	KALE SUPRIYA PARSHURAM	9	10	5	24	4.3	2.9	4.8	7.1	4.9	24	008	1.6	1.6	1.6	1.6	1.6	008
16582	KAMBLE AKASH SHRAVAN	9	9	5	23	4.1	2.8	4.6	6.9	4.6	23	002	0.4	0.4	0.4	0.4	0.4	002
16583	KAMBLE GAURI JITENDRA	9	9	4	22	4	2.6	4.4	6.6	4.4	22	009	1.8	1.8	1.8	1.8	1.8	009
16584	KANGUDE SAYALI SURESH	9	10	5	24	4.3	2.9	4.8	7.1	4.9	24	013	2.6	2.6	2.6	2.6	2.6	013
16585	KAPSE DIPALI ANIL	9	8	4	21	3.8	2.5	4.2	6.4	4.1	21	018	3.6	3.6	3.6	3.6	3.6	018
16586	KHABALE PATIL SHWETALI PRABHA	9	9	5	23	4.1	2.8	4.6	6.9	4.6	23	012	2.4	2.4	2.4	2.4	2.4	012
16587	KHALATE SAKSHI UDAY	9	10	5	24	4.3	2.9	4.8	7.1	4.9	24	006	1.2	1.2	1.2	1.2	1.2	006
16588	KHALATE SIDDHI SOMNATH	9	9	5	23	4.1	2.8	4.6	6.9	4.6	23	011	2.2	2.2	2.2	2.2	2.2	011
16589	KHAMGAL BHAVANA KONDIBHAU	9	9	4	22	4	2.6	4.4	6.6	4.4	22	021	4.2	4.2	4.2	4.2	4.2	021
16590	KHANDEKAR CHAITANYA SUDHIR	9	10	5	24	4.3	2.9	4.8	7.1	4.9	24	018	3.6	3.6	3.6	3.6	3.6	018
16591	KHOMANE GAURI DATTATRAY	9	9	5	23	4.1	2.8	4.6	6.9	4.6	23	008	1.6	1.6	1.6	1.6	1.6	008
16592	KILOR APURVA DADARAO	9	9	5	23	4.1	2.8	4.6	6.9	4.6	23	018	3.6	3.6	3.6	3.6	3.6	018
16593	KOKARE BHUSHAN BALASO	9	10	5	24	4.3	2.9	4.8	7.1	4.9	24	023	4.6	4.6	4.6	4.6	4.6	023
16594	KOLAPKAR SANIKA GANESH	9	9	5	23	4.1	2.8	4.6	6.9	4.6	23	010	2	2	2	2	2	010
16595	KOLEKAR AMAR RAJENDRA	9	8	5	22	3.9	2.7	4.4	6.7	4.3	22	007	1.4	1.4	1.4	1.4	1.4	007
16596	KOLHE SARTHAK TUKARAM	9	10	5	24	4.3	2.9	4.8	7.1	4.9	24	005	1	1	1	1	1	005
16597	KORATKAR AKSHAY RAJENDRA	9	9	5	23	4.1	2.8	4.6	6.9	4.6	23	008	1.6	1.6	1.6	1.6	1.6	008
16598	KSHETRE APURV SANJAY	9	9	5	23	4.1	2.8	4.6	6.9	4.6	23	018	3.6	3.6	3.6	3.6	3.6	018
16599	KSHIRSAGAR ADIRAJ SHANKAR	9	10	5	24	4.3	2.9	4.8	7.1	4.9	24	014	2.8	2.8	2.8	2.8	2.8	014
16600	KULKARNI PIYUSH PADMAKAR	9	8	4	21	3.8	2.5	4.2	6.4	4.1	21	011	2.2	2.2	2.2	2.2	2.2	011
16601	KUMBHAR NIKITA SHIVAJI	9	9	5	23	4.1	2.8	4.6	6.9	4.6	23	008	1.6	1.6	1.6	1.6	1.6	008
16602	LAKADE SHRADDHA KUNDAN	9	10	5	24	4.3	2.9	4.8	7.1	4.9	24	009	1.8	1.8	1.8	1.8	1.8	009
16603	LAMBHATE PRERANA UMESH	9	9	5	23	4.1	2.8	4.6	6.9	4.6	23	006	1.2	1.2	1.2	1.2	1.2	006
16604	LAVAND MAYURI NANASO	9	9	4	22	4	2.6	4.4	6.6	4.4	22	009	1.8	1.8	1.8	1.8	1.8	009



16605	LENGARE AMOL BIRUDEV	9	10	5	24	4.3	2.9	4.8	7.1	4.9	24	007	1.4	1.4	1.4	1.4	1.4	0.07
16606	LILHARE HEENA PAVAN	9	8	4	21	3.8	2.5	4.2	6.4	4.1	21	007	1.4	1.4	1.4	1.4	1.4	0.07
16607	MAHADIK ANUSHKA ANIL	9	9	5	23	4.1	2.8	4.6	6.9	4.6	23	005	1	1	1	1	1	0.05
16608	MAHALINGE OMKAR MOHAN	9	10	5	24	4.3	2.9	4.8	7.1	4.9	24	008	1.6	1.6	1.6	1.6	1.6	0.08
16609	MAHAMUNI ANIKET DNYANESHW	9	9	5	23	4.1	2.8	4.6	6.9	4.6	23	018	3.6	3.6	3.6	3.6	3.6	0.18
16610	MAHAMUNI SAURABH GOVIND	9	9	4	22	4	2.6	4.4	6.6	4.4	22	026	5.2	5.2	5.2	5.2	5.2	0.26
16611	MAANE PRANIL PRABHAKAR	10	9	5	24	4.3	2.9	4.8	7.3	4.7	24	0	0	0	0	0	0	0
16612	MAANE VAISHNAVI SUBHASH	9	9	5	23	4.1	2.8	4.6	6.9	4.6	23	006	1.2	1.2	1.2	1.2	1.2	0.06
16613	MAANE YASHSHRI DADASA	9	9	5	23	4.1	2.8	4.6	6.9	4.6	23	009	1.8	1.8	1.8	1.8	1.8	0.09
16614	MARALE SURAJ RAVINDRA	9	10	5	24	4.3	2.9	4.8	7.1	4.9	24	009	1.8	1.8	1.8	1.8	1.8	0.09
16615	MODHALE UTKARSHA SANJAY	9	10	5	24	4.3	2.9	4.8	7.1	4.9	24	009	1.8	1.8	1.8	1.8	1.8	0.09
16616	MOHITE SHIVRAJ GAJANAN	9	9	5	23	4.1	2.8	4.6	6.9	4.6	23	010	2	2	2	2	2	0.10
16617	MOKASHI PRAJWAL RAHUL	9	9	5	23	4.1	2.8	4.6	6.9	4.6	23	007	1.4	1.4	1.4	1.4	1.4	0.07
16618	MORE PRAJWAL VIKAS	9	9	5	23	4.1	2.8	4.6	6.9	4.6	23	003	0.6	0.6	0.6	0.6	0.6	0.03
16619	MULAY MAHENDRA PRAVIN	9	9	4	22	4	2.6	4.4	6.6	4.4	22	010	2	2	2	2	2	0.10
16620	NAGARE MADHURI SAMPAT	9	10	5	24	4.3	2.9	4.8	7.1	4.9	24	012	2.4	2.4	2.4	2.4	2.4	0.12
16621	NALE SHIVANI SANDIP	9	8	4	21	3.8	2.5	4.2	6.4	4.1	21	006	1.2	1.2	1.2	1.2	1.2	0.06
16622	NANAVARE KISHOR SUKHADEV	9	9	5	23	4.1	2.8	4.6	6.9	4.6	23	006	1.2	1.2	1.2	1.2	1.2	0.06
16623	NANAVARE KUMAR SATYAWAN	9	9	5	23	4.1	2.8	4.6	6.9	4.6	23	005	1	1	1	1	1	0.05
16624	NARUTE PRAKISHA ASHOK	9	9	5	23	4.1	2.8	4.6	6.9	4.6	23	005	1	1	1	1	1	0.05
16625	NAZIRKAR SIDDHI TANAJI	9	10	5	24	4.3	2.9	4.8	7.1	4.9	24	006	1.2	1.2	1.2	1.2	1.2	0.06
16626	NIMBALKAR KIRAN KANTILAL	9	9	5	23	4.1	2.8	4.6	6.9	4.6	23	004	0.8	0.8	0.8	0.8	0.8	0.04
16627	NIMBHORE NIKITA SAMPAT	9	9	5	23	4.1	2.8	4.6	6.9	4.6	23	009	1.8	1.8	1.8	1.8	1.8	0.09
16628	NIMBHORE SOHAM RAJENDRA	9	9	5	23	4.1	2.8	4.6	6.9	4.6	23	002	0.4	0.4	0.4	0.4	0.4	0.02
16629	PADWAL PRITI SANJAY	9	10	5	24	4.3	2.9	4.8	7.1	4.9	24	008	1.6	1.6	1.6	1.6	1.6	0.08
16630	PADWAL RUTIK TANAJI	9	9	5	23	4.1	2.8	4.6	6.9	4.6	23	006	1.2	1.2	1.2	1.2	1.2	0.06
16631	PALASE SAMARTH GAJANAN	9	9	4	22	4	2.6	4.4	6.6	4.4	22	005	1	1	1	1	1	0.05
16632	PALAVE VISHAL PANDURANG	9	10	5	24	4.3	2.9	4.8	7.1	4.9	24	001	0.2	0.2	0.2	0.2	0.2	0.01
16633	PANDULE SIMARAN HARIBHAU	9	9	5	23	4.1	2.8	4.6	6.9	4.6	23	004	0.8	0.8	0.8	0.8	0.8	0.04
16634	PATIL AJAY BALASAHEB	9	9	4	22	4	2.6	4.4	6.6	4.4	22	0	0	0	0	0	0	0
16635	PATIL MEGHA DNYANESHWAR	9	10	5	24	4.3	2.9	4.8	7.1	4.9	24	009	1.8	1.8	1.8	1.8	1.8	0.09
16636	PATIL SHREEKAR RAMCHANDRA	9	8	4	21	3.8	2.5	4.2	6.4	4.1	21	004	0.8	0.8	0.8	0.8	0.8	0.04
16637	PATIL SHUBHANGI SAMADHAN	9	9	5	23	4.1	2.8	4.6	6.9	4.6	23	010	2	2	2	2	2	0.10
16638	PATIL VIJAYKUMAR SAMBHAI	9	10	5	24	4.3	2.9	4.8	7.1	4.9	24	006	1.2	1.2	1.2	1.2	1.2	0.06
16639	PATIL VITTHAL AJINATHI	9	9	5	23	4.1	2.8	4.6	6.9	4.6	23	007	1.4	1.4	1.4	1.4	1.4	0.07
16640	PAWAR AARTI AJIT 6	9	9	4	22	2.6	2.6	4.4	6.6	4.4	22	018	3.6	3.6	3.6	3.6	3.6	0.18
16641	PAWAR PALLAVI DILIP	9	10	5	24	4.3	2.9	4.8	7.1	4.9	24	018	3.6	3.6	3.6	3.6	3.6	0.18



16679	TURE GOVIND SHANKAR	9	9	5	23	4.1	2.8	4.6	6.9	4.6	23	004	0.8	0.8	0.8	0.8	0.8	004
16680	UKIRDE SIMARAN SATISH	9	10	5	24	4.3	2.9	4.8	7.1	4.9	24	007	1.4	1.4	1.4	1.4	1.4	007
16681	VAREKAR JOTIRAM DATTATRAY	9	9	5	23	4.1	2.8	4.6	6.9	4.6	23	012	2.4	2.4	2.4	2.4	2.4	012
16682	VYAVHARE ARATI SUNIL	9	9	4	22	4	2.6	4.4	6.6	4.4	22	012	2.4	2.4	2.4	2.4	2.4	012
16683	WAGHMODE AKASH BIRA	9	10	5	24	4.3	2.9	4.8	7.1	4.9	24	009	1.8	1.8	1.8	1.8	1.8	009

Internal Attainment									
Level of Attainment & of attainment	3	3	3	3	3	3	3	3	3
Total Students	1	1	1	1	1	1	1	1	1
No. above Expected	184	184	184	184	184	184	184	184	124
Expected Marks	184	184	184	184	184	184	184	184	124
Expected % secured	2	1.75	2.5	3.5	2.75	2.4	2.4	2.4	2.4
50%									

External Attainment									
Level of Attainment & of attainment	0	0	0	0	0	0	0	0	0
Total Students	0.01087	0.01087	0.01087	0.01087	0.01087	0.01087	0.01087	0.01087	0
No. above Expected	184	184	184	184	184	184	184	121	121
Expected Marks	2	2	2	2	2	2	2	0	0
Expected % secured	5	5	5	5	5	5	5	0	0
50%									

	Direct Attainment		3
	Internal	External	
C01	3	3	3
C02	3	3	3
C03	3	3	3
C04	3	3	3
C05	3	3	3
Average	3	3	3
Weightage	100%	100%	100%
Attainment	3	0	0





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| DTE Code: 6628 | MSBTE Code: 1712 | AICTE ID: I-5986711 | AISHE Code: C-44576 |

Department of MCA

Academic Year 2025-2026

CO PO Mapping & Attainment

Name of Staff	: Prof. Jadhav K.R
Designation	: Assistant Professor
Course Name	: Data Structure and Algorithm
Course Code	: DSA502MJ
SEM	: I



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541/2, 527, Off Pune-Solapur Highway, Swami-Chincholi (Bhigwan), Tal - Daund, Dist. - Pune 413130 Maharashtra.

| Email: dgsoi@dattakala.edu | Web: www.dattakala.edu.in | Contact No. 9673002923, 9673400500 |

Subject Name	Data Structure and Algorithms
Subject Code	DSA502MJ
Faculty Name	Prof. Jadhav K.R

Acedemic Year	2025-26
Semester	1

S.NO	Course Outcomes	
CO1	Implement linear data structures and its various real time applications	
CO2	Demonstrate linked list data structure and its types	
CO3	Demonstrate dynamic linear data structures like stack, queue and analyze their various applications.	
CO4	Implement techniques of Non-Linear data structures like Tree and Graph	
CO5	Demonstrate and compare various approaches of Searching, Sorting, Hashing and Heaps.	
S.NO	Programme Outcomes	
PO1	Computing Knowledge -Apply knowledge of computing fundamentals, computing specialization, mathematics, and domain knowledge appropriate for the computing specialization to the abstraction and conceptualization of computing models from defined problems and requirements. business issues	
PO2	Problem Analysis- Identify, formulate, research literature, and solve complex Computing problems reaching substantiated conclusions using fundamental principles of Mathematics, Computing sciences, and relevant domain disciplines.	
PO3	Design & Development- Design and evaluate solutions for complex computing problems, and design and evaluate systems, components, or processes that meet specified needs with appropriate consideration for public health and safety, cultural, societal, and environmental considerations.	
PO4	Research & Development -Use research-based knowledge and research methods including design of experiments, analysis and interpretation of data, and synthesis of information to provide valid conclusions.	
PO5	Prompt Tool Usage- Create, select, adapt and apply appropriate techniques, resources, and modern computing tools to complex computing activities, with an understanding of the limitations	
PO6	Ethical Practices- Understand and commit to professional ethics and regulations, responsibilities, and norms of professional computing practice.	





