



Estab : 2007

PU/PN/03/08/2008
College Code : 878
ASCC CODE : C-1103A

AAER's
ASIAN COLLEGE OF SCIENCE & COMMERCE

(Affiliated to Savitribai Phule Pune University & Approved by Govt. of Maharashtra)

ACCREDITED BY MAAC WITH "B+" GRADE and Recognised Under UGC 200

S: No. 28/15/16, Narhe Dhayri Road, P&R Company Chowk, Dhayari, Pune - 411041.

☎ 020-24600520, 24600510 www.asianacademypln.ac.in Email: asianacademypln@rediffmail.com
(Non Aided College)

Criterion 2 – Teaching-Learning and Evaluation

Key Indicator: 2.6: Student Performance and Learning Outcomes

Metric No. - 2.6.2: Attainment of POs and COs are evaluated.

CO-PO Attainment of B.Science

Department of Science

Academic Year	2022-23
Class	F.Y.B.Sc
Semester	Semester I (CBCS Pattern 2019)
Course	Basics of Applied Electronics
Teacher	Chhaya Umare
Strength of Class	5

Course Completion after completion of this course

CO1	To identify different parameters/ functions/ specifications of components used in
CO2	To solve problems based on network theorems.
CO3	To perform simulations using simulator for analyzing network performance

Assessment Tool

Course Outcome CO	Internal		University
	Test	Assignment	End Semester Examination
CO1	Internal Exam	Assignment	End Semester Examination
CO2	Internal Exam	Assignment	End Semester Examination
CO3	Internal Exam	Assignment	End Semester Examination
% target of CO Attainment by Student	40%	40%	40%



Marks Scored by Student

Course Outcome (CO)	% Average of individual	
	Internal	External/University
CO1	85	84
CO2	91	90
CO3	91	90

External Attainment Level

Level 0	< 40	< 40	< 40
Level 1	40	40	40
Level 2	50	50	50
Level 3	60	60	60
Internal attainment level of	CO1	CO2	CO3
Total No. of students	5	5	5
Total Number of Present Students	5	5	5
No. of students achieved	5	5	5
Percentage Attainment	100	100	100
Attainment Level	3	3	3

Overall Attainment

Level 0	<40	<40	<40
Level 1	40	40	40
Level 2	50	50	50
Level 3	>60	>60	>60
Internal attainment level of CO	CO 1	CO 2	CO 3
Internal attainment of CO	3	3	3
External attainment of CO	3	3	3
Overall attainment of CO	3	3	3



AAER's Asian College of Science and Commerce,

CO Attainment Sheet	Deptt.	Class	Strength of the Class
Course Code	Name	Internal Exam.	Year
ELJ11	Chhaya Umare		2022-23

Sr. No.	Name	CO 1		CO 2		CO 3	
		15	35	15	35	15	35
1	Vaishnavi More	13	32	14	31	14	31
2	Shruti Borilae	12	31	13	33	13	33
3	Sahil Dengle	13	29	14	32	14	29
4	Gaurav Sonar	12	28	13	30	12	29
5	Ajinka Zunjar	14	27	14	32	12	31
	Average	12.8	29.4	13.6	31.6	13	30.6
	Percentage	85.333	84	90.667	90.3	86.6666667	87.42857143



Co Ordinator
 Internal Quality Assurance Cell,
 AAER'S Asian College of Science & Commerce




PRINCIPAL
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 Dhayari, Pune-411 041



Estd : 2007

PUN/PC/5/320/2008
College Code : 378
AISHA CODE : C-41899

AAER's ASIAN COLLEGE OF SCIENCE & COMMERCE

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ACCREDITED BY NAAC WITH "B+" GRADE and Recognised Under UGC 2(f)

Sr No. 28/12/16, Narhe Dhayni Road, PARI Company Chowk, Dhayani, Pune - 411041.

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{Non Aided College}

Criterion 2 – Teaching-Learning and Evaluation

Key Indicator: 2.6: Student Performance and Learning Outcomes

Metric No. - 2.6.2: Attainment of POs and COs are evaluated.

CO-PO Attainment of B.Science

Department of Science

Academic Year	2022-23
Class	F.Y.B.Sc
Semester	Semester I (CBCS Pattern 2019)
Course	Electronic Devices and Circuits
Teacher	Chhaya Umare
Strength of Class	5

Course Completion after completion of this course

CO1	To analyze performance parameters based on study of characteristics of electronic
CO2	To choose proper electronic devices as per the need of application
CO3	To build and test the circuits like street light controller using electronic

Assessment Tool

Course	Internal		University
	Test	Assignment	End Semester Examination
CO1	Internal Exam	Assignment	End Semester Examination
CO2	Internal Exam	Assignment	End Semester Examination
CO3	Internal Exam	Assignment	End Semester Examination



% target of CO Attainment by Student	40%	40%	40%
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Marks Scored by Student

Course Outcome (CO)	% Average of individual Target of all Tools	
	Internal	External/
CO1	89	95
CO2	85	96
CO3	85	96

External Attainment Level

Level 0	< 40	< 40	< 40
Level 1	40	40	40
Level 2	50	50	50
Level 3	60	60	60
Internal attainment level of	CO1	CO2	CO3
Total No. of students	5	5	5
Total Number of Present Students	5	5	5
No. of students achieved	5	5	5



Percentage Attainment	100	100	100
Attainment Level	3	3	3

Overall Attainment

Level 0	<40	<40	<40
Level 1	40	40	40
Level 2	50	50	50
Level 3	>60	>60	>60
Internal attainment level of CO	CO 1	CO 2	CO 3
Internal attainment of CO	3	3	3
External attainment of CO	3	3	3
Overall attainment of CO	3	3	3

AAER's Asian College of Science and Commerce,

CO Attainment Sheet	Department	Class	Strength of the Class
Course Code	Name of the teacher	Internal Exam. Assessment	Year
EL112	Chhaya Umare		2022-23

Sr. No.	Name	CO 1		CO 2		CO3	
		15	35	15	35	15	35



	Vaishnavi	14	32	12	33	14	34
1	More						
		13	34	14	32	13	33
2	Shruti Bomlae						
3	Sahil Dcngle	14	33	13	34	12	32
4	Gaurav Sonar	14	33	12	35	14	33
		12	34	13	34	13	34
5	Ajinka Zunjar						
	Average	13.4	33.2	12.8	33.6	13.2	33.2
	Percentage	89.33333	94.85714	85.333	96	88	94.857



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Estd : 2007

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(Non Aided College)

PhulePhule@pune.ac.in

College Code : 070

AISHA CODE : C 41099

Criterion 2 – Teaching-Learning and Evaluation

Key Indicator: 2.6: Student Performance and Learning Outcomes

Metric No. - 2.6.2: Attainment of POs and COs are evaluated.

CO-PO Attainment of B.Science

Department of Science

Academic Year	2022-23
Class	F.Y.B.Sc
Semester	Semester II (CBCS Pattern 2019)
Course	Fundamentals of Digital Electronics
Teacher	Chhaya Umare
Strength of Class	5

Course Completion after completion of this course

CO1	To reduce the expression using Boolean theorems
CO2	To understand how to use flip flops to build modulus counter
CO3	To reduce expressions using K maps in SOP and POS forms
CO4	To familiarize with applications of counters like ring counter or event counter



Assessment Tool

Course Outcome CO	Internal		University
	Test	Assignment	End Semester Examination
CO1	Internal Exam	Assignment	End Semester Examination
CO2	Internal Exam	Assignment	End Semester Examination
CO3	Internal Exam	Assignment	End Semester Examination
CO4	Internal Exam	Assignment	End Semester Examination
% target of CO Attainment by Student	40%	40%	40%

Marks Scored by Student

Course Outcome (CO)	% Average of individual	
	Internal	External/University
CO1	88	90
CO2	89	92
CO3	92	93
CO4	91	91

External Attainment Level

Level 0	< 40	< 40	< 40	< 40
Level 1	40	40	40	40
Level 2	50	50	50	50
Level 3	60	60	60	60
Internal attainment level of	CO1	CO2	CO3	CO4



Total No. of students	5	5	5	5
Total Number of Present Students	5	5	5	5
No. of students achieved	5	5	5	5
Percentage Attainment	100	100	100	100
Attainment Level	3	3	3	3

Overall Attainment

Level 0	<40	<40	<40	<40
Level 1	40	40	40	40
Level 2	50	50	50	50
Level 3	>60	>60	>60	>60
Internal attainment level of CO	CO 1	CO 2	CO 3	CO 4
Internal attainment of CO	3	3	3	3
External attainment of CO	3	3	3	3
Overall attainment of CO	3	3	3	3



AAER's Asian College of Science and Commerce,

CO Attainment Sheet	Department	Class	Strength of the
Course Code	Name of the teacher	Internal	Year
ET.121	Chhaya Umare		2022-23

Sr. No.	Name	CO 1		CO 2	CO 3		CO 4	
		15	35	15	15	35	15	35
1	Vaishnavi More	14	32	13	13	33	14	33
2	Shruti Bomlae	13	32	14	14	34	14	32
3	Sabil Dengle	12	34	13	15	32	13	34
4	Gaurav Sonar	13	29	14	14	31	13	29
5	Ajinka Zunjar	14	31	13	13	32	14	31
	Average	13.2	31.6	13.4	13.8	32	13.6	31.8
	Percentage	88	90.28571429	89.3	92	93	90.667	90.857

Ashe
Co-Ordinator
 Internal Quality Assurance Cell
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S. K. Singh
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FU/PN/CE/326/2028
C-imp. Code: 678
ASAC/02001/2541998

Criterion 2 – Teaching-Learning and Evaluation
Key Indicator: 2.6: Student Performance and Learning Outcomes
Metric No. - 2.6.2: Attainment of POs and COs are evaluated.

CO-PO Attainment of B.Science
Department of Science

Academic Year	2022-23
Class	F. Y. B.Sc
Semester	Semester II (CBCS Pattern 2019)
Course	Analog and Digital Device applications
Teacher	Puja Chakur
Strength of Class	5

Course Completion after completion of this course

CO1	To know basics of operational amplifier and to compare performance parameters of opamp IC's available in market.
CO2	To understand basic application circuits of opamp and to basics of timer IC 555 and its applications.
CO3	To understand data converters and their performance

Assessment Tool

Course Outcome CO	Internal		University
		Test	Assignment



CO1	Internal Exam	Assignment	End Semester Examination
CO2	Internal Exam	Assignment	End Semester Examination
CO3	Internal Exam	Assignment	End Semester Examination
% target of CO Attainment by Student	40%	40%	40%

Marks Scored by Student

Course Outcome (CO)	% Average of individual	
	Internal	External/University
CO1	85	84
CO2	91	90
CO3	87	87

External Attainment Level

Level 0	< 40	< 40	< 40
Level 1	40	40	40
Level 2	50	50	50
Level 3	60	60	60
Internal attainment level of	CO1	CO2	CO3
Total No. of students	5	5	5



Total Number of Present Students	5	5	5
No. of students achieved	5	5	5
Percentage Attainment	100	100	100
Attainment Level	3	3	3

Overall Attainment

Level 0	<40	<40	<40
Level 1	40	40	40
Level 2	50	50	50
Level 3	>60	>60	>60
Internal attainment level of CO	CO 1	CO 2	CO 3
Internal attainment of CO	3	3	3
External attainment of CO	3	3	3
Overall attainment of CO	3	3	3



AAER's Asian College of Science and Commerce,

CO Attainment Sheet	Department	Class	Strength of the
Course Code	Name of	Internal Exam.	Year
122	Puja Chakur		2022-23

Sr. No.	Name	CO 1		CO 2		CO 3	
		15	35	15	35	15	35
1	Vaishnavi More	13	32	14	31	14	31
2	Shruti Bomlae	12	31	13	33	13	33
3	Sahil Dengle	13	29	14	32	14	29
4	Gaurav Sonar	12	28	13	30	12	29
5	Ajinka Zunjar	14	27	14	32	12	31
	Average	12.8	29.4	13.6	31.6	13	30.6
	Percentage	85.333333	84	90.667	90.286	86.667	87.429



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Estd : 2007

PUPR/CS/32F/2006
College Code: 678
AISEE CODE: C-11896

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Criterion 2 – Teaching-Learning and Evaluation

Key Indicator: 2.6: Student Performance and Learning Outcomes

Metric No. - 2.6.2: Attainment of POs and COs are evaluated.

**CO-PO Attainment of B.Science
Department of Science**

Academic Year	2022-23
Class	S.Y.B.Sc
Semester	Semester I (CBCS Pattern 2020)
Course	Analog Communication
Teacher	Chhaya Umare
Strength of Class	8

Course Completion after completion of this course

CO1	Understand different blocks in communication systems, types of noise in communication
CO2	Analyse generation of FM Modulation and demodulation methods and comparison
CO3	Compare pulse modulation techniques such as PAM, PPM, PWM and compare TDM and FDM techniques used in communication
CO4	Understand need of sampling and sampling theorem as well as know about performance parameters of digital communication

Assessment Tool

Course Outcome	Internal		University
	CO	Test	Assignme



CO1	Internal Exam	Assignment	End Semester Examination
CO2	Internal Exam	Assignment	End Semester Examination
CO3	Internal Exam	Assignment	End Semester Examination
CO4	Internal Exam	Assignment	End Semester Examination
% target of CO Attainment	40%	40%	40%

Marks Scored by Student

Course Outcome (CO)	% Average of individual	
	Internal	External/ University
CO1	88	94
CO2	87	94
CO3	88	94
CO4	87	94

External Attainment Level

Level 0	< 40	< 40	< 40	< 40	< 40
Level 1	40	40	40	40	40
Level 2	50	50	50	50	50
Level 3	60	60	60	60	60
Internal attainment level of	CO1	CO2	CO3	CO4	CO5
Total No. of	8	8	8	8	8
Total Number of Present	8	8	8	8	8
No. of students achieved	8	8	8	8	8
Percentage	100	100	100	100	100



Attainment Level	3	3	3	3	3
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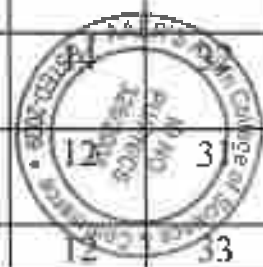
Overall Attainment

Level 0	<40	<40	<40	<40	<40
Level 1	40	40	40	40	40
Level 2	50	50	50	50	50
Level 3	>60	>60	>60	>60	>60
Internal attainment level of CO	CO 1	CO 2	CO 3	CO 4	CO 5
Internal attainment of CO	3	3	3	3	3
External attainment of CO	3	3	3	3	3
Overall attainment of CO	3	3	3	3	3

AAER's Asian College of Science and Commerce

CO Attainment Sheet	Department	Class	Strength of the
Course Code	Name of the teacher	Internal Exam.	Year
ET.-231	Chhaya Umare		2022-23

Sr. No.	Name	CO 1		CO 2		CO 3		CO 4	
		15	35	15	35	15	35	15	35
1	Saurabh Ingale	14	31	13	33	14	31	13	33
2	Kudale Omkar Prakash	12	34	13	34	12	34	13	34
3	Mgrumkhane Priyanka R	13	33	14	32	13	33		
4	Sankalp Manoj	15	34	12	31	15	34	12	31
5	Rohan Phule	14	32	12	33	14	32	12	33



6	Salunkhe Ghanasham	12	31	13	32	12	31	13	32
7	Patil Vasundhara	13	33	14	33	13	33	14	33
8	Patukale Manaswi	13	34	13	34	13	34	13	34
	Average	13.25	32.8	13	32.8	13.25	32.75	13	32.75
	Percentage	88.33333	93.6	86.667	93.6	88.333	93.57	86.667	93.571



Co-Ordinator

Internal Quality Assurance Cell
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Estd : 2007

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(Non Aided College)

PUPN/DS/2020/08
College Code : 978
AISHE CODE : C-11699

Key Indicator: 2.6: Student Performance and Learning Outcomes
Metric No. - 2.6.2: Attainment of POs and COs are evaluated.

CO-PO Attainment of B.Science
Department of Science

Academic Year	2022-23
Class	S.Y.B.Sc
Semester	Semester I (CBCS Pattern 2020)
Course	Digital Circuit Design
Teacher	Chhaya Umare
Strength of Class	8

Course Completion after completion of this course

CO1	Distinguish between different logic families based on their performance
CO2	Design Sequential logic circuits using state diagram, excitation table for identified
CO3	Understand and compare different types of ADC and their performance parameters using
CO4	Understand and compare different types of DAC and their performance parameters using

Assessment Tool

Course Outcome	Internal	University
CO		



	Test	Assignm	End Semester Examination
CO1	Internal Exam	Assignm	End Semester Examination
CO2	Internal Exam	Assignm	End Semester Examination
CO3	Internal Exam	Assignm	End Semester Examination
CO4	Internal Exam	Assignm	End Semester Examination
% target of CO Attainment by Student	40%	40%	40%

Marks Scored by Student

Course Outcome (CO)	% Average of	
	Internal	Extern al/Univ ersity
CO1	91	94
CO2	94	91
CO3	91	95
CO4	92	94

External Attainment Level

Level 0	< 40	< 40	< 40	< 40	< 40
Level 1	40	40	40	40	40
Level 2	50	50	50	50	50
Level 3	60	60	60	60	60
Internal attainment level of	CO1	CO2	CO3	CO4	CO5
Total No. of students	8	8	8	8	8



Total Number of Present Students	8	8	8	8	8
No. of students achieved	8	8	8	8	8
Percentage Attainment	100	100	100	100	100
Attainment Level	3	3	3	3	3

Overall Attainment

Level 0	<40	<40	<40	<40	<40
Level 1	40	40	40	40	40
Level 2	50	50	50	50	50
Level 3	>60	>60	>60	>60	>60
Internal attainment level of CO	CO 1	CO 2	CO 3	CO 4	CO 5
Internal attainment of CO	3	3	3	3	3
External attainment of CO	3	3	3	3	3
Overall attainment of CO	3	3	3	3	3



AAER's Asian College of Science and Commerce

CO Attainment Sheet	Department	Class	Strength of the
Course Code	Name of the teacher	Internal	Year
EL- 232	Chhaya Umare		2022-23

Sr. No.	Name	CO 1		CO 2		CO 3		CO 4	
		15	35	15	35	15	35	15	35
1	Saurabh Ingale	13	32	14	34	13	32	14	34
2	Kudale Omkar Prakash	14	33	14	31	14	32	14	33
3	Mgrumkhane Priyanka R	15	34	14	33	14	34	13	32
4	Sankalp Mane	14	32	12	32	15	35	14	31
5	Rohan Phule	13	33	13	34	12	33	13	33
6	Salunkhe Ghanasham	12	32	14	31	14	32	15	32
7	Patil Vasundhara	14	34	15	34	14	34	13	33
8	Patukale Manaswi	14	33	12	33	13	33	14	34
	Average	13.625	32.9	13.5	32.75	13.63	33	13.75	32.75
	Percentage	90.833	93.9	90	93.571	90.83	95	91.667	93.571


Co-Ordinator
 Internal Quality Assurance Cell
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Criterion 2 – Teaching-Learning and Evaluation

Key Indicator: 2.6: Student Performance and Learning Outcomes

Metric No. - 2.6.2: Attainment of POs and COs are evaluated.

CO-PO Attainment of B.Science

Department of Science

Academic Year	2022-23
Class	S.Y.B.Sc
Semester	Semester II (CBCS Pattern 2020)
Course	Analog Circuit Design
Teacher	Puja Chakur
Strength of Class	8

Course Completion after completion of this course

CO1	Design single/multistage amplifier using transistor and analyze
CO2	Understand and design push pull amplifier and need of heat sinks
CO3	Analyze the effect of negative and positive feedback on characteristics of Opamp
CO4	Design , develop and build circuits for identified applications



Total No. of students	8	8	8	8
Total Number of Present Students	8	8	8	8
No. of students achieved	8	8	8	8
Percentage Attainment	100	100	100	100
Attainment Level	3	3	3	3

Overall Attainment

Level 0	<40	<40	<40	<40
Level 1	40	40	40	40
Level 2	50	50	50	50
Level 3	>60	>60	>60	>60
Internal attainment level of CO	CO 1	CO 2	CO 3	CO 5
Internal attainment of CO	3	3	3	3



Assessment Tool

Course	Internal		University
	Test	Assignment	End Semester Examination
CO1	Internal Exam	Assignment	End Semester Examination
CO2	Internal Exam	Assignment	End Semester Examination
CO3	Internal Exam	Assignment	End Semester Examination
CO4	Internal Exam	Assignment	End Semester Examination
% target of CO Attainment by Student	40%	40%	40%

Marks Scored by Student

Course Outcome (CO)	% Average of individual	
	Internal	External/University
CO1	88	94
CO2	87	94
CO3	88	94
CO4	87	94

External Attainment Level

Level 0	< 40	< 40	< 40	< 40
Level 1	40	40	40	40
Level 2	50	50	50	50
Level 3	60	60	60	60
Internal attainment level of	CO1	CO2	CO3	CO5



External attainment of CO	3	3	3	3
Overall attainment of CO	3	3	3	3

AAER's Asian College of Science and Commerce,

CO Attainment Sheet	Department	Class	Strength of the
Course Code	Name of	Internal	Year
EL-241	Chhaya		2022-23

Sr. No.	Name	CO 1		CO 2		CO 3		CO 4	
		15	35	35	15	35	15	35	
1	Saurabh Ingale	14	31	33	14	31	13	33	
2	Kudale Omkar Prakashi	12	34	34	12	34	13	34	
3	Mgrumkhane Priyanka R	13	33	32	13	33	14	32	
4	Sankalp Mane	15	34	31	15	34	12	31	
5	Rohan Phule	14	32	33	14	32	12	33	
6	Salunkhe Ghanasham	12	31	32	12	31	13	32	
7	Patil Vasundhara	13	33	33	13	33	14	33	
8	Parukale Manaswi	13	34	34	13	34	13	34	
	Average	13.25	32.8	32.8	13	32.75	13	32.75	
	Percentage	88.33333	93.6	93.6	88	93.571	86.667	93.571	

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Internal Quality Assurance Cell
AAER'S Asian College of Science & Commerce



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Dhayari, Pune-411 041



Estd : 2007

PUNE UNIVERSITY
College Code : 878
AICTE CODE : C-41859

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(Non Aided College)

Criterion 2 – Teaching-Learning and Evaluation

Key Indicator: 2.6: Student Performance and Learning Outcomes

Metric No. - 2.6.2: Attainment of POs and COs are evaluated.