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 54/2, 537, Off Pune- Solapur Highway, Swami-Chincholi (Bhigwan), Tal. - Daund, Dist. - Pune 413138 Maharashtra
 | Email: dg@goi.dattakala.edu | Web: www.dattakala.edu.in | Contact No. 9673002923, 9673400500 |

Mapping /Alignment of CO's with PO's (Programme Articulation Matrix)												
	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12
CO1	3	2	2		1							
CO2	3	2	2		1							
CO3	3	3	2	1	2							
CO4	3	3	3	1	2							
CO5	3	3	3	2	2							
Average	3.00	2.6	2.4	1.33333333	1.6	#DIV/0!	1	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	2
CO*PO	3.00	2.60	2.40	1.33	1.60	#DIV/0!	1.00	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	2.00

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

Internal Assessment Type	Description	Marks Assigned	Frequency	Weightage
Group Discussion	Communication Skill ,Analytical Thinking ,Subject Knowledge,Participation,TeamWork	5	1	5
Assignments	Understanding Of Topic & Content Quality	10	1	10
In Depth Viva	Clarity of Explanation ,Problem Solving Ability	10	1	10





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CO's * Assessment	Internal Evaluations				
	Group Discussion	Assignments	In Depth Viva	0	Total Internal
CO1	1	1	1		3
CO2	0.5	2	2		4.5
CO3	1	2	2		5
CO4	2	3	3		8
CO5	0.5	2	2		4.5
Total	5	10	10	0	25

CO's * Assessment	Internal Evaluations				
	Group Discussion	Assignments	In Depth Viva	0	Total Internal
CO1	0.2	0.1	0.1		
CO2	0.1	0.2	0.2		
CO3	0.2	0.2	0.2		
CO4	0.4	0.3	0.3		
CO5	0.1	0.2	0.2		
Total	1	1	1	0	0



Seat No.	Name	Internals			Internal Total (25M)	External Total					Total																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																				
		In Depth Viva (5M)	Assignment (10M)	Case Study (10M)		CO1	CO2	CO3	CO4	CO5																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																					
16500	ADALINGE MAYUR BAPURAO	4	10	10	24	3.4	6.2	6.4	9.8	6.2	008	3.8	3.8	3.8	3.8	3.8	3.8	3.8	3.8	3.8	3.8	3.8	3.8	3.8	3.8	3.8	3.8	3.8	3.8	3.8	3.8	3.8	3.8	3.8	3.8	3.8	3.8	3.8	3.8	3.8	3.8	3.8	3.8	3.8	3.8	3.8	3.8	3.8	3.8	3.8	3.8	3.8	3.8	3.8	3.8	3.8	3.8	3.8	3.8	3.8	3.8	3.8	3.8	3.8	3.8	3.8	3.8	3.8	3.8	3.8	3.8	3.8	3.8	3.8	3.8	3.8	3.8	3.8	3.8	3.8	3.8	3.8	3.8	3.8	3.8	3.8	3.8	3.8	3.8	3.8	3.8	3.8	3.8	3.8	3.8	3.8	3.8	3.8	3.8	3.8	3.8	3.8	3.8	3.8	3.8	3.8	3.8	3.8	3.8	3.8	3.8	3.8	3.8	3.8	3.8	3.8	3.8	3.8	3.8	3.8	3.8	3.8	3.8	3.8	3.8	3.8	3.8	3.8	3.8	3.8	3.8	3.8	3.8	3.8	3.8	3.8	3.8	3.8	3.8	3.8	3.8	3.8	3.8	3.8	3.8	3.8	3.8	3.8	3.8	3.8	3.8	3.8	3.8	3.8	3.8	3.8	3.8	3.8	3.8	3.8	3.8	3.8	3.8	3.8	3.8	3.8	3.8	3.8	3.8	3.8	3.8	3.8	3.8	3.8	3.8	3.8	3.8	3.8	3.8	3.8	3.8	3.8	3.8	3.8	3.8	3.8	3.8	3.8	3.8	3.8	3.8	3.8	3.8	3.8	3.8	3.8	3.8	3.8	3.8	3.8	3.8	3.8	3.8	3.8	3.8	3.8	3.8	3.8	3.8	3.8	3.8	3.8	3.8	3.8	3.8	3.8	3.8	3.8	3.8	3.8	3.8	3.8	3.8	3.8	3.8	3.8	3.8	3.8	3.8	3.8	3.8	3.8	3.8	3.8	3.8	3.8	3.8	3.8	3.8	3.8	3.8	3.8	3.8	3.8	3.8	3.8	3.8	3.8	3.8	3.8	3.8	3.8	3.8	3.8	3.8	3.8	3.8	3.8	3.8	3.8	3.8	3.8	3.8	3.8	3.8	3.8	3.8	3.8	3.8	3.8	3.8	3.8	3.8	3.8	3.8	3.8	3.8	3.8	3.8	3.8	3.8	3.8	3.8	3.8	3.8	3.8	3.8	3.8	3.8	3.8	3.8	3.8	3.8	3.8	3.8	3.8	3.8	3.8	3.8	3.8	3.8	3.8	3.8	3.8	3.8	3.8	3.8	3.8	3.8	3.8	3.8	3.8	3.8	3.8	3.8	3.8	3.8	3.8	3.8	3.8	3.8	3.8	3.8	3.8	3.8	3.8	3.8	3.8	3.8	3.8	3.8	3.8	3.8	3.8	3.8	3.8	3.8	3.8	3.8	3.8	3.8	3.8	3.8	3.8	3.8	3.8	3.8	3.8	3.8	3.8	3.8	3.8	3.8	3.8	3.8	3.8	3.8	3.8	3.8	3.8	3.8	3.8	3.8	3.8	3.8	3.8	3.8	3.8	3.8	3.8	3.8	3.8	3.8	3.8	3.8	3.8	3.8	3.8	3.8	3.8	3.8	3.8	3.8	3.8	3.8	3.8	3.8	3.8	3.8	3.8	3.8	3.8	3.8	3.8	3.8	3.8	3.8	3.8	3.8	3.8	3.8	3.8	3.8	3.8	3.8	3.8	3.8	3.8	3.8	3.8	3.8	3.8	3.8	3.8	3.8	3.8	3.8	3.8	3.8	3.8	3.8	3.8	3.8	3.8	3.8	3.8	3.8	3.8	3.8	3.8	3.8	3.8	3.8	3.8	3.8	3.8	3.8	3.8	3.8	3.8	3.8	3.8	3.8	3.8	3.8	3.8	3.8	3.8	3.8	3.8	3.8	3.8	3.8	3.8	3.8	3.8	3.8	3.8	3.8	3.8	3.8	3.8	3.8	3.8	3.8	3.8	3.8	3.8	3.8	3.8	3.8	3.8	3.8	3.8	3.8	3.8	3.8	3.8	3.8	3.8	3.8	3.8	3.8	3.8	3.8	3.8	3.8	3.8	3.8	3.8	3.8	3.8	3.8	3.8	3.8	3.8	3.8	3.8	3.8	3.8	3.8	3.8	3.8	3.8	3.8	3.8	3.8	3.8	3.8	3.8	3.8	3.8	3.8	3.8	3.8	3.8	3.8	3.8	3.8	3.8	3.8	3.8	3.8	3.8	3.8	3.8	3.8	3.8	3.8	3.8	3.8	3.8	3.8	3.8	3.8	3.8	3.8	3.8	3.8	3.8	3.8	3.8	3.8	3.8	3.8	3.8	3.8	3.8	3.8	3.8	3.8	3.8	3.8	3.8	3.8	3.8	3.8	3.8	3.8	3.8	3.8	3.8	3.8	3.8	3.8	3.8	3.8	3.8	3.8	3.8	3.8	3.8	3.8	3.8	3.8	3.8	3.8	3.8	3.8	3.8	3.8	3.8	3.8	3.8	3.8	3.8	3.8	3.8	3.8	3.8	3.8	3.8	3.8	3.8	3.8	3.8	3.8	3.8	3.8	3.8	3.8	3.8	3.8	3.8	3.8	3.8	3.8	3.8	3.8	3.8	3.8	3.8	3.8	3.8	3.8	3.8	3.8	3.8	3.8	3.8	3.8	3.8	3.8	3.8	3.8	3.8	3.8	3.8	3.8	3.8	3.8	3.8	3.8	3.8	3.8	3.8	3.8	3.8	3.8	3.8	3.8	3.8	3.8	3.8	3.8	3.8	3.8	3.8	3.8	3.8	3.8	3.8	3.8	3.8	3.8	3.8	3.8	3.8	3.8	3.8	3.8	3.8	3.8	3.8	3.8	3.8	3.8	3.8	3.8	3.8	3.8	3.8	3.8	3.8	3.8	3.8	3.8	3.8	3.8	3.8	3.8	3.8	3.8	3.8	3.8	3.8	3.8	3.8	3.8	3.8	3.8	3.8	3.8	3.8	3.8	3.8	3.8	3.8	3.8	3.8	3.8	3.8	3.8	3.8	3.8	3.8	3.8	3.8	3.8	3.8	3.8	3.8	3.8	3.8	3.8	3.8	3.8	3.8	3.8	3.8	3.8	3.8	3.8	3.8	3.8	3.8	3.8	3.8	3.8	3.8	3.8	3.8	3.8	3.8	3.8	3.8	3.8	3.8	3.8	3.8	3.8	3.8	3.8	3.8	3.8	3.8	3.8	3.8	3.8	3.8	3.8	3.8	3.8	3.8	3.8	3.8	3.8	3.8	3.8	3.8	3.8	3.8	3.8	3.8	3.8	3.8	3.8	3.8	3.8	3.8	3.8	3.8	3.8	3.8	3.8	3.8	3.8	3.8	3.8	3.8	3.8	3.8	3.8	3.8	3.8	3.8	3.8	3.8	3.8	3.8	3.8	3.8	3.8	3.8	3.8	3.8	3.8	3.8	3.8	3.8	3.8	3.8	3.8	3.8	3.8	3.8	3.8	3.8	3.8	3.8	3.8	3.8	3.8	3.8	3.8	3.8	3.8	3.8	3.8	3.8	3.8	3.8	3.8	3.8	3.8	3.8	3.8	3.8	3.8	3.8	3.8	3.8	3.8	3.8	3.8	3.8	3.8	3.8	3.8	3.8	3.8	3.8	3.8	3.8	3.8	3.8	3.8	3.8	3.8	3.8	3.8	3.8	3.8	3.8	3.8	3.8	3.8	3.8	3.8	3.8	3.8	3.8	3.8	3.8	3.8	3.8	3.8	3.8	3.8	3.8	3.8	3.8	3.8	3.8	3.8	3.8	3.8	3.8	3.8	3.8	3.8	3.8	3.8	3.8	3.8	3.8	3.8	3.8	3.8	3.8	3.8	3.8	3.8	3.8	3.8	3.8	3.8	3.8	3.8	3.8	3.8	3.8	3.8	3.8	3.8	3.8	3.8	3.8	3.8	3.8	3.8	3.8	3.8	3.8	3.8	3.8	3.8	3.8	3.8	3.8	3.8	3.8	3.8	3.8	3.8	3.8	3.8	3.8	3.8	3.8	3.8	3.8	3.8	3.8	3.8	3.8	3.8	3.8	3.8	3.8	3.8	3.8	3.8	3.8	3.8	3.8	3.8	3.8	3.8	3.8	3.8	3.8	3.8	3.8	3.8	3.8	3.8	3.8	3.8	3.8	3.8	3.8	3.8	3.8	3.8	3.8	3.8	3.8	3.8	3.8	3.8	3.8	3.8	3.8	3.8	3.8	3.8	3.8	3.8	3.8	3.8	3.8	3.8	3.8	3.8	3.8	3.8	3.8	3.8	3.8	3.8</