CO-PO Attainment of B.Science

Department of Science

Academic Year	2022-23
Class	S.Y.B.Sc
Semester	Semester II (CBCS Pattern 2020)
Course	Microcontroller and Python Programming
Teacher	Puja Chakur
Strength of Class	8

Course Completion after completion of this course

CO1	Identify the features and architectural details of microcontroller(arduino)
CO2	Understand special features of python programming language such as importing modules, directory, tuples
CO3	Design , build and implement applications using arduino and python



Assessment Tool

Course Outcome CO	Internal		University
	Test	Assignment	End Semester Examination
CO1	Internal Exam	Assignment	End Semester Examination
CO2	Internal Exam	Assignment	End Semester Examination
CO3	Internal Exam	Assignment	End Semester Examination
% target of CO Attainment by	40%	40%	40%

Marks Scored by Student

Course Outcome (CO)	% Average of individual	
	Internal	External/University
CO1	84	88
CO2	84	88
CO3	84	89

External Attainment Level

Level 0	< 40	< 40	< 40	< 40	< 40
Level 1	40	40	40	40	40
Level 2	50	50	50	50	50
Level 3	60	60	60	60	60



Internal attainment level of	CO1	CO2	CO3	CO4	CO5
Total No. of students	8	8	8	8	8
Total Number of Present students	8	8	8	8	8
No. of students achieved	8	8	8	8	8
Percentage Attainment	100	100	100	100	100
Attainment Level	3	3	3	3	3



Overall Attainment

Level 0	<40	<40	<40	<40	<40
Level 1	40	40	40	40	40
Level 2	50	50	50	50	50
Level 3	>60	>60	>60	>60	>60
Internal attainment level of CO	CO 1	CO 2	CO 3	CO 4	CO 5
Internal attainment of CO	3	3	3	3	3
External attainment of CO	3	3	3	3	3
Overall attainment of CO	3	3	3	3	3



AAER's Asian College of Science and Commerce

Course Code	Name of the teacher	Internal Exam.
FI.-242	Puja Chakur	2022-23

Sr. No.	Name	CO 1		CO 2		CO 3	
		15	35	15	35	15	35
1	Saurabh Ingale	13	32	14	34	13	33
2	Kudale Omkar Prakash	14	34	15	32	14	35
3	Mgrumkhane Priyanka R	12	29	14	29	14	34
4	Sankalp Mane	15	31	13	34	13	32
5	Rohan Phule	14	33	14	32	12	34
6	Salunkhe Ghanasham	13	32	14	34	14	33
7	Patil Vasundhara	14	32	13	31	15	32
8	Patukale Manaswi	13	34	15	33	13	34
	Average	25.1028	61.738	25.252	61.832	25.234	62.047
	Percentage	83.67601	88.198	84.174	88.331	84.112	88.638



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Est'd : 2007

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Criterion 2 – Teaching-Learning and Evaluation

Key Indicator: 2.6: Student Performance and Learning Outcomes

Metric No. - 2.6.2: Attainment of POs and COs are evaluated.

CO-PO Attainment of B.Science

Department of Science

Academic Year	2022-23
Class	T.Y.B.Sc
Semester	Semester I (CBCS Pattern 2021)
Course	Digital Design using Verilog
Teacher	Chhaya Umare
Strength of Class	9

Course Completion after completion of this course

CO1	Know and understand structure of HDL and Verilog.
CO2	Use Verilog effectively for simulation, verification and
CO3	Understand basics of programmable logic devices.

Assessment Tool

Course Outcome	Internal	University
CO		



	Test	End Semester Examination
CO1	Internal Exam	End Semester Examination
CO2	Internal	End Semester Examination
CO3	Internal Exam	End Semester Examination
% target of CO Attainment by Student	40%	40%

Marks Scored by Student

Course Outcome (CO)	% Average
	Internal
CO1	91
CO2	91
CO3	91

External Attainment Level

Level 0	< 40	< 40
Level 1	40	40
Level 2	50	50
Level 3	60	60
Internal attainment level of	CO1	CO3
Total No. of students	9	9



Total Number of Present Students	9	9
No. of students achieved	9	9
Percentage Attainment	100	100
Attainment Level	3	3

Overall Attainment

Level 0	<40	<40
Level 1	40	40
Level 2	50	50
Level 3	>60	>60
Internal attainment level of CO	CO 1	CO 3
Internal attainment of CO	3	3
External attainment of CO	3	3
Overall attainment of CO	3	3

AAER's Asian College of Science and Commerce,

CO Attainment Sheet	Department	Class	Strength of the Class
Course Code	Name of the teacher	Internal Exam.	Year
351	Chhaya Umare		2023-23



Sr. No.	Name	CO 1	CO 2	CO 3	
		35	15	15	35
1	Jadhav Adesh	33	13	14	34
2	Khade Aditi	33	12	15	34
3	Dalvi Ajinkya	29	14	14	34
4	Ghadage Amruta	31	13	13	32
5	Badhe Mayuresh	33	14	12	34
6	Indalkar Pankaj	33	15	13	34
7	Jagtap Rohan	32	14	15	33
8	Patil Samruddhi	34	15	13	34
9	Pravin Pawar	32	13	12	33
	Average	32.25	13.75	13.625	33.6
	Percentage	92.1429	90.83333333	90.83333333	96.1

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Estd : 2007

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PU/FN/25/26/2008
College Code: HYH
AIS-E CODE: C-41689

Criterion 2 – Teaching-Learning and Evaluation

Key Indicator: 2.6: Student Performance and Learning Outcomes

Metric No. - 2.6.2: Attainment of POs and COs are evaluated.

CO-PO Attainment of B.Science Department of Science

Academic Year	2022-23
Class	T.Y.B.Sc
Semest	Semester I (CBCS Pattern 2021)
Course	Microcontroller Architecture and Programming
Teacher	Chhaya Unare
Strength of Class	9

Course Completion after completion of this course

CO1	Understand the basics of microcontroller.
CO2	Acquire basic programming skills in C language
CO3	Understand and acquire basic programming skills for AVR

Assessment Tool

Course Outcome	Internal	University



	Test	Assignment	End Semester Examination
CO1	Internal Exam	Assignment	End Semester Examination
CO2	Internal	Assignment	End Semester Examination
CO3	Internal Exam	Assignment	End Semester Examination
% target of CO Attainment	40%	40%	40%

Marks Scored by Student

Course Outcome (CO)	% Average of	
	Internal	External/ University
CO1	91	92
CO2	91	92
CO3	91	96

External Attainment Level

Level 0	< 40	< 40	< 40
Level 1	40	40	40
Level 2	50	50	50
Level 3	60	60	60
Internal attainment	CO1	CO2	CO3
Total No. of student	9	9	9
Number of Present	9	9	9



No. of students	9	9	9
Percentage	100	100	100
Attainment	3	3	3

Overall Attainment

Level 0	<40	<40	<40
Level 1	40	40	40
Level 2	50	50	50
Level 3	>60	>60	>60
Internal attainment level of CO	CO 1	CO 2	CO 3
Internal attainment of CO	3	3	3
External attainment of CO	3	3	3
Overall attainment of CO	3	3	3



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CO Attainment Sheet	Department	Class	Strength of the Class
Course Code	Name of the teacher	Internal Exam.	Year
352	Chhaya Umare		2022-23

Sr. No.	Name	CO 1		CO 2		CO 3	
		15	35	15	35	15	35
1	Jadhav Adesh	14	33	13	33	14	34
2	Khade Aditi	13	33	12	33	15	34
3	Dalvi Ajinkya	12	29	14	29	14	34
4	Ghadage Amruta	15	31	13	34	13	32
5	Badhe Mayuresh	14	33	14	32	12	34
6	Indalkar Pankaj	14	33	15	32	13	34
7	Jagtap Rohan	14	32	14	31	15	33
8	Samruddh	13	34	15	33	13	34
9	Pravin Pawar	14	32	13	32	12	33
	Average	13.625	32.25	13.75	32	13.625	33.625
	Percentage	90.8333	92.1428571	90.833	92	90.833333	96.071

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Est'd : 2007

PU/PN/CS/326/2009
College Code : 678
AISHE CODE : C-11999

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Criterion 2 – Teaching-Learning and Evaluation

Key Indicator: 2.6: Student Performance and Learning Outcomes

Metric No. - 2.6.2: Attainment of POs and COs are evaluated.

CO-PO Attainment of B.Science

Department of Science

Academic Year	2022-23
Class	T.Y.B.Sc
Semester	Semester I (CBCS Pattern 2021)
Course	Analog circuit Design and Applications
Teacher	Chhaya Umare
Strength of Class	9

Course Completion after completion of this course

CO1	Analyze waveform generators required for testing different circuits
CO2	Build application circuits using specialized Ics
CO3	Design analog systems using available ICs.

Assessment Tool

Course Outcome CO	Internal		University
	Test	Assignment	
			End Semester Examination
CO1	Internal Exam	Assignment	End Semester Examination



CO2	Internal Exam	Assignment	End Semester Examination
CO3	Internal Exam	Assignment	End Semester Examination
% target of CO Attainment by Student	40%	40%	40%

Marks Scored by Student

Course Outcome (CO)	% Average of	
	Internal	External/University
CO1	91	92
CO2	91	92
CO3	90	96

External Attainment Level

Level 0	< 40	< 40	< 40
Level 1	40	40	40
Level 2	50	50	50
Level 3	60	60	60
Internal attainment level of	CO1	CO2	CO3
Total No. of students	9	9	9
Total Number of Present Students	9	9	9
No. of students achieved	9	9	9
Percentage Attainment	100	100	100



Attainment Level	3	3	3
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Overall Attainment

Level 0	<40	<40	<40
Level 1	40	40	40
Level 2	50	50	50
Level 3	>60	>60	>60
Internal attainment level of CO	CO 1	CO 2	CO 3
Internal attainment of CO	3	3	3
External attainment of CO	3	3	3
Overall attainment of CO	3	3	3

AAER's Asian College of Science and Commerce,

CO Attainment Sheet	Department	Class	Strength of the
Course Code	Name of the teacher	Internal Exam.	Year
353	Chhaya Umare		2022-23

Sr. No.	Name	CO 1		CO 2		CO 3	
		15	35	15	35	15	35
1	Jadhav Adesh	14	33	13	33	14	34
2	Khade Aditi	13	33	12	33	15	34
3	Dalvi Ajinkya	12	29	14	29	14	34
4	Ghadage Amruta	15	31	13	34	13	32
5	Badhe Mayuresh	14	33	14	32	12	34
6	Indalkar Pankaj	14	33	15	32	13	34
7	Jagtap Rohan	14	32	14	31	15	33
8	Patil Samruddhi	13	34	15	33	13	34



9	Pravin Pawar	14	32	13	32	12	33
	Average	13.6667	32.222	13.667	32.111	13.44444	33.55555556
	Percentage	91.1111	92.063	91.111	91.746	89.62963	95.87301587

Pravin Pawar

Co-Ordinator
Internal Quality Assurance Cell
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A. P. Singh

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Criterion 2 – Teaching-Learning and Evaluation

Key Indicator: 2.6: Student Performance and Learning Outcomes

Metric No. - 2.6.2: Attainment of POs and COs are evaluated.

**CO-PO Attainment of B.Science
 Department of Science**

Academic Year	2022-23
Class	T.Y.B.Sc
Semester	Semester I (CBCS Pattern 2021)
Course	Nanoelectronics
Teacher	Chhaya Umare
Strength of Class	9

Course Completion after completion of this course

CO1	Understand basic concepts of nano electronic devices and nano
CO2	Understand techniques of characterization of nanostructures,
CO3	Understand different devices constructed using nanotechnology

Assessment Tool

Course Outcome CO	Internal		University
		Test	Assignment
CO1	Internal Exam	Assignment	End Semester Examination



CO2	Internal Exam	Assignment	End Semester Examination
CO3	Internal Exam	Assignment	End Semester Examination
% target of CO Attainment by	40%	40%	40%

Marks Scored by Student

Course Outcome (CO)	% Average of	
	Internal	External/University
CO1	92	91
CO2	90	91
CO3	90	96

External Attainment Level

Level 0	< 40	< 40	< 40
Level 1	40	40	40
Level 2	50	50	50
Level 3	60	60	60
Internal attainment level of	CO1	CO2	CO3
Total No. of students	9	9	9
Total Number of Present Students	9	9	9
No. of students achieved	9	9	9
Percentage Attainment	100	100	100
Attainment Level	3	3	3



Overall Attainment

Level 0	<40	<40	<40
Level 1	40	40	40
Level 2	50	50	50
Level 3	>60	>60	>60
Internal attainment level of CO	CO 1	CO 2	CO 3
Internal attainment of CO	3	3	3
External attainment of CO	3	3	3
Overall attainment of CO	3	3	3

AAER's Asian College of Science and Commerce,

CO Attainment Sheet	Department	Class	Strength of the
Course Code	Name of the teacher	Internal Exam.	Year
354	Chhaya Umare		2022-23

Sr. No.	Name	CO 1		CO 2		CO 3	
		15	35	15	35	15	35
1	Jadhav Adesh	14	33	13	33	14	34
2	Khade Aditi	13	33	12	33	15	34
3	Dalvi Ajinkya	12	29	14	29	14	34
4	Ghadage Anurata	15	31	13	34	13	32
5	Badhe Mayuresh	14	33	14	32	12	34
6	Indalkar Pankaj	14	33	15	32	13	34
7	Jagtap Rohan	14	32	14	31	15	33
8	Patil Samrudhi	13	34	15	33	13	34
9	Pravin Pawar	15	30	11	29	12	34



Average	13.777778	32	13.4444	31.7778	13.4444	33.6667
Percentage	91.8518519	91.4286	89.6296	90.7937	89.6296	96.1905

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Estd : 2007

PUNJAC/026/2009
College Code : 073
A/SPE/COOP/1-41870

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Criterion 2 – Teaching-Learning and Evaluation

Key Indicator: 2.6: Student Performance and Learning Outcomes

Metric No. - 2.6.2: Attainment of POs and COs are evaluated.

CO-PO Attainment of B.Science

Department of Science

Academic Year	2022-23
Class	T.Y.B.Sc
Semester	Semester I (CBCS Pattern 2021)
Course	Optics and Fiber Optic Communication
Teacher	Chhaya Umare
Strength of Class	9

Course Completion after completion of this course

CO1	To acquire Knowledge of optical fiber communication system
CO2	To understand different parameters of optical fibers
CO3	To analyze and integrate fiber optical network components in variety of networking schemes.

Assessment Tool

Course Outcome CO	Internal		University
		Test	Assignment
CO1	Internal Exam	Assignment	End Semester Examination



CO2	Internal Exam	Assignment	End Semester Examination
CO3	Internal Exam	Assignment	End Semester Examination
CO4	Internal Exam	Assignment	End Semester Examination
CO5	Internal Exam	Assignment	End Semester Examination
% target of CO Attainment by Student	40%	40%	40%

Marks Scored by Student

Course Outcome (CO)	% Average of	
	Internal	External/University
CO1	91	92
CO2	90	92
CO3	91	95

External Attainment Level

Level 0	< 40	< 40	< 40
Level 1	40	40	40
Level 2	50	50	50
Level 3	60	60	60
Internal Attainment level of	CO1	CO2	CO3
Total No. of students	9	9	9
Total Number of Present Students	9	9	9
No. of students achieved	9	9	9
Percentage Attainment	100	100	100



Attainment Level	3	3	3
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Overall Attainment

Level 0	<40	<40	<40
Level 1	40	40	40
Level 2	50	50	50
Level 3	>60	>60	>60
Internal attainment level of CO	CO 1	CO 2	CO 3
Internal attainment of CO	3	3	3
External attainment of CO	3	3	3
Overall attainment of CO	3	3	3

AAER's Asian College of Science and Commerce,

CO Attainment Sheet	Department	Class	Strength of the
Course Code	Name of the teacher	Internal Exam.	Year
356	Chhaya Umare		2022-23

Sr. No.	Name	CO 1		CO 2		CO 3	
		15	35	15	35	15	35
1	Jadhav Adesh	14	33	13	33	14	34
2	Khade Aditi	13	33	12	33	15	34
3	Dalvi Ajinkya	12	29	14	29	14	34
4	Ghadage Anurta	15	31	13	34	13	32
5	Budhe Mayuresh	14	33	14	32	12	34
6	Indalkar Pankaj	14	33	15	32	13	34
7	Jagiap Rohan	14	32	14	31	15	33
8	Patil Samruddhi	13	34	15	33	13	34
9	Pravin Pawar	14	31	12	34	14	30
	Average	13.67	32.1111	13.5556	32.33	13.6667	33.222
	Percentage	91.11	91.746	90.3704	92.38	91.1111	94.921

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Estd : 2007

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UJPH/CS/325/2006

College Code: 876

AISEE CODE: 0-47899

Criterion 2 – Teaching-Learning and Evaluation

Key Indicator: 2.6: Student Performance and Learning Outcomes

Metric No. - 2.6.2: Attainment of POs and COs are evaluated.

**CO-PO Attainment of B.Science
Department of Science**

Academic Year	2022-23
Class	T.Y.B.Sc
Semest	Semester II (CBCS Pattern 2021)
Course	Modern Communication Systems
Teacher	Chhaya Umare
Strengt h of Class	8

Course Completion after completion of this course

CO1	Understand different types of pulse modulation techniques.
CO2	Describe the evolution and importance of Mobile communication and cellular communication
CO3	Know the basics of satellite communication systems.

Assessment Tool

Course Outcome	University
CO	Internal



	Test	Assignment	End Semester Examination
CO1	Internal Exam	Assignment	End Semester Examination
CO2	Internal Exam	Assignment	End Semester Examination
CO3	Internal Exam	Assignment	End Semester Examination
% target of CO Attainment by Student	40%	40%	40%

Marks Scored by Student

Course Outcome (CO)	% Average of	
	Internal	External/ University
CO1	91	92
CO2	90	91
CO3	91	96

External Attainment Level

Level 0	< 40	< 40	< 40
Level 1	40	40	40
Level 2	50	50	50
Level 3	60	60	60
Internal attainment level of	CO1	CO2	CO3
Total No of students	9	9	9
Total Number of Present Students	9	9	9
No. of students achieved	9	9	9
Percentage Attainment	100	100	100



Attainment Level	3	3	3
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Overall Attainment

Level 0	<40	<40	<40
Level 1	40	40	40
Level 2	50	50	50
Level 3	>60	>60	>60
Internal attainment level of CO	CO 1	CO 2	CO 3
Internal attainment of CO	3	3	3
External attainment of CO	3	3	3
Overall attainment of CO	3	3	3

AAER's Asian College of Science and Commerce,

CO Attainment Sheet	Department	Class	Strength of the
Course Code	Name of the teacher	Internal Exam.	Year
361	Chhaya Umare		2022-23

Sr. No.	Name	CO 1		CO 2		CO 3	
		15	35	15	35	15	35
1	Jadhav Adesh	14	33	13	33	14	34
2	Khade Aditi	13	33	12	33	15	34
3	Dalvi Ajinkya	12	29	14	29	14	34
4	Ghadage Amruta	15	31	13	34	13	32
5	Badhe Mayuresh	14	33	14	32	12	34
6	Indalkar Pankaj	14	33	15	32	13	34
7	Jagtap Rohan	14	32	14	31	15	33
8	Patil Samruddhi	13	34	15	33	13	34



Pravin Pawar	14	32	12	31	14	33
Average	13.6667	32.2222	13.5556	32	13.6667	33.5556
Percentage	91.1111	92.0635	90.3704	91.4286	91.1111	95.873

Pravin Pawar

Co-Ordinator
Internal Quality Assurance Cell
AAER'S Asian College of Science & Commerce



Pravin Pawar

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Dhayari, Pune-411 041



Estd : 2007

PU/FIN/CS/246/2023
College Code : 878
A-SI-E CODE : 0-41859

AAER's ASIAN COLLEGE OF SCIENCE & COMMERCE

(Affiliated to Savitribai Phule Pune University & Approved by Govt. of Maharashtra)

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(Non Aided College)

Criterion 2 – Teaching-Learning and Evaluation

Key Indicator: 2.6: Student Performance and Learning Outcomes

Metric No. - 2.6.2: Attainment of POs and COs are evaluated.

CO-PO Attainment of B.Science

Department of Science

Academic Year	2022-23
Class	T.Y.B.Sc
Semest	Semester II (CBCS Pattern 2021)
Course	Embedded System Design using Microcontrollers
Teacher	Dipali Dande
Strength of Class	8

Course Completion after completion of this course

CO1	Understand features and architecture of PIC microcontroller.
CO2	Demonstrate how to interface PIC microcontroller with different peripherals
CO3	Demonstrate embedded system using given microcontroller.

Assessment Tool

Course Outcome CO	Internal	University



	Test	Assignment	End Semester Examination
CO1	Internal Exam	Assignment	End Semester Examination
CO2	Internal Exam	Assignment	End Semester Examination
CO3	Internal Exam	Assignment	End Semester Examination
% target of CO Attainment by Student	40%	40%	40%

Marks Scored by Student

Course Outcome (CO)	% Average of	
	Internal	External/ University
CO1	91	92
CO2	90	92
CO3	91	96

External Attainment Level

Level 0	< 40	< 40	< 40
Level 1	40	40	40
Level 2	50	50	50
Level 3	60	60	60
Internal attainment level of	CO1	CO2	CO3
Total No. of students	9	9	9
Total Number of Present Students	9	9	9



No. of students achieved	9	9	9
Percentage Attainment	100	100	100
Attainment Level	3	3	3

Overall Attainment

Level 0	<40	<40	<40
Level 1	40	40	40
Level 2	50	50	50
Level 3	>60	>60	>60
Internal attainment at level of CO	CO 1	CO 2	CO 3
Internal attainment of CO	3	3	3
External attainment of CO	3	3	3
Overall attainment of CO	3	3	3

AAER's Asian College of Science and Commerce,

CO Attainment Sheet	Department	Class	Strength of the
Course Code	Name of the teacher	Internal Exam	Year
362	Dipali Dande		2022-23

Sr. No.	Name	CO 1		CO 2		CO 3	
		15	35	15	35	15	35
1	Jadhav Adesh	14	33	13	33	14	34
2	Khade Aditi	13	33	12	33	15	34
3	Dalvi Ajinkya	12	29	14	29	14	34
4	Ghadage Anurata	15	31	13	34	13	32
5	Badhe Mayuresh	14	33	14	32	12	34
6	Indalkar Pankaj	14	33	15	32	13	34
7	Jagtap Rohan	14	32	14	31	15	33



8	Patil Samruddhi	13	34	15	33	13	34
9	Pravin Pawar	14	32	12	32	14	33
	Average	13.6667	32.2222	13.5556	32.1111	13.6667	33.5556
	Percentage	91.1111	92.0635	90.3704	91.746	91.1111	95.873



Co-Ordinator
Internal Quality Assurance Cell
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Dhayan, Pune-411 641



Estd : 2007

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Criterion 2 - Teaching-Learning and Evaluation

Key Indicator: 2.6: Student Performance and Learning Outcomes

Metric No. - 2.6.2: Attainment of POs and COs are evaluated.

CO-PO Attainment of B.Science

Department of Science

Academic Year	2022-23
Class	T.Y.B.Sc
Semester	Semester II (CBCS Pattern 2021)
Course	Manufacturing Processes for Electronics
Teacher	Chhaya Umare
Strength of Class	9

Course Completion after completion of this course

CO1	Understand basics of Passive Electronic Component Manufacturing Processes
CO2	Understand process involved in PCB manufacture and Modern Circuit Assembly
CO3	Know about the Semiconductor Device and IC Fabrication Process

Assessment Tool

Course Outcome CO	Internal		University
	Test	Assignment	End Semester Examination



CO1	Internal Exam	Assignment	End Semester Examination
CO2	Internal Exam	Assignment	End Semester Examination
CO3	Internal Exam	Assignment	End Semester Examination
% target of CO Attainment by Student	40%	40%	40%

Marks Scored by Student

Course Outcome (CO)	% Average of	
	Internal	External/University
CO1	91	92
CO2	91	91
CO3	91	96

External Attainment Level

Level 0	< 40	< 40	< 40
Level 1	40	40	40
Level 2	50	50	50
Level 3	60	60	60
Internal attainment level of	CO1	CO2	CO3
Total No. of students	9	9	9
Total Number of Present Students	9	9	9
No. of students achieved	9	9	9
Percentage Attainment	100	100	100
Attainment Level	3	3	3



Overall Attainment

Level 0	<40	<40	<40
Level 1	40	40	40
Level 2	50	50	50
Level 3	>60	>60	>60
Internal attainment level of CO	CO 1	CO 2	CO 3
Internal attainment of CO	3	3	3
External attainment of CO	3	3	3
Overall attainment of CO	3	3	3

AAER's Asian College of Science and Commerce,

CO Attainment Sheet	Department	Class	Strength of the
Course Code	Name of the teacher	Internal Exam.	Year
364	Chhaya Umare		2022-23

Sr. No.	Name	CO 1		CO 2		CO 3	
		15	35	15	35	15	35
1	Jadhav Adesh	14	33	13	33	14	34
2	Khade Aditi	13	33	12	33	15	34
3	Dalvi Ajinkya	12	29	14	29	14	34
4	Ghadage Amruta	15	31	13	34	13	32
5	Radhe Mayuresh	14	33	14	32	12	34
6	Indalkar Pankaj	14	33	15	32	13	34
7	Jagtap Rohan	14	32	14	31	15	33
8	Patil Samruddhi	13	34	15	33	13	34
9	Pravin Pawar	14	31	13	30	14	33
	Average	13.6667	32.1111	13.6667	31.8889	13.6667	33.5556



	Percentage	91.1111	91.746	91.1111	91.1111	91.1111	95.873
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Estd : 2007

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(Non Aided College)

UJMNCS326-2018
College Code : 876
AISHE CODE : G-41989

Criterion 2 – Teaching-Learning and Evaluation
Key Indicator: 2.6: Student Performance and Learning Outcomes
Metric No. - 2.6.2: Attainment of POs and COs are evaluated.

CO-PO Attainment of B.Science
Department of Science

Academic Year	2022-23
Class	T.Y.B.Sc
Semester	Semester II (CBCS Pattern 2021)
Course	Process Control Systems
Teacher	Chhaya Umare
Strength of Class	9

Course Completion after completion of this course

CO1	Familiar with different types of sensors and related systems
CO2	Know different types of measurement systems
CO3	Understand different types of process control systems and their characteristics.

Assessment Tool

Course Outcome CO	Internal		University
		Test	Assignment



CO1	Internal Exam	Assignment	End Semester Examination
CO2	Internal Exam	Assignment	End Semester Examination
CO3	Internal Exam	Assignment	End Semester Examination
% target of CO Attainment by Student	40%	40%	40%

Marks Scored by Student

Course Outcome (CO)	% Average of	
	Internal	External /University
CO1	90	92
CO2	91	91
CO3	91	96

External Attainment Level

Level 0	< 40	< 40	< 40
Level 1	40	40	40
Level 2	50	50	50
Level 3	60	60	60
Internal attainment level of	CO1	CO2	CO3
Total No. of students	9	9	9
Total Number of Present Students	9	9	9
No. of students achieved	9	9	9
Percentage Attainment	100	100	100
Attainment Level	3	3	3



Overall Attainment

Level 0	<40	<40	<40
Level 1	40	40	40
Level 2	50	50	50
Level 3	>60	>60	>60
Internal attainment level of CO	CO 1	CO 2	CO 3
Internal attainment of CO	3	3	3
External attainment of CO	3	3	3
Overall attainment of CO	3	3	3

AAER's Asian College of Science and Commerce,

CO Attainment Sheet	Department	Class	Strength of the
Course Code	Name of the teacher	Internal Exam.	Year
365	Chhaya Umare		2022-23

Sr. No.	Name	CO 1		CO 2		CO 3	
		15	35	15	35	15	35
1	Jadhav Adesh	14	33	13	33	14	34
2	Khade Aditi	13	33	12	33	15	34
3	Dalvi Ajinkya	12	29	14	29	14	34
4	Ghadage Amruta	15	31	13	34	13	32
5	Badhe Mayuresh	14	33	14	32	12	34
6	Indalkar Pankaj	14	33	15	32	13	34
7	Jagtap Rohan	14	32	14	31	15	35
8	Patil Samruddhi	13	34	15	33	13	34



9	Pravin Pawar	13	32	13	30	14	32
	Average	13.5556	32.2222	13.6667	31.8889	13.6667	33.4444
	Percentage	90.3704	92.0635	91.1111	91.1111	91.1111	95.5556



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Estd : 2007

PU/PN/CS/326/2008
College Code : 5/8
A/SHE CODE : C-41819

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Criterion 2 – Teaching-Learning and Evaluation

Key Indicator: 2.6: Student Performance and Learning Outcomes

Metric No. - 2.6.2: Attainment of POs and COs are evaluated.

CO-PO Attainment of B.Science

Department of Science

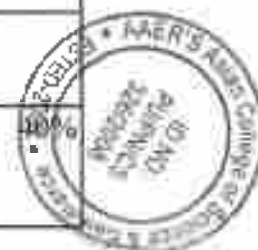
Academic Year	2022-23
Class	T.Y.B.Sc
Semester	Semester II (CBCS Pattern 2021)
Course	Sensors and Systems
Teacher	Dipali Dande
Strength of Class	9

Course Completion after completion of this course

CO1	Understand basic principles and types of different sensors.
CO2	Understand basic principles and types of actuators.
CO3	Know about signal conditioning systems for sensors.

Assessment Tool

Course Outcome CO	Internal		University
	Test	Assignment	End Semester Examination
CO1	Internal	Assignment	End Semester Examination
CO2	Internal Exam	Assignment	End Semester Examination
CO3	Internal Exam	Assignment	End Semester Examination
% target of CO Attainment	40%	40%	



Marks Scored by Student

Course Outcome (CO)	% Average of individual	
	Internal	External/University
CO1	92	94
CO2	91	91
CO3	91	91

External Attainment Level

Level 0	< 40	< 40	< 40
Level 1	40	40	40
Level 2	50	50	50
Level 3	60	60	60
Internal attainment level of	CO1	CO2	CO3
Total No. of students	9	9	9
Total Number of Present Students	9	9	9
No. of students achieved	9	9	9
Percentage Attainment	100	100	100
Attainment Level	3	3	3

Overall Attainment

Level 0	<40	<40	<40
Level 1	40	40	40
Level 2	50	50	50
Level 3	>60	>60	>60
Internal attainment level of CO	CO 1	CO 2	CO 3
Internal attainment of CO	3	3	3
External attainment of CO	3	3	3



Overall attainment of CO	3	3	3
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AAER'S Asian College of Science and Commerce,

CO Attainment Sheet	Department	Class	Strength of the
Course Code	Name of the teacher	Internal Exam. Assessment	Year
EL 366	Dipali Dande		2022-23

Sr. No.	Name	CO 1		CO 2		CO 3	
		15	35	15	35	15	35
1	Jadhav Adesh	13	34	14	33	13	34
2	Khade Aditi	14	32	13	33	14	32
3	Dalvi Ajinkya	14	31	15	29	13	29
4	Ghadage Amruta	13	35	14	34	14	34
5	Badhe Mayuresh	15	32	13	32	14	32
6	Indalkar Pankaj	15	34	15	32	12	33
7	Jagtap Rohan	14	34	13	31	13	32
8	Patil Samruddhi	12	33	15	33	13	35
9	Pravin Pawar	14	30	11	29	12	34
	Average	13.77777778	32.77777778	13.6667	31.7778	13.1111	32.7778
	Percentage	91.85185185	93.6507937	91.1111	90.7937	87.4074	93.6508

Pragya

Co-Ordinator
Internal Quality Assurance Cell
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Dipali

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(Non Aided College)

PUNUCS/26/2028

College Code: 878

AISHE CODE: C-41802

Criterion 2 – Teaching-Learning and Evaluation
Key Indicator: 2.6: Student Performance and Learning Outcomes
Metric No. - 2.6.2: Attainment of POs and COs are evaluated.

CO-PO Attainment of T.Y.BSC(CS)
Department of Computer Science

Academic Year	2022-23
Class	T.Y.BSC(CS)
Semester	Semester I (CBCS Pattern 2019)
Course	Operating Systems - I
Teacher	Asst.Prof. Kanchan Pavate
Strength of Class	18

Course Completion after completion of this course

CO1	To understand the concept of operation system and its principle
CO2	To study the various functions and services provided by operating system
CO3	To understand the notion of process and threads

Assessment Tool



Course Outcome CO	Internal		University
	Test	Assignm	End Semester Examination
CO1	Internal Exam	Assignm	End Semester Examination
CO2	Internal Exam	Assignm	End Semester Examination
CO3	Internal Exam	Assignm	End Semester Examination
% target of CO Attainment by Student	40%	40%	40%

Marks Scored by Student

Course Outcome (CO)	% Average of individual Target of all Tools	
	Internal	Exter nal/Un iversit y
CO1	51.89	66.96
CO2	51.01	66.21
CO3	50.72	68.32

External Attainment Level

Level 0	< 40	< 41	< 41
Level 1	40	40	40
Level 2	50	50	50
Level 3	60	60	60
Internal attainment level of	CO1	CO2	CO3
Total No. of students	18	18	18
Total Number of Present Students	18	18	18
No. of students achieved	18	18	18



Percentage Attainment	100	100	100
Attainment Level	3	3	3

Overall Attainment

Level 0	<40	<40	<40
Level 1	40	40	40
Level 2	50	50	50
Level 3	>60	>60	>60
Internal attainment level of CO	CO 1	CO 2	CO 3
Internal attainment of CO	3	3	3
External attainment of CO	3	3	3
Overall attainment of CO	3	3	3

AAER's Asian College of Science and Commerce,

CO Attainment Sheet	Department	Class	Strength of the Class
Course Code	Name of the teacher	Internal Exam. Assessm	Year 2022-23
CS - 351	Asst.Prof. Kanchan Pavate		18

Sr. No.	Name	CO 1		CO 2		CO 3	
		15	35	15	35	15	35
1	BHAKARE ANIKET SANTOSH	9	28	7	26	9	30



2	CHAVAN ILARSH MAHESH	9	29	8	27	7	26
3	CHAVAN KAPIL	7	27	9	28	10	28
4	GAIKWAD ATIA	10	30	10	29	8	29
5	JOSHI REVAN VIKAS	8	26	11	30	8	30
6	KUDRE MAILADLVI PANDURANG	8	28	10	26	9	29
7	NAGAVKAR BHAVARTH SUDHAKAR	9	29	10	26	10	29
8	NALAWADE ABHISHEK JEETENDRA	10	30	9	27	9	28
9	PAWALE AKASH	11	29	9	25	10	31
10	PILAPALE AJINKY	7	27	7	28	8	28
11	RABADE RITESH	8	26	10	29	7	26
12	BANE YOGESHI YASHWANT	9	25	8	28	9	25
13	DIIRE RUSHIKESH DADASAHEB	10	26	8	29	10	29
14	HUWALE DIKSHA SANJAY	11	27	9	30	10	25
15	KORE VARAD SANJAY	10	28	10	29	11	30
16	PERNEKAR MANGAL SHANKAR	11	29	11	27	8	26
17	SALAVE ASHICTOSHI JYOTI	9	30	8	26	10	31
18	SURVASE SWAPNIL MOHAN	8	30	7	28	7	35
	Average	7.783	23.4	8	23	7.6	24
	Percentage	51.88	67	51	66	51	68





Year : 2027

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PUN/PC/3203/2019
College Name : 878
AICTE CODE : C-17744

Criterion 2 – Teaching-Learning and Evaluation

Key Indicator: 2.6: Student Performance and Learning Outcome

Metric No. - 2.6.2: Attainment of POs and COs are evaluated.

CO-PO Attainment of T.Y.BSC(CS) Department of Computer Science

Academic Year	2022-23
Class	T.Y.BSC(CS)
Semester	Semester I (CBCS Pattern 2019)
Course	Computer Networks – II
Teacher	Asst.Prof. Latika Chamc
Strength of Class	18

Course Completion after completion of this course

CO1	To understand different protocols of application layer.
CO2	To understand concepts of multimedia.
CO3	Explore the different methods used for Network/INTERN ET security



Assessment Tool			
Course Outcome CO	Internal		University
	Test	Assign	End Semester Examination
CO1	Internal Exam	Assign	End Semester Examination
CO2	Internal Exam	Assign	End Semester Examination
CO3	Internal Exam	Assign	End Semester Examination
% target of CO Attainment by Student	40%	40%	40%
Marks Scored by Student			

Course Outcome (CO)	% Average of individual Target of all	
	Internal	External/University
CO1	51.59	66.46
CO2	48.98	65.34
CO3	48.99	65.47

External Attainment Level

Level 0	< 40	< 40	< 40
Level 1	40	40	40
Level 2	50	50	50
Level 3	60	60	60
Internal attainment level of	CO1	CO2	CO3
Total No. of students	18	18	18
Total Number of Present Students	18	18	18
No. of students achieved	18	18	18
Percentage Attainment	100	100	100



Attainment Level	3	3	3
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Overall Attainment

Level 0	<40	<40	<40
Level 1	40	40	40
Level 2	50	50	50
Level 3	>60	>60	>60
Internal attainment level of CO	CO 1	CO 2	CO 3
Internal attainment of CO	3	3	3
External attainment of CO	3	3	3
Overall attainment of CO	3	3	3

AAER's Asian College of Science and Commerce,

CO Attainment Sheet	Department	Class	Strength of the Class
Course Code	Name of the teacher	Internal Exam. Assessment	Year 2022-23
CS-352	Asst.Prof. Ashvini Deshmukh		18

Sr. No.	Name	CO 1		CO 2		CO 3	
		15	35	15	35	15	35
1	BHAKARE ANIKET						
	SANTOSH	9	29	7	26	10	25
2	CHAVAN HARSH						
	MAHESH	7	28	10	30	9	25



3	CHAVAN KAPII	11	30	9	25	7	29
4	GAIKWAD ATHI	10	29	11	26	8	28
5	JOSHI REVAN VIKAS	8	26	7	25	7	30
6	KUDRE MAHADEVI PANDURANG	7	28	8	27	7	29
7	NAGAVKAR BHAVARITH SUDHAKAR	9	30	7	26	11	26
8	NALAWADE ABHISHEK JEETENDRA	11	25	8	30	9	28
9	PAWALE AKAS	8	29	10	25	11	30
10	PHAPALE AJNI	10	25	8	29	8	26
11	RABADE RITES	11	30	7	25	9	27
12	BANE YOGESH YASHIWANT	7	25	8	29	7	28
13	DHIRI RUSHIKESH DADASAHEB	10	26	7	28	9	29
14	HIWALE DIKSHA SANJAY	9	25	9	30	10	25
15	KORE VARAD SANJAY	11	30	11	29	8	26
16	PERNEKAR MANGAL SHANKAR	7	29	8	26	9	30
17	SALAVE ASITOSH JYOTI	8	26	9	28	7	25
18	SURVASE SWAPNIL MOHAN	10	30	10	27	8	26
19	Average	7.739	23.3	7.3	22.87	7.3	23
20	Percentage	51.59	66.5	49	65.34	49	65
21							





Est'd : 2007

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(Non Aided College)

PL/PN/CS/328/2005

College Code : 878

AISHE CODE : C-41899

Criterion 2 – Teaching-Learning and Evaluation
by Indicator: 2.6: Student Performance and Learning Outcome
Metric No. - 2.6.2: Attainment of POs and COs are evaluated

CO-PO Attainment of T.Y.BSC(CS) Department of Computer Science

Academic Year	2022-23
Class	T.Y.BSC(CS)
Semester	Semester I (CBCS Pattern 2019)
Course	Web Technologies – I
Teacher	Asst.Prof. Shruti Rege
Strength of Class	18

Course Completion after completion of this course

CO1	To Design dynamic and interactive Web pages.
CO2	To Learn Core-PHP, Server Side Scripting Language
CO3	To Learn PHP-Database handling



Assessment Tool

Course Outcome CO	Internal		University
	Test	Assignm	End Semester Examination
CO1	Internal Exam	Assignm	End Semester Examination
CO2	Internal Exam	Assignm	End Semester Examination
CO3	Internal Exam	Assignm	End Semester Examination
% target of CO Attainment by Student	40%	40%	40%
Marks Scored by Student			

Course Outcome (CO)	% Average of individual Target of	
	Internal	Exter nal/U nivers ity
CO1	56.29	79.37
CO2	58.51	78.25
CO3	60.74	79.05

External Attainment Level

Level 0	< 40	< 40	< 40
Level 1	40	40	40
Level 2	50	50	50
Level 3	60	60	60
Internal attainment level of	CO1	CO2	CO3
Total No. of students	18	18	18



Total Number of Present Students	18	18	18
No. of students achieved	18	18	18
Percentage Attainment	100	100	100
Attainment Level	3	3	3

Overall Attainment

Level 0	<40	<40	<40
Level 1	40	40	40
Level 2	50	50	50
Level 3	>60	>60	>60
Internal attainment level of CO	CO 1	CO 2	CO 3
Internal attainment of CO	3	3	3
External attainment of CO	3	3	3
Overall attainment of CO	3	3	3

AAER's Asian College of Science and Commerce,

CO Attainment Sheet	Department	Class	Strength of the Class
Course Code	Name of the teacher	Internal Exam. Assessment	Year 2022-23
CS-353	Asst.Prof. Shruti Rego		18



Sr. No.	Name	CO 1	CO 2	CO 3
---------	------	------	------	------

		15	35	15	35	15	35
1	BILAKARE ANIKET SANTOSH	8	25	8	26	10	26
2	CHAVAN HARSH MAHESH	7	29	9	30	9	25
3	CHAVAN KAL	9	25	7	26	7	30
4	GAIKWAD AI	10	28	8	26	11	30
5	JOSHI REVAN VIKAS	10	30	10	30	10	25
6	KUDRE MAHADEVI PANDURAN G	7	26	7	25	8	29
7	NAGAVKAR BHAVARTI SUDIIAKAR	9	27	8	29	7	30
8	NALAWADI ABHISHEK JEJENDRA	8	30	10	30	9	29
9	PAWALE AKA	10	29	9	29	11	27
10	PHAPALE AJI	8	26	7	26	9	26
11	RABADE RITI	9	30	11	25	11	30
12	BANE YOGESH YASHWANT	7	26	10	26	7	25
13	DHIRE RUSHIKESH DADASAHEB	8	26	8	25	10	26
14	HIWALE DIKSHA SANJAY	10	30	7	30	9	25
15	KORE VARAD SANJAY	9	25	9	30	11	30



16	PERNEKAR MANGAL SHANKAR	7	29	11	25	7	29
17	SALAVE ASHUTOSH JYOTI	8	30	9	29	8	26
18	SURVASE SWAPNIL MOHAN	8	29	10	26	10	30
19	Average	8.444	27.8	8.778	27.39	9.11	27.7
20	Percentage	56.3	79.4	58.52	78.25	60.7	79
21							





Estd : 2007

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[Non Aided College]

PUN/PCS/036/2007

College Code : 1808

AISHE CODE : C - 099

Criterion 2 – Teaching-Learning and Evaluation
Indicator: 2.6: Student Performance and Learning Outcome
Sub-Indicator No. - 2.6.2: Attainment of POs and COs are evaluated

CO-PO Attainment of T.Y.BSC(CS) Department of Computer Science

Academic Year	2022-23
Class	T.Y.BSC(CS)
Semester	Semester I (CBCS Pattern 2019)
Course	Foundations of Data Science
Teacher	Asst.Prof. Anita Bankar
Strength of Class	18

Course Completion after completion of this course

CO1

Provide students with knowledge and skills for data-intensive problem solving and scientific discovery



CO2

Be prepared with a varied range of expertise in different aspects of data science such as data collection, visualization, processing and modeling of large data sets.

CO3

Acquire good understanding of both the theory and application of applied statistics and computer science based existing data science models to analyze huge data sets originating from diversified application areas

CO4

Be better trained professionals to cater the growing demand for data scientists in industry



Assessment Tool			
Course Outcome CO	Internal		University
	Test	Assign	End Semester Examination
CO1	Internal Exam	Assign	End Semester Examination
CO2	Internal Exam	Assign	End Semester Examination
CO3	Internal Exam	Assign	End Semester Examination
CO4	Internal Exam	Assign	End Semester Examination
% target of CO Attainment by Student	40%	40%	40%

Marks Scored by Student

Course Outcome (CO)	% Average of individual Target of all Tools	
	Internal	External/ University
CO1	60	78.9
CO2	58.15	78.9
CO3	58.15	78.6
CO4	62.59	78.6

External Attainment Level

Level 0	< 40	< 40	< 40	< 40
Level 1	40	40	40	40
Level 2	50	50	50	50
Level 3	60	60	60	60
Internal attainment level of	CO1	CO2	CO3	CO4



Total No. of students	18	18	18	18
Total Number of Present Students	18	18	18	18
No. of students achieved	18	18	18	18
Percentage Attainment	100	100	100	100
Attainment Level	3	3	3	3

Overall Attainment

Level 0	<40	<40	<40	<40
Level 1	40	40	40	40
Level 2	50	50	50	50
Level 3	>60	>60	>60	>60
Internal attainment level of CO	CO 1	CO 2	CO 3	CO 4
Internal attainment of CO	3	3	3	3
External attainment of CO	3	3	3	3
Overall attainment of CO	3	3	3	3

AAER's Asian College of Science and Commerce,

CO Attainment Sheet	Department	Class	Strength of the Class
Course Code	Name of the teacher	Internal Exam. Assessme	Year 2022-23
CS - 354	Asst.Prof. Anita Bankar		18



Sr. No.	Name	CO 1		CO 2		CO 3		CO 4	
		15	35	15	35	15	35	15	30
1	BIIAKARE ANIKET SANTOSH	11	27	11	28	7	30	10	28
2	CHAVAN HARSH MAHESH	9	26	8	28	9	25	9	28
3	CHAVAN KAF	11	30	9	30	10	30	7	28
4	GAIKWAD AI	7	25	10	29	8	25	10	26
5	JOSHI RUVAN VIKAS	10	26	8	26	9	29	11	25
6	KUDRE MAHADEVI PANDURAN G	9	25	7	28	7	28	8	28
7	NAGAVKAR BHAVARTH SUDHAKAR	7	30	9	27	8	26	8	29
8	NALAWADE ABHISHEK JEETENDRA	9	25	9	29	11	25	10	30
9	PAWALE AKA	11	29	11	30	7	29	10	28
10	PHAPALE AJI	9	28	8	26	9	28	11	30
11	RABADE RITE	7	30	9	27	8	28	8	26
12	BANE YOGESH YASHWANT	8	28	7	28	10	28	9	27
13	DIIRE RUSHIKESH DADASAHEB	7	28	9	29	9	26	10	25
14	HIWALE DIKSHA SANJAY	9	30	10	25	7	25	11	30
15	KORE VARAD SANJAY	11	29	8	26	10	28	8	26

16	PERNEKAR MANGAL SHANKAR	8	26	9	30	11	26	9	26
17	SALAVE ASHUTOSH JYOTI	9	28	7	25	8	29	10	25
18	SURVASE SWAPNIL MOHAN	10	27	8	26	9	30	10	30
20	Average	9	27.6	8.7	28	8.7	27.5	9.39	27.5
21	Percentage	60	78.9	58	79	58	78.6	62.6	78.6





Estd : 2007

PU/PN/CS/326/2008
College Code - 878
ASAC CODE - 110004

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Criterion 2 – Teaching-Learning and Evaluation

Key Indicator: 2.6: Student Performance and Learning Outcome

Metric No. - 2.6.2: Attainment of POs and COs are evaluated.