16533	GAIKWAD MONIKA SHARAD	5	9	9	23	3.2	5.65	5.9	9.1	5.65	0.14	5.8	5.8	5.8	5.8	5.8	5.8	5.8	5.8	5.8	5.8	5.8	5.8	5.8	5.8	5.8	5.8	5.8	5.8	5.8	5.8	5.8	5.8	5.8	5.8	5.8	5.8	5.8	5.8	5.8	5.8	5.8	5.8	5.8	5.8	5.8	5.8	5.8	5.8	5.8	5.8	5.8	5.8	5.8	5.8	5.8	5.8	5.8	5.8	5.8	5.8	5.8	5.8	5.8	5.8	5.8	5.8	5.8	5.8	5.8	5.8	5.8	5.8	5.8	5.8	5.8	5.8	5.8	5.8	5.8	5.8	5.8	5.8	5.8	5.8	5.8	5.8	5.8	5.8	5.8	5.8	5.8	5.8	5.8	5.8	5.8	5.8	5.8	5.8	5.8	5.8	5.8	5.8	5.8	5.8	5.8	5.8	5.8	5.8	5.8	5.8	5.8	5.8	5.8	5.8	5.8	5.8	5.8	5.8	5.8	5.8	5.8	5.8	5.8	5.8	5.8	5.8	5.8	5.8	5.8	5.8	5.8	5.8	5.8	5.8	5.8	5.8	5.8	5.8	5.8	5.8	5.8	5.8	5.8	5.8	5.8	5.8	5.8	5.8	5.8	5.8	5.8	5.8	5.8	5.8	5.8	5.8	5.8	5.8	5.8	5.8	5.8	5.8	5.8	5.8	5.8	5.8	5.8	5.8	5.8	5.8	5.8	5.8	5.8	5.8	5.8	5.8	5.8	5.8	5.8	5.8	5.8	5.8	5.8	5.8	5.8	5.8	5.8	5.8	5.8	5.8	5.8	5.8	5.8	5.8	5.8	5.8	5.8	5.8	5.8	5.8	5.8	5.8	5.8	5.8	5.8	5.8	5.8	5.8	5.8	5.8	5.8	5.8	5.8	5.8	5.8	5.8	5.8	5.8	5.8	5.8	5.8	5.8	5.8	5.8	5.8	5.8	5.8	5.8	5.8	5.8	5.8	5.8	5.8	5.8	5.8	5.8	5.8	5.8	5.8	5.8	5.8	5.8	5.8	5.8	5.8	5.8	5.8	5.8	5.8	5.8	5.8	5.8	5.8	5.8	5.8	5.8	5.8	5.8	5.8	5.8	5.8	5.8	5.8	5.8	5.8	5.8	5.8	5.8	5.8	5.8	5.8	5.8	5.8	5.8	5.8	5.8	5.8	5.8	5.8	5.8	5.8	5.8	5.8	5.8	5.8	5.8	5.8	5.8	5.8	5.8	5.8	5.8	5.8	5.8	5.8	5.8	5.8	5.8	5.8	5.8	5.8	5.8	5.8	5.8	5.8	5.8	5.8	5.8	5.8	5.8	5.8	5.8	5.8	5.8	5.8	5.8	5.8	5.8	5.8	5.8	5.8	5.8	5.8	5.8	5.8	5.8	5.8	5.8	5.8	5.8	5.8	5.8	5.8	5.8	5.8	5.8	5.8	5.8	5.8	5.8	5.8	5.8	5.8	5.8	5.8	5.8	5.8	5.8	5.8	5.8	5.8	5.8	5.8	5.8	5.8	5.8	5.8	5.8	5.8	5.8	5.8	5.8	5.8	5.8	5.8	5.8	5.8	5.8	5.8	5.8	5.8	5.8	5.8	5.8	5.8	5.8	5.8	5.8	5.8	5.8	5.8	5.8	5.8	5.8	5.8	5.8	5.8	5.8	5.8	5.8	5.8	5.8	5.8	5.8	5.8	5.8	5.8	5.8	5.8	5.8	5.8	5.8	5.8	5.8	5.8	5.8	5.8	5.8	5.8	5.8	5.8	5.8	5.8	5.8	5.8	5.8	5.8	5.8	5.8	5.8	5.8	5.8	5.8	5.8	5.8	5.8	5.8	5.8	5.8	5.8	5.8	5.8	5.8	5.8	5.8	5.8	5.8	5.8	5.8	5.8	5.8	5.8	5.8	5.8	5.8	5.8	5.8	5.8	5.8	5.8	5.8	5.8	5.8	5.8	5.8	5.8	5.8	5.8	5.8	5.8	5.8	5.8	5.8	5.8	5.8	5.8	5.8	5.8	5.8	5.8	5.8	5.8	5.8	5.8	5.8	5.8	5.8	5.8	5.8	5.8	5.8	5.8	5.8	5.8	5.8	5.8	5.8	5.8	5.8	5.8	5.8	5.8	5.8	5.8	5.8	5.8	5.8	5.8	5.8	5.8	5.8	5.8	5.8	5.8	5.8	5.8	5.8	5.8	5.8	5.8	5.8	5.8	5.8	5.8	5.8	5.8	5.8	5.8	5.8	5.8	5.8	5.8	5.8	5.8	5.8	5.8	5.8	5.8	5.8	5.8	5.8	5.8	5.8	5.8	5.8	5.8	5.8	5.8	5.8	5.8	5.8	5.8	5.8	5.8	5.8	5.8	5.8	5.8	5.8	5.8	5.8	5.8	5.8	5.8	5.8	5.8	5.8	5.8	5.8	5.8	5.8	5.8	5.8	5.8	5.8	5.8	5.8	5.8	5.8	5.8	5.8	5.8	5.8	5.8	5.8	5.8	5.8	5.8	5.8	5.8	5.8	5.8	5.8	5.8	5.8	5.8	5.8	5.8	5.8	5.8	5.8	5.8	5.8	5.8	5.8	5.8	5.8	5.8	5.8	5.8	5.8	5.8	5.8	5.8	5.8	5.8	5.8	5.8	5.8	5.8	5.8	5.8	5.8	5.8	5.8	5.8	5.8	5.8	5.8	5.8	5.8	5.8	5.8	5.8	5.8	5.8	5.8	5.8	5.8	5.8	5.8	5.8	5.8	5.8	5.8	5.8	5.8	5.8	5.8	5.8	5.8	5.8	5.8	5.8	5.8	5.8	5.8	5.8	5.8	5.8	5.8	5.8	5.8	5.8	5.8	5.8	5.8	5.8	5.8	5.8	5.8	5.8	5.8	5.8	5.8	5.8	5.8	5.8	5.8	5.8	5.8	5.8	5.8	5.8	5.8	5.8	5.8	5.8	5.8	5.8	5.8	5.8	5.8	5.8	5.8	5.8	5.8	5.8	5.8	5.8	5.8	5.8	5.8	5.8	5.8	5.8	5.8	5.8	5.8	5.8	5.8	5.8	5.8	5.8	5.8	5.8	5.8	5.8	5.8	5.8	5.8	5.8	5.8	5.8	5.8	5.8	5.8	5.8	5.8	5.8	5.8	5.8	5.8	5.8	5.8	5.8	5.8	5.8	5.8	5.8	5.8	5.8	5.8	5.8	5.8	5.8	5.8	5.8	5.8	5.8	5.8	5.8	5.8	5.8	5.8	5.8	5.8	5.8	5.8	5.8	5.8	5.8	5.8	5.8	5.8	5.8	5.8	5.8	5.8	5.8	5.8	5.8	5.8	5.8	5.8	5.8	5.8	5.8	5.8	5.8	5.8	5.8	5.8	5.8	5.8	5.8	5.8	5.8	5.8	5.8	5.8	5.8	5.8	5.8	5.8	5.8	5.8	5.8	5.8	5.8	5.8	5.8	5.8	5.8	5.8	5.8	5.8	5.8	5.8	5.8	5.8	5.8	5.8	5.8	5.8	5.8	5.8	5.8	5.8	5.8	5.8	5.8	5.8	5.8	5.8	5.8	5.8	5.8	5.8	5.8	5.8	5.8	5.8	5.8	5.8	5.8	5.8	5.8	5.8	5.8	5.8	5.8	5.8	5.8	5.8	5.8	5.8	5.8	5.8	5.8	5.8	5.8	5.8	5.8	5.8	5.8	5.8	5.8	5.8	5.8	5.8	5.8	5.8	5.8	5.8	5.8	5.8	5.8	5.8	5.8	5.8	5.8	5.8	5.8	5.8	5.8	5.8	5.8	5.8	5.8	5.8	5.8	5.8	5.8	5.8	5.8	5.8	5.8	5.8	5.8	5.8	5.8	5.8	5.8	5.8	5.8	5.8	5.8	5.8	5.8	5.8	5.8	5.8	5.8	5.8	5.8	5.8	5.8	5.8	5.8	5.8	5.8	5.8	5.8	5.8	5.8	5.8	5.8	5.8	5.8	5.8	5.8	5.8	5.8	5.8	5.8	5.8	5.8	5.8	5.8	5.8	5.8	5.8	5.8	5.8	5.8	5.8	5.8	5.8	5.8	5.8	5.8	5.8	5.8	5.8	5.8	5.8	5.8	5.8	5.8	5.8	5.8	5.8	5.8	5.8	5.8	5.8	5.8	5.8	5.8	5.8	5.8	5.8	5.8	5.8	5.8	5.8	5.8	5.8	5.8	5.8	5.8	5.8	5.8	5.8	5.8	5.8	5.8	5.8	5.8	5.8	5.8	5.8	5.8	5.8	5.8	5.8	5.8	5.8	5.8	5.8	5.8	5.8	5.8	5.8	5.8	5.8	5.8	5.8	5.8	5.8	5.8	5.8	5.8	5.8	5.8	5.8	5.8	5.8	5.8	5.8	5.8	5.8	5.8	5.8	5.8	5.8	5.8	5.8	5.8	5.8	5.8	5.8	5.8	5.8	5.8	5.8	5.8	5.8	5.8	5.8	5.8	5.8	5.8	5.8	5.8	5.8	5.8	5.8	5.8	5.8	5.8	5.8	5.8	5.8	5.8	5.8	5.8	5.8	5.8
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16571	JARAD PRATIKSHA BALASO	5	9	9	23	3.2	5.65	5.9	9.1	5.65	009	4.6	4.6	4.6	4.6	4.6	4.6	009
16572	JATHAR MANISH SUNIL	5	10	9	24	3.4	6.05	6.3	9.7	6.05	005	4.2	4.2	4.2	4.2	4.2	4.2	005
16573	KADAM SANDIP SUNIL	4	10	10	24	3.4	6.2	6.4	9.8	6.2	018	9.8	9.8	9.8	9.8	9.8	9.8	018
16574	KADAM VAIBHAVI SANTOSH	5	9	10	24	3.3	5.85	6.1	9.4	5.85	013	5.6	5.6	5.6	5.6	5.6	5.6	013
16575	KAKADE AISHWARYA KAILAS	5	10	9	24	3.4	6.05	6.3	9.7	6.05	003	2.2	2.2	2.2	2.2	2.2	2.2	003
16576	KALDATE TUSHAR SATISH	5	9	9	23	3.2	5.65	5.9	9.1	5.65	004	5.8	5.8	5.8	5.8	5.8	5.8	004
16577	KALE NIKHIL RAMESH	5	9	9	23	3.2	5.65	5.9	9.1	5.65	007	10.6	10.6	10.6	10.6	10.6	10.6	007
16578	KALE SAKSHI VINAYAK	5	9	9	23	3.2	5.65	5.9	9.1	5.65	005	8.4	8.4	8.4	8.4	8.4	8.4	005
16579	KALE SHIVAM RAJENDRA	4	8	8	20	2.8	5	5.2	8	5	006	2.6	2.6	2.6	2.6	2.6	2.6	006
16580	KALE SNEHA KISHOR	5	9	9	23	3.2	5.65	5.9	9.1	5.65	009	4.6	4.6	4.6	4.6	4.6	4.6	009
16581	KALE SUPRIYA PARSHURAM	5	10	9	24	3.4	6.05	6.3	9.7	6.05	008	2.8	2.8	2.8	2.8	2.8	2.8	008
16582	KAMBLE AKASH SHRAVAN	4	9	8	21	3	5.4	5.6	8.6	5.4	002	2.8	2.8	2.8	2.8	2.8	2.8	002
16583	KAMBLE GAURI JITENDRA	5	9	9	23	3.2	5.65	5.9	9.1	5.65	009	2.6	2.6	2.6	2.6	2.6	2.6	009
16584	KANGUDE SAYALI SURESH	5	10	9	24	3.4	6.05	6.3	9.7	6.05	013	2.6	2.6	2.6	2.6	2.6	2.6	013
16585	KAPSE DIPALI ANIL	5	10	9	24	3.4	6.05	6.3	9.7	6.05	018	6.6	6.6	6.6	6.6	6.6	6.6	018
16586	KHABALE PATIL SHWETALI PRABHAKA	5	8	10	23	3.1	5.45	5.7	8.8	5.45	012	7.8	7.8	7.8	7.8	7.8	7.8	012
16587	KHALATE SAKSHI UDAY	5	8	8	21	2.9	5.05	5.3	8.2	5.05	006	4.6	4.6	4.6	4.6	4.6	4.6	006
16588	KHALATE SIDDHI SOMNATH	5	9	9	23	3.2	5.65	5.9	9.1	5.65	011	8.4	8.4	8.4	8.4	8.4	8.4	011
16589	KHAMGAL BHAVANA KONDIBHAU	4	9	8	21	3	5.4	5.6	8.6	5.4	021	9.2	9.2	9.2	9.2	9.2	9.2	021
16590	KHANDEKAR CHAITANYA SUDHIR	5	10	9	24	3.4	6.05	6.3	9.7	6.05	018	7.6	7.6	7.6	7.6	7.6	7.6	018
16591	KHOMANE GAURI DATTATRAY	5	10	9	24	3.4	6.05	6.3	9.7	6.05	008	5.6	5.6	5.6	5.6	5.6	5.6	008
16592	KILOR APURVA DADARAO	5	9	9	23	3.2	5.65	5.9	9.1	5.65	018	5.6	5.6	5.6	5.6	5.6	5.6	018
16593	KOKARE BHUSHAN BALASO	5	9	8	22	3.1	5.45	5.7	8.8	5.45	023	8.8	8.8	8.8	8.8	8.8	8.8	023
16594	KOLAPKAR SANIKA GANESH	5	9	9	23	3.2	5.65	5.9	9.1	5.65	010	5.8	5.8	5.8	5.8	5.8	5.8	010
16595	KOLEKAR AMAR RAJENDRA	5	10	8	23	3.3	5.85	6.1	9.4	5.85	007	4.6	4.6	4.6	4.6	4.6	4.6	007
16596	KOLHE SARTHAK TUKARAM	5	10	9	24	3.4	6.05	6.3	9.7	6.05	005	5.6	5.6	5.6	5.6	5.6	5.6	005
16597	KORATKAR AKSHAY RAJENDRA	5	10	9	24	3.4	6.05	6.3	9.7	6.05	008	4.6	4.6	4.6	4.6	4.6	4.6	008
16598	KSHETRE APURV SANJAY	5	9	8	22	3.1	5.45	5.7	8.8	5.45	018	5.2	5.2	5.2	5.2	5.2	5.2	018
16599	KSHIRSAGAR ADIRAJ SHANKAR	5	9	8	22	3.1	5.45	5.7	8.8	5.45	014	7.6	7.6	7.6	7.6	7.6	7.6	014
16600	KULKARNI PIYUSH PADMAKAR	5	10	9	24	3.4	6.05	6.3	9.7	6.05	011	7.6	7.6	7.6	7.6	7.6	7.6	011
16601	KUMBHAR NIKITA SHIVAJI	5	9	9	23	3.2	5.65	5.9	9.1	5.65	008	5.8	5.8	5.8	5.8	5.8	5.8	008
16602	LAKADE SHRADDHA KUNDAN	5	10	9	24	3.4	6.05	6.3	9.7	6.05	009	4.8	4.8	4.8	4.8	4.8	4.8	009
16603	LAMBHATE PRERANA UMESH	5	10	9	24	3.4	6.05	6.3	9.7	6.05	006	4.6	4.6	4.6	4.6	4.6	4.6	006
16604	LAVAND MAYURI NANASO	5	10	9	24	3.4	6.05	6.3	9.7	6.05	009	7.8	7.8	7.8	7.8	7.8	7.8	009
16605	LENGARE AMOL BIRUDEV	5	10	9	24	3.4	6.05	6.3	9.7	6.05	007	7.8	7.8	7.8	7.8	7.8	7.8	007
16606	LILHARE HEENA PAVAN	5	9	9	23	3.2	5.65	5.9	9.1	5.65	007	5.2	5.2	5.2	5.2	5.2	5.2	007
16607	MAHADIK ANUSHKA ANIL	5	9	9	23	3.2	5.65	5.9	9.1	5.65	005	7.6	7.6	7.6	7.6	7.6	7.6	005
16608	MAHALINGE OMKAR MOHAN	4	10	9	23	3.2	5.65	6.2	9.5	6	008	4.8	4.8	4.8	4.8	4.8	4.8	008



[illegible]

16647	RANANAVARE SNEHAL SANJAY	4	9	9	22	3.1	5.6	5.8	8.9	5.6	009	9.2	9.2	9.2	9.2	9.2	9.2	009
16648	RAUT ALOK MACHINDRA	4	8	8	20	2.8	5	5.2	8	5	0	5.4	5.4	5.4	5.4	5.4	5.4	0
16649	RAUT ANIKET HANUMANT	5	8	6	19	2.7	4.65	4.9	7.6	4.65	018	8.2	8.2	8.2	8.2	8.2	8.2	018
16650	SALUNKHE MANSI MADHUKAR	5	10	9	24	3.4	6.05	6.3	9.7	6.05	018	8.8	8.8	8.8	8.8	8.8	8.8	018
16651	SATAV PRATIKSHA GANESH	4	10	9	23	3.3	6	6.2	9.5	6	006	7.6	7.6	7.6	7.6	7.6	7.6	006
16652	SAWANT DIVYA SANJAY	5	10	9	24	3.4	6.05	6.3	9.7	6.05	019	7.6	7.6	7.6	7.6	7.6	7.6	019
16653	SAWANT ANKITA LAHU	4	9	9	22	3.1	5.6	5.8	8.9	5.6	021	5.6	5.6	5.6	5.6	5.6	5.6	021
16654	SAYYAD AMAN ASLAM	4	8	9	21	2.9	5.2	5.4	8.3	5.2	018	4.8	4.8	4.8	4.8	4.8	4.8	018
16655	SHAIKH ALISHA AJJI	4	9	9	22	3.1	5.6	5.8	8.9	5.6	0	5.2	5.2	5.2	5.2	5.2	5.2	0
16656	SHAIKH JAVED TAYYAB	4	8	9	21	2.9	5.2	5.4	8.3	5.2	004	8.4	8.4	8.4	8.4	8.4	8.4	004
16657	SHELAR SAURABH ANIL	5	8	9	22	3	5.25	5.5	8.5	5.25	003	4.6	4.6	4.6	4.6	4.6	4.6	003
16658	SHELKE PRERANA DASHRATH	4	9	8	21	3	5.4	5.6	8.6	5.4	0	5.4	5.4	5.4	5.4	5.4	5.4	0
16659	SHENDE MEGHA BAPURAO	5	10	9	24	3.4	6.05	6.3	9.7	6.05	022	8.4	8.4	8.4	8.4	8.4	8.4	022
16660	SHENDGE PRIYA DADASO	5	10	9	24	3.4	6.05	6.3	9.7	6.05	021	10.6	10.6	10.6	10.6	10.6	10.6	021
16661	SHINDE NIKHIL KRISHNA	4	9	9	22	3.1	5.6	5.8	8.9	5.6	018	4.8	4.8	4.8	4.8	4.8	4.8	018
16662	SHINDE PAYAL RAMESH	4	9	9	22	3.1	5.6	5.8	8.9	5.6	004	4.6	4.6	4.6	4.6	4.6	4.6	004
16663	SHINDE PRATHAMESH AGATRAO	4	9	9	22	3.1	5.6	5.8	8.9	5.6	010	4.8	4.8	4.8	4.8	4.8	4.8	010
16664	SHINDE PRIYA SANTOSH	5	10	9	24	3.4	6.05	6.3	9.7	6.05	012	4.6	4.6	4.6	4.6	4.6	4.6	012
16665	SHINDE ROHINI HARIBHAU	5	8	8	21	2.9	5.05	5.3	8.2	5.05	018	3.8	3.8	3.8	3.8	3.8	3.8	018
16666	SHINDE SAYALI VISHWAS	5	9	9	23	3.2	5.65	5.9	9.1	5.65	008	7.6	7.6	7.6	7.6	7.6	7.6	008
16667	SHINDE SONIYA SHAHAJI	5	10	9	24	3.4	6.05	6.3	9.7	6.05	008	5.8	5.8	5.8	5.8	5.8	5.8	008
16668	SINGARE AKSHAY AJAYKUMAR	4	9	8	21	6.867	6.867	9.117	7.6	4.567	018	5.8	5.8	5.8	5.8	5.8	5.8	018
16669	SUNE SANSKRUTI SANDIP	5	10	9	24	6.867	6.867	9.117	7.6	4.567	018	4.6	4.6	4.6	4.6	4.6	4.6	018
16670	SUPEKAR KAJAL RAJENDRA	4	9	9	22	6.867	6.867	9.117	7.6	4.567	018	9.8	9.8	9.8	9.8	9.8	9.8	018
16671	SURAVASE TUKARAM MADHUKAR	4	9	8	21	6.867	6.867	9.117	7.6	4.567	012	7.6	7.6	7.6	7.6	7.6	7.6	012
16672	TAMHANE MADHURI DADASO	5	10	9	24	6.867	6.867	9.117	7.6	4.567	018	7.6	7.6	7.6	7.6	7.6	7.6	018
16673	TAWARE ASHWINI VIJAY	5	10	9	24	6.867	6.867	9.117	7.6	4.567	018	5.2	5.2	5.2	5.2	5.2	5.2	018
16674	TAWARE AYUSH MILIND	4	9	9	22	6.867	6.867	9.117	7.6	4.567	006	7.2	7.2	7.2	7.2	7.2	7.2	006
16675	TEKALE AMOL BABASO	4	9	8	21	6.867	6.867	9.117	7.6	4.567	008	8.2	8.2	8.2	8.2	8.2	8.2	008
16676	THORAT GITANJALI VINAYAK	4	8	8	20	6.867	6.867	9.117	7.6	4.567	007	5.6	5.6	5.6	5.6	5.6	5.6	007
16677	THORAT SIDDHI MANOJ	5	9	9	23	6.867	6.867	9.117	7.6	4.567	008	6.2	6.2	6.2	6.2	6.2	6.2	008
16678	THOTE ARATI DNYANESHWAR	5	8	8	21	6.867	6.867	9.117	7.6	4.567	009	5.2	5.2	5.2	5.2	5.2	5.2	009
16679	TURE GOVIND SHANKAR	5	8	8	21	6.867	6.867	9.117	7.6	4.567	007	3.8	3.8	3.8	3.8	3.8	3.8	007
16680	UKIRDE SIMARAN SATISH	4	10	9	24	6.867	6.867	9.117	7.6	4.567	004	4.8	4.8	4.8	4.8	4.8	4.8	004
16681	VAREKAR JOTIRAM DATTATRAY	4	9	9	22	6.867	6.867	9.117	7.6	4.567	007	7.6	7.6	7.6	7.6	7.6	7.6	007
16682	VYAVHARE ARATI SUNIL	4	10	9	23	6.867	6.867	9.117	7.6	4.567	012	5.6	5.6	5.6	5.6	5.6	5.6	012
16683	WAGHMODE AKASH BIRA	4	9	9	22	6.867	6.867	9.117	7.6	4.567	009	3.2	3.2	3.2	3.2	3.2	3.2	009