CO-PO Attainment of T.Y,BSC(CS)

Department of Computer Science

Academic Year	2022-23
Class	T.Y.BSC(CS)
Semester	Semester I (CBCS Pattern 2019)
Course	Object Oriented Programming using Java - I
Teacher	Asst.Prof. Prakash Patil
Strength of Class	18

Course Completion after completion of this course

CO1	To learn Object Oriented Programming language
CO2	To study various java programming concept like Interface, File and Exception Handling etc.
CO3	To design User Interface using Swing and AWT



CO3	To design User Interface using Swing and AWT
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Assessment Tool

Course Outcome CO	Internal		University
	Test	Assign	End Semester Examination
CO1	Internal Exam	Assign	End Semester Examination
CO2	Internal Exam	Assign	End Semester Examination
CO3	Internal Exam	Assign	End Semester Examination
% target of CO Attainment by Student	40%	40%	40%

Marks Scored by Student

Course Outcome (CO)	% Average of individual Target of all Tools	
	Internal	External/ University
CO1	53.04	65.7
CO2	50.75	65.5
CO3	50.14	66.3

External Attainment Level

Level 0	< 40	< 40	< 40
Level 1	40	40	40
Level 2	50	50	50
Level 3	60	60	60
Internal attainment level of	CO1	CO2	CO3
Total No. of students	18	18	18



Total Number of Present Students	18	18	18
No. of students achieved	18	18	18
Percentage Attainment	100	100	100
Attainment Level	3	3	3

Overall Attainment

Level 0	<40	<40	<40
Level 1	40	40	40
Level 2	50	50	50
Level 3	>60	>60	>60
Internal attainment level of CO	CO 1	CO 2	CO 3
Internal attainment of CO	3	3	3
External attainment of CO	3	3	3
Overall attainment of CO	3	3	3



AAER's Asian College of Science and Commerce.

CO Attainment Sheet	Department	Class	Strength of the Class
Course Code	Name of the teacher	Internal Exam. Assessment	Year 2022-23

CS - 355	Asst.Prof. Prakash Patil	18
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Sr. No.	Name	CO 1		CO 2		CO 3	
		15	35	15	35	15	35
1	BHAKARE ANIKET SANTOSH	10	25	11	29	10	29
2	CHAVAN HARSII MAHESH	11	30	7	27	8	27
3	CHAVAN KAPIL M	8	26	8	26	8	30
4	GAIKWAD ATILAJI	9	26	9	25	10	26
5	JOSHI REVAN VIKAS	10	25	10	26	9	28
6	KUDRE MAHADEVI PANDURANG	11	30	11	27	8	29
7	NAGAVKAR BILAVARTH SUDIYAKAR	9	29	10	26	9	27
8	NALAWADE ABHISHEK JEETENDRA	10	30	9	27	7	28
9	PAWALE AKASH	11	29	9	25	10	31
10	PHAPALE AJINKY	7	27	9	28	8	28
11	RABADE RITESH	8	26	7	29	7	26
12	BANE YOGESH YASHWANT	9	25	10	28	9	25
13	DHIRE RUSHIKESHI DADASAHEB	10	26	8	29	10	29
14	HIWALE DIKSHA SANJAY	11	27	8	27	10	25
15	KORE VARAD SANJAY	7	28	10	30	7	28
16	PERNEKAR MANGAL SHANKAR	8	29	9	26	11	30
17	SALAVE ASHUTOSH JYOTI	9	30	8	28	9	26

	SURVASE						
	SWAPNIL						
18	MOHAN	10	26	7	29	8	27
19	Average	7.96	23	7.609	22.91	7.52	23.2
20	Percentage	53	65.7	50.72	65.47	50.1	66.3
21							





Estab : 2007

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(Non Aided College)

Pu.Pnc/CS/228/2008
College Code : 878
AISEE CONF : C-41890

Criterion 2 – Teaching-Learning and Evaluation
Key Indicator: 2.6: Student Performance and Learning Outcomes
Metric No. - 2.6.2: Attainment of POs and COs are evaluated

CO-PO Attainment of T.Y.BSC(CS) Department of Computer Science

Academic Year	2022-23
Class	T.Y.BSC(CS)
Semester	Semester I (CBCS Pattern 2019)
Course	Python Programming
Teacher	Asst.Prof. Prakash Patil
Strength of Class	18

Course Completion after completion of this course

CO1	To introduce programming concepts using python
CO2	Student should be able to develop Programming logic using python



CO3
To develop basic concepts and terminology of python programming

CO4
To test and execute python programs

Assessment Tool

Course Outcome CO	Internal		University
	Test	Assignment	End Semester Examination
CO1	Internal Exam	Assignment	End Semester Examination
CO2	Internal Exam	Assignment	End Semester Examination
CO3	Internal Exam	Assignment	End Semester Examination
CO4	Internal Exam	Assignment	End Semester Examination
% target of CO Attainment by Student	40%	40%	40%

Marks Scored by Student

Course Outcome (CO)	% Average of individual Target of all Tools	
	Internal	External/University
CO1	52.46	65.71
CO2	52.46	66.08
CO3	50.43	66.46
CO4	49.56	66.46

External Attainment Level

Level 0	< 40	< 40	< 40	< 40
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Level 1	40	40	40	40
Level 2	50	50	50	50
Level 3	60	60	60	60
Internal attainment level of	CO1	CO2	CO3	CO4
Total No. of students	18	18	18	18
Total Number of Present Students	18	18	18	18
No. of students achieved	18	18	18	18
Percentage Attainment	100	100	100	100
Attainment Level	3	3	3	3

Overall Attainment

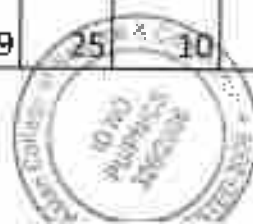
Level 0	<40	<40	<40	<40
Level 1	40	40	40	40
Level 2	50	50	50	50
Level 3	>60	>60	>60	>60
Internal attainment level of CO	CO 1	CO 2	CO 3	CO 4
Internal attainment of CO	3	3	3	3
External attainment of CO	3	3	3	3
Overall attainment of CO	3	3	3	3



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CO Attainment Sheet	Department	Class	Strength of the Class
Course Code	Name of the teacher	Internal Exam. Assessment	Year 2022-23
CS-3510	Asst.Prof. Prakash Patil		18

Sr. No.	Name	CO 1		CO 2		CO 3		CO 4	
		15	35	15	35	15	35	15	35
1	BHAKARE ANIKET SANTOSH	8	25	10	25	8	28	9	29
2	CHAVAN HARSH MAHESHI	9	30	11	26	9	29	10	25
3	CHAVAN KAPIL	10	26	7	27	10	28	10	28
4	GAIKWAD ATUL	11	26	8	28	11	29	7	30
5	JOSHI REVAN VIKAS	8	25	9	29	8	27	11	26
6	KUDRE MAHADEVI PANDURANG	11	30	10	30	8	29	9	27
7	NAGAVKAR BILAVARTH SUDHAKAR	9	29	10	26	9	27	8	25
8	NALAWADE ABHISHEK JEFFTENDRA	10	30	10	27	7	28	8	30
9	PAWALE AKASH	11	29	11	25	10	31	10	29
10	PHAPALE AJIN	7	27	8	28	8	28	8	26
11	RABADE RITESH	8	26	9	29	7	26	9	30
12	BANE YOGESH YASHWANT	9	25	10	28	9	25	7	26



13	DHIRE RUSHIKESH DADASAHEB	10	26	11	29	10	29	8	26
14	HIWALE DIKSHA SANJAY	11	27	8	27	10	25	10	30
15	KORE VARAD SANJAY	7	28	10	30	7	28	9	25
16	PERNEKAR MANGAL SHANKAR	8	29	9	26	11	30	7	29
17	SALAVE ASHUTOSH JYOTI	9	30	8	28	9	26	8	30
18	SURVASE SWAPNIL MOHAN	10	26	7	29	8	27	8	29
19	Average	7.87	23	7.87	23.13	7.57	23.3	7.43	23.3
20	Percentage	52.46	65.7	52.46	66.09	50.4	66.5	49.6	66.5
21									





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(Non Aided College)

PUN/NAAC/126/2008

College Code: 1875

A/SHE CODE: C-41890

Criterion 2 – Teaching-Learning and Evaluation
Key Indicator: 2.6: Student Performance and Learning Outcome
Metric No. - 2.6.2: Attainment of POs and COs are evaluated

CO-PO Attainment of T.Y.BSC(CS) Department of Computer Science

Academic Year	2022-23
Class	T.Y.BSC(CS)
Semester	Semester I (CBCS Pattern 2019)
Course	Theoretical Computer Science
Teacher	Asst.Prof. Anita Bankar
Strength of Class	18

Course Completion after completion of this course

CO1	To understand the Finite Automata, Pushdown Automata and Turing Machine.
------------	---



CO2	To understand the Regular Language, Context Free Language, Context Sensitive Language and Unrestricted Language.
CO3	To understand the relation between Automaton and Language

Assessment Tool

Course Outcome CO	Internal		University
	Test	Assignm	End Semester Examination
CO1	Internal Exam	Assignm	End Semester Examination
CO2	Internal Exam	Assignm	End Semester Examination
CO3	Internal Exam	Assignm	End Semester Examination
% target of CO Attainment by Student	40%	40%	40%

Marks Scored by Student

Course Outcome (CO)	% Average of individual Target of all Tools	
	Internal	Exter nal/Un iversit y
CO1	48.4	66.09
CO2	49.27	65.34
CO3	49.57	65.47



External Attainment Level

Level 0	< 40	< 40	< 40
Level 1	40	40	40
Level 2	50	50	50
Level 3	60	60	60
Internal attainment level of	CO1	CO2	CO3
Total No. of students	18	18	18
Total Number of Present Students	18	18	18
No. of students achieved	18	18	18
Percentage Attainment	100	100	100
Attainment Level	3	3	3

Overall Attainment

Level 0	<40	<40	<40
Level 1	40	40	40
Level 2	50	50	50
Level 3	>60	>60	>60
Internal attainment level of CO	CO 1	CO 2	CO 3
Internal attainment of CO	3	3	3
External attainment of CO	3	3	3
Overall attainment of CO	3	3	3



CO Attainment Sheet	Department	Class	Strength of the Class
Course Code	Name of the teacher	Internal Exam.	Year 2022-23
CS-356	Asst.Prof. Anita Bankar		18

Sr. No.	Name	CO 1		CO 2		CO 3	
		15	35	15	35	15	35
1	BHAKARE ANIKET SANTOSH	11	28	7	26	10	25
2	CHAVAN HARSH MAHESH	7	28	10	30	9	25
3	CHAVAN KAPIL	9	30	9	25	7	29
4	GAIKWAD ATHARVA	7	29	11	26	8	28
5	JOSHI REVAN VIKAS	8	26	7	25	7	30
6	KUDRE MAHADEVI PANDURANG	7	28	8	27	9	29
7	NAGAVKAR BHAVARTH SUDHAKAR	9	27	7	26	11	26
8	NALAWADE ABHISHEK JEETENDRA	11	29	8	30	9	28
9	PAWALE AKAS	8	30	10	25	11	30
10	PHAPALE AJIN	8	26	9	29	8	26
11	RABADE RITESH	9	27	7	25	9	27
12	BANE YOGESHI YASHWANT	7	28	8	29	7	28
13	DHIRE RUSHIKESH DADASAHEB	9	29	7	28	9	29
14	HIWALE DIKSHA SANJAY	10	25	9	30	10	25



15	KORE VARAD SANJAY	8	26	11	29	8	26
16	PERNEKAR MANGAL SHANKAR	9	30	8	26	9	30
17	SALAVE ASHUTOSH JYOTI	7	25	9	28	7	25
18	SURVASE SWAPNIL MOHAN	8	26	10	27	8	26
19	Average	7.261	23.1	7.391	22.87	7.43	22.9
20	Percentage	48.41	66.1	49.28	65.34	49.6	65.5
21							





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PJ-MPC/2006/2008
 College Code - 679
 Affili. Code - C-41839

Criterion 2 – Teaching-Learning and Evaluation
Key Indicator: 2.6: Student Performance and Learning Outcomes
Metric No. - 2.6.2: Attainment of POs and COs are evaluated.

CO-PO Attainment of T.Y.BSC(CS)
Department of Computer Science

Academic Year	2022-23
Class	T.Y.BSC(CS)
Semester	Semester I (CBCS Pattern 2019)
Course	Practical Course based on CS 355
Teacher	Asst.Prof. Prakash Patil
Strength of Class	18

Course Completion after completion of this course

CO1	To design User Interface using Swing and AWT

Assessment Tool

Course Outcome CO	Internal		University
	Test	Assign	End Semester Examination
CO1	Internal Exam	Assign	End Semester Examination
% target of CO Attainment by Student	40%	40%	40%

Marks Scored by Student



Course Outcome (CO)	% Average of individual Target of all Tools	
	Internal	External/ University
CO1	60.74	80

External Attainment Level

Level 0	< 40	< 40
Level 1	40	40
Level 2	50	50
Level 3	60	60
Internal attainment level of	CO1	CO2
Total No. of students	18	18
Total Number of Present Students	18	18
No. of students achieved	18	18
Percentage Attainment	100	100
Attainment Level	3	3

Overall Attainment

Level 0	<40	<40
Level 1	40	40
Level 2	50	50
Level 3	>60	>60
Internal attainment level of CO	CO 1	CO 2



Internal attainment of CO	3	3
External attainment of CO	3	3
Overall attainment of CO	3	3

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CO Attainment Sheet	Department	Class	Strength of the Class
Course Code	Name of the teacher	Internal Exam.	Year 2022-23
CS-359	Asst.Prof, Prakash Patil		18

Sr. No.	Name	CO 1	
		15	35
1	BILAKAR ANIKET SANTOSH	8	28
2	CHAVAN HARSH MAHESH	11	27
3	CHAVAN KAPIL M	10	28
4	GAIKWAD ATHAR	11	29
5	JOSHI REVAN VIKAS	9	30
6	KUDRE MAHADEVI PANDURANG	8	30
7	NAGAVKAR BHAVARTH SUDHAKAR	7	29
8	NALAWADE ABHISHEK JEETENDRA	10	30
9	PAWALE AKASH T	11	29



10	PHAPALE AJINKY	7	27
11	RABADE RITESH A	8	26
12	BANE YOGESH YASHWANT	9	25
13	DHIRE RUSHIKESH DADASAHEB	10	26
14	HIWALE DIKSHA SANJAY	11	27
15	KORE VARAD SANJAY	7	28
16	PERNEKAR MANGAL SHANKAR	8	29
17	SALAVE ASHUTOSH JYOTI	9	30
18	SURVASE SWAPNIL MOHAN	10	26
19	Average	9.11	28
20	Percentage	60.7	80
21			





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(Non Aided College)

PU/PNOS/326/2008
Course Code - 8/8
A.SHE CODE : C-41899

Criterion 2 – Teaching-Learning and Evaluation
Key Indicator: 2.6: Student Performance and Learning Outcome
Metric No. - 2.6.2: Attainment of POs and COs are evaluated

CO-PO Attainment of T.Y.BSC(CS)
Department of Computer Science

Academic Year	2022-23
Class	T.Y.BSC(CS)
Semester	Semester I (CBCS Pattern 2019)
Course	Practical course based on CS 353 and CS 354
Teacher	Asst.Prof. Shrutí Rege and Asst.Prof. Anita Bankar
Strength of Class	18

Course Completion after completion of this course

CO1	To Design dynamic and interactive Web pages.
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CO2	Provide students with knowledge and skills for data-intensive problem solving and scientific discovery
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Assessment Tool

Course Outcome CO	Internal		University
	Test	Assignment	End Semester Examination
CO1	Internal Exam	Assignment	End Semester Examination
CO2	Internal Exam	Assignment	End Semester Examination
% target of CO Attainment by Student	40%	40%	40%

Marks Scored by Student

Course Outcome (CO)	% Average of individual Target of all Tools	
	Internal	External/ University
CO1	57.03	78.57
CO2	57.77	79.84

External Attainment Level

Level 0	< 40	< 40
Level 1	40	40



Level 2	50	50
Level 3	60	60
Internal attainment level of	CO1	CO2
Total No. of students	18	18
Total Number of Present Students	18	18
No. of students achieved	18	18
Percentage Attainment	100	100
Attainment Level	3	3

Overall Attainment

Level 0	<40	<40
Level 1	40	40
Level 2	50	50
Level 3	>60	>60
Internal attainment level of CO	CO 1	CO 2.



Internal attainment of CO	3	3
External attainment of CO	3	3
Overall attainment of CO	3	3

AAER's Asian College of Science and Commerce,

CO Attainment Sheet	Department	Class	Strength of the Class
Course Code	Name of the teacher	Internal Exam. Assessment	Year 2022-23
CS-358	Asst.Prof. Shruti Rege and Asst.Prof. Anita Bankar		18

Sr. No.	Name	CO 1		CO 2	
		15	35	15	35
1	BHAKARE ANIKET SANTOSH	8	28	10	26
2	CHAVAN HARSH MAHESH	9	29	11	25
3	CHAVAN KAP	7	27	7	29
4	GAIKWAD AT	11	27	9	29
5	JOSHI REVAN VIKAS	10	28	10	27



6	KUDRE MAILADEVI PANDURANG	11	29	11	30
7	NAGAVKAR BHAIVARTH SUDHAKAR	8	25	7	30
8	NALAWADE ABHUSHEK JEETENDRA	8	30	7	26
9	PAWALE AKA	7	29	9	29
10	PILPALE AJIT	9	28	8	30
11	RABADE RITTE	7	27	9	29
12	BANE YOGESHI YASHWANTI	7	26	8	30
13	DHIRE RUSHIKESH DADASAHEB	8	25	7	27
14	HIWALE DIKSHA SANJAY	9	30	10	26
15	KORE VARAD SANJAY	9	25	9	26
16	PERNEKAR MANGAL SHANKAR	9	30	8	27
17	SALAVE ASHUTOSH JYOTI	7	26	7	28
18	SURVASE SWAPNIL MOHAN	10	26	9	29
Average		8.555556	27.5	8.667	27.94
Percentage		57.03704	78.6	57.78	79.84





Estd : 2007

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(Non Aided College)

PJHKK28-06-2007
College Code : 578
ASHE CODE : 11-14104

Criterion 2 – Teaching-Learning and Evaluation

Key Indicator: 2.6: Student Performance and Learning Outcome

Metric No. - 2.6.2: Attainment of POs and COs are evaluated.

CO-PO Attainment of T.Y.BSC(CS)

Department of Computer Science

Academic Year	2022-23
Class	T.Y.BSC(CS)
Semester	Semester I (CBCS Pattern 2019)
Course	Practical course based on CS 351
Teacher	Asst.Prof. Kanchan Pavate and Asst.Prof.Latika chame
Strength of Class	18

Course Completion after completion of this course

CO1	To understand the concept of operation system and its principle

Assessment Tool

Course Outcome CO	Internal		University
	Test	Assignment	End Semester Examination



	Test	Assignment	End Semester Examination
CO1	Internal Exam	Assignment	End Semester Examination
CO2	Internal Exam	Assignment	End Semester Examination
% target of CO Attainment by Student	40%	40%	40%

Marks Scored by Student

Course Outcome (CO)	% Average of individual Target of all Tools	
	Internal	External /University
CO1	54.8	80

External Attainment Level

Level 0	< 40
Level 1	40
Level 2	50
Level 3	60
Internal attainment level of	CO1
Total No. of students	18
Total Number of Present Students	18
No. of students achieved	18
Percentage Attainment	100
Attainment Level	3



Overall Attainment

Level 0	<40
---------	-----

Level 1		40
Level 2		50
Level 3	>60	
Internal attainment level of CO	CO 1	
Internal attainment of CO		3
External attainment of CO		3
Overall attainment of CO		3

AAER's Asian College of Science and Commerce,

CO Attainment Sheet	Department	Class	Strength of the Cl
Course Code	Name of the teacher	Internal Exam.	Year 23
CS-357	Asst.Prof. Kanchan Pavate		

Sr. No.	Name	CO 1	
		15	35
1	BHAKARE ANIKET SANTOSII	8	29
2	CHAVAN HARSH MAHESH	9	28
3	CHAVAN KAPIL	7	28
4	GAIKWAD ATHARVA	7	28
5	JOSHI REVAN VIKAS	8	26



6	KUDRE MAHADEVI PANDURANG	9	30
7	NAGAVKAR BHAVARTI SUDHAKAR	10	25
8	NALAWADE ABHISHEK JETTENDRA	10	28
9	PAWALE AKAS	8	29
10	PIAPALE AJINI	7	30
11	RABADE RUTES	9	27
12	BANE YOGESH YASHWANT	7	26
13	DHIRE RUSHIKESH DADASAHEB	7	30
14	HIWALE DIKSHA SANJAY	8	30
15	KORE VARAD SANJAY	10	29
16	PERNEKAR MANGAL SILANKAR	9	26
17	SALAVE ASITUTOSH JYOTI	8	25
18	SURVASE SWAPNIL MOILAN	7	29
	Average	8.22222	27.9
	Percentage	54.8148	79.8





Estd : 2007

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(Non Aided College)

PUN/PC/CS/226/2018

College Code: 1571

AISHE CODE: C-41819

Criterion 2 – Teaching-Learning and Evaluation

Key Indicator: 2.6: Student Performance and Learning Outcomes

Metric No. - 2.6.2: Attainment of POs and COs are evaluated

CO-PO Attainment of T.Y.BSC(CS)

Department of Computer Science

Academic Year	2022-23
Class	T.Y.BSC(CS)
Semester	Semester I (CBCS Pattern 2019)
Course	Blockchain Technology
Teacher	Asst.Prof. Ujjwala Satpute
Strength of Class	18

Course Completion after completion of this course

CO1	Understand what and why of blockchain technology.
CO2	Explore major components of blockchain.
CO3	Learn about Bitcoin, Cryptocurrency and Ethereum



CO4	To learn blockchain programming using Python, Flask Web Framework, and HTTP client Postman.
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Assessment Tool

Course Outcome CO	Internal		University
	Test	Assign	End Semester Examination
CO1	Internal Exam	Assign	End Semester Examination
CO2	Internal Exam	Assign	End Semester Examination
CO3	Internal Exam	Assign	End Semester Examination
CO4	Internal Exam	Assign	End Semester Examination
% target of CO Attainment by Student	40%	40%	40%

Marks Scored by Student

Course Outcome (CO)	% Average of individual Target of all Tools	
	Internal	External/University
CO1	50.43	65.6
CO2	51.59	66.1
CO3	50.14	66
CO4	48.4	66.1



External Attainment Level

Level 0	< 40	< 40	< 40	< 40
Level 1	40	40	40	40
Level 2	50	50	50	50
Level 3	60	60	60	60
Internal attainment level of	CO1	CO2	CO3	CO4
Total No. of students	18	18	18	18
Total Number of Present Students	18	18	18	18
No. of students achieved	18	18	18	18
Percentage Attainment	100	100	100	100
Attainment Level	3	3	3	3

Overall Attainment

Level 0	<40	<40	<40	<40
Level 1	40	40	40	40
Level 2	50	50	50	50
Level 3	>60	>60	>60	>60
Internal attainment level of CO	CO 1	CO 2	CO 3	CO 4
Internal attainment of CO	3	3	3	3
External attainment of CO	3	3	3	3



Overall attainment of CO	3	3	3	3
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CO Attainment Sheet	Department	Class	Strength of the Class
Course Code	Name of the teacher	Internal Exam. Assessment	Year 2022-23
CS-3611	Asst.Prof. Ujjwala Satpute		18

Sr. No.	Name	CO 1		CO 2		CO 3		CO 4	
		15	35	15	35	15	35	15	35
1	BHAKARE ANIKET SANTOSH	9	26	7	30	9	26	11	28
2	CHAVAN HARSH MAHESH	7	30	11	25	10	30	7	28
3	CHAVAN KAPOOR	8	26	10	29	8	25	9	30
4	GAIKWAD ATHARVA	10	26	8	26	7	26	7	29
5	JOSHI REVAN VIKAS	9	30	7	30	10	25	8	26
6	KUDRE MAHADEVI PANDURANG	7	25	9	28	9	26	7	28
7	NAGAVKAR BILAVARTH SUDHAKAR	8	29	11	26	9	30	9	27
8	NALAWADE ABHISHEK JEETENDRA	10	30	11	29	11	25	11	29
9	PAWALE AKASH	9	29	9	27	7	29	8	30
10	PHAPALE AJINKYAR	7	26	10	26	9	28	8	26
11	RABADE RITESH	11	25	8	30	7	30	9	27
12	BANE YOGESH YASHWANT	10	26	7	25	8	28	7	28



13	DHIRE RUSHIKESH DADASAHEB	8	25	10	26	7	28	9	29
14	HIWALE DIKSHA SANJAY	7	30	9	25	9	30	10	25
15	KORE VARAD SANJAY	9	30	11	30	11	29	8	26
16	PERNEKAR MANGAL SHANKAR	11	25	7	29	8	26	9	30
17	SALAVE ASHUTOSH JYOTI	9	29	8	26	9	28	7	25
18	SURVASE SWAPNIL MOILAN	10	26	10	30	10	27	8	26
19	Average	7.57	23	7.739	23.13	7.52	23.1	7.26	23.1
20	Percentage	50.4	65.6	51.59	66.09	50.1	66	48.4	66.1
21									





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(Non Aided College)

PUN/CB/326/2008
College Code : 076
Affiliat CODE : C-41890

Criterion 2 – Teaching-Learning and Evaluation
Key Indicator: 2.6: Student Performance and Learning Outcomes
Metric No. - 2.6.2: Attainment of POs and COs are evaluated

CO-PO Attainment of T.Y.BSC(CS) Department of Computer Science

Academic Year	2022-23
Class	T.Y.BSC(CS)
Semester	Semester II (CBCS Pattern 2019)
Course	Practical course based on CS 361
Teacher	Asst.Prof.Kanchan Pawate
Strength of Class	18

Course Completion after completion of this course

CO1	To understand the issue of Deadlocks in Process management.
CO2	To understand the concept of File system management & disk scheduling



Assessment Tool

Assessment Tool

Course Outcome CO	Internal		University
	Test	Assig	End Semester Examination
CO1	Internal Exam	Assig	End Semester Examination
CO2	Internal Exam	Assig	End Semester Examination
% target of CO Attainment by Student	40%	40%	40%

Marks Scored by Student

Course Outcome (CO)	% Average of individual Target of all Tools	
	Internal	External/ University
CO1	57.03	78.6
CO2	60.74	78.4

External Attainment Level

Level 0	< 40	< 40
Level 1	40	40
Level 2	50	50
Level 3	60	60
Internal attainment level of	CO1	CO2
Total No. of students	18	18



Total Number of Present Students	18	18
No. of students achieved	18	18
Percentage Attainment	100	100
Attainment Level	3	3

Overall Attainment

Level 0	<40	<40
Level 1	40	40
Level 2	50	50
Level 3	>60	>60
Internal attainment level of CO	CO 1	CO 2
Internal attainment of CO	3	3
External attainment of CO	3	3
Overall attainment of CO	3	3

AAER's Asian College of Science and Commerce,

CO Attainment Sheet	Department	Class	Strength of the Class
Course Code	Name of the teacher	Internal Exam. Assessment	Year 2022-23



Sr. No.	Name	CO 1		CO 2	
		15	35	15	35
1	BIIAKARE ANIKET SANTOSH CHAVAN	8	25	10	26
2	HARSH MAHESH	7	29	9	25
3	CHAVAN KAPIL	9	25	7	30
4	GAIKWAD ATHA	11	28	11	30
5	JOSHI REVAN VIKAS	10	30	10	25
6	KUDRE MAHADEVI PANDURANG	7	26	8	29
7	NAGAVKAR BHAVARJH SUDHAKAR	9	27	7	30
8	NALAWADE ABHISHEK JEE TENDRA	8	25	9	29
9	PAWALE AKASH	10	29	11	27
10	PILAPALE AJINK	8	26	9	26
11	RABADE RITESH	9	30	11	30
12	BANE YOGESHI YASHIWANT	7	26	7	25
13	DHIRE RUSHIKESH DADASAHEB	8	26	10	26
14	HTWALE DIKSHA SANJAY	11	30	9	25
15	KORE VARAD SANJAY	9	25	11	30
16	PERNEKAR MANGAL SHANKAR	7	29	7	25
17	SALAVE ASHUTOSHI JYOTI	8	30	8	26



	SURVASH SWAPNIL				
18	MOHAN	8	29	10	30
19	Average	8.56	27.5	9.111	27.44
20	Percentage	57	78.6	60.74	78.41
21					





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Pu/AAC/2022-23
College Code: 378
Asian Group: 001199

Criterion 2 – Teaching-Learning and Evaluation

by Indicator: 2.6: Student Performance and Learning Outcome

Metric No. - 2.6.2: Attainment of POs and COs are evaluated

CO-PO Attainment of T.Y.BSC(CS)

Department of Computer Science

Academic Year	2022-23
Class	T.Y.BSC(CS)
Semester	Semester II (CBCS Pattern 2019)
Course	Operating Systems – II
Teacher	Asst.Prof.Kanchan Pawate
Strength of Class	18

Course Completion after completion of this course

CO1	To understand the issue of Deadlocks in Process management.
CO2	To understand the concept of File system management & disk scheduling



CO3

To study the concept of distributed and mobile operating systems

Assessment Tool

Course Outcome CO	Internal		University
	Test	Assignment	End Semester Examination
CO1	Internal Exam	Assignment	End Semester Examination
CO2	Internal Exam	Assignment	End Semester Examination
CO3	Internal Exam	Assignment	End Semester Examination
% target of CO Attainment by Student	40%	40%	40%

Marks Scored by Student

Course Outcome (CO)	% Average of individual Target of all Tools	
	Internal	External/University
CO1	56.29	78.57
CO2	58.51	78.25
CO3	60.74	78.41

External Attainment Level

Level 0	< 40	< 40	< 40
Level 1	40	40	40
Level 2	50	50	50
Level 3	60	60	60



Internal attainment level of	CO1	CO2	CO3
Total No. of students	18	18	18
Total Number of Present Students	18	18	18
No. of students achieved	18	18	18
Percentage Attainment	100	100	100
Attainment Level	3	3	3

Overall Attainment

Level 0	<40	<40	<40
Level 1	40	40	40
Level 2	50	50	50
Level 3	>60	>60	>60
Internal attainment level of CO	CO 1	CO 2	CO 3
Internal attainment of CO	3	3	3
External attainment of CO	3	3	3



Overall attainment of CO	3	3	3
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AAER's Asian College of Science and Commerce,

CO Attainment Sheet	Department	Class	Strength of the Class
Course Code	Name of the teacher	Internal Exam. Assessment	Year 2022-23
CS-361	Asst.Prof.Kanchan Pawate		18

Sr. No.	Name	CO 1		CO 2		CO 3	
		15	35	15	35	15	35
1	BILAKAR ANIKET SANTOSH	8	25	8	26	10	26
2	CHAVAN HARSH MAHESH	7	29	9	30	9	25
3	CHAVAN KAPIL	9	25	7	26	7	30
4	GAIKWAD ATHARVA	10	28	8	26	11	30
5	JOSHI REVAN VIKAS	10	30	10	30	10	25
6	KUDRE MAHADEVI PANDURANG	7	26	7	25	8	29
7	NAGAVKAR BHAVARITH SUDHAKAR	9	27	8	29	7	30
8	NALAWADE ABHISHEK JEETENDRA	8	25	10	30	9	29
9	PAWALE AKASH	10	29	9	29	11	27
10	PHAPALE AJINKY	8	26	7	26	9	26
11	RABADE RITESH	9	30	11	25	11	30
12	BANE YOGESH YASHWANTI	7	26	10	26	7	25

13	DIIRF RUSLIKESH DADASAHEB	8	26	8	25	10	26
14	HIWALE DIKSHA SANJAY	10	30	7	30	9	25
15	KORP. VARAD SANJAY	9	25	9	30	11	30
16	PERNEKAR MANGAL SHANKAR	7	29	11	25	7	25
17	SALAVE ASHUTOSH JYOTI	8	30	9	29	8	26
18	SURVASE SWAPNIL MOHAN	8	29	10	26	10	30
19	Average	8.4444	27.5	8.778	27.39	9.11	27.4
20	Percentage	56.296	78.6	58.52	78.25	60.7	78.4
21							





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U.P.N./CG/526/2009

College Code - 178

AISHF CODE - C-41999

Criterion 2 – Teaching-Learning and Evaluation

Key Indicator: 2.6: Student Performance and Learning Outcomes

Metric No. - 2.6.2: Attainment of POs and COs are evaluated.

CO-PO Attainment of T.Y.BSC(CS)

Department of Computer Science

Academic Year	2022-23
Class	T.Y.BSC(CS)
Semester	Semester 1 (CBCS Pattern 2019)
Course	Web Technologies - II
Teacher	Asst.Prof.Shruti Rege
Strength of Class	18

Course Completion after completion of this course

CO1	To provide the knowledge of software testing techniques
CO2	To understand how testing methods can be used as an effective tools in quality assurance of software.





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(Non Aided College)

PUPK/03/020/000

College Code: 5/18

AISHF CODE: C-41889

Criterion 2 – Teaching-Learning and Evaluation

Key Indicator: 2.6: Student Performance and Learning Outcomes

Metric No. - 2.6.2: Attainment of POs and COs are evaluated.

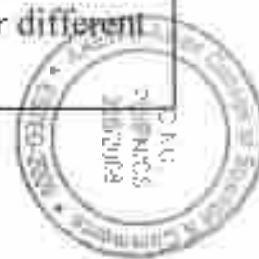
CO-PO Attainment of B.Sc.

Department of Science

Academic Year	2022-23
Class	F. Y. B.Sc.
Semester	Semester I (CBCS Pattern 2019)
Course	Physical Chemistry
Teacher	Sadhana Salekar
Strength of Class	12

Course Completion after completion of this course

CO1	Students will be able to apply thermodynamic principles to physical and chemical process Calculations of enthalpy , Bond energy, Bond dissociation energy , resonance energy Variation of enthalpy with temperature –Kirchoff's equation Third law of thermodynamic and its applications
CO2	Knowledge of Chemical equilibrium will make students to understand Relation between Free energy and equilibrium and factors affecting on equilibrium constant. Exergonic and endergonic reaction Gas equilibrium, equilibrium constant and molecular interpretation of equilibrium constant Van't Hoff equation and its application
CO3	Ionic equilibria chapter will lead students to understand Concept to ionization process occurred in acids, bases and pH scale Related concepts such as Common ion effect hydrolysis constant, ionic product, solubility product Degree of hydrolysis and pH for different salts , buffer solutions



Assessment Tool

Course Outcome	Internal		University
	Test	Assignment	End Semester Examination
CO1	Internal Exam	Assignment	End Semester Examination
CO2	Internal Exam	Assignment	End Semester Examination
CO3	Internal Exam	Assignment	End Semester Examination
% target of CO Attainment by Student		40%	40%

Marks Scored by Student

Course Outcome	% Average of individual Target of all Tools	
	Internal	External/University
CO1	77	85
CO2	77	86
CO3	76	85

External Attainment Level

Level 0	< 40	< 40	< 40
Level 1	40	40	40
Level 2	50	50	50
Level 3	60	60	60
Internal attainment level of	CO1	CO2	CO3
Total No. of students	12	12	12
Total Number of Present Students	12	12	12
No. of students achieved	12	12	12
Percentage Attainment	100	100	100
Attainment Level	3	3	3

Overall Attainment

Level 0	<40	<40	<40
Level 1	40	40	40



Level 2	50	50	50
Level 3	>60	>60	>60
Internal attainment level of CO	CO 1	CO 2	CO 3
Internal attainment of CO	3	3	3
External attainment of CO	3	3	3
Overall attainment of CO	3	3	3

AAER's Asian College of Science and Commerce,

CO Attainment Sheet	Department	Class	Strength of the Class
Course Code	Name of the teacher	Internal Exam.	Year
CII-101	Sadhana Salekar		2022-23

Sr. No.	Name	CO 1		CO 2		CO 3	
		15	35	15	35	15	35
1	Anjali Sanjay Patil	11	29	12	32	10	31
2	Akshada Pramod Vanshiv	10	28	13	29	11	29
3	Ruksar Shaikh	12	32	11	31	13	32
4	Shraddha Rawal	11	28	10	29	12	28
5	Shrutika Bomle	11	29	12	32	10	27
6	Sakshi Tanaji Nalawade	13	30	13	27	13	31
7	Sahil Dengale	14	32	10	29	10	30
8	Pranav Sadamate	13	31	11	31	11	32
9	Nisha Suryawanshi	10	28	10	28	11	29
10	Vaishnavi More	12	30	12	33	12	27
11	Gaurav Sonar	10	31	13	32	10	31
12	Ajinkya Zunjar	12	29	11	30	13	28



	Average	11.5833	29.75	11.5	30.3	11.3	29.6
	Percentage	77.2222	85	76.6667	86.4	75.6	84.5



Co-Ordinator

Internal Quality Assurance Cell
AAER'S Asian College of Science & Commerce




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AAER'S Asian College of
Science & Commerce
Dhayari, Pune-411 041



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ASIAN COLLEGE OF SCIENCE & COMMERCE

(Affiliated to Savitribai Phule Pune University & Approved by Govt. of Maharashtra)

ACCREDITED BY NAAC WITH "B+" GRADE and Recognised Under UGC 2(F)

Sr. No. 28/15/16, Narhe Dhayri Road, PARI Company Chowk, Dhayari, Pune - 411041.

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Leid : 2007

(Non Aided College)

Criterion 2 – Teaching-Learning and Evaluation

Key Indicator: 2.6: Student Performance and Learning Outcome

Metric No. - 2.6.2: Attainment of POs and COs are evaluated.

CO-PO Attainment of B.Sc.

Department of Science

Academic Year	2022-23
Class	F. Y. B.Sc.
Semester	Semester I (CBCS Pattern 2019)
Course	Organic Chemistry
Teacher	Kajal Gaudhab
Strength of Class	12

Course Completion after completion of this course

CO1	The students are expected to understand the fundamentals, principles, and recent developments in the subject area.
CO2	It is expected to inspire and boost interest of the students towards chemistry as their main subject.
CO3	To familiarize with current and recent developments in Chemistry.
CO4	To create foundation for research and development in Chemistry.

Assessment Tool

Course Outcome	Internal		University
	Test	Assignment	End Semester
CO1	Internal Exam	Assignment	End Semester Examination
CO2	Internal Exam	Assignment	End Semester Examination
CO3	Internal Exam	Assignment	End Semester Examination
CO4	Internal Exam	Assignment	End Semester Examination
% target of CO		40%	40%



Marks Scored by Student

Course Outcome	% Average of individual Target of all Tools	
	Internal	External/University
CO1	79	86
CO2	80	73
CO3	79	85
CO4	77	85

External Attainment Level

Level 0	< 40	< 40	< 40	< 40
Level 1	40	40	40	40
Level 2	50	50	50	50
Level 3	60	60	60	60
Internal attainment level of	CO1	CO2	CO3	CO4
Total No. of students	12	12	12	12
Total Number of Present Students	12	12	12	12
No. of students achieved	12	12	12	12
Percentage Attainment	100	100	100	100
Attainment Level	3	3	3	3

Overall Attainment

Level 0	<40	<40	<40	<40
Level 1	40	40	40	40
Level 2	50	50	50	50
Level 3	>60	>60	>60	>60
Internal attainment level of CO	CO 1	CO 2	CO 3	CO 4
Internal attainment of CO	3	3	3	3
External attainment of CO	3	3	3	3



Overall attainment of CO	3	3	3	3
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AAER's Asian College of Science and Commerce,

CO Attainment Sheet	Department	Class	Strength of the Class
Course Code	Name of the teacher	Internal	Year
CH-102	Kajal Gaudhab		2022-23

Sr. No.	Name	CO 1		CO 2		CO 3		CO 4	
		15	35	15	35	15	35	15	35
1	Anjali Sanjay Patil	10	29	13	23	14	29	11	29
2	Akshada Pramod Vanshiv	13	30	10	22	12	30	13	27
3	Ruksar Shaikh	11	32	13	27	10	28	12	31
4	Shraddha Rawal	12	28	11	30	13	27	11	32
5	Shrutika Bomle	12	31	14	25	12	31	10	32
6	Sakshi Taraji Nalawade	13	28	13	22	12	33	13	28
7	Sahil Dengale	10	30	10	22	11	29	12	30
8	Pranav Sadamate	14	32	12	30	12	27	13	31
9	Nisha Suryawanshi	11	29	14	27	11	31	11	28
10	Vaishnavi More	12	29	13	26	13	32	12	32
11	Gaurav Sonar	13	31	10	27	13	29	10	27
12	Ajinkya Zunjar	12	32	11	25	10	31	11	30
	Average	11.9167	30.08	12	25.5	11.9	30	11.6	29.8
	Percentage	79.4444	85.95	80	72.86	79.4	85	77.2	85


 Co-ordinator
 Internal Assessment Cell
 AAER'S Asian College of Science & Commerce




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 AAER'S Asian College of
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 Dhule, Dist. Dhule-431001



Estd : 2007

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(Non Aided College)

PJPHK0150702000
College Code - 879
AISHF CODE - C-11606

Criterion 2 – Teaching-Learning and Evaluation

Key Indicator: 2.6: Student Performance and Learning Outcomes

Metric No. - 2.6.2: Attainment of POs and COs are evaluated.

CO-PO Attainment of B.Sc.

Department of Science

Academic Year	2022-23
Class	S. Y. B.Sc.
Semester	Semester III (CBCS Pattern 2019)
Course	Physical and Analytical Chemistry
Teacher	Sadhana Salekar
Strength of Class	18

Course Completion after completion of this course

CO1	After studying the Chemical Kinetics student will able to 1. Explain concept of kinetics, terms used, rate laws, molecularity, order. Explain factors affecting rate of reaction. Explain / discuss / derive integrated rate laws, characteristics, expression for half-life and examples of zero order, first order, and second order reactions. Determination of order of reaction by integrated rate equation method, graphical method, half-life method and differential method. Derivations of collision theory and transition state theory of bimolecular reaction and comparison. Solve / discuss the problem based applying theory and equations.
CO2	Define / explain adsorption, classification of given processes into physical and chemical adsorption. Discuss factors influencing adsorption, its characteristics, differentiates types as physisorption and Chemisorption. Classification of Adsorption Isotherms, to derive isotherms. Explanation of adsorption results in the light of Langmuir adsorption isotherm, Freundlich's adsorption Isotherm and BET theory. Apply adsorption process to real life problem.
CO3	Define, explain and compare meaning of accuracy and precision. Apply the methods of expressing the errors in analysis from results. Explain / discuss different terms related to errors in quantitative analysis. Apply statistical methods to express his / her analytical results in laboratory. Solve problems applying equations.