Internal Attainment									
Level of Attainment	3	3	3	3	3	3	3	3	3
& of attainment	1	1	1	1	1	1	1	1	1
Total Students	184	184	184	184	184	184	184	184	184
No. above Expected	184	184	184	184	184	184	184	184	184
Expected Marks	1.5	2.25	2.25	2.5	4	2.25	2.25	2.25	2.25
Expected % secured	50%								

External Attainment									
Level of Attainment	1	1	1	1	1	1	1	1	0
& of attainment	0.69565	0.69565	0.69565	0.69565	0.69565	0.69565	0.69565	0.69565	0
Total Students	184	184	184	184	184	184	184	184	121
No. above Expected	128	128	128	128	128	128	128	128	0
Expected Marks	5	5	5	5	5	5	5	5	0
Expected % secured	0.5								0

Direct Attainment		Internal	
C01	3	3	3
C02	3	3	3
C03	3	3	3
C04	3	3	3
C05	3	3	3
Average	3	3	3
Weightage	100%	100%	0%
Attainment	3	3	0





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| DTE Code: 6628 | MSBTE Code: 1712 | AICTE ID: 1-5986711 | AISHE Code: C-44576 |

Department of MCA

Academic Year 2025-2026

CO PO Mapping & Attainment

Name of Staff : Prof. More P.N
Designation : Assistant Professor
Course Name : Social Media Marketing
Course Code : SMM620MJ
SEM : III



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| Email: dsgoi@dattakala.edu | Web: www.dattakala.edu.in | Contact No. 9673002923, 9673400500 |

Subject Name	SOCIAL MEDIA MARKETING
Subject Code	SMM620MJ
Faculty Name	Prof. More P.N

Acedemic Year	2025-26
Semester	3

S.NO	Course Outcomes
CO1	Explain principles of Marketing, Digital Marketing and Social Media Marketing
CO2	Define social media marketing goals and strategy setting
CO3	Explain concepts and significance of Social Media and SEO
CO4	Compare various social media channels and their role in marketing strategy
CO5	Describe significance of content management and IT Act in social media marketing
S.NO	Programme Outcomes
PO1	Computing Knowledge -Apply knowledge of computing fundamentals, computing specialization, mathematics, and domain knowledge appropriate for the computing specialization to the abstraction and conceptualization of computing models from defined problems and requirements. business issues
PO2	Problem Analysis- Identify, formulate, research literature, and solve complex Computing problems reaching substantiated conclusions using fundamental principles of Mathematics, Computing sciences, and relevant domain disciplines.
PO3	Design & Development- Design and evaluate solutions for complex computing problems, and design and evaluate systems, components, or processes that meet specified needs with appropriate consideration for public health and safety, cultural, societal, and environmental considerations.
PO4	Research & Development -Use research-based knowledge and research methods including design of experiments, analysis and interpretation of data, and synthesis of information to provide valid conclusions.
PO5	Prompt Tool Usage- Create, select, adapt and apply appropriate techniques, resources, and modern computing tools to complex computing activities, with an understanding of the limitations
PO6	Ethical Practices- Understand and commit to professional ethics and cyber regulations, responsibilities, and norms of professional computing practice.
PO7	Life Long Learning- Recognize the need, and have the ability, to engage in independent learning for continual development as a Computing professional.
PO8	Professional Skills- Demonstrate knowledge and understanding of computing and management principles and apply these to one's own work, as a member and leader in a team, to manage projects and in
PO9	Communication Skills- Communicate effectively with the computing community, and with society at large, about complex computing activities by being able to comprehend and write effective reports, design documentation, effective presentations, and give and understand clear instructions.
PO10	Social Contribution- Understand and assess societal, environmental, legal, and cultural issues within local and global contexts, and the consequential responsibilities relevant to professional computing
PO11	Teamwork & Leadership- Function effectively as an individual and a member or leader in diverse teams and in multidisciplinary environments.
PO12	Innovation & Sustainability- Identify a timely opportunity and using innovation to pursue that opportunity to create value and wealth for the betterment of



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 | Email: dkgoi@dattakala.edu | Web: www.dattakala.edu.in | Contact No. 9673002923, 9673400500 |

Mapping /Alignment of CO's with PO's (Programme Articulation Matrix)												
	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12
CO1	2	2	1		2		1	1	2	2		
CO2	2	3	2	1	2		1	2	2		2	2
CO3	2	3	2	2	3		1	1	2			
CO4	2	3	3	1	3		1	3	3	1	2	2
CO5	2	2		1	2	3	1	1	2	3	1	2
Average	2.00	2.6	2	1.25	2.4	3	1	1.6	2.2	2	1.67	2
CO*PO	2.00	2.6	2	1.25	2.4	3.00	1.00	1.60	2.20	2.00	1.67	2.00

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

Internal Assessment Type	Description	Marks Assigned	Frequency	Weightage
Assignment	Understanding Of Topic & Content Quality	5	1	5
In Depth Viva	Skill ,Analytical Thinking ,Subject Knowledge,Particip	10	1	10
Case Study	real world software engineering Problems and propose	10	1	10





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Internal Evaluations					
CO's * Assessment	Assignments	In Depth Viva	Case Study	0	Total Internal
CO1	1	1	1		3
CO2	0.5	2	2		4.5
CO3	1	2	2		5
CO4	2	3	3		8
CO5	0.5	2	2		4.5
Total	10	5	10	0	25

CO's * Assessment	Assignments	In Depth Viva	Case Study	0	0	0	0
CO1	0.1	0.2	0.1				
CO2	0.05	0.4	0.2				
CO3	0.1	0.4	0.2				
CO4	0.2	0.6	0.3				
CO5	0.05	0.4	0.2				
Total	0.5	2	1	0	0	0	0





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Mapping /Alignment of CO's with PO's (Programme Articulation Matrix)												
	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12
CO1	2	2	1		2		1	1	2	2		
CO2	2	3	2	1	2		1	2	2		2	2
CO3	2	3	2	2	3		1	1	2			
CO4	2	3	3	1	3		1	3	3	1	2	2
CO5	2	2	2	1	2	3	1	1	2	3	1	2
Average	2.00	2.6	2	1.25	2.4	3	1	1.6	2.2	2	1.67	2
CO*PO	2.00	2.6	2	1.25	2.4	3.00	1.00	1.60	2.20	2.00	1.67	2.00

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

Internal Assessment Type	Description	Marks Assigned	Frequency	Weightage
Assignment	Understanding Of Topic & Content Quality	5	1	5
In Depth Viva	Skill ,Analytical Thinking ,Subject Knowledge,Particip	10	1	10
Case Study	real world software engineering Problems and propose	10	1	10





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Sl. No.	Name	Internals			Internal Total (25M)	CO1	CO2	CO3	CO4	CO5	External Total (50M)	CO1	CO2	CO3	CO4	CO5	Total
		In Depth Viva (5M)	Assignment (10M)	Case Study (10M)													
6684	HARKE ONKAR DATTATRAY	5	8	10	23	4.6	4.6	4.6	4.6	4.6	0	0	0	0	0	0	0
6685	ANURAG TUKARAM NAGMODE	5	9	10	24	4.8	4.8	4.8	4.8	4.8	12	2.4	2.4	2.4	2.4	2.4	12
6686	ATTAR ALIYA AYUB	4	8	10	22	4.4	4.4	4.4	4.4	4.4	21	4.2	4.2	4.2	4.2	4.2	21
6687	AWALE VISHAL POPAT	5	8	10	23	4.6	4.6	4.6	4.6	4.6	20	4	4	4	4	4	20
6688	BHARATE SWAPNIL PRADIP	5	9	10	24	4.8	4.8	4.8	4.8	4.8	20	4	4	4	4	4	20
6689	BHOITE NIKITA BAPURAO	4	7	10	21	4.2	4.2	4.2	4.2	4.2	20	4	4	4	4	4	20
6690	BHOSALE DIKSHA ANNA	5	8	10	23	4.6	4.6	4.6	4.6	4.6	20	4	4	4	4	4	20
6691	BHOSALE PRADNYA PRAMOD	5	9	10	24	4.8	4.8	4.8	4.8	4.8	23	4.6	4.6	4.6	4.6	4.6	23
6692	BHOSALE TEJASWINI ANIL	4	8	10	22	4.4	4.4	4.4	4.4	4.4	20	4	4	4	4	4	20
6693	BOKIL PRERNA PRASHNAT	4	8	10	22	4.4	4.4	4.4	4.4	4.4	13	2.6	2.6	2.6	2.6	2.6	13
6694	BUKTARE SUMEDH UTTAM	5	8	10	23	4.6	4.6	4.6	4.6	4.6	20	4	4	4	4	4	20
6695	CHANDGUDE MADHURI ANIL	5	8	10	23	4.6	4.6	4.6	4.6	4.6	24	4.8	4.8	4.8	4.8	4.8	24
6696	CHAUDHARI OM SURENDRA	5	9	10	24	4.8	4.8	4.8	4.8	4.8	21	4.2	4.2	4.2	4.2	4.2	21
6697	CHAVAN ANIKET AMBADAS	4	8	10	22	4.4	4.4	4.4	4.4	4.4	20	4	4	4	4	4	20
6698	CHAVAN APEKSHA RAJU	5	8	10	23	4.6	4.6	4.6	4.6	4.6	25	5	5	5	5	5	25
6700	CHAVAN SAGAR ATMARAM	5	9	10	24	4.8	4.8	4.8	4.8	4.8	20	4	4	4	4	4	20
6701	CHAVAN SHRADDHA SHANKAR	4	7	10	21	4.2	4.2	4.2	4.2	4.2	15	3	3	3	3	3	15
6702	DALVI KAJAL RAMESH	5	8	10	23	4.6	4.6	4.6	4.6	4.6	20	4	4	4	4	4	20
6703	DAMAL KAVERI ASHOK	5	9	10	24	4.8	4.8	4.8	4.8	4.8	11	2.2	2.2	2.2	2.2	2.2	11
6704	DANE TANMAY ANANDRAO	4	8	10	22	4.4	4.4	4.4	4.4	4.4	14	2.8	2.8	2.8	2.8	2.8	14
6705	DARADE SUYASH HANUMANT	4	8	10	22	4.4	4.4	4.4	4.4	4.4	20	4	4	4	4	4	20
6706	DEVADE SHRIKRUSHNA HANUMANT	5	8	10	23	4.6	4.6	4.6	4.6	4.6	11	2.2	2.2	2.2	2.2	2.2	11
6707	DHOBE SHUBHAM SANJAY	5	8	10	23	4.6	4.6	4.6	4.6	4.6	12	2.4	2.4	2.4	2.4	2.4	12
6708	GADADE RUPALI HANUMANT	5	9	10	24	4.8	4.8	4.8	4.8	4.8	21	4.2	4.2	4.2	4.2	4.2	21
6709	GALANDE SURAJ KONDIBA	4	8	10	22	4.4	4.4	4.4	4.4	4.4	13	2.6	2.6	2.6	2.6	2.6	13
6710	GAURAV KAILAS GAIKWAD	5	8	10	23	4.6	4.6	4.6	4.6	4.6	30	6	6	6	6	6	30
6711	GAURAV VINOD RAUT	5	9	10	24	4.8	4.8	4.8	4.8	4.8	22	4.4	4.4	4.4	4.4	4.4	22





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Seat No.	Name	Internals			Internal Total (25M)	CO1	CO2	CO3	CO4	CO5	External Total (50M)	CO1	CO2	CO3	CO4	CO5	Total
		In Depth Viva (5M)	Assignment (10M)	Case Study (10M)													
16712	GAVADE AKANKSHA RAJARAM	4	7	10	21	4.2	4.2	4.2	4.2	4.2	21	4.2	4.2	4.2	4.2	4.2	21
16713	GHORPADE GAYATRI ANIL	5	8	10	23	4.6	4.6	4.6	4.6	4.6	24	4.8	4.8	4.8	4.8	4.8	24
16714	GIRAME DIVYA DILIP	5	9	10	24	4.8	4.8	4.8	4.8	4.8	23	4.6	4.6	4.6	4.6	4.6	23
16715	GIRME ESHWARI SANJAY	4	8	10	22	4.4	4.4	4.4	4.4	4.4	0	0	0	0	0	0	0
16717	GUJAR NISARG KAILAS	4	8	10	22	4.4	4.4	4.4	4.4	4.4	20	4	4	4	4	4	20
16718	GUJAR RAHUL RAJENDRA	5	8	10	23	4.6	4.6	4.6	4.6	4.6	20	4	4	4	4	4	20
16719	GULDAGAD PRAJAKTA MOHAN	5	8	10	23	4.6	4.6	4.6	4.6	4.6	20	4	4	4	4	4	20
16720	INGALE SUSHILKUMAR MACHHINDRA	5	9	10	24	4.8	4.8	4.8	4.8	4.8	25	5	5	5	5	5	25
16721	JAGTAP ANUJA SUNIL	4	8	10	22	4.4	4.4	4.4	4.4	4.4	10	2	2	2	2	2	10
16722	KACHARE SAKSHI DATTATRAY	5	8	10	23	4.6	4.6	4.6	4.6	4.6	22	4.4	4.4	4.4	4.4	4.4	22
16723	KAD KALYANI RAMESH	5	9	10	24	4.8	4.8	4.8	4.8	4.8	22	4.4	4.4	4.4	4.4	4.4	22
16724	KADAM OMKAR VIJAY	4	7	10	21	4.2	4.2	4.2	4.2	4.2	20	4	4	4	4	4	20
16725	KADAM PRAVIN SITARAM	5	8	10	23	4.6	4.6	4.6	4.6	4.6	13	2.6	2.6	2.6	2.6	2.6	13
16726	KADAM SONALI ASHOK	5	9	10	24	4.8	4.8	4.8	4.8	4.8	22	4.4	4.4	4.4	4.4	4.4	22
16727	KAKADE LAXMAN PRATAP	4	8	10	22	4.4	4.4	4.4	4.4	4.4	11	2.2	2.2	2.2	2.2	2.2	11
16728	KAKADE ROHAN MANOHAR	4	8	10	22	4.4	4.4	4.4	4.4	4.4	21	4.2	4.2	4.2	4.2	4.2	21
16729	KALBHOR SRUSHTI SURYAKANT	5	8	10	23	4.6	4.6	4.6	4.6	4.6	21	4.2	4.2	4.2	4.2	4.2	21
16730	KALE SANJIVANI VILAS	5	8	10	23	4.6	4.6	4.6	4.6	4.6	22	4.4	4.4	4.4	4.4	4.4	22
16732	KARALE SAURABH KISAN	5	9	10	24	4.8	4.8	4.8	4.8	4.8	20	4	4	4	4	4	20
16733	KARDILE SHUBHAM SANJAY	4	7	10	21	4.2	4.2	4.2	4.2	4.2	16	3.2	3.2	3.2	3.2	3.2	16
16734	KAWADE PRAKISHA SOMNATH	5	8	10	23	4.6	4.6	4.6	4.6	4.6	20	4	4	4	4	4	20
16735	KHATAL ROHIT BALASAHEB	5	9	10	24	4.8	4.8	4.8	4.8	4.8	21	4.2	4.2	4.2	4.2	4.2	21
16736	MAHAMUNI PRATIKSHA SAMADHAN	4	8	10	22	4.4	4.4	4.4	4.4	4.4	20	4	4	4	4	4	20
16737	MONIKA JAGANNATH PATIL	4	8	10	22	4.4	4.4	4.4	4.4	4.4	20	4	4	4	4	4	20
16738	MORE NIKITA SUDDHIR	5	8	10	23	4.6	4.6	4.6	4.6	4.6	13	2.6	2.6	2.6	2.6	2.6	13
16739	MORE SHUBHAM SANTOSH	5	8	10	23	4.6	4.6	4.6	4.6	4.6	0	0	0	0	0	0	0
16740	MRUNALI HIRALAL BAGDE	5	9	10	24	4.8	4.8	4.8	4.8	4.8	13	2.6	2.6	2.6	2.6	2.6	13