CO4	After studying the Volumetric Analysis student will able to: Explain / define different terms in volumetric analysis such as units of concentration, indicator, equivalence point, end point, standard solutions, primary and secondary standards, complexing agent, precipitating agent, oxidizing agent, reducing agent, redox indicators, acid base indicators, metallochrome indicators, etc. Perform calculations involved in volumetric analysis. Explain why indicator show colour change and pH range of colour change. Explain / discuss acid-base titrations, complexometric titration / precipitation titration / redox titration. Apply volumetric methods of analysis to real problem in analytical chemistry / industry.
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Assessment Tool

Course Outcome	Internal		University
	Test	Assignment	End Semester
CO1	Internal Exam	Assignment	End Semester
CO2	Internal Exam	Assignment	End Semester
CO3	Internal Exam	Assignment	End Semester Examination
CO4	Internal Exam	Assignment	End Semester Examination
% target of CO	40%	40%	40%

Marks Scored by Student

Course Outcome (CO)	% Average of individual Target of all Tools	
	Internal	External/University
CO1	80	85
CO2	78	85
CO3	78	87
CO4	79	85

External Attainment Level

Level 0	0	< 40	< 40	< 40
Level 1	40	40	40	40
Level 2	50	50	50	50
Level 3	60	60	60	60
Internal attainment level of	CO1	CO2	CO3	CO4



Total No. of students	18	18	18	18
Total Number of Present Students	18	18	18	18
No. of students achieved	18	18	18	18
Percentage Attainment	100	100	100	100
Attainment Level	3	3	3	3

Overall Attainment

Level 0	0	<40	<40	<40
Level 1	40	40	40	40
Level 2	50	50	50	50
Level 3	>60	>60	>60	>60
Internal attainment level of CO	CO 1	CO 2	CO 3	CO 4
Internal attainment of CO	3	3	3	3
External attainment of CO	3	3	3	3
Overall attainment of CO	3	3	3	3

AAER's Asian College of Science and Commerce,

CO Attainment Sheet	Department	Class	Strength of the Class
Course Code	Name of the teacher	Internal	Year
CH-301	Sadhana Salekar		2022-23

Sr. No.	Name	CO 1		CO 2		CO 3		CO 4	
		15	35	15	35	15	35	15	35
1	Kunal Bandal	14	32	12	31	12	30	14	32
2	Shruti Khandagale	12	32	12	29	10	31	10	31



3	Kunal Jogale	10	30	12	28	14	32	12	28
4	Omkar Kudale	12	29	10	32	13	27	10	30
5	Saurabh Ingale	13	27	12	27	12	30	11	29
6	Bhaghyeshri pande	12	29	14	31	11	29	11	28
7	Konangiri Ashwini	11	30	10	32	12	28	12	29
8	Raju Rathod	10	32	12	31	10	32	13	27
9	Nitin Patil	13	27	10	30	11	27	13	30
10	Ghanshyam Salunkhe	11	30	13	29	13	32	13	28
11	Aarti Birmane	12	29	10	31	10	28	11	32
12	Abhay Lohokare	12	28	13	28	12	30	12	31
13	Rohan Phule	13	29	14	27	11	29	12	32
14	Pratap Surwase	14	27	11	29	14	34	10	29
15	Anisha Nevase	10	31	10	30	13	31	11	30
16	Anand Takawale	11	29	12	31	12	33	14	28
17	Sankalp Mane	12	32	13	29	10	34	13	32
18	Tejas Dongale	13	33	11	32	11	29	12	27
	Average	11.9	29.8	11.72	29.83	11.7	30.3	11.9	29.6
	Percentage	79.6	85.1	78.15	85.24	78.1	86.7	79.3	84.6

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Criterion 2 – Teaching-Learning and Evaluation

Key Indicator: 2.6: Student Performance and Learning Outcomes

Metric No. - 2.6.2: Attainment of POs and COs are evaluated.

CO-PO Attainment of B.Sc.

Department of Science

Academic Year	2022-23
Class	S. Y. B.Sc.
Semester	Semester III (CBCS Pattern 2019)
Course	Inorganic and Organic Chemistry
Teacher	Kajal Gaudhab
Strength of Class	18

Course Completion after completion of this course

CO1	After studying the Molecular Orbital Theory student will able to Define terms related to molecular orbital theory (AO, MO, sigma bond, pi bond, bond order, magnetic property of molecules, etc). Explain and apply LCAO principle for the formation of MO's from AO's. Explain formation of different types of MO's from AO's. Distinguish between atomic and molecular orbitals, bonding, anti-bonding and nonbonding molecular orbitals.
CO2	After studying the Introduction to Coordination Compounds student will able to 1. Define different terms related to the coordination chemistry (double salt, coordination compounds, coordinate bond, ligand, central metal ion, complex ion, coordination number, magnetic moment, crystal field stabilization energy, types of ligand, chelate effect, etc.) Explain Werner's theory of coordination compounds. Differentiate between primary, secondary valency.
CO3	After studying the aromatic hydrocarbons student will able to Identify and draw the structures aromatic hydrocarbons from their names or from structure name can be assigned. Explain / discuss synthesis of aromatic hydrocarbons. Give the mechanism of reactions involved.



CO4	After studying the Alkyl and Aryl Halides student will able to 1. Identify and draw the structures alkyl / aryl halides from their names or from structure name can be assigned. Explain / discuss synthesis of alkyl / aryl halides. Write / discuss the mechanism of Nucleophilic Substitution (SN1, SN2, SNi) reactions.
CO5	Identify and draw the structures alcohols / phenols from their names or from structure name can be assigned. Able to differentiate between alcohols and phenols Explain / discuss synthesis of alcohols / phenols. Write / discuss the mechanism of various reactions involved.

Assessment Tool

Course Outcome CO	Internal		University
	Test	Assignment	End Semester Examination
CO1	Internal Exam	Assignment	End Semester Examination
CO2	Internal Exam	Assignment	End Semester Examination
CO3	Internal Exam	Assignment	End Semester Examination
CO4	Internal Exam	Assignment	End Semester Examination
% target of CO Attainment by Student	40%	40%	40%

Marks Scored by Student

Course Outcome (CO)	% Average of individual Target of all Tools	
	Internal	External/University
CO1	80	86
CO2	81	85
CO3	78	86
CO4	82	87
CO5	79	85



External Attainment Level

Level 0	< 40	< 40	< 40	< 40	< 40
Level 1	40	40	40	40	40
Level 2	50	50	50	50	50
Level 3	60	60	60	60	60
Internal attainment level of	CO1	CO2	CO3	CO4	CO5
Total No. of students	18	18	18	18	18
Total Number of Present Students	18	18	18	18	18
No. of students achieved	18	18	18	18	18
Percentage Attainment	100	100	100	100	100
Attainment Level	3	3	3	3	3

Overall Attainment

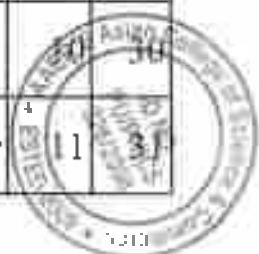
Level 0	<40	<40	<40	<40	<40
Level 1	40	40	40	40	40
Level 2	50	50	50	50	50
Level 3	>60	>60	>60	>60	>60
Internal attainment level of CO	CO 1	CO 2	CO 3	CO 4	CO 5
Internal attainment of CO	3	3	3	3	3
External attainment of CO	3	3	3	3	3
Overall attainment of CO	3	3	3	3	3



AAER's Asian College of Science and Commerce,

CO Attainment Sheet	Department	Class	Strength of the Class
Course Code	Name of the teacher	Internal Exam.	Year
CH-302	Kajal Crauddhab		2022-23

Sr. No.	Name	CO 1		CO 2		CO 3		CO 4		CO 5	
		15	35	15	35	15	35	15	35	15	35
1	Kunal Bandal	11	28	10	29	14	27	12	32	12	28
2	Shruti Khandagale	13	31	13	30	12	32	18	31	12	28
3	Kunal Jogale	14	28	11	32	10	28	14	31	13	29
4	Omkar Kudale	12	32	12	28	13	28	10	32	10	31
5	Saurabh Ingale	11	31	12	31	12	29	12	29	14	27
6	Bhaghyeshri pande	14	30	13	28	10	31	10	32	11	30
7	Konangiri Ashwini	10	27	10	30	11	27	13	29	11	30
8	Raju Rathod	12	31	14	32	12	30	11	30	12	30
9	Nitin Patil	10	28	11	29	11	30	12	30	11	27
10	Ghanshyam Salunkhe	13	30	12	29	10	31	14	31	10	32
11	Aarti Birmane	11	32	13	31	13	32	10	32	13	29
12	Abhay Lohokare	12	31	12	32	11	28	11	28	11	32
13	Rohan Phule	14	31	14	28	12	32	12	28	12	29
14	Pratap Surwase	10	32	12	30	14	32	13	30	14	30
15	Anisha Nevase	11	28	11	29	10	30	12	32	11	30
16	Anand Takawale	12	27	12	32	11	31	14	29	11	31



17	Sankalp Mane	13	29	13	31	11	32	11	32	14	32
18	Tejas Dongale	12	33	13	27	13	29	12	27	13	28
	Average	11.9	29.94	12.1	29.9	11.67	30	12	30	12	30
	Percentage	79.6	85.56	80.7	85.4	77.78	86	82	87	79	85

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Internal Quality Assurance Cell
AAER'S Asian College of Science & Commerce



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(Non Aided College)

Phone: 020-24606620
College Code: AAER
Website: www.asiancollegepune.ac.in

Criterion 2 – Teaching-Learning and Evaluation

Key Indicator: 2.6: Student Performance and Learning Outcomes

Metric No. - 2.6.2: Attainment of POs and COs are evaluated.

CO-PO Attainment of B.Sc.

Department of Science

Academic Year	2022-23
Class	S. Y. B.Sc.
Semester	Semester IV (CBCS Pattern 2019)
Course	Physical and Analytical Chemistry
Teacher	Sadhana Salekar
Strength of Class	18

Course Completion after completion of this course

CO1	Define the terms in phase equilibria such as- system, phase in system, components in system, degree of freedom, one / two component system, phase rule, etc. Explain meaning and types of equilibrium such as true or static, metastable and unstable equilibrium. Discuss meaning of phase, component and degree of freedom. Derive of phase rule.
CO2	Define various terms, laws, differentiate ideal and no-ideal solutions. Discuss / explain thermodynamic aspects of Ideal solutions-Gibbs free energy change, Volume change, Enthalpy change and entropy change of mixing of Ideal solution. Differentiate between ideal and non-ideal solutions and can apply Raoult's law. Interpretation of i) vapour pressure-composition diagram ii) temperature- composition diagram.



CO3	Explain / define different terms in conductometry such as electrolytic conductance, resistance, conductance, Ohm's law, cell constant, specific and equivalent conductance, molar conductance, Kohlrausch's law, etc. Discuss Kohlrausch's law and its Applications, Conductivity Cell, Conductivity Meter, Wheatstone Bridge. Explain / discuss conductometric titrations. Apply conductometric methods of analysis to real problem in analytical laboratory. Solve problems based on theory / equations. Correlate different terms with each other and derive equations for their correlations.
CO4	Explain / define different terms in Colorimetry such as radiant power, transmittance, absorbance, molar, Lambert's Law, Beer's Law, molar absorptivity. Discuss / explain / derive Beer's law of absorptivity. Explain construction and working of colorimeter. Apply colorimetric methods of analysis to real problem in analytical laboratory. Solve problems based on theory / equations.
CO5	Explain / define different terms in column chromatography such as stationary phase, mobile phase, elution, adsorption, ion exchange resin, adsorbate, etc. Explain properties of adsorbents, ion exchange resins, etc. Discuss / explain separation of ionic substances using resins.

Assessment Tool

Course Outcome	Internal		University
	Test	Assignme nt	End Semester Examination
CO1	Internal Exam	Assignme nt	End Semester Examination
CO2	Internal Exam	Assignme nt	End Semester Examination
CO3	Internal Exam	Assignme nt	End Semester Examination
CO4	Internal Exam	Assignme nt	End Semester Examination
CO5	Internal Exam	Assignme nt	End Semester Examination
% target of CO Attainment by Student	40%	40%	40%

Marks Scored by Student

Course Outcome (CO)	% Average of individual Target of all Tools



	Internal	External/Unive rsity
CO1	78	87
CO2	77	85
CO3	77	80
CO4	77	85
CO5	77	84

External Attainment Level

Level 0	< 40	< 40	< 40	< 40	< 40
Level 1	40	40	40	40	40
Level 2	50	50	50	50	50
Level 3	60	60	60	60	60
Internal attainment level of	CO1	CO2	CO3	CO 4	CO5
Total No. of students	18	18	18	18	18
Total Number of Present Students	18	18	18	18	18
No. of students achieved	18	18	18	18	18
Percentage Attainment	100	100	100	100	100
Attainment Level	3	3	3	3	3

Overall Attainment

Level 0	<40	<40	<40	<40	<40
Level 1	40	40	40	40	40
Level 2	50	50	50	50	50
Level 3	>60	>60	>60	>60	>60
Internal attainment level of CO	CO 1	CO 2	CO 3	CO 4	CO 5
Internal attainment of CO	3	3	3	3	3
External attainment of CO	3	3	3	3	3



Overall attainment of CO	3	3	3	3	3
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AAER's Asian College of Science and Commerce,

CO Attainment Sheet	Department	Class:	Strength of the Class
Course Code	Name of the teacher	Internal Exam.	Year
CH-401	Sadhana Salekar		2022-23

Sr. No.	Name	CO 1		CO 2		CO 3		CO 4		CO 5	
		15	35	15	35	15	35	15	35	15	35
1	Kunal Bandal	13	29	12	31	11	30	10	30	14	30
2	Shruti Khandagale	12	27	11	28	13	23	12	30	10	28
3	Kunal Jogale	11	29	12	32	12	22	14	28	12	32
4	Omkar Kudale	10	30	10	29	11	27	13	32	10	31
5	Saurabh Ingale	13	30	11	30	13	30	10	31	13	22
6	Bhaghyeshri pande	11	28	13	29	12	25	12	28	10	30
7	Konangiri Ashwini	10	32	10	31	11	22	13	31	13	27
8	Raju Rathod	12	31	12	30	10	22	11	30	12	29
9	Nitin Patil	10	32	11	28	13	30	12	29	11	30
10	Ghanshyam Salunkhe	13	29	12	31	12	27	10	30	10	30
11	Aarti Birmane	10	30	14	30	13	29	11	32	12	28
12	Abhay Lohokare	13	28	10	29	11	30	12	29	13	32
13	Rohan Phule	12	34	12	28	12	30	10	27	11	32
14	Pratap Surwase	11	31	11	32	10	28	11	31	12	29
15	Anisha Nevase	14	33	13	27	11	32	10	28	10	



16	Anand Takawale	13	34	10	32	12	33	13	28	11	31
17	Sankalp Mane	12	29	13	28	10	34	13	32	13	32
18	Tejas Dongale	10	33	11	30	11	29	12	27	12	27
	Average	11.7	30.5	11.6	29.7	12	28	12	30	11.6	29.3
	Percentage	77.8	87.1	77	84.9	77	80	77	85	77.4	83.7


 Co-Ordinator
 Internal Quality Assurance Cell
 AAER'S Asian College of Science & Commerce




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 AAER'S Asian College of
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 Dhayari, Pune-411 041



Criterion 2 – Teaching-Learning and Evaluation

Key Indicator: 2.6: Student Performance and Learning Outcomes

Metric No. - 2.6.2: Attainment of POs and COs are evaluated.

CO-PO Attainment of B.Sc.

Department of Science

Academic	2022-23
Class	S. Y. B.Sc.
Semester	Semester IV (CBCS Pattern 2019)
Course	Inorganic and Organic Chemistry
Teacher	Kajal Gaudhab
Strength of	18

Course Completion after completion of this course

CO1	Isomerism in coordination complexes. Explain different types of isomerism in coordination complexes.
CO2	Apply principles of VBT to explain bonding in coordination compound of different geometries. Correlate no of unpaired electrons and orbitals used for bonding. Identify / explain / discuss inner and outer orbital complexes. Explain / discuss limitation of VBT.
CO3	Explain principle of CFT. Apply crystal field theory to different type of complexes (Td, Oh, Sq, Pl complexes) Explain: i) strong field and weak field ligand approach in Oh complexes ii) Magnetic properties of coordination compounds on the basis of weak and strong ligand field ligand concept. Explain spectrochemical series, tetragonal distortion / Jahn-Teller effect in Cu(II) Oh complexes only.
CO4	Identify and draw the structures aldehydes and ketones from their names or from structure name can be assigned. Explain / discuss synthesis of aldehydes and ketones. Write / discuss the mechanism reactions aldehydes and ketones. Give synthesis of expected aldehydes and ketones. Perform inter conversion of functional groups.



CO5	Identify and draw the structures carboxylic acids and their derivatives from their names or from structure name can be assigned. Explain / discuss synthesis of carboxylic acids and their derivatives. Write / discuss the mechanism reactions carboxylic acids and their derivatives.
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Assessment Tool

Course	Internal		University
	Test	Assignment	End Semester
CO1	Internal Exam	Assignment	End Semester Examination
CO2	Internal Exam	Assignment	End Semester Examination
CO3	Internal Exam	Assignment	End Semester Examination
CO4	Internal Exam	Assignment	End Semester Examination
CO5	Internal Exam	Assignment	End Semester Examination
% target of CO Attainment by Student	40%	40%	40%

Marks Scored by Student

Course	% Average of individual Target of all Tools	
	Internal	External/University
CO1	79	86
CO2	80	87
CO3	81	86
CO4	79	87
CO5	80	87

External Attainment Level

Level 0	< 40	< 40	< 40	< 40	< 40
Level 1	40	40	40	40	40
Level 2	50	50	50	50	50
Level 3	60	60	60	60	60



Internal attainment level of	CO1	CO2	CO3	CO4	CO5
Total No. of students	18	18	18	18	18
Total Number of Present Students	18	18	18	18	18
No. of students achieved	18	18	18	18	18
Percentage Attainment	100	100	100	100	100
Attainment Level	3	3	3	3	3

Overall Attainment

Level 0	<40	<40	<40	<40	<40
Level 1	40	40	40	40	40
Level 2	50	50	50	50	50
Level 3	>60	>60	>60	>60	>60
Internal attainment level of CO	CO 1	CO 2	CO 3	CO 4	CO 5
Internal attainment of CO	3	3	3	3	3
External attainment of CO	3	3	3	3	3
Overall attainment of CO	3	3	3	3	3

AAER's Asian College of Science and Commerce,

CO Attainment Sheet	Department	Class	Strength of the Class
Course Code	Name of the teacher	Internal Exam.	Year
CH-402	Kajal Gaudhab		2022-23

Sr. No.	Name	CO 1	CO 2	CO 3	CO 4	CO 5	
		15	35	15	35	15	35



1	Kunal	12	32	12	31	13	27	12	32	13	30
2	Shruti Khandag	11	28	10	31	11	29	10	29	10	31
3	Kunal	14	29	13	32	13	27	13	30	12	28
4	Omkar Kudale	10	28	11	29	11	32	11	30	11	27
5	Saurabh Ingale	12	31	12	33	12	28	12	31	12	34
6	Bhaghya shri	10	32	14	32	11	29	14	32	13	29
7	Konangir i	13	27	10	29	11	30	10	28	12	27
8	Raju	12	32	13	30	10	32	11	28	11	29
9	Nitin	11	29	12	30	12	32	13	37	13	30
10	Ghanshy am	13	34	12	31	14	31	12	29	13	30
11	Aarti	13	29	11	32	13	31	11	30	10	31
12	Abhay Lohokare	10	30	12	28	13	32	13	30	12	32
13	Rohan	12	30	11	28	11	29	13	31	12	28
14	Pratap Surwase	10	31	13	30	12	31	10	32	13	30
15	Anisha Nevase	14	32	11	32	14	29	12	28	12	32
16	Anand Takawal	13	28	12	29	13	31	10	29	14	29
17	Sankalp Mane	11	28	13	32	11	32	14	32	11	32
18	Tejas Dongale	13	33	13	27	13	29	12	27	12	27
	Average	12	30.17	11.944	30.33	12.1	30.06	11.8	30	12	30
	ge	79	86.19	79.63	86.67	80.7	85.87	78.9	87	80	85


 Pooja
 Co-Ordinator
 Internal Quality Assurance Cell
 AER'S Adani College of Science & Commerce


 Pooja
 AER'S Adani College of
 Science & Commerce
 Dhyan, Pune-411 041





Estb. : 2007

PLAKH-CO-2020-21
College Code - 070
ASAC COVER - C-4388

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Criterion 2 – Teaching-Learning and Evaluation

Key Indicator: 2.6: Student Performance and Learning Outcomes

Metric No. - 2.6.2: Attainment of POs and COs are evaluated.

CO-PO Attainment of B.Sc.

Department of Science

Academic	2022-23
Class	T. Y. B.Sc.
Semester	Semester V (CBCS Pattern 2019)
Course	Physical Chemistry-I
Teacher	Nilesh Tapkir
Strength of	2

Course Completion after completion of this course

CO1	Know historical of development of quantum mechanics in chemistry. mUnderstand and explain the differences between classical and quantum mechanics, Understand the idea of wave function Understanding of De Broglie hypothesis and the uncertainty principle. Understanding the operators: Position, momentum and energy. Solving Schrodinger equation for 1D, 2D and 3D model. Physical interpretation of the ψ and ψ^2 and sketching the wave function. Applications to conjugated systems, zero-point energy and quantum tunnelling, Numerical Problems
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CO2	Understand the term additive and constitutive properties. b) Understand the term specific volume, molar volume and molar refraction. Understand the meaning of electrical polarization of molecule, induced and orientation polarization. Dipole moment and its experimental determination by temperature variation method. Electromagnetic spectrum, Nature of wave and its characteristics such as wavelength, wave number, frequency and velocity, Energy level diagram, Classification of molecules on the basis of moment of Inertia, Rotational spectra of rigid diatomic molecules, selection rules, nature of spectral lines. Simple Harmonic oscillator model, Born-Oppenheimer approximation. Vibrational spectra of diatomic molecules selection rules, nature of spectral lines. Explain the difference between Rayleigh, Stokes and anti-Stokes lines in a Raman spectrum.
CO3	Difference between thermal and photochemical processes. photochemical laws: Grothus - Draper law, Stark-Einstein law, Quantum yield and reasons for high and low quantum yield, factors affecting the quantum yield, Experimental method for the determination of quantum yield. Photochemical reactions: photosynthesis, photolysis, photocatalysis, photosensitization. Various photochemical phenomena like fluorescence and phosphorescence, Chemiluminescence.

Assessment Tool

Course Outcome CO	Internal		University
	Test	Assignment	End Semester
CO1	Internal Exam	Assignment	End Semester Examination
CO2	Internal Exam	Assignment	End Semester Examination
CO3	Internal Exam	Assignment	End Semester Examination
% target of	40%	40%	40%

Marks Scored by Student

Course Outcome (CO)	% Average of individual Target of all Tools



	Internal	External/University
CO1	13	31
CO2	11	31
CO3	12	28

External Attainment Level

Level 0	<40	<40	<40
Level 1	40	40	40
Level 2	50	50	50
Level 3	60	60	60
Internal attainment level of	CO1	CO2	CO3
Total No. of students	2	2	2
Total Number of Present	2	2	2
No. of students achieved	2	2	2
Percentage Attainment	100	100	100
Attainment Level	3	3	3

Overall Attainment

Level 0	<40	<40	<40
Level 1	40	40	40
Level 2	50	50	50
Level 3	>60	>60	>60
Internal attainment level of CO	CO 1	CO 2	CO 3
Internal attainment of CO	3	3	3
External attainment of CO	3	3	3
Overall attainment of CO	3	3	3

AAER's Asian College of Science and Commerce,

CO Attainment Sheet	Department	Class	Strength of the Class
Course Code	Name of the teacher	Internal	Year



CH-501	Nilesh Tapkir		2022-23
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Sr. No.	Name	CO 1		CO 2		CO 3	
		15	35	15	35	15	35
1	Chetan Katkar	13	32	12	31	13	27
2	Pradyumna Kulkarni	12	30	10	31	11	29
	Average	12.5	31	11	31	12	28
	Percentage	83.33	88.6	73.33	89	80	80



Co-Ordinator

Internal Quality Assurance Cell
AAER'S Asian College of Science & Commerce




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Criterion 2 – Teaching-Learning and Evaluation

Key Indicator: 2.6: Student Performance and Learning Outcomes

Metric No. - 2.6.2: Attainment of POs and COs are evaluated.

CO-PO Attainment of B.Sc.

Department of Science

Academic Year	2022-23
Class	T. Y. B.Sc.
Semester	Semester V (CBCS Pattern 2019)
Course	Inorganic Chemistry-I
Teacher	Kajal Gaundhad
Strength of Class	2

Course Completion after completion of this course

CO1	Explain electroneutrality principle and different types of pi bonding. Able to explain Nephelauxetic effect towards covalent bonding. Explain MOT of Octahedral complexes with sigma bonding. Able to explain Charge Transfer Spectra. Able to compare the different approaches to bonding in Coordination compounds.
CO2	To understand about inert and labile complexes and stability of complexes in aqueous solutions. Classification of reactions of coordination compounds, The basic mechanisms of ligand substitution reactions. Substitution reactions of square planer complexes. Fran's effect and applications of Trans effect, Stereochemistry of mechanism. Gain the knowledge of inorganic reaction mechanisms available in the literature to solve chemical problems.
CO3	To know position of d-block elements in periodic table. To know the general electronic configuration & electronic configuration of elements. To know trends in periodic properties of these elements w.r.t. size of atom and ions, reactivity, catalytic activity, oxidation state, complex formation ability, color, magnetic properties, non-stoichiometry, density, melting point, boiling point.



CO4	The meaning of term f-block elements, Inner transition elements, lanthanides, actinides. Electronic configuration of lanthanides and actinides, Oxidation states of lanthanides and actinides and common oxidation states. Separation lanthanides by modern methods. Lanthanide contraction and effects of lanthanide contraction on post-lanthanides. Use of lanthanide elements in different industries. Transuranic elements. Preparation methods of transuranic elements. Nuclear fuels and their applications. IUPAC nomenclature for super heavy elements with atomic no. 100 onwards.
CO5	The meaning of metal & semiconductor. The difference between metal, semiconductor and insulator. Metallic bond on the basis of band theory. The energy band and energy curve. Draw n (E) & N (E) curves. 6. Explain the electrical conductivity of metals with respect to valence electrons. Explain the effect of temperature and impurity on conductivity of metals and semiconductors. Intrinsic and extrinsic semiconductor. The term valance band and conduction band. n and p type of semiconductors.

Assessment Tool

Course Outcome CO	Internal		University
	Test	Assignment	End Semester
CO1	Internal Exam	Assignment	End Semester
CO2	Internal Exam	Assignment	End Semester
CO3	Internal Exam	Assignment	End Semester Examination
CO4	Internal Exam	Assignment	End Semester Examination
CO5	Internal Exam	Assignment	End Semester Examination
% target of CO Attainment by Student	40%	40%	40%

Marks Scored by Student

Course Outcome (CO)	% Average of individual Target of all Tools	
	Internal	External/Univ ersity
CO1	83	90
CO2	77	87
CO3	80	87
CO4	70	84
CO5	83	93



External Attainment Level

Level 0	< 40	< 40	< 40	< 40	< 40
Level 1	40	40	40	40	40
Level 2	50	50	50	50	50
Level 3	60	60	60	60	60
Internal attainment level of	CO1	CO2	CO3	CO 4	CO5
Total No. of students	2	2	2	2	2
Total Number of Present Students	2	2	2	2	2
No. of students achieved	2	2	2	2	2
Percentage Attainment	100	100	100	100	100
Attainment Level	3	3	3	3	3

Overall Attainment

Level 0	<40	<40	<40	<40	<40
Level 1	40	40	40	40	40
Level 2	50	50	50	50	50
Level 3	>60	>60	>60	>60	>60
Internal attainment level of CO	CO 1	CO 2	CO 3	CO 4	CO 5
Internal attainment of CO	3	3	3	3	3
External attainment of CO	3	3	3	3	3
Overall attainment of CO	3	3	3	3	3

AAER's Asian College of Science and Commerce,

CO Attainment Sheet	Department	Class	Strength of the Class
Course Code	Name of the teacher	Internal Exam	Year
CH-504	Kajal Gaudhah		2022-23



Sr. No.	Name	CO 1		CO 2		CO 3		CO 4		CO 5	
		15	35	15	35	15	35	15	35	15	35

1	Chetan Karkar	12	31	11	29	11	29	10	32	12	32
2	Pradyumna Kulkarni	13	32	12	32	13	32	11	27	13	33
	Average	12.5	31.5	11.5	31	12	30.5	11	29.5	13	32.5
	Percentage	83.3	90	76.667	87	80	87.1	70	84.5	83	92.9



Co-Ordinator

Atul Kulkarni
AAER'S Asian College of Science & Commerce




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[Non-Aided College]

PUNE/CS/2022/2023
College Code: 678
Acad. Code: C-1188

Criterion 2 – Teaching-Learning and Evaluation

Key Indicator: 2.6: Student Performance and Learning Outcomes

Metric No. - 2.6.2: Attainment of POs and COs are evaluated.

CO-PO Attainment of B.Sc.

Department of Science

Academic	2022-23
Class	T. Y. B.Sc.
Semester	Semester V (CBCS Pattern 2019)
Course	Analytical Chemistry-I
Teacher	Nilesh Tapkir
Strength of Class	2

Course Completion after completion of this course

CO1	Define basic terms in gravimetry, spectrophotometry, qualitative analysis, parameters in instrumental analysis. Such as: Gravimetry, precipitation, solubility product, ionic product, common ion effect, precipitating agent, washing of ppt., drying and ignition of ppt., linearity range, detection limit, precision, accuracy, Sensitivity, Selectivity, Robustness, Ruggedness, electromagnetic radiations; spectrophotometry, Beer's law, absorbance, transmittance, molar absorptivity, monochromator, wavelength of maximum absorbance, metal ligand ration, qualitative analysis, group reagent, dry tests, wet test, confirmatory test, precipitation, thermogravimetry, thermogram, percent wt. loss, differential thermal analysis.
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CO2	Identify important parameters in analytical processes or estimations. minimum analyte concentration in particular method, reagent concentration in particular analysis. (gravimetry, spectrophotometry, thermogravimetry), reagent for particular analysis, reaction condition to convert analyte into measurable form, drying and ignition temperature for ppt in gravimetry, heating rate. thermogravimetry, wavelength in spectrophotometry, group reagent, removal borate and phosphate in qualitative analysis.
CO3	Explain different principles involved in the gravimetry, spectrophotometry, parameters in instrumental analysis, qualitative analysis.
CO4	Perform quantitative calculations depending upon equations student has studied in the theory. Furthermore, student should able to solve problems on the basis of theory.
CO5	Demonstrate theoretical principles with help of practical.

Assessment Tool

Course Outcome CO	Internal		University
	Test	Assignment	End Semester Examination
CO1	Internal Exam	Assignment	End Semester Examination
CO2	Internal Exam	Assignment	End Semester Examination
CO3	Internal Exam	Assignment	End Semester Examination
CO4	Internal Exam	Assignment	End Semester Examination
CO5	Internal Exam	Assignment	End Semester Examination
% target of CO	40%	40%	40%

Marks Scored by Student

Course Outcome	% Average of individual Target	
	Internal	External/University
CO1	83	87



CO2	73	87
CO3	87	81
CO4	77	96
CO5	77	91

External Attainment Level

Level 0	<40	<40	<40	<40	<40
Level 1	40	40	40	40	40
Level 2	50	50	50	50	50
Level 3	60	60	60	60	60
Internal attainment level of	CO1	CO2	CO3	CO4	CO5
Total No. of students	2	2	2	2	2
Total Number of Present Students	2	2	2	2	2
No. of students achieved	2	2	2	2	2
Percentage	100	100	100	100	100
Attainment Level	3	3	3	3	3

Overall Attainment

Level 0	<40	<40	<40	<40	<40
Level 1	40	40	40	40	40
Level 2	50	50	50	50	50
Level 3	>60	>60	>60	>60	>60
Internal attainment level of CO	CO 1	CO 2	CO 3	CO 4	CO 5
Internal attainment of CO	3	3	3	3	3
External attainment of CO	3	3	3	3	3
Overall attainment of CO	3	3	3	3	3

AAER's Asian College of Science and Commerce,

CO Attainment Sheet	Department	Class	Strength of the Class
Course Code	Name of the teacher	Internal Exam.	Year
CH-502			2022-23



Sr. No.	Name	CO 1		CO 2		CO 3		CO 4		CO 5	
		15	35	15	35	15	35	15	35	15	35
1	Chetan Katkar	14	31	10	29	14	28	12	33	12	31
2	Pradyumna Kulkarni	11	30	12	32	12	29	11	34	11	33
	Average	12.5	30.5	11	30.5	13	29	12	33.5	11.5	32
	Percentage	83.33	87.14	73.3	87.1	86.7	81	77	95.7	76.7	91



Co-Ordinator

Internal Quality Assurance Cell
AAER'S Asian College of Science & Commerce




PRINCIPAL

AAER'S Asian College of
Science & Commerce
Chennai, Pune-411 241



Est'd : 2007

KUPHAC0105-0018
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Phone Code: 0-20-24600

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Criterion 2 – Teaching-Learning and Evaluation
Key Indicator: 2.6: Student Performance and Learning Outcomes
Metric No. - 2.6.2: Attainment of POs and COs are evaluated.

CO-PO Attainment of B.Sc.
Department of Science

Academic Year	2022-23
Class	T. Y. B.Sc.
Semester	Semester V (CBCS Pattern 2019)
Course	Organic Chemistry-I
Teacher	Sadhana Salekar
Strength of Class	2

Course Completion after completion of this course

CO 1	Define and classify polynuclear and heteronuclear aromatic hydrocarbons. Write the structure, synthesis of polynuclear and heteronuclear aromatic hydrocarbons. Understand the reactions and mechanisms. Explain the reactivity of polynuclear and heteronuclear aromatic hydrocarbons.
CO 2	Meaning of active methylene group. Reactivity of methylene group, Synthetic applications ethyl acetoacetate and malonic ester. To predict product with naming or supply the reagent/s for these reactions .
CO 3	What is rearrangement reaction? Different types of intermediate in rearrangement reactions? To write the mechanism of some named rearrangement reactions and their applications.
CO 4	1,1 and 1,2 elimination, E1, E2 and E1cB mechanism with evidences of these reaction, Understand stereochemistry by using models and learn reactivity of geometrical isomers, Orientation and reactivity in E1 and E2 elimination, Hoffmann and Saytzeff's Orientation, Effect of factors on the rate elimination reactions.



Assessment Tool

Course	Internal		University
	Test	Assignment	End Semester
CO1	Internal Exam	Assignment	End Semester

CO2	Internal Exam	Assignment	End Semester
CO3	Internal Exam	Assignment	End Semester
CO4	Internal Exam	Assignment	End Semester
% target of CO	40%	40%	40%

Marks Scored by Student

Course Outcome (CO)	% Average of individual Target of all Tools	
	Internal	External/University
CO1	87	87
CO2	83	90
CO3	90	87
CO4	80	89

External Attainment Level

Level 0	<40	<40	<40	<40
Level 1	40	40	40	40
Level 2	50	50	50	50
Level 3	60	60	60	60
Internal attainment level	CO1	CO2	CO3	CO4
Total No. of students	2	2	2	2
Total Number of Present Students	2	2	2	2
No. of students achieved	2	2	2	2
Percentage Attainment	100	100	100	100
Attainment Level	3	3	3	3

Overall Attainment

Level 0	<40	<40	<40	<40
Level 1	40	40	40	40
Level 2	50	50	50	50
Level 3	>60	>60	>60	>60
Internal attainment level of CO	CO-1	CO 2	CO 3	CO 4
Internal attainment of	3	3	3	3
External attainment of	3	3	3	3
Overall attainment of	3	3	3	3



AAER's Asian College of Science and Commerce,

CO Attainment Sheet	Department	Class	Strength of the Class
Course Code	Name of the teacher	Internal Exam.	Year
CH-507	Sadhana Salekar		2022-23

Sr. No.	Name	CO 1		CO 2		CO 3		CO 4	
		15	35	15	35	15	35	15	35
1	Chetan Katkar	14	34	13	32	13	32	11	32
2	Pradyumna Kulkarni	12	27	12	31	14	29	13	30
	Average	13	30.5	12.5	31.5	13.5	30.5	12	31
	Percentage	86.67	87.14	83.3	90	90	87.1	80	88.57



Co-Ordinator

Internal Quality Assurance Cell
AAER's Asian College of Science & Commerce




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Dhayati, Pune-411 041



Year: 2022

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(Non-Aided College)

REGISTRATION NO. AAER/08/2008
College Dist. 878
AISE CODE: C-21000

Criterion 2 – Teaching-Learning and Evaluation

Key Indicator: 2.6: Student Performance and Learning Outcomes

Metric No. - 2.6.2: Attainment of POs and COs are evaluated.

CO-PO Attainment of B.Sc.

Department of Science

Academic Year	2022-23
Class	T. Y. B.Sc.
Semester	Semester V (CBCS Pattern 2019)
Course	Industrial Chemistry-I
Teacher	Sadhana Salekar
Strength of Class	2

Course Completion after completion of this course

CO1	Importance of chemical industry, Meaning of the terms involved, Comparison between batch and continuous process, Knowledge of various industrial aspects.
CO2	Concept of basic chemicals, Their uses and manufacturing process. They should also know the physico-chemical principals involved in manufacturing process.
CO3	Importance of sugar industry, Manufacture of direct, Consumption (plantation white) sugar with flow diagram, Cane juice extraction by various methods, Clarification by processes like carbonation, vi. Sulphitation, vii. Phosphatation. Basic requirement of fermentation process, Manufacturing of ethyl alcohol by using molasses and fruit juice.
CO4	Different types of soap products, Chemistry of soap, Raw materials required for soap manufacture. Meaning of the term's Surfactants, Types of surfactants Raw materials for detergents Detergent builders, additives. Washing action of soap and detergents.
CO5	Dye intermediates, Structural features of a dye; Classification of dyes, Synthesis, Structures, properties and applications of dyes Pigments: Students should know about Introduction, Classification and general properties of pigment. Production processes of zinc oxide and iron oxide.



Assessment Tool

Course Outcome	Internal		University
	Test	Assignment	End Semester
CO1	Internal Exam	Assignment	End Semester
CO2	Internal Exam	Assignment	End Semester
CO3	Internal Exam	Assignment	End Semester
CO4	Internal Exam	Assignment	End Semester
CO5	Internal Exam	Assignment	End Semester
% target of CO	40%	40%	40%

Marks Scored by Student

Course Outcome (CO)	% Average of individual Target of all Tools	
	Internal	External/University
CO1	80	81
CO2	90	87
CO3	90	87
CO4	87	81
CO5	90	84

External Attainment Level

Level 0	< 40	< 40	< 40	< 40	< 40
Level 1	40	40	40	40	40
Level 2	50	50	50	50	50
Level 3	60	60	60	60	60
Internal attainment level of	CO1	CO2	CO3	CO4	CO5
Total No. of students	2	2	2	2	2
Total Number of Present Students	2	2	2	2	2
No. of students achieved	2	2	2	2	2
Percentage Attainment	100	100	100	100	100
Attainment Level	3	3	3	3	3

Overall Attainment

Level 0	< 40	< 40	< 40	< 40	< 40
---------	------	------	------	------	------



Level 1	40	40	40	40	40
Level 2	50	50	50	50	50
Level 3	>60	>60	>60	>60	>60
Internal attainment level of CO	CO 1	CO 2	CO 3	CO 4	CO 5
Internal attainment of CO	3	3	3	3	3
External attainment of CO	3	3	3	3	3
Overall attainment of CO	3	3	3	3	3

AAER's Asian College of Science and Commerce,

CO Attainment Sheet	Department	Class	Strength of the Class
Course Code	Name of the	Internal	Year
CH-505	Sadhana Salekar		2022-23

Sr. No.	Name	CO 1		CO 2		CO 3		CO 4		CO 5	
		15	35	15	35	15	35	15	35	15	35
1	Chetan Katkar	13	29	14	34	13	28	14	29	14	31
2	Pradyumna Kulkarni	11	28	13	27	14	33	12	28	13	28
	Average	12	28.5	13.5	30.5	13.5	30.5	13	28.5	13.5	29.5
	Percentage	80	81.4	90	87.1	90	87.1	86.7	81.4	90	84.3


Co-Ordinator
 Internal Quality Assurance Cell
 AAER'S Asian College of Science & Commerce




PRINCIPAL
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 Dhayari, Pune-411041



Level - 2022

Pune-411004
College Code - 875
A/C No. 0001 - C-1000

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Criterion 2 – Teaching-Learning and Evaluation

Key Indicator: 2.6: Student Performance and Learning Outcomes

Metric No. - 2.6.2: Attainment of POs and COs are evaluated.

**CO-PO Attainment of B.Sc.
Department of Science**

Academic Year	2022-23
Class	I. Y. B.Sc.
Semester	Semester V (CBCS Pattern 2019)
Course	Chemistry of Biomolecules
Teacher	Sadhana Salekar
Strength of Class	2

Course Completion after completion of this course

CO1	The student will understanding of Cell types, Difference between a bacterial cell, Plant cell and animal cell. Biological composition and organization of cell membrane, structure and function of various cell organelles of plant and animal cell. Concepts of biomolecules, Bonds that link monomeric units to form macromolecules.
CO2	The student will understand the types of carbohydrates and their biochemical significance in living organisms, structure of carbohydrates and reactions of carbohydrates with Glucose as example. Properties of carbohydrates.
CO3	The student needs to know the types of lipids with examples, structure of lipids, properties of lipids.
CO4	The student will understand the structure and types of amino acids, Reactions of amino acids. Properties of amino acids. Peptide bond formation. Types of proteins, Structural features in proteins.
CO5	The student know the classes of enzymes with subclasses and examples. Enzyme specificity, Equations of enzyme kinetics K_m and its significance, features of various types of enzyme inhibitions, industrial applications of enzymes.
CO6	Basic concepts of Endocrinology. Types of Endocrine glands and their hormones. Biochemical nature of hormones. Mechanism of action of lipophilic and hydrophilic hormones.



Assessment Tool

Course Outcome	Internal		University
	Test	Assignment	End Semester Examination
CO1	Internal Exam	Assignment	End Semester Examination
CO2	Internal Exam	Assignment	End Semester Examination
CO3	Internal Exam	Assignment	End Semester Examination
CO4	Internal Exam	Assignment	End Semester Examination
CO5	Internal Exam	Assignment	End Semester Examination
CO6	Internal Exam	Assignment	End Semester Examination
% target of CO Attainment by Student	40%	40%	40%

Marks Scored by Student

Course Outcome (CO)	% Average of individual Target of all Tools	
	Internal	External/University
CO1	87	90
CO2	80	89
CO3	83	86
CO4	77	84
CO5	77	87
CO6	90	94

External Attainment Level

Level 0	< 40	< 40	< 40	< 40	< 40	< 40
Level 1	40	40	40	40	40	40
Level 2	50	50	50	50	50	50
Level 3	60	60	60	60	60	60
Internal attainment level of	CO1	CO2	CO3	CO4	CO5	CO6
Total No. of students	2	2	2	2	2	2



Total Number of Present Students	2	2	2	2	2	2
No. of students achieved	2	2	2	2	2	2
Percentage Attainment	100	100	100	100	100	100
Attainment Level	3	3	3	3	3	3

Overall Attainment

Level 0	<40	<40	<40	<40	<40	<40
Level 1	40	40	40	40	40	40
Level 2	50	50	50	50	50	50
Level 3	>60	>60	>60	>60	>60	>60
Internal attainment level of CO	CO 1	CO 2	CO 3	CO 4	CO 5	CO 6
Internal attainment of CO	3	3	3	3	3	3
External attainment of CO	3	3	3	3	3	3
Overall attainment of CO	3	3	3	3	3	3

AAER's Asian College of Science and Commerce,

CO Attainment Sheet	Department	Class	Strength of the
Course Code	Name of the	Internal	Year
CH-509	Sadhana Salekar		2022-23

Sr. No.	Name	CO 1		CO 2		CO 3		CO 4		CO 5		CO 6	
		15	35	15	35	15	35	15	35	15	35	15	35
1	Chetan Katkar	12	34	11	30	13	32	11	29	10	32	14	34
2	Pradyumna Kulkarni	14	29	13	32	12	28	12	30	13	29	13	32
	Average	13	31.5	12	31	13	30	12	30	12	31	14	33
	Percentage	87	90	80	89	83	86	77	84	77	87	90	94


Co-ordinator

Internal Quality Assurance Cell
AAER'S Asian College of Science & Commerce




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Dnyanesh, Pune-411 041



REGISTRATION NO. 1000000
 CAMPUS CODE: 379
 ACADEMIC CODE: C-11000

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(Affiliated to Savitribai Phule Pune University & Approved by Govt. of Maharashtra)

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S. No. 38/15/16, Yashwantrao Chavan Road, 7th/8th Company Chowk, Dastur, Pune - 411041.
 ☎ 020-24990620, 24000110. www.asiancollegepune.ac.in Email: asianacademypune@gmail.com
 (Non-Aided College)

Criterion 2 – Teaching-Learning and Evaluation
Key Indicator: 2.6: Student Performance and Learning Outcomes
Metric No. - 2.6.2: Attainment of POs and COs are evaluated.

CO-PO Attainment of B.Sc.
Department of Science

Academic Year	2022-23
Class	T. Y. B.Sc.
Semester	Semester V (CBCS Pattern 2019)
Course	Introduction to Medicinal Chemistry
Teacher	Nilesh Tapkir
Strength of Class	2

Course Completion after completion of this course

CO1	The basics of medicinal chemistry, biophysical properties, overview of basic concepts of traditional systems of medicine.
CO2	Over view of the overall process of drug discovery, and the role played by medicinal chemistry in this process.
CO3	Biological activity parameters and importance of stereochemistry of drugs and receptors.
CO4	Knowledge of mechanism of action of drugs belonging to the classes of infectious and non-infectious diseases.

Assessment Tool

Course Outcome CO	Internal		University
	Test	Assignment	End Semester Examination
CO1	Internal Exam	Assignment	End Semester Examination



CO2	Internal Exam	Assignment	End Semester Examination
CO3	Internal Exam	Assignment	End Semester Examination
CO4	Internal Exam	Assignment	End Semester Examination
% target of CO Attainment by Student	40%	40%	40%

Marks Scored by Student

Course Outcome (CO)	% Average of individual Target of all Tools	
	Internal	External/University
CO1	77	87
CO2	90	94
CO3	87	86
CO4	87	93

External Attainment Level

Level 0	<40	<40	<40	<40
Level 1	40	40	40	40
Level 2	50	50	50	50
Level 3	60	60	60	60
Internal attainment level	CO1	CO2	CO3	CO4
Total No. of students	2	2	2	2
Total Number of Present Students	2	2	2	2
No. of students	2	2	2	2
Percentage Attainment	100	100	100	100
Attainment Level	3	3	3	3

Overall Attainment

Level 0	<40	<40	<40	<40
Level 1	40	40	40	40
Level 2	50	50	50	50
Level 3	>60	>60	>60	>60



Internal attainment level of CO	CO 1	CO 2	CO 3	CO 4
Internal attainment of CO	3	3	3	3
External attainment of CO	3	3	3	3
Overall attainment of CO	3	3	3	3

AAER's Asian College of Science and Commerce,

CO Attainment Sheet	Department	Class	Strength of the Class
Course Code	Name of the teacher	Internal	Year
CH-510	Nitesh Tapkir		2022-23

Sr. No.	Name	CO 1		CO 2		CO 3		CO 4	
		15	35	15	35	15	35	15	35
1	Chetan Kulkar	10	32	14	34	12	31	13	34
2	Pradyumna Kulkarni	13	29	13	32	14	29	13	31
	Average	12	30.5	13.5	33	13	30	13	32.5
	Percentage	77	87.14	90	94.29	86.67	86	86.7	92.9



Co-Ordinator

Internal Quality Assurance Cell
AAER'S Asian College of Science & Commerce




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Dhayari, Pune-411041



Criterion 2 – Teaching-Learning and Evaluation

Key Indicator: 2.6: Student Performance and Learning Outcomes

Metric No. - 2.6.2: Attainment of POs and COs are evaluated.