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Seat No.	Name	Internals			Internal Total (25M)	CO1	CO2	CO3	CO4	CO5	External Total (50M)	CO1	CO2	CO3	CO4	CO5	Total
		In Depth Viva (5M)	Assign ment (10M)	Case Study (10M)													
16741	MUDKHEDKAR HARSHVARDHAN RAJENDRA	4	8	10	22	4.4	4.4	4.4	4.4	4.4	20	4	4	4	4	4	20
16743	NALE SAKSHI VITTHAL	5	8	10	23	4.6	4.6	4.6	4.6	4.6	14	2.8	2.8	2.8	2.8	2.8	14
16744	NANNAWARE VRUSHALI GORAKSHA	5	9	10	24	4.8	4.8	4.8	4.8	4.8	13	2.6	2.6	2.6	2.6	2.6	13
16745	NEHA MARUTI SHINDE	4	7	10	21	4.2	4.2	4.2	4.2	4.2	25	5	5	5	5	5	25
16748	PABALE GAUTAM SHAHAJI	5	8	10	23	4.6	4.6	4.6	4.6	4.6	11	2.2	2.2	2.2	2.2	2.2	11
16749	PAKHARE OMKAR RAJENDRA	5	9	10	24	4.8	4.8	4.8	4.8	4.8	24	4.8	4.8	4.8	4.8	4.8	24
16750	PANSARE RUTUJA GANESH	4	8	10	22	4.4	4.4	4.4	4.4	4.4	24	4.8	4.8	4.8	4.8	4.8	24
16751	PAREKAR LAXMAN SHIVAJI	4	8	10	22	4.4	4.4	4.4	4.4	4.4	20	4	4	4	4	4	20
16752	PATIL AJINKYA RAJENDRA	5	8	10	23	4.6	4.6	4.6	4.6	4.6	9	1.8	1.8	1.8	1.8	1.8	9
16753	PATIL BHAVESH SANJAY	5	8	10	23	4.6	4.6	4.6	4.6	4.6	16	3.2	3.2	3.2	3.2	3.2	16
16754	PATIL VAIBHAV PURUSHOTTAM	5	9	10	24	4.8	4.8	4.8	4.8	4.8	20	4	4	4	4	4	20
16755	PAWAR PRAJAKTA SANDIPAN	5	8	10	23	4.6	4.6	4.6	4.6	4.6	25	5	5	5	5	5	25
16756	PONDKULE PRASHANT GANPAT	5	9	10	24	4.8	4.8	4.8	4.8	4.8	21	4.2	4.2	4.2	4.2	4.2	21
16757	PREETAM SANDEEP KOKARE	4	7	10	21	4.2	4.2	4.2	4.2	4.2	20	4	4	4	4	4	20
16758	PRUTHVIRAJ DIPAK GADHAVE	5	8	10	23	4.6	4.6	4.6	4.6	4.6	14	2.8	2.8	2.8	2.8	2.8	14
16759	PUJA ZUMBAR WADEKAR	5	9	10	24	4.8	4.8	4.8	4.8	4.8	22	4.4	4.4	4.4	4.4	4.4	22
16760	PUKALE RAHUL RAMA	4	8	10	22	4.4	4.4	4.4	4.4	4.4	11	2.2	2.2	2.2	2.2	2.2	11
16761	ROHIT DATTU RANDIVE	4	8	10	22	4.4	4.4	4.4	4.4	4.4	9	1.8	1.8	1.8	1.8	1.8	9
16762	RUPNARWAR SAKSHI DADASO	5	8	10	23	4.6	4.6	4.6	4.6	4.6	25	5	5	5	5	5	25
16763	SADAMATE SANJIVANI DAYANAND	5	8	10	23	4.6	4.6	4.6	4.6	4.6	27	5.4	5.4	5.4	5.4	5.4	27
16764	SAKSHI ARVIND PONDAKULE	5	9	10	24	4.8	4.8	4.8	4.8	4.8	22	4.4	4.4	4.4	4.4	4.4	22
16765	SAMBHERAO DURGA RAJENDRA	4	8	10	22	4.4	4.4	4.4	4.4	4.4	14	2.8	2.8	2.8	2.8	2.8	14
16766	SASTE SIDDHI NITINKUMAR	5	8	10	23	4.6	4.6	4.6	4.6	4.6	23	4.6	4.6	4.6	4.6	4.6	23
16767	SHAIKH NILOFAR AHAMAD	5	9	10	24	4.8	4.8	4.8	4.8	4.8	26	5.2	5.2	5.2	5.2	5.2	26
16768	SHAIKH SAMINA CHAND	4	7	10	21	4.2	4.2	4.2	4.2	4.2	27	5.4	5.4	5.4	5.4	5.4	27
16769	SHAIKH SIMRAN JAVED	5	8	10	23	4.6	4.6	4.6	4.6	4.6	30	6	6	6	6	6	30
16770	SHELAR AJAY RAJENDRA	5	9	10	24	4.8	4.8	4.8	4.8	4.8	25	5	5	5	5	5	25





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		In Depth Viva (5M)	Assignment (10M)	Case Study (10M)	CO1	CO2	CO3	CO4	CO5		CO1	CO2	CO3	CO4	CO5
16771	SHEWALE SHUBHAM ROHIDAS	4	8	10	22	4.4	4.4	4.4	4.4	24	4.8	4.8	4.8	4.8	4.8
16772	SHINDE GEETANJALI SHRIKANT	4	8	10	22	4.4	4.4	4.4	4.4	29	5.8	5.8	5.8	5.8	5.8
16773	SHINDE VAIBHAV BALASO	5	8	10	23	4.6	4.6	4.6	4.6	27	5.4	5.4	5.4	5.4	5.4
16774	SURAVASE YOGITA MALHARI	5	8	10	23	4.6	4.6	4.6	4.6	30	6	6	6	6	6
16775	TAMBE POOJA BALASO	5	9	10	24	4.8	4.8	4.8	4.8	33	6.6	6.6	6.6	6.6	6.6
16776	TAMBOU ARIE RASHID	5	8	10	23	4.6	4.6	4.6	4.6	31	6.2	6.2	6.2	6.2	6.2
16777	TENGAL MAHIMA MOHAN	5	9	10	24	4.8	4.8	4.8	4.8	33	6.6	6.6	6.6	6.6	6.6
16778	THOMBARE SAYALI NAMDEV	4	7	10	21	4.2	4.2	4.2	4.2	28	5.6	5.6	5.6	5.6	5.6
16779	VAISHNAVI RAJENDRA KASAR	5	8	10	23	4.6	4.6	4.6	4.6	21	4.2	4.2	4.2	4.2	4.2
16780	VIRAJ VIJAYKUMAR JADHAV	5	9	10	24	4.8	4.8	4.8	4.8	27	5.4	5.4	5.4	5.4	5.4
16781	WALKE SONAL LAHU	4	8	10	22	4.4	4.4	4.4	4.4	23	4.6	4.6	4.6	4.6	4.6
16782	WARE HARSHWARDHAN SANTOSH	4	8	10	22	4.4	4.4	4.4	4.4	21	4.2	4.2	4.2	4.2	4.2
16783	WAVARE VISHAL MARUTI	5	8	10	23	4.6	4.6	4.6	4.6	26	5.2	5.2	5.2	5.2	5.2
16784	WAYDANDE VIKAS YUVRAJ	5	8	10	23	4.6	4.6	4.6	4.6	22	4.4	4.4	4.4	4.4	4.4
16785	YOGITA ANIL THORAT	5	9	10	24	4.8	4.8	4.8	4.8	33	6.6	6.6	6.6	6.6	6.6
16786	MORE SITARAM BHARAT	4	8	10	22	4.4	4.4	4.4	4.4	33	6.6	6.6	6.6	6.6	6.6
16787	NIDBANE ABHIJIT SHIVAJI	5	8	10	23	4.6	4.6	4.6	4.6	29	5.8	5.8	5.8	5.8	5.8
16788	SALGUDE SUPRIYA APPASO	5	9	10	24	4.8	4.8	4.8	4.8	30	6	6	6	6	6
16789	VAISHNAVI DEVIDAS BORKHADE	4	7	10	21	4.2	4.2	4.2	4.2	32	6.4	6.4	6.4	6.4	6.4
16790	WAWAGE RUTUJA DATTATRAYA	5	8	10	23	4.6	4.6	4.6	4.6	30	6	6	6	6	6
16791	BAGAL ANISHA TUKARAM	5	9	10	24	4.8	4.8	4.8	4.8	32	6.4	6.4	6.4	6.4	6.4
16792	KALOKHE SHUBHAM DATTATRAY	4	8	10	22	4.4	4.4	4.4	4.4	30	6	6	6	6	6
16793	KANASE VAIBHAV BABRUWAN	4	8	10	22	4.4	4.4	4.4	4.4	34	6.8	6.8	6.8	6.8	6.8
16794	PAWAR SNEHAL NAVNATH	5	8	10	23	4.6	4.6	4.6	4.6	27	5.4	5.4	5.4	5.4	5.4
16795	SAMIKSHA VIJAY GULHANE	5	8	10	23	4.6	4.6	4.6	4.6	29	5.8	5.8	5.8	5.8	5.8
16796	SHARAYU DILIP KULKARNI	5	9	10	24	4.8	4.8	4.8	4.8	33	6.6	6.6	6.6	6.6	6.6



Internal Attainment						
Level of Attainment	3	3	3	3	3	3
& of attainment	1	1	1	1	1	1
Total Students	184	184	184	184	184	184
No. above Expected	184	184	184	184	184	184
Expected Marks	1.5	2.25	2.5	4	2.25	
Expected % secured	50%					

External Attainment									
Level of Attainment	0	0	0	0	0	0	0	#DIV/0!	0
& of attainment	0.29907	0.29907	0.29907	0.29907	0.29907	0.29907	0.29907	#DIV/0!	0
Total Students	107	107	107	107	107	107	107	0	107
No. above Expected	32	32	32	32	32	32	32	0	0
Expected Marks	5	5	5	5	5	5	5	#REF!	0
Expected % secured	0.5								

	Direct Attainment		3
	Internal	Internal	
C01	3	3	
C02	3	3	
C03	3	3	
C04	3	3	
C05	3	3	
Average	3	3	
Weightage	100%	0%	
Attainment	3	0	





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Subject Name	MERN Stack Development	Acedemic Year	2025-26
Subject Code	MSD615MJ	Semester	3
Faculty Name	Prof.Kamble A.R		

S.NO	Course Outcomes
CO1	Build scalable and efficient server-side applications using Node.js and integrate them with MERN stack
CO2	Design schemas, perform CRUD operations, and integrate with Node.js applications using MongoDB
CO3	Develop RESTful APIs, implement middleware, and handle authentication for secure web applications using Express.js.
CO4	Create dynamic, interactive, and state-managed single-page applications (SPAs) with efficient UI components using ReactS
CO5	Integrate MongoDB, Express, React, and Node.js, and develop, deploy scalable MERN applications.
S.NO	Programme Outcomes
PO1	Computing Knowledge -Apply knowledge of computing fundamentals, computing specialization, mathematics, and domain knowledge appropriate for the computing specialization to the abstraction and conceptualization of computing models from defined problems and requirements. business
PO2	Problem Analysis- Identify, formulate, research literature, and solve complex Computing problems reaching substantiated conclusions using fundamental principles of Mathematics, Computing sciences, and relevant domain disciplines.
PO3	Design & Development- Design and evaluate solutions for complex computing problems, and design and evaluate systems, components, or processes that meet specified needs with appropriate consideration for public health and safety, cultural, societal, and environmental considerations.
PO4	Research & Development -Use research-based knowledge and research methods including design of experiments, analysis and interpretation of data, and synthesis of information to provide valid conclusions.
PO5	Prompt Tool Usage- Create, select, adapt and apply appropriate techniques, resources, and modern computing tools to complex computing activities, with an understanding of the limitations
PO6	Ethical Practices- Understand and commit to professional ethics and cyber regulations, responsibilities, and norms of professional computing practice.
PO7	Life Long Learning- Recognize the need, and have the ability, to engage in independent learning for continual development as a Computing professional.
PO8	Professional Skills- Demonstrate knowledge and understanding of computing and management principles and apply these to one's own work, as a member and leader in a team, to manage projects and in





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Mapping /Alignment of CO's with PO's (Programme Articulation Matrix)												
	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12
	3	2	2		3			2			1	
	3	3	2		3			2			1	
	3	3	3	1	3	2		2			1	
	2	2	3		3			2	1		1	2
	3	3	3	1	3	1	2	3	1	1	2	3
Age	2.80	2.6	2.6	1	3	1.5	2	2.2	1	1	1.2	2.5
PO	2.80	2.60	2.60	1.00	3.00	1.50	2.00	2.20	1.00	1.00	1.20	2.50

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

Internal Assessment Type	Description	Marks Assigned	Frequency	Weightage
Group Discussion	Communication Skill ,Analytical Thinking ,Subject Knowledge,Participation,TeamWork	5	1	5
Assignment	Understanding Of Topic & Content Quality	10	1	10
In Depth Viva	Clarity of Explanation ,Problem Solving Ability	10	1	10





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Internal Evaluations				
CO's * Assessment	Group Discussion	Assignment	In Depth Viva	Total Internal
CO1	1	2	1	4
CO2	0.5	1	2	3.5
CO3	1	2	2	5
CO4	2	2	3	7
CO5	0.5	3	2	5.5
CO6				
Total	5	10	10	25

CO's * Assessment	Presentation	Assignment	In Depth Viva			
CO1	0.2	0.2	0.1	0	0	0
CO2	0.1	0.1	0.2			
CO3	0.2	0.2	0.2			
CO4	0.4	0.2	0.3			
CO5	0.1	0.3	0.2			
CO6						
Total	1	1	1	0	0	0





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Seat No.	Name	Internals			Internal Total (25M)	CO1	CO2	CO3	CO4	CO5	External Total (50M)	CO1	CO2	CO3	CO4	CO5
		Group Discussion (15M)	Assignment (20M)	In Depth Viva (15M)												
16687	AWALE VISHAL POPAT	5	9	9	23	4.6	4.6	4.6	4.6	4.6	4	0.8	0.8	0.8	0.8	0.8
16697	CHAVAN ANIKET AMBADAS	4	9	9	22	4.4	4.4	4.4	4.4	4.4	25	5	5	5	5	5
16698	CHAVAN APEKSHA RAJU	5	10	9	24	4.8	4.8	4.8	4.8	4.8	20	4	4	4	4	4
16701	CHAVAN SHRADDHA SHANKAR	4	8	9	21	4.2	4.2	4.2	4.2	4.2	14	2.8	2.8	2.8	2.8	2.8
16704	DANE TANMAY ANANDRAO	5	9	9	23	4.6	4.6	4.6	4.6	4.6	8	1.6	1.6	1.6	1.6	1.6
16707	DHOBE SHUBHAM SANJAY	4	9	9	22	4.4	4.4	4.4	4.4	4.4	31	6.2	6.2	6.2	6.2	6.2
16733	KARDILE SHUBHAM SANTOSH	4	9	9	22	4.4	4.4	4.4	4.4	4.4	24	4.8	4.8	4.8	4.8	4.8
16739	MORE SHUBHAM SANTOSH	4	9	9	22	4.4	4.4	4.4	4.4	4.4	0	0	0	0	0	0
16751	PAREKAR LAXMAN SHIVAJI	5	9	9	23	4.6	4.6	4.6	4.6	4.6	27	5.4	5.4	5.4	5.4	5.4
16765	SAMBERAO DURGA RAJENDRA	4	8	9	21	4.2	4.2	4.2	4.2	4.2	20	4	4	4	4	4
16767	SHAIKH NILOFAR AHAMAD	4	9	9	22	4.4	4.4	4.4	4.4	4.4	28	5.6	5.6	5.6	5.6	5.6
16784	WAYDANDE VIKAS YUVRAJ	5	10	9	24	4.8	4.8	4.8	4.8	4.8	20	4	4	4	4	4
16791	BAGAL ANISHA TUKARAM	5	9	9	23	4.6	4.6	4.6	4.6	4.6	24	4.8	4.8	4.8	4.8	4.8
16795	SAMIKSHA VIJAY GULHANE	4	9	9	22	4.4	4.4	4.4	4.4	4.4	41	8.2	8.2	8.2	8.2	8.2



Internal Attainment									
Level of Attainment & of attainment	3	3	3	3	3	3	3	3	3
Total Students	1	1	1	1	1	1	1	1	1
No. above Expected	14	14	14	14	14	14	14	14	14
Expected Marks	14	14	14	14	14	14	14	14	14
Expected % secured	2.5	2.5	2.5	2.5	2.5	2.5	2.5	2.5	2.5
50%									

External Attainment									
Level of Attainment & of attainment	0	0	0	0	0	0	0	0	0
Total Students	0.35714	0.35714	0.35714	0.35714	0.35714	0.35714	0.35714	1.07143	0
No. above Expected	14	14	14	14	14	14	14	14	14
Expected Marks	5	5	5	5	5	5	5	15	0
Expected % secured	5	5	5	5	5	5	5	0	0
Expected % secured	0.5								

	Direct Attainment		3
	Internal	Internal	
C01	3	3	3
C02	3	3	3
C03	3	3	3
C04	3	3	3
C05	3	3	3
C06	3	3	3
Average	3	3	3
Weightage	100%	100%	100%
Attainment	3	3	3





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[DTE Code: 6628 | MSBTE Code: 1712 | AICTE ID: 1-5986711 | AISHE Code: C-44576]

Department of MCA

Academic Year 2025-2026

CO PO Mapping & Attainment

Name of Staff : Prof. Jadhav K.R
Designation : Assistant Professor
Course Name : Organizational Behaviour
Course Code : OBE601MJ
SEM : III



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S41/2, S27, Off Pune-Solapur Highway, Swami-Chincholi (Bhigwan), Tal - Daund, Dist. - Pune 413130 Maharashtra.
| Email: dkgoi@dattakala.edu | Web: www.dattakala.edu.in | Contact No. 9673002923, 9673400500 |

Subject Code	OBE601MJ
Faculty Name	Prof.Jadhav K.R.

Academic Year	2025-26
Semester	3

S.NO	Course Outcomes
CO1	Understand how individual behaviour influences organizational performance and culture.
CO2	Apply emotional intelligence and stress management strategies to improve workplace well-being and effectiveness. organizational leader and manager.
CO3	Apply group dynamics and decision-making models to enhance teamwork and organizational outcomes.
CO4	Analyse and apply motivational theories to improve employee's performance and organizational success.
CO5	Understand and adapt emerging trends in organizational behaviour and culture in a changing work environment.
S.NO	Programme Outcomes
PO1	Computing Knowledge - Apply knowledge of computing fundamentals, computing specialization, mathematics, and domain knowledge appropriate for the computing specialization to the abstraction and conceptualization of computing models from defined problems and requirements. business
PO2	Problem Analysis- Identify, formulate, research literature, and solve complex Computing problems reaching substantiated conclusions using fundamental principles of Mathematics, Computing sciences, and relevant domain disciplines.
PO3	Design & Development- Design and evaluate solutions for complex computing problems, and design and evaluate systems, components, or processes that meet specified needs with appropriate consideration for public health and safety, cultural, societal, and environmental considerations.
PO4	Research & Development -Use research-based knowledge and research methods including design of experiments, analysis and interpretation of data, and synthesis of information to provide valid conclusions.
PO5	Prompt Tool Usage- Create, select, adapt and apply appropriate techniques, resources, and modern computing tools to complex computing activities, with an understanding of the limitations
PO6	Ethical Practices- Understand and commit to professional ethics and cyber regulations, responsibilities, and norms of professional computing practice.
PO7	Life Long Learning- Recognize the need, and have the ability to engage in independent learning for continual development as a Computing professional.





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 | Email: dlkgd@datakala.edu | Web: www.datakala.edu.in | Contact No. 9673007923, 9673409500 |

Mapping /Alignment of CO's with PO's (Programme Articulation Matrix)												
	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12
CO1	1	1				2	1	2	2	2	2	
CO2						2	2	2	2	2	2	
CO3		2					1	3	2	2	2	
CO4		2	3	1	1	1	1	3	2		2	
CO5						2	2	2		2		2
Average	1.00	1.666667	3	1	1	1.75	1.4	2.4	2	2	2	2
CO*PO	1.00	1.67	3.00	1.00	1.00	1.75	1.40	2.40	2.00	2.00	2.00	2.00

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

Describe the assessment tools and processes used to gather the data upon which the evaluation of Course Outcome is based					
Internal Assessment Type	Description	Marks		Frequency	Weightage
		Assigned			
Group Discussion	Communication Skill ,Analytical Thinking ,Subject Knowledge,Participation,TeamWork	5		1	5
Assignment	Understanding Of Topic & Content Quality	10		1	10
In Depth Viva	Clarity of Explanation ,Problem Solving Ability	10		1	10



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 | Email: dkgoi@dattakala.edu | Web: www.dattakala.edu.in | Contact No. 9673002923, 9673400500 |

Internal Evaluations					
CO's * Assessment	Group Discussion	Assignment	In Depth Viva	0	Total Internal
CO1	1	2	1		4
CO2	0.5	1	2		3.5
CO3	1	2	2		5
CO4	2	2	3		7
CO5	0.5	3	2		5.5
CO6					
Total	5	10	10	0	25

CO's * Assessment	Group Discussion	Assignment	In Depth Viva	0	0	0	0
CO1	0.2	0.2	0.133333333				0
CO2	0.1	0.1	0.2				
CO3	0.2	0.2	0.2				
CO4	0.4	0.2	0.3				
CO5	0.1	0.3	0.2				
CO6							
Total	1	1	1	0	0	0	0



Seat No.	Name	Internals			Internal Total (25M)	COI					Total Exam	COI					Total
		Group Discussion (5M)	Assignment (10M)	In Depth Viva (15M)		CO1	CO2	CO3	CO4	CO5		CO1	CO2	CO3	CO4	CO5	
16715	GIRME ESHWARI SANJAY	4	8	8	20	6.933	6.933	9.167	7.6	4.467	008	1.6	1.6	1.6	1.6	1.6	8
16717	GUJAR NISARG KAILAS	4	9	9	22	7.133	7.133	9.433	7.8	4.533	010	2	2	2	2	2	14
16718	GUJAR RAHUL RAJENDRA	4	9	9	22	7.267	7.267	9.617	8	4.767	014	2.8	2.8	2.8	2.8	2.8	20
16719	GULDAGAD PRAJAKTA MOHAN	5	9	10	24	7.133	7.133	9.567	8	4.867	020	4	4	4	4	4	23
16720	INGALE SUSHILKUMAR MACHINDR	4	9	9	22	6.733	6.733	9.033	7.6	4.733	023	4.6	4.6	4.6	4.6	4.6	13
16721	JAGTAP ANUJA SUNIL	5	8	9	22	6.933	6.933	9.283	7.8	4.833	023	2.6	2.6	2.6	2.6	2.6	21
16722	KACHARE SAKSHI DATTATRAY	4	7	10	21	7.067	7.067	9.283	7.6	4.233	013	4.2	4.2	4.2	4.2	4.2	21
16723	KAD KALYANI RAMESH	4	10	10	24	7.067	7.067	9.367	7.8	4.667	021	4.2	4.2	4.2	4.2	4.2	24
16724	KADAM OMKAR VIJAY	3	9	10	22	7.133	7.133	9.45	7.8	4.5	021	4.2	4.2	4.2	4.2	4.2	26
16725	KADAM OMKAR VIJAY	4	9	9	22	6.8	6.8	9.05	7.6	4.7	024	4.8	4.8	4.8	4.8	4.8	9
16725	KADAM PRAVIN SITARAM	4	8	8	20	6.933	6.933	9.3	7.8	4.8	026	5.2	5.2	5.2	5.2	5.2	22
16726	KADAM SONALI ASHOK	4	8	8	20	7	7	9.267	7.6	4.267	009	1.8	1.8	1.8	1.8	1.8	22
16727	KAKADE LAXMAN PRATAP	4	8	8	20	7.133	7.133	9.433	7.8	4.533	022	4.4	4.4	4.4	4.4	4.4	20
16728	KAKADE ROHAN MANOHAR	4	8	8	20	6.867	6.867	9.15	7.6	4.5	020	4	4	4	4	4	22
16729	KALBHOR SRUSHTI SURYAKANT	3	9	9	21	7	7	9.367	7.8	4.667	022	4.4	4.4	4.4	4.4	4.4	23
16730	KALE SANJIVANI VILAS	4	10	10	24	6.933	6.933	9.167	7.6	4.467	023	4.6	4.6	4.6	4.6	4.6	13
16732	KARALE SAURABH KISAN	4	9	9	22	7.2	7.2	9.517	7.8	4.367	013	2.6	2.6	2.6	2.6	2.6	12
16733	KARDILE SHUBHAM SANJAY	4	9	9	22	6.867	6.867	9.083	7.6	4.633	012	2.4	2.4	2.4	2.4	2.4	21
16734	KAWADE PRATIKSHA SOMNATH	3	9	9	21	7.067	7.067	9.283	7.6	4.233	021	4.2	4.2	4.2	4.2	4.2	20
16735	KHATAL ROHIT BALASAHEB	4	8	8	20	7	7	9.2	7.6	4.4	020	4	4	4	4	4	13
16736	MAHAMUNI PRATIKSHA SAMADHAN	4	8	8	20	7.067	7.067	9.267	7.6	4.267	013	2.6	2.6	2.6	2.6	2.6	12
16737	MOINIK JAAGANNATH PATIL	4	8	8	20	7.133	7.133	9.45	7.8	4.5	012	2.4	2.4	2.4	2.4	2.4	20
16738	MORE NIKITA SUDHIR	4	8	8	20	6.933	6.933	9.25	7.8	4.9	0	0	0	0	0	0	0
16739	MORE SHUBHAM SANTOSH	3	8	10	21	7.333	7.333	9.7	8	4.6	020	4	4	4	4	4	20
16740	MRUNALI HIRALAL BAGDE	4	8	8	20	7.133	7.133	9.517	8	4.967	020	4	4	4	4	4	20
16741	MUDKHEKAR HARSHVARDHAN RA	4	8	8	20	7.067	7.067	9.3	7.6	4.2	020	4	4	4	4	4	20
16743	NALE SAKSHI VITTHAL	4	10	9	24	7.4	7.4	9.767	8	4.467	004	0.8	0.8	0.8	0.8	0.8	4
16744	NANNAWARE VRUSHALI GORAKSHA	5	9	8	21	6.867	6.867	9.15	7.6	4.5	021	4.2	4.2	4.2	4.2	4.2	21
16745	NEHA MARUTI SHINDE	4	8	8	20	7.133	7.133	9.417	7.8	4.567	020	4	4	4	4	4	20
16746	NIKAM GANESH SUBHASH	4	8	8	20	7.133	7.133	9.417	7.8	4.567	020	4	4	4	4	4	20
16747	NUTAN SHRIKRUSHNA MANKAR	4	8	8	20	7.133	7.133	9.433	7.8	4.533	0	0	0	0	0	0	0

Seat No.	Name	Internals			Internal Total (25M)	CO1	CO2	CO3	CO4	CO5	Total
		Group Discussion (5M)	Assignment (10M)	In Depth Viva (15M)							
16748	PABALE GAUTAM SHAHAJI	4	8	8	20	6.8	6.8	9.067	7.6	4.667	013
16749	PAKHARE OMKAR RAJENDRA	4	8	8	20	7.2	7.2	9.483	7.8	4.433	0
16750	PANSARE RUTUJA GANESH	5	10	9	24	6.733	6.733	9.067	7.6	4.667	026
16751	PAREKAR LAXMAN SHIVAJI	4	7	10	21	7.267	7.267	9.55	7.8	4.3	013
16752	PATIL AJINKYA RAJENDRA	5	9	10	24	6.8	6.8	9.117	7.6	4.567	009
16753	PATIL BHAVESH SANJAY	4	8	8	20	7.133	7.133	9.417	7.8	4.567	021
16754	PATIL VAIBHAV PURUSHOTTAM	4	9	8	21	6.8	6.8	9.033	7.6	4.733	020
16755	PAWAR PRAJAKTA SANDIPAN	4	9	8	21	7.067	7.067	9.333	7.8	4.733	021
16756	PONDKULE PRASHANT GANPAT	4	9	8	21	6.8	6.8	9.067	7.6	4.667	020
16757	PREETAM SANDEEP KOKARE	4	9	8	21	6.933	6.933	9.167	7.6	4.467	012
16758	PRUTHVIRAJ DIPAK GADHAVE	4	8	9	21	7.333	7.333	9.717	8	4.567	013
16759	PUJA ZUMBAR WADEKAR	4	8	8	20	7.267	7.267	9.55	7.8	4.3	020
16760	PUKALE RAHUL RAMA	4	8	8	20	7.067	7.067	9.383	7.8	4.633	020
16761	ROHIT DATTU RANDIVE	4	8	8	20	7.267	7.267	9.567	7.8	4.267	006
16762	RUPNAWAR SAKSHI DADASO	4	8	8	20	7.333	7.333	9.717	8	4.567	023
16763	SADAMATE SANJIVANI DAYANAND	4	8	8	20	7.133	7.133	9.533	8	4.933	025
16764	SAKSHI ARVIND PONDAKULE	5	10	9	24	7.067	7.067	9.3	7.6	4.2	020
16765	SAMBHERAO DURGA RAJENDRA	3	9	9	21	7.133	7.133	9.467	7.8	4.467	010
16766	SASTE SIDDHI NITINKUMAR	4	9	8	21	6.8	6.8	9.033	7.6	4.733	013
16767	SHAIKH NILOFAR AHAMAD	5	8	10	23	7.133	7.133	9.417	7.8	4.567	020
16768	SHAIKH SAMINA CHAND	5	9	10	24	7	7	9.3	7.8	4.8	021
16769	SHAIKH SIMRAN JAVED	4	9	9	22	6.733	6.733	9.067	7.6	4.667	023
16770	SHELAR AJAY RAJENDRA	4	9	8	21	6.933	6.933	9.317	7.8	4.767	AAA
16771	SHEWALE SHUBHAM ROHIDAS	4	10	10	24	6.733	6.733	9.017	7.6	4.767	012
16772	SHINDE GEETANJALI SHRIKANT	4	9	9	22	7	7	9.317	7.8	4.767	021
16773	SHINDE VAIBHAV BALASO	4	9	9	22	7.2	7.2	9.6	8	4.8	020
16774	SURAVASE YOGITA MALHARI	5	8	10	23	7.133	7.133	9.4	7.8	4.6	025
16775	TAMBE POOJA BALASO	4	10	10	24	6.8	6.8	9.033	7.6	4.733	026
16776	TAMBOLI ARIF RASHID	4	9	9	22	6.867	6.867	9.217	7.8	4.967	020
16777	TENGALKE MAHIMA MOHAN	4	9	9	22	6.667	6.667	8.95	7.6	4.9	024



Seat No.	Name	Internals			Internal Total (25M)	CO1	CO2	CO3	CO4	CO5	End Term Exam	Total					Total
		Group Discussion (5M)	Assignment (10M)	In Viva (15M)								CO1	CO2	CO3	CO4	CO5	
16778	THOMBARE SAYALI NAMDEV	3	9	9	21	6.733	6.733	8.983	7.6	4.833	020	4	4	4	4	4	20
16779	VAISHNAVI RAJENDRA KASAR	4	10	10	24	6.733	6.733	9.033	7.6	4.733	008	1.6	1.6	1.6	1.6	1.6	8
16780	VIRAU VIJAYKUMAR JADHAV	4	9	9	22	7.133	7.133	9.433	7.8	4.533	014	2.8	2.8	2.8	2.8	2.8	14
16781	WALKE SONAL LAHU	4	9	10	23	7	7	9.217	7.6	4.367	021	4.2	4.2	4.2	4.2	4.2	21
16782	WARE HARSHWARDHAN SANTOSH	4	9	9	22	7	7	9.3	7.8	4.8	008	1.6	1.6	1.6	1.6	1.6	8
16783	WAVARE VISHAL MARUTI	4	9	8	21	7.2	7.2	9.567	8	4.867	020	4	4	4	4	4	20
16784	WAYDANDE VIKAS YUVRAU	4	9	9	22	7.067	7.067	9.433	8	5.133	020	4	4	4	4	4	20
16785	YOGITA ANIL THORAT	4	9	9	22	7.067	7.067	9.433	8	5.133	025	5	5	5	5	5	25
16786	MORE SITARAM BHARAT	5	9	7	21	7.133	7.133	9.45	7.8	4.5	025	5	5	5	5	5	25
16787	NIDBANE ABHIJIT SHIVAJI	4	10	7	21	7	7	9.233	7.6	4.333	020	4	4	4	4	4	20
16788	SALGUDE SUPRIYA APPASO	4	9	9	22	6.933	6.933	9.3	7.8	4.8	021	4.2	4.2	4.2	4.2	4.2	21
16789	VASHNAVI DEVIDAS BORKHADE	4	9	8	21	7.133	7.133	9.45	7.8	4.5	020	4	4	4	4	4	20
16790	WAWAGE RUTUJA DATTATRAYA	4	9	9	22	6.8	6.8	9.117	7.6	4.567	020	4	4	4	4	4	20
16791	BAGAL ANISHA TUKARAM	4	9	8	21	7	7	9.367	7.8	4.667	021	4.2	4.2	4.2	4.2	4.2	21
16792	KALOKHE SHUBHAM DATTATRAY	4	9	9	22	6.733	6.733	9.017	7.6	4.767	023	4.6	4.6	4.6	4.6	4.6	23
16793	KANASE VAIBHAVEE BABRUWAN	4	9	8	21	6.933	6.933	9.25	7.8	4.9	026	5.2	5.2	5.2	5.2	5.2	26
16794	PAWAR SNEHAL NAVNATH	4	9	9	22	6.867	6.867	9.083	7.6	4.633	020	4	4	4	4	4	20
16795	SAMIKSHA VIJAY GULHANE	4	9	8	21	7.133	7.133	9.533	8	4.933	021	4.2	4.2	4.2	4.2	4.2	21
16796	SHARAYU DILIP KULKARNI	4	10	10	24	6.867	6.867	9.117	7.6	4.567	023	4.6	4.6	4.6	4.6	4.6	23



Internal Attainment									
Level of Attainment	3	3	3	3	3	3	3	3	3
& of attainment	1	1	1	1	1	1	1	1	1
Total Students	109	109	109	109	109	109	109	109	109
No. above Expected	109	109	109	109	109	109	109	109	109
Expected Marks	2	1.75	2.5	2.5	3.5	2.75			
Expected % secured	50%								

External Attainment									
Level of Attainment	0	0	0	0	0	0	0	0	0
& of attainment	0.40367	0.40367	0.40367	0.40367	0.40367	0.40367	0.40367	0	0
Total Students	109	109	109	109	109	109	109	109	109
No. above Expected	44	44	44	44	44	44	44	0	0
Expected Marks	7.5	7.5	7.5	7.5	7.5	7.5	7.5	0	0
Expected % secured	0.5								

	Direct Attainment	
	Internal	Internal
C01	3	3
C02	3	3
C03	3	3
C04	3	3
C05	3	3
C06		
Average	3	3
Weightage	100%	100%
Attainment	3	3





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[DTE Code: 6628 | MSBTE Code: 1712 | AICTE ID: 1-5986711 | AISHE Code: C-44576]

Department of MCA

Academic Year 2025-2026

CO PO Mapping & Attainment

Name of Staff	: Prof. Kanase A.A
Designation	: Assistant Professor
Course Name	: Design and analysis of Algorithm
Course Code	: DAA602MJ
SEM	: III



Dattakala Shikshan Sanstha's
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541/2, 527, Off Pune- Solapur Highway, Swami-Chincholi (Bhigwan), Tal - Daund, Dist. - Pune 413130 Maharashtra.

| Email: dkgoi@dattakala.edu | Web: www.dattakala.edu.in | Contact No. 9673002923, 9673400500 |

Subject Name	Design and Analysis of Algorithm
Subject Code	DAA602MJ
Faculty Name	Prof.Kanase A.A

Academic Year	2025-26
Semester	3

S.NO	Course Outcomes	
CO1	Understand the fundamental concepts of algorithm analysis and complexity.	
CO2	Apply Divide and Conquer strategies to solve problems	
CO3	Apply Greedy algorithms and other optimization techniques to solve real-world problems	
CO4	Apply advanced algorithmic strategies like Backtracking and Dynamic Programming with real-world applications	
CO5	Understand NP-Completeness, polynomial-time reductions, and emerging algorithmic trends	
S.NO	Programme Outcomes	
PO1	Computing Knowledge -Apply knowledge of computing fundamentals, computing specialization, mathematics, and domain knowledge appropriate for the computing specialization to the abstraction and conceptualization of computing models from defined problems and requirements. business issues	
PO2	Problem Analysis- Identify, formulate, research literature, and solve complex Computing problems reaching substantiated conclusions using fundamental principles of Mathematics, Computing sciences, and relevant domain disciplines.	
PO3	Design & Development- Design and evaluate solutions for complex computing problems, and design and evaluate systems, components, or processes that meet specified needs with appropriate consideration for public health and safety, cultural, societal, and environmental considerations.	
PO4	Research & Development -Use research-based knowledge and research methods including design of experiments, analysis and interpretation of data, and synthesis of information to provide valid conclusions.	
PO5	Prompt Tool Usage- Create, select, adapt and apply appropriate techniques, resources, and modern computing tools to complex computing activities, with an understanding of the limitations	
PO6	Ethical Practices- Understand and commit to professional ethics and cyber regulations, responsibilities, and norms of professional computing practice.	
PO7	Life Long Learning- Recognize the need, and have the ability to engage in independent learning for continual development as a Computing professional.	





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S412, S57, Off Pune-Solapur Highway, Swami-Chincholi (Bhigwan), Tal - Daund, Dist. - Pune 413139 Maharashtra.
| Email: dkgod@dattakala.edu | Web: www.dattakala.edu.in | Contact No. 9673002923, 9673406500 |

Mapping /Alignment of CO's with PO's (Programme Articulation Matrix)												
	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12
CO1	3	2	1	1								
CO2	3	3	2	1	1							
CO3	3	3	3	2	2							
CO4	3	3	3	2	2							2
CO5	3	3	2	3	1	1	2	0	0	0	0	2
Average	3.00	2.8	3	2.2	1.5	1	2	0	0	0	0	2
CO*PO	3.00	2.8	3.00	2.20	1.50	1	2.00	0.00	0.00	0.00	0.00	2.00

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

Internal Assessment Type	Description	Marks Assigned	Frequency	Weightage
Group Discussion	Communication Skill ,Analytical Thinking ,Subject Knowledge,Participation, TeamWork		5	5
Assignment	Understanding Of Topic & Content Quality	10	10	10
In Depth Viva	Clarity of Explanation ,Problem Solving Ability	10	1	10





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 | Email: dlsgoi@dattakala.edu | Web: www.dattakala.edu.in | Contact No. 9673002923, 9673400500 |

CO's * Assessment	Internal Evaluations				
	Group Discussion	Assignment	In Depth Viva	0	Total Internal
CO1	1	2	1		4
CO2	0.5	1	2		3.5
CO3	1	2	2		5
CO4	2	2	3		7
CO5	0.5	3	2		5.5
CO6					
Total	5	10	10	0	25

CO's * Assessment	Internal Evaluations				
	Group Discussion	Assignment	In Depth Viva	0	Total Internal
CO1	0.2	0.2	0.133333333		0
CO2	0.1	0.1	0.2		
CO3	0.2	0.2	0.2		
CO4	0.4	0.2	0.3		
CO5	0.1	0.3	0.2		
CO6					
Total	1	1	1	0	0



Seat No.	Name	Internals			Internal Total (25M)	CO1	CO2	CO3	CO4	CO5	Total	External Total	CO1	CO2	CO3	CO4	CO5	Total
		Group Discussion (5M)	Assignment (10M)	In Depth Viva (15M)														
16684	HARKE ONKAR DATTATRAY	4	8	8	20	1.00	7	9.367	7.8	4.667	20	0	0	0	0	0	0	0
16685	ANURAG TUKARAM NAGMODE	3	9	9	21	6.733	6.733	8.983	7.6	4.833	21	22	4.4	4.4	4.4	4.4	4.4	22
16686	ATTAR ALIYA AYUB	5	10	9	24	7.133	7.133	9.4	7.8	4.6	24	24	4.8	4.8	4.8	4.8	4.8	24
16687	AWALE VISHAL POPAT	4	8	8	20	7.067	7.067	9.283	7.6	4.233	22	2	0.4	0.4	0.4	0.4	0.4	2
16688	BHARATE SWAPNIL PRADIP	5	9	10	24	7	7	9.3	7.8	4.8	23	7	1.4	1.4	1.4	1.4	1.4	7
16689	BHOITE NIKITA BAPURAO	5	8	7	20	7	7	9.217	7.6	4.367	22	22	4.4	4.4	4.4	4.4	4.4	22
16690	BHOSALE DIKSHA ANNA	5	8	8	21	7	7	9.217	7.6	4.367	24	25	5	5	5	5	5	25
16691	BHOSALE PRADNYA PRAMOD	4	10	10	24	6.933	6.933	9.133	7.6	4.533	24	24	4.8	4.8	4.8	4.8	4.8	24
16692	BHOSALE TEJASWINI ANIL	4	8	9	21	7.2	7.2	9.483	7.8	4.433	23	20	4	4	4	4	4	20
16693	BOKIL PRERNA PRASHNAT	5	9	10	24	6.733	6.733	9.05	7.6	4.7	24	12	2.4	2.4	2.4	2.4	2.4	12
16694	BUKTARE SUMEDH UTTAM	4	8	9	21	7.067	7.067	9.4	7.8	4.6	22	13	2.6	2.6	2.6	2.6	2.6	13
16695	CHANDGUDE MADHURI ANIL	5	10	9	24	7.2	7.2	9.567	8	4.867	24	27	5.4	5.4	5.4	5.4	5.4	27
16696	CHAUDHARI OM SURENDRA	4	10	9	21	7.133	7.133	9.5	8	5	23	9	1.8	1.8	1.8	1.8	1.8	9
16697	CHAVAN ANIKET AMBADAS	4	8	8	20	6.933	6.933	9.133	7.6	4.533	22	13	2.6	2.6	2.6	2.6	2.6	13
16698	CHAVAN APEKSHA RAJU	5	10	9	24	7.2	7.2	9.517	7.8	4.367	23	20	4	4	4	4	4	20
16700	CHAVAN SAGAR ATMARAM	4	8	8	20	6.933	6.933	9.2	7.6	4.4	22	10	2	2	2	2	2	10
16701	CHAVAN SHRADDHA SHANKAR	5	9	7	21	7.133	7.133	9.417	7.8	4.567	22	8	1.6	1.6	1.6	1.6	1.6	8
16702	DALVI KAJAL RAMESH	5	9	10	24	6.933	6.933	9.283	7.8	4.833	24	22	4.4	4.4	4.4	4.4	4.4	22
16703	DAMAL KAVERI ASHOK	5	9	10	24	6.733	6.733	9.067	7.6	4.667	24	10	2	2	2	2	2	10
16704	DANE TANMAY ANANDRAO	4	8	8	20	7	7	9.3	7.8	4.8	21	7	1.4	1.4	1.4	1.4	1.4	7
16705	DARADE SUYASH HANUMANT	5	9	10	24	6.867	6.867	9.15	7.6	4.5	22	6	1.2	1.2	1.2	1.2	1.2	6
16706	DEVADE SHRIKRUSHNA HANUMANT	3	10	8	21	7	7	9.367	7.8	4.667	24	11	2.2	2.2	2.2	2.2	2.2	11
16707	DHOBE SHUBHAM SANJAY	4	8	8	20	6.867	6.867	9.167	7.6	4.467	21	14	2.8	2.8	2.8	2.8	2.8	14
16708	GADADE RUPALI HANUMANT	5	9	10	24	7	7	9.333	7.8	4.733	22	10	2	2	2	2	2	10
16709	GALANDE SURAJ KONDIBA	5	10	9	24	7	7	9.233	7.6	4.333	22	8	1.6	1.6	1.6	1.6	1.6	8
16710	GAURAV KAILAS GAIKWAD	4	9	8	21	7	7	9.317	7.8	4.767	21	11	2.2	2.2	2.2	2.2	2.2	11
16711	GAURAV VINOD RAUT	5	10	9	24	7	7	9.2	7.6	4.4	24	21	4.2	4.2	4.2	4.2	4.2	21
16712	GAVADE AKANKSHA RAJARAM	3	9	9	21	6.733	6.733	9	7.6	4.8	20	25	5	5	5	5	5	25
16713	GHORPADE GAYATRI ANIL	5	9	10	24	6.733	6.733	9	7.6	4.8	22	20	4	4	4	4	4	20
16714	GIRAME DIVYA DILIP	5	10	9	24	6.933	6.933	9.283	7.8	4.833	21	20	4	4	4	4	4	20
16715	GIRME ESHWARI SANJAY	4	8	9	21	6.933	6.933	9.167	7.6	4.467	20	0	0	0	0	0	0	0



Seat No.	Name	Internals			Internal Total (25M)	CO1	CO2	CO3	CO4	CO5	Total	End Term Exam	Total					
		Group Discussion (5M)	Assignment (10M)	In Depth Viva (15M)									10	10	10	10	10	10
16717	GUJAR NISARG KAILAS	4	8	8	20	7.133	7.133	9.433	7.8	4.533	22	11	2.2	2.2	2.2	2.2	2.2	11
16718	GUJAR RAHUL RAJENDRA	4	8	8	20	7.267	7.267	9.617	8	4.767	22	10	2	2	2	2	2	10
16719	GULDAGAD PRAJAKTA MOHAN	5	9	10	24	7.133	7.133	9.567	8	4.867	24	8	1.6	1.6	1.6	1.6	1.6	8
16720	INGALE SUSHILKUMAR MACHHINDRA	4	8	8	20	6.733	6.733	9.033	7.6	4.733	22	14	2.8	2.8	2.8	2.8	2.8	14
16721	JAGTAP ANUJA SUNIL	4	8	8	20	6.933	6.933	9.283	7.8	4.833	22	11	2.2	2.2	2.2	2.2	2.2	11
16722	KACHARE SAKSHI DATTATRAY	4	10	9	24	7.067	7.067	9.283	7.6	4.233	21	14	2.8	2.8	2.8	2.8	2.8	14
16723	KAD KALYANI RAMESH	4	8	9	21	7.067	7.067	9.367	7.8	4.667	24	12	2.4	2.4	2.4	2.4	2.4	12
16724	KADAM OMKAR VIJAY	4	8	9	21	7.133	7.133	9.45	7.8	4.5	22	8	1.6	1.6	1.6	1.6	1.6	8
16725	KADAM PRAVIN SITARAM	4	9	9	22	6.8	6.8	9.05	7.6	4.7	22	5	1	1	1	1	1	5
16726	KADAM SONALI ASHOK	4	8	8	20	6.933	6.933	9.3	7.8	4.8	20	11	2.2	2.2	2.2	2.2	2.2	11
16727	KAKADE LAXMAN PRATAP	4	8	8	20	7	7	9.267	7.6	4.267	20	3	0.6	0.6	0.6	0.6	0.6	3
16728	KAKADE ROHAN MANOHAR	4	8	8	20	7.133	7.133	9.433	7.8	4.533	20	6	1.2	1.2	1.2	1.2	1.2	6
16729	KALBHOR SRUSHTI SURYAKANT	4	9	8	21	6.867	6.867	9.15	7.6	4.5	20	4	0.8	0.8	0.8	0.8	0.8	4
16730	KALE SANJIVANI VILAS	4	8	8	20	7	7	9.367	7.8	4.667	21	20	4	4	4	4	4	20
16732	KARALE SAURABH KISAN	4	10	10	24	6.933	6.933	9.167	7.6	4.467	24	7	1.4	1.4	1.4	1.4	1.4	7
16733	KARDILE SHUBHAM SANJAY	5	10	9	24	7.2	7.2	9.517	7.8	4.367	22	20	4	4	4	4	4	20
16734	KAWADE PRAKISHA SOMNATH	5	9	10	24	6.867	6.867	9.083	7.6	4.633	22	14	2.8	2.8	2.8	2.8	2.8	14
16735	KHATAL ROHIT BALASAHEB	5	10	9	24	7.067	7.067	9.283	7.6	4.233	21	10	2	2	2	2	2	10
16736	MAHAMUNI PRAKISHA SAMADHAN	5	10	9	24	7	7	9.2	7.6	4.4	20	22	4.4	4.4	4.4	4.4	4.4	22
16737	MONIKA JAGANNATH PATIL	4	8	8	20	7.067	7.067	9.267	7.6	4.267	20	20	4	4	4	4	4	20
16738	MORE NIKITA SUDHIR	4	9	8	21	7.133	7.133	9.45	7.8	4.5	20	21	4.2	4.2	4.2	4.2	4.2	21
16739	MORE SHUBHAM SANTOSH	4	8	8	20	6.933	6.933	9.25	7.8	4.9	20	0	0	0	0	0	0	0
16740	MRUNALI HIRALAL BAGDE	3	8	10	21	7.333	7.333	9.7	8	4.6	21	23	4.6	4.6	4.6	4.6	4.6	23
16741	MUDKHEDEKAR HARSHVARDHAN RAJE	4	8	8	20	7.133	7.133	9.517	8	4.967	20	24	4.8	4.8	4.8	4.8	4.8	24
16743	NALE SAKSHI VITTHAL	4	9	8	21	7.067	7.067	9.3	7.6	4.2	20	13	2.6	2.6	2.6	2.6	2.6	13
16744	NANNAWARE VRUSHALI GORAKSHA	5	10	9	24	7.4	7.4	9.767	8	4.467	24	8	1.6	1.6	1.6	1.6	1.6	8
16745	NEHA MARUTI SHINDE	4	8	8	20	6.867	6.867	9.15	7.6	4.5	21	23	4.6	4.6	4.6	4.6	4.6	23
16746	NIKAM GANESH SUBHASH	4	8	9	21	7.133	7.133	9.417	7.8	4.567	20	2	0.4	0.4	0.4	0.4	0.4	2
16747	NIJAN SHRIKRUSHNA MANKAR	4	9	8	21	7.133	7.133	9.417	7.8	4.533	20	0	0	0	0	0	0	0
16748	PABALE GAUTAM SHAHAJI	3	9	9	21	6.8	6.8	9.167	7.6	4.667	20	2	0.4	0.4	0.4	0.4	0.4	2
16749	PAKHARE OMKAR RAJENDRA	4	9	8	21	7.2	7.2	9.367	7.8	4.433	20	3	0.6	0.6	0.6	0.6	0.6	3



Name	Internals			Internal Total (25M)	CO1	CO2	CO3	CO4	CO5	Total	External Total	CO1	CO2	CO3	CO4	CO5	Total
	Group Discussion (5M)	Assignment (10M)	In Depth Viva (15M)														
ANSARE RUTUJA GANESH	5	10	9	24	6.733	6.733	9.067	7.6	4.667	24	20	4	4	4	4	4	20
REKAR LAXMAN SHIVAJI	4	7	10	21	7.267	7.267	9.55	7.8	4.3	21	11	2.2	2.2	2.2	2.2	2.2	11
TILAJINKYA RAJENDRA	3	8	10	21	6.8	6.8	9.117	7.6	4.567	24	3	0.6	0.6	0.6	0.6	0.6	3
ATIL BHAVESH SANJAY	4	9	8	21	7.133	7.133	9.417	7.8	4.567	20	9	1.8	1.8	1.8	1.8	1.8	9
ATIL VAIBHAV PURUSHOTTAM	4	9	9	22	6.8	6.8	9.033	7.6	4.733	21	8	1.6	1.6	1.6	1.6	1.6	8
AWAR PRAJAKTA SANDIPAN	5	9	10	24	7.067	7.067	9.333	7.8	4.733	21	21	4.2	4.2	4.2	4.2	4.2	21
PONDKULE PRASHANT GANPAT	4	8	8	20	6.8	6.8	9.067	7.6	4.667	21	5	1	1	1	1	1	5
PREETAM SANDEEP KOKARE	4	8	8	20	6.933	6.933	9.167	7.6	4.467	21	0	0	0	0	0	0	0
PRUTHVIRAJ DIPAK GADHAVE	4	8	9	21	7.333	7.333	9.717	8	4.567	21	1	0.2	0.2	0.2	0.2	0.2	1
PUJA ZUMBAR WADEKAR	4	9	8	21	7.267	7.267	9.55	7.8	4.3	20	2	0.4	0.4	0.4	0.4	0.4	2
PUKALE RAHUL RAMA	4	8	8	20	7.067	7.067	9.383	7.8	4.633	20	7	1.4	1.4	1.4	1.4	1.4	7
ROHIT DATTU RANDIVE	4	8	8	20	7.267	7.267	9.567	7.8	4.267	20	2	0.4	0.4	0.4	0.4	0.4	2
RUPNARWAR SAKSHI DADASO	4	8	9	21	7.333	7.333	9.717	8	4.567	20	0	0	0	0	0	0	0
SADAMATE SANJIVANI DAYANAND	5	10	9	24	7.133	7.133	9.533	8	4.933	20	14	2.8	2.8	2.8	2.8	2.8	14
SAKSHI ARVIND PONDAKULE	4	8	8	20	7.067	7.067	9.3	7.6	4.2	24	21	4.2	4.2	4.2	4.2	4.2	21
SAMBHERAO DURGA RAJENDRA	3	9	9	21	7.133	7.133	9.467	7.8	4.467	21	5	1	1	1	1	1	5
SASTE SIDDHI NITINKUMAR	5	9	10	24	6.8	6.8	9.033	7.6	4.733	21	12	2.4	2.4	2.4	2.4	2.4	12
SHAIKH NILOFAR AHAMAD	5	9	10	24	7.133	7.133	9.417	7.8	4.567	23	12	2.4	2.4	2.4	2.4	2.4	12
SHAIKH SAMINA CHAND	5	9	10	24	7	7	9.3	7.8	4.8	24	13	2.6	2.6	2.6	2.6	2.6	13
SHAIKH SIMRAN JAVED	5	10	9	24	6.733	6.733	9.067	7.6	4.667	22	20	4	4	4	4	4	20
SHEJAR AJAY RAJENDRA	4	8	8	20	6.933	6.933	9.317	7.8	4.767	21	0	0	0	0	0	0	0
SHEWALE SHUBHAM ROHIDAS	4	10	10	24	6.733	6.733	9.017	7.6	4.767	24	1	0.2	0.2	0.2	0.2	0.2	1
SHINDE GEETANJALI SHRIKANT	4	8	8	20	7	7	9.317	7.8	4.767	22	20	4	4	4	4	4	20
SHINDE VAIBHAV BALASO	4	8	8	20	7.2	7.2	9.6	8	4.8	22	5	1	1	1	1	1	5
SURAVASE YOGITA MALHARI	4	8	8	20	7.133	7.133	9.4	7.8	4.6	23	21	4.2	4.2	4.2	4.2	4.2	21
TAMBE POOJA BALASO	4	10	10	24	6.8	6.8	9.033	7.6	4.733	24	23	4.6	4.6	4.6	4.6	4.6	23
TAMBOLI ARIF RASHID	4	8	8	20	6.867	6.867	9.217	7.8	4.967	22	5	1	1	1	1	1	5
TENGALE MAHIMA MOHAN	4	8	8	20	6.667	6.667	8.95	7.6	4.9	22	11	2.2	2.2	2.2	2.2	2.2	11
THOMBARE SAYALI NAMDEV	3	9	9	21	6.733	6.733	8.983	7.6	4.833	21	0	0	0	0	0	0	0
VAISHNAVI RAJENDRA KASAR	4	10	10	24	6.733	6.733	9.033	7.6	4.733	24	6	1.2	1.2	1.2	1.2	1.2	6
VIRAJ VIJAYKUMAR JADHAV	4	8	9	22	7.133	7.133	9.433	7.8	4.533	22	15	3	3	3	3	3	15



Seal No.	Name	Internals			Internal Total (25M)	CO1	CO2	CO3	CO4	CO5	Total	External		CO1	CO2	CO3	CO4	CO5	Total
		Group Discussion (5M)	Assignment (10M)	In Depth Viva (15M)								Total	End Term Exam						
16781	WALKE SONAL LAHU	4	10	10	24	7	7	9.217	7.6	4.367	23	21	4.2	4.2	4.2	4.2	4.2	4.2	21
16782	WARE HARSHWARDHAN SANTOSH	5	9	10	24	7	7	9.3	7.8	4.8	22	12	2.4	2.4	2.4	2.4	2.4	2.4	12
16783	WAVARE VISHAL MARUTI	4	9	8	21	7.2	7.2	9.567	8	4.867	21	9	1.8	1.8	1.8	1.8	1.8	1.8	9
16784	WAYDANDE VIKAS YUVRAJ	4	8	8	20	7.067	7.067	9.433	8	5.133	22	13	2.6	2.6	2.6	2.6	2.6	2.6	13
16785	YOGITA ANIL THORAT	3	9	9	21	7.067	7.067	9.433	8	5.133	22	22	4.4	4.4	4.4	4.4	4.4	4.4	22
16786	MORE SITARAM BHARAT	4	8	8	20	7.133	7.133	9.45	7.8	4.5	21	22	4.4	4.4	4.4	4.4	4.4	4.4	22
16787	NIDBANE ABHIJIT SHIVAJI	5	10	9	24	7	7	9.233	7.6	4.333	21	22	4.4	4.4	4.4	4.4	4.4	4.4	22
16788	SALGUDE SUPRIYA APPASO	4	8	8	20	6.933	6.933	9.3	7.8	4.8	22	20	4	4	4	4	4	4	20
16789	VAISHNAVI DEVIDAS BORKHADE	5	9	10	24	7.133	7.133	9.45	7.8	4.5	21	30	6	6	6	6	6	6	30
16790	WAWAGE RUTUJA DATTATRAYA	5	10	9	24	6.8	6.8	9.117	7.6	4.567	22	25	5	5	5	5	5	5	25
16791	BAGAL ANISHA TUKARAM	4	8	8	20	7	7	9.367	7.8	4.667	21	26	5.2	5.2	5.2	5.2	5.2	5.2	26
16792	KALOKHE SHUBHAM DATTATRAY	4	8	8	20	6.733	6.733	9.017	7.6	4.767	22	21	4.2	4.2	4.2	4.2	4.2	4.2	21
16793	KANASE VAIBHAVEE BABRUWAN	5	9	10	24	6.933	6.933	9.25	7.8	4.9	21	36	7.2	7.2	7.2	7.2	7.2	7.2	36
16794	PAWAR SNEHAL NAVNATH	3	9	9	21	6.867	6.867	9.083	7.6	4.633	22	31	6.2	6.2	6.2	6.2	6.2	6.2	31
16795	SAMIKSHA VIJAY GULHANE	5	9	10	24	7.133	7.133	9.533	8	4.933	21	29	5.8	5.8	5.8	5.8	5.8	5.8	29
16796	SHARAYU DILIP KULKARNI	4	10	10	24	6.867	6.867	9.117	7.6	4.567	24	33	6.6	6.6	6.6	6.6	6.6	6.6	33



Internal Attainment									
Level of Attainment	3	3	3	3	3	3	3	3	3
& of attainment	1	1	1	1	1	1	1	1	1
Total Students	109	109	109	109	109	109	109	109	109
No. above Expected	109	109	109	109	109	109	109	109	109
Expected Marks	2	1.75	2.5	3.5	2.5	3.5	2.5	3.5	2.75
Expected % secured	50%								

External Attainment									
Level of Attainment	0	0	0	0	0	0	0	0	0
& of attainment	0.09174	0.09174	0.09174	0.09174	0.09174	0.09174	0.09174	0.09174	0
Total Students	109	109	109	109	109	109	109	109	109
No. above Expected	10	10	10	10	10	10	10	10	0
Expected Marks	5	5	5	5	5	5	5	5	0
Expected % secured.	50%								

	Direct Attainment		3
	Internal	Internal	
C01	3	3	3
C02	3	3	3
C03	3	3	3
C04	3	3	3
C05	3	3	3
C06			
Average	3	3	3
Weightage	100%	100%	100%
Attainment	3	3	3





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S41/2, 527, Off Pune-Solapur Highway, Swami-Chincholi (Bhigwan), Tal - Daund, Dist. - Pune 413130 Maharashtra.
[Email: dkgoi@dattakala.edu | Web: www.dattakala.edu.in | Contact No. 9673002923, 9673400500]

S.NO	Subject Name	Mobile Application Development	Academic Year 2025-26	
	Subject Code	MAD611MJ	Semester	III
	Faculty Name	Prof.Sodanwar J.P		
Course Outcomes				
CO1	Design the user interface, build a functional Android application using Android Studio.			
CO2	Enhance user experience by using interactive tools such as ntents, Adapters, Dialogs, Menus, and Notifications in Android applications.			
CO3	Implement data storing and retrieval methods in android using SQLite and Firebase in Android applications			
CO4	Create interactive cross-platform mobile applications using React Native.			
CO5	Design and build scalable cross-platform mobile apps using Flutter and Dart.			
S.NO	Programme Outcomes			
PO1	Computing Knowledge -Apply knowledge of computing fundamentals, computing specialization, mathematics, and domain knowledge appropriate for the computing specialization to the abstraction and conceptualization of computing models from defined problems and requirements. business issues			
PO2	Problem Analysis- Identify, formulate, research literature, and solve complex Computing problems reaching substantiated conclusions using fundamental principles of Mathematics, Computing sciences, and relevant domain disciplines.			
PO3	Design & Development- Design and evaluate solutions for complex computing problems, and design and evaluate systems, components, or processes that meet specified needs with appropriate consideration for public health and safety, cultural, societal, and environmental considerations.			
PO4	Research & Development -Use research-based knowledge and research methods including design of experiments, analysis and interpretation of data, and synthesis of information to provide valid conclusions.			
PO5	Prompt Tool Usage- Create, select, adapt and apply appropriate techniques, resources, and modern computing tools to complex computing activities, with an understanding of the limitations			
PO6	Ethical Practices- Understand and commit to professional ethics and cyber regulations, responsibilities, and norms of professional computing practice.			
PO7	Life Long Learning- Recognize the need, and have the ability, to engage in independent learning for continual development as a Computing			
PO8	Professional Skills- Demonstrate knowledge and understanding of computing and management principles and apply these to one's own work, as a member and leader in a team, to manage projects and in			
PO9	Communication Skills- Communicate effectively with the computing community, and with society at large, about complex computing activities by being able to comprehend and write effective reports, design documentation, make effective presentations, and give and understand clear instructions.			
PO10	Social Contribution- Understand and assess societal, environmental, health, safety, legal, and cultural issues within local and global contexts, and the consequential responsibilities relevant to professional computing			
PO11	Teamwork & Leadership- Function effectively as an individual and as a member or leader in diverse teams and in multidisciplinary environments.			
PO12	Innovation & Sustainability- Identify a timely opportunity and innovation to pursue that opportunity to create value and wealth for the betterment			



Mapping /Alignment of CO's with PO's (Programme Articulation Matrix)												
	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12
CO1	1	1				2	1	2	2	2	2	
CO2						2	2	2	2	2	2	
CO3		2					1	3	2	2	2	
CO4		2	3	1	1	1	1	3	2		2	
CO5						2	2	2		2		2
Average	1.00	1.66667	3	1	1	1.75	1.4	2.4	2	2	2	2
CO*PO	1.00	1.67	3.00	1.00	1.00	1.75	1.40	2.40	2.00	2.00	2.00	2.00

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

Internal Assessment Type	Description	Marks Assigned	Frequency	Weightage
Group Discussion	Skill ,Analytical Thinking, Subject Knowledge,Particip	10	1	5
Assignment	Understanding Of Topic & Content Quality	10	1	5
In Depth Viva	Clarity of Explanation ,Problem Solving Ability	5	1	5



Internal Evaluations

CO's * Assessment	PPT	Assignment	Open Book Test	0	Total Internal
CO1	1	1	1		3
CO2	2	1	1		4
CO3	1	1	2		4
CO4	1	2	1		4
Total	5	10	10	0	25

CO's * Assessment	PPT	Assignment	Open Book Test	0	0	0
CO1	0.2	0.2	0.2			
CO2	0.4	0.2	0.2			
CO3	0.2	0.2	0.4			
CO4	0.2	0.4	0.2			
Total	1	1	1	0	0	0



Seat No.	Name	Internals			Internal Total (50M)	CO1	CO2	CO3	CO4	CO5	nal Total	CO1	CO2	CO3	CO4	Total
		Present ation (5M)	Assign ment (5M)	Viva (5M)												
16687	AWALE VISHAL POPAT	8	8	4	20	7	7	9.367	7.8	4.667	10	3.2	3.6	3.6	3.6	30
16697	CHAVAN ANIKET AMBADAS	9	8	4	21	6.733	6.733	8.983	7.6	4.833	20	3.2	3.6	3.6	3.6	29
16698	CHAVAN APEKSHA RAJU	9	9	4	22	7.133	7.133	9.4	7.8	4.6	20	3.429	3.857	3.857	3.857	30
16701	CHAVAN SHRADDHA SHANKAR	9	9	4	21	7.067	7.067	9.283	7.6	4.233	10	3.2	3.6	3.6	3.6	21
16704	DANE TANMAY ANANDRAO	9	9	3	21	7	7	9.3	7.8	4.8	10	1.829	2.057	2.057	2.057	21
16707	DHOBE SHUBHAM SANJAY	9	9	4	22	7	7	9.217	7.6	4.367	20	4.571	5.143	5.143	5.143	35
16713	GHORPADE GAYATRI ANIL	9	9	5	23	7	7	9.217	7.6	4.367	20	3.657	4.114	4.114	4.114	39
16733	KARDILE SHUBHAM SANJAY	9	9	4	22	6.933	6.933	9.133	7.6	4.533	12	4.343	4.886	4.886	4.886	21
16739	MORE SHUBHAM SANTOSH	8	8	4	20	7.2	7.2	9.483	7.8	4.433	AB	0.686	0.771	0.771	0.771	23
16751	PAREKAR LAXMAN SHIVAJI	9	8	4	21	6.733	6.733	9.05	7.6	4.7	27	0.914	1.029	1.029	1.029	19
16764	SAKSHI ARVIND PONDAKULE	8	9	4	21	7.067	7.067	9.4	7.8	4.6	24	1.143	1.286	1.286	1.286	29
16767	SHAIKH NILOFAR AHAMAD	9	9	4	22	7.2	7.2	9.567	8	4.867	20	3.657	4.114	4.114	4.114	39
16784	WAYDANDE VIKAS YUVRAJ	8	8	4	20	7.133	7.133	9.5	8	5	13	4.114	4.629	4.629	4.629	19
16791	BAGAL ANISHA TUKARAM	9	9	4	22	6.933	6.933	9.133	7.6	4.533	20	2.057	2.314	2.314	2.314	30



Internal Attainment									
Level of Attainment	3	3	3	3	3	3	3	3	3
& of attainment	1	1	1	1	1	1	1	1	1
Total Students	14	14	14	14	14	14	14	14	14
No. above Expected	14	14	14	14	14	14	14	14	14
Expected Marks	1.5	2	2	2	2	2	2	0	0
Expected % secured	50%								

External Attainment									
Level of Attainment	0	0	0	0	0	0	3	0	0
& of attainment	0.08333	0.08333	0.083333333	0.08333	0.08333	0.08333	0.972222222	0	0
Total Students	14	14	14	14	14	14	14	14	14
No. above Expected	3	3	3	3	3	3	35	0	0
Expected Marks	4	4.5	4.5	4.5	4.5	4.5	0	0	0
Expected % secured	50%								

	Direct Attainment	
	Internal	Internal
C01	3	3
C02	3	3
C03	3	3
C04	14	14
Average	14	14
Weightage	14	14
Attainment	49.5	49.5