CO-PO Attainment of B.Sc.

Department of Science

Academic Year	2022-23
Class	T. Y. B.Sc.
Semester	Semester V (CBCS Pattern 2019)
Course	Environmental Chemistry
Teacher	Kajal Gaudhab
Strength of Class	2

Course Completion after completion of this course

CO1	Importance and conservation of environment. Importance of biogeochemical cycles.
CO2	Water resources, Hydrological Cycle, Organic and inorganic pollutants, Water quality parameters.
CO3	Students should grasp the fundamental principles underlying analytical techniques used in water analysis, including spectroscopy, chromatography, and electrochemistry. Understand the principles of quality assurance and quality control in analytical chemistry, including calibration, standardization, and error analysis, to ensure the reliability and accuracy of analytical data.
CO4	Students should be able to identify and describe various sources of water pollution, including industrial discharge, agricultural runoff, urban wastewater, and atmospheric deposition.

Assessment Tool

Course Outcome CO	Internal		University
	Test	Assignment	End Semester
CO1	Internal Exam	Assignment	End Semester Examination
CO2	Internal Exam	Assignment	End Semester Examination



CO3	Internal Exam	Assignment	End Semester Examination
CO4	Internal Exam	Assignment	End Semester Examination
% target of CO	40%	40%	40%

Marks Scored by Student

Course Outcome (CO)	% Average of individual Target of all Tools	
	Internal	External/University
CO1	80	86
CO2	80	87
CO3	87	87
CO4	90	96

External Attainment Level

Level 0	<40	<40	<40	<40
Level 1	40	40	40	40
Level 2	50	50	50	50
Level 3	60	60	60	60
Internal attainment level of	CO1	CO2	CO3	CO4
Total No. of students	2	2	2	2
Total Number of Present Students	2	2	2	2
No. of students achieved	2	2	2	2
Percentage Attainment	100	100	100	100
Attainment Level	3	3	3	3

Overall Attainment

Level 0	<40	<40	<40	<40
Level 1	40	40	40	40
Level 2	50	50	50	50
Level 3	>60	>60	>60	>60



Internal attainment level of CO	CO 1	CO 2	CO 3	CO 4
Internal attainment of CO	3	3	3	3
External attainment of CO	3	3	3	3
Overall attainment of CO	3	3	3	3

AAER's Asian College of Science and Commerce,

CO Attainment Sheet	Department	Class	Strength of the Class
Course Code	Name of the teacher	Internal	Year
CH-511	Kajal Gaudhab		2022-23

Sr. No.	Name	CO 1		CO 2		CO 3		CO 4	
		15	35	15	35	15	35	15	35
1	Chetan Katkar	11	29	11	29	12	29	14	33
2	Pradyumna Kulkarni	13	31	13	32	14	32	13	34
	Average	12	30	12	30.5	13	31	13.5	33.5
	Percentage	80	85.7	80	87.14	86.67	87	90	95.7


 Inter - Science Cell
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Sr. No. 28/15/16, Narhe Dhayri Road, PVR Compound Chowk, Dhayri, Pune - 411041.
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(Non Aided College)

PUN/CS-3362008
College Code: 1878
A/SHE CODE: C-41808

Criterion 2 – Teaching-Learning and Evaluation
Key Indicator: 2.6: Student Performance and Learning Outcomes
Metric No. - 2.6.2: Attainment of POs and COs are evaluated.
CO-PO Attainment of B.Sc.
Department of Science

Academic Year	2022-23
Class	T. Y. B.Sc.
Semester	Semester VI (CBCS Pattern: 2019)
Course	Physical Chemistry-II
Teacher	Nilesh Tapkir
Strength of Class	2

Course Completion after completion of this course	
CO1	Electrochemical cells: Explanation of Daniell cell, Conventions to represent electrochemical cells, Thermodynamic conditions of reversible cell, Explanations of reversible and irreversible, electrochemical cell with suitable example, EMF of electrochemical cell and its measurement. The Weston standard cell. The primary reference electrode: The standard hydrogen electrode (SHE) with referenc, to diagram, Construction: representation, working and limitation
CO2	Distinguish between crystalline and amorphous solids / anisotropic and isotropic solids, Explain the term crystallography and laws of crystallography. Weiss and Millers Indices, determination of Miller Indices. Bravais lattices; space groups. seven crystal systems and fourteen Bravais lattices; Cubic lattice and types of cubic lattice, Distance between the planes for 100, 110 and 111 for cubic lattice.



CO3	Types and properties of radiations: alpha, beta and gamma, Detection and Measurement of Radioactivity: Cloud chamber, Ionization Chamber, Geiger-Muller Counter, Scintillation Counter, Film Badges, Types of radioactive decay: α -Decay, β -Decay and γ -Decay, The Group Displacement Law, Radioactive Disintegration Series. Kinetics of Radioactive Decay, Half-life, average life and units of radioactivity.
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Assessment Tool

Course Outcome CO	Internal		University
	Test	Assignment	End Semester Examination
CO1	Internal Exam	Assignment	End Semester Examination
CO2	Internal Exam	Assignment	End Semester Examination
CO3	Internal Exam	Assignment	End Semester Examination
% target of CO Attainment by Student	40%	40%	40%

Marks Scored by Student

Course Outcome	% Average of individual Target of all	
	Internal	External/University
CO1	83	87
CO2	77	91
CO3	80	87

External Attainment Level

Level 0	< 40	< 40	< 40
Level 1	40	40	40
Level 2	50	50	50
Level 3	60	60	60
Internal attainment level of	CO1	CO2	CO3
Total No. of students	2	2	2
Total Number of Present Students	2	2	2



No. of students achieved	2	2	2
Percentage Attainment	100	100	100
Attainment Level	3	3	3

Overall Attainment

Level 0	<40	<40	<40
Level 1	40	40	40
Level 2	50	50	50
Level 3	>60	>60	>60
Internal attainment level of CO	CO 1	CO 2	CO 3
Internal attainment of CO	3	3	3
External attainment of CO	3	3	3
Overall attainment of CO	3	3	3

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CO Attainment Sheet	Department	Class	Strength of the Class
Course Code	Name of the teacher	Internal	Year
CH-601	Nilesh Tapkir		2022-23

Sr. No.	Name	CO 1		CO 2		CO 3	
		15	35	15	35	15	35
1	Chetan Katkar	14	29	10	33	13	33



2	Pradyumna Kulkarni	11	32	13	31	11	29
	Average	12.5	30.5	11.5	32	12	30.5
	Percentage	83.333	87.1428571	76.6667	91.4	80	87.143


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Estb - 2007

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(Non-Aided College)

PLI PIN: C0328K0008
College Code : 878
AZHEI CODE : C-11888

Criterion 2 – Teaching-Learning and Evaluation

Key Indicator: 2.6: Student Performance and Learning Outcomes

Metric No. - 2.6.2: Attainment of POs and COs are evaluated.

CO-PO Attainment of B.Sc.

Department of Science

Academic Year	2022-23
Class	T. Y. B.Sc.
Semester	Semester VI (CBCS Pattern)
Course	Physical Chemistry-III
Teacher	Nilesh Tapkir
Strength of Class	2

Course Completion after completion of this course	
CO1	Meaning of the terms-Solution, electrolytes, nonelectrolytes and colligative properties, Lowering of vapour pressure of solvent in solution, Elevation of B.P. of solvent in solution, Landsberger's method, freezing point depression, Beckmann's method Osmosis and Osmotic pressure, Berkeley, Hartley method, Application of colligative properties to determine molecular weight of nonelectrolyte, abnormal molecular weight, Relation between Vant Hoff's factor and degree of dissociation of electrolyte by colligative property
CO2	Factors affecting on solid state reactions, Rate laws for reactions in solid state Applying rate laws for solid state reactions, Results of kinetics studies



CO3	Cohesive Energy of ionic crystals based on coulomb's law and Born Haber Cycle, Correspondence between energy levels in the atom and energy bands in solid, Band structure in solids – Na, Ca and diamond, Conductors and insulators – Its correlation with Extent of energy in energy bands, phenomena of photoconductivity
CO4	History of polymers. Classification of polymers, Chemical bonding & Molecular forces in Polymer, Molecular weight of polymers, Practical significance of polymer molecular weights, Molecular weight determination

Assessment Tool

Course Outcome CO	Internal		University
	Test	Assignment	
			End Semester Examination
CO1	Internal Exam	Assignment	End Semester Examination
CO2	Internal Exam	Assignment	End Semester Examination
CO3	Internal Exam	Assignment	End Semester Examination
CO4	Internal Exam	Assignment	End Semester Examination
% target of CO Attainment by Student	40%	40%	40%

Marks Scored by Student

Course Outcome (CO)	% Average of individual Target of	
	Internal	External/University
CO1	73	93
CO2	83	81
CO3	83	86
CO4	77	90

External Attainment Level

Level 0	< 40	< 40	< 40	< 40
Level 1	40	40	40	40
Level 2	50	50	50	50



Level 3	60	60	60	60
Internal attainment level of	CO1	CO2	CO3	CO4
Total No. of students	2	2	2	2
Total Number of Present Students	2	2	2	2
No. of students achieved	2	2	2	2
Percentage Attainment	100	100	100	100
Attainment Level	3	3	3	3

Overall Attainment

Level 0	<40	<40	<40	<40
Level 1	40	40	40	40
Level 2	50	50	50	50
Level 3	>60	>60	>60	>60
Internal attainment level of CO	CO 1	CO 2	CO 3	CO 4
Internal attainment of CO	3	3	3	3
External attainment of CO	3	3	3	3
Overall attainment of CO	3	3	3	3

AAER's Asian College of Science and Commerce,

CO Attainment Sheet	Department	Class	Strength of the Class
Course Code	Name of the	Internal	Year
CH-602	Nilesh Tapkir		2022-23



Sr. No.	Name	CO 1		CO 2		CO 3		CO 4	
		15	35	15	35	15	35	15	35
1	Chetan Katkar	12	34	13	30	11	28	13	34
2	Pradyumna Kulkarni	10	31	12	27	14	32	10	29
	Average	11	32.5	12.5	28.5	13	30	11.5	31.5
	Percentage	73.3	92.9	83.3	81.4	83	85.7	76.6667	90


 Coordinator
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(Non Aided College)

UJ/NAAC/2202006
College Code: 979
AISEE CODE: C-41889

Criterion 2 – Teaching-Learning and Evaluation

Key Indicator: 2.6: Student Performance and Learning Outcomes

Metric No. - 2.6.2: Attainment of POs and COs are evaluated.

CO-PO Attainment of B.Sc.

Department of Science

Academic Year	2022-23
Class	T. Y. B.Sc.
Semester	Semester VI (CBCS Pattern: 2019)
Course	Inorganic Chemistry-II
Teacher	Sadhana Salekar
Strength of Class	2

Course Completion after completion of this course

CO1	To understand M-C bond and to define organometallic compound, To define organometallic chemistry, To understand the multiple bonding due to CO ligand. To know methods of synthesis of binary metal carbonyls. To understand the structure and bonding using valence electron count.
CO2	Understand the phenomenon of catalysis, its basic principles and terminologies. Define and differentiate homogeneous and heterogeneous catalysis. Give examples and brief account of homogeneous catalysts. Understand the essential properties of homogeneous catalysts-Give the catalytic reactions for Wilkinson's Catalysis, hydroformylation reaction, Monsanto acetic acid synthesis.
CO3	Identify the biological role of inorganic ions & compounds. Know the abundance of elements in living system and earth crust. Give the classification of metals as enzymatic and non-enzymatic.



CO4	know thy types of Inorganic polymers, comparison with organic polymers synthesis, structural aspects of Inorganic polymers, understand the polymers of Si, B, Si and P, Inorganic polymers and their use,
CO5	Understand Preparation of inorganic solids by various methods, Inorganic liquid crystals, Ionic liquids, their preparations, and their significance w.r.t green chemistry. Technological importance of ionic liquids

Assessment Tool

Course Outcome CO	Internal		University
		Test	Assignment
CO1	Internal Exam	Assignment	End Semester Examination
CO2	Internal Exam	Assignment	End Semester Examination
CO3	Internal Exam	Assignment	End Semester Examination
CO4	Internal Exam	Assignment	End Semester Examination
CO5	Internal Exam	Assignment	End Semester Examination
% target of CO Attainment by Student	40%	40%	40%

Marks Scored by Student

Course Outcome (CO)	% Average of individual	
	Internal	External/University
CO1	87	77
CO2	77	80
CO3	80	83
CO4	83	73
CO5	73	82



External Attainment Level

Level 0	< 40	< 40	< 40	< 40	< 40
Level 1	40	40	40	40	40
Level 2	50	50	50	50	50
Level 3	60	60	60	60	60
Internal attainment level of	CO1	CO2	CO3	CO4	CO5
Total No. of students	2	2	2	2	2
Total Number of Present Students	2	2	2	2	2
No. of students achieved	2	2	2	2	2
Percentage Attainment	100	100	100	100	100
Attainment Level	3	3	3	3	3

Overall Attainment

Level 0	<40	<40	<40	<40	<40
Level 1	40	40	40	40	40
Level 2	50	50	50	50	50
Level 3	>60	>60	>60	>60	>60
Internal attainment level of CO	CO 1	CO 2	CO 3	CO 4	CO 5
Internal attainment of CO	3	3	3	3	3
External attainment of CO	3	3	3	3	3
Overall attainment of CO	3	3	3	3	3



CO Attainment Sheet	Department	Class	Strength of the Class
Course Code	Name of the	Internal	Year
CH-604	Sadhana Saikar		2022-23

Sr. No.	Name	CO 1		CO 2		CO 3		CO 4		CO 5	
		15	35	15	35	15	35	15	35	15	35
1	Chetan Katkar	12	32	13	33	13	30	13	32	12	33
2	Pradyumna Kulkarni	14	29	10	34	11	34	12	31	10	27
	Average	13	30.5	11.5	33.5	12	32	12.5	32	11	30
	Percentage	86.7	87.1	76.7	95.7	80	91	83.3	90	73	85.7


Co-Ordinator
 Internal Quality Assurance Cell
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(Non-Aided College)

PUNJAC012023000
CollegeCode: 1191
MSRECODE: 040000

Criterion 2 – Teaching-Learning and Evaluation
Key Indicator: 2.6: Student Performance and Learning Outcomes
Metric No. - 2.6.2: Attainment of POs and COs are evaluated.
CO-PO Attainment of B.Sc.
Department of Science

Academic Year	2022-23
Class	T. Y. B.Sc.
Semester	Semester VI (CBCS Pattern)
Course	Inorganic Chemistry-III
Teacher	Sadhana Salekar
Strength of Class	2

Course Completion after completion of this course	
CO1	Student will learn the concept of acid base and their theories. They will also come to know different properties of acids and bases. Strength of various types acids. How acid and base strengths get affected in non-aqueous solvents.
CO2	Know the crystal structures of solids. Draw the simple cubic, BCC and FCC structures. Identify the C.N. of an ion in ionic solid. Identify the type of void. Know the effect of radius ratio in determining the crystal structure.
CO3	Different Zeolite Framework Types and their classification, Zeolite synthesis and their structure, Application of zeolites
CO4	Various methods of nanoparticle synthesis, Stabilization of Nanoparticles in solution, Properties and Application of Nanoparticles Know about carbon nanotube and its application



CO5	To know toxic chemical in the environment. To know the impact of toxic chemicals on enzyme. To know the biochemical effect of Arsenic, Cd, Pb, Hg. To explain biological methylation.
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Assessment Tool			
Course Outcome CO	Internal		University
	Test	Assignment	End Semester Examination
CO1	Internal Exam	Assignment	End Semester Examination
CO2	Internal Exam	Assignment	End Semester Examination
CO3	Internal Exam	Assignment	End Semester Examination
CO4	Internal Exam	Assignment	End Semester Examination
CO5	Internal Exam	Assignment	End Semester Examination
	40%	40%	40%

% Marks Scored by Student

Course Outcome	% Average of individual Target of all Tools	
	Internal	External/University
CO1	83	90
CO2	87	91
CO3	90	83
CO4	73	91
CO5	83	93

External Attainment Level

Level 0	< 40	< 40	< 40	< 40	< 40
Level 1	40	40	40	40	40
Level 2	50	50	50	50	50
Level 3	60	60	60	60	60



Internal attainment level of	CO1	CO2	CO3	CO4	CO5
Total No. of students	2	2	2	2	2
Total Number of Present Students	2	2	2	2	2
No. of students achieved	2	2	2	2	2
Percentage Attainment	100	100	100	100	100
Attainment Level	3	3	3	3	3

Overall Attainment					
Level 0	<40	<40	<40	<40	<40
Level 1	40	40	40	40	40
Level 2	50	50	50	50	50
Level 3	>60	>60	>60	>60	>60
Internal attainment level of CO	CO 1	CO 2	CO 3	CO 4	CO 5
Internal attainment of CO	3	3	3	3	3
External attainment of CO	3	3	3	3	3
Overall attainment of CO	3	3	3	3	3

AAER's Asian College of Science and Commerce,			
CO Attainment Sheet	Department	Class	Strength of the Class
Course Code	Name of the teacher	Internal Exam.	Year
CH-605	Sadhana Salekar		2022-23



Sr. No.	Name	CO 1		CO 2		CO 3		CO 4		CO 5	
		15	35	15	35	15	35	15	35	15	35
1	Chetan Kutkar	13	32	14	30	13	27	12	31	11	34
2	Pradyumna Kulkarni	12	31	12	34	14	31	10	33	14	31
	Average	12.5	32	13	32	14	29	11	32	12.5	32.5
	Percentage	83.3	90	86.7	91.4	90	82.9	73	91	83.3	92.86


Co-Ordinator
 Internal Quality Assurance Cell
 AAERT's College of Science & Commerce




Principal
 AAERT's College of
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 Dhule, Pin-411 011



Estb: 2007

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(From Alkesh College)

PUNJIC02200008
College Code : 818
A04E200E | C-41000

Criterion 2 – Teaching-Learning and Evaluation

Key Indicator: 2.6: Student Performance and Learning Outcomes

Metric No. - 2.6.2: Attainment of POs and COs are evaluated.

**CO-PO Attainment of B.Sc.
Department of Science**

Academic Year	2022-23
Class	T. Y. B.Sc.
Semester	Semester VI (CBCS Pattern)
Course	Organic Chemistry-II
Teacher	Kajal Gaudhab
Strength of Class	2

Course Completion after completion of this course

CO 1	Students will learn the principle of mass spectroscopy, its instrumentation and nature of mass spectrum.
CO 2	Students will understand the principle of UV spectroscopy and the nature of UV spectrum. They will learn types of electronic
CO 3	Students will be able to calculate maximum wavelength for any conjugated system, from the value of λ -max they will be able to find out the extent of conjugation in the compound.
CO 4	Students will understand the principle of IR spectroscopy, types of vibrations and the nature of IR spectrum. From the IR spectrum, they will be able to find out IR frequencies of different functional groups. And thus, they will be able to find functional groups present
CO 5	Students will understand the principle of NMR spectroscopy and will understand various terms used in NMR spectroscopy. They will learn measurement of chemical shift and coupling constants.
CO 6	Students will be able to interpret the NMR data and they will be able to use it for determination of structure of organic compounds



Course Outcome CO	Internal		University
	Test	Assignment	End Semester Examination
CO1	Internal Exam	Assignment	End Semester Examination
CO2	Internal Exam	Assignment	End Semester Examination
CO3	Internal Exam	Assignment	End Semester Examination
CO4	Internal Exam	Assignment	End Semester Examination
CO5	Internal Exam	Assignment	End Semester Examination
CO6	Internal Exam	Assignment	End Semester Examination
% target of CO Attainment by Student	40%	40%	40%

Marks Scored by Student

Course Outcome	% Average of individual Target of all Tools	
	Internal	External/University
CO1	90	91
CO2	83	84
CO3	80	86
CO4	83	80
CO5	80	91
CO6	73	90

External Attainment Level

Level 0	< 40	< 40	< 40	< 40	< 40	< 40
Level 1	40	40	40	40	40	40
Level 2	50	50	50	50	50	50
Level 3	60	60	60	60	60	60



Internal attainment level of	CO1	CO2	CO3	CO4	CO5	CO6
Total No. of students	2	2	2	2	2	2
Total Number of Present Students	2	2	2	2	2	2
No. of students achieved	2	2	2	2	2	2
Percentage Attainment	2	2	2	2	2	2
Attainment Level	3	3	3	3	3	3

Overall Attainment						
Level 0	<40	<40	<40	<40	<40	<40
Level 1	40	40	40	40	40	40
Level 2	50	50	50	50	50	50
Level 3	>60	>60	>60	>60	>60	>60
Internal attainment level of CO	CO 1	CO 2	CO 3	CO 4	CO 5	CO 6
Internal attainment of CO	3	3	3	3	3	3
External attainment of CO	3	3	3	3	3	3
Overall attainment of CO	3	3	3	3	3	3

AAER's Asian College of Science and Commerce,

CO Attainment Sheet	Department	Class	Strength of the Class
Course Code	Name of the	Internal	Year



CII-607	Kajal Gaudhah	2022-23
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Sr. No.	Name	CO 1		CO 2		CO 3		CO 4		CO 5		CO 6	
		15	35	15	35	15	35	15	35	15	35	15	35
1	Chetan Kutkar	14	31	14	28	13	31	14	29	11	31	10	32
	Pradyumna												
2	Kulkarni	13	33	11	31	11	29	11	27	13	33	12	31
	Average	14	32	13	30	12	30	13	28	12	32	11	32
	Percentage	90	91	83	84	80	86	83	80	80	91	73	90


Co-Ordinator
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Estb:- 2007

HUNVEC/22/2006
College Code - 678
Affiliation Code - C-4-1008

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(Non Aided College)

Criterion 2 – Teaching-Learning and Evaluation

Key Indicator: 2.6: Student Performance and Learning

Metric No. - 2.6.2: Attainment of POs and COs are

**CO-PO Attainment of B.Sc.
Department of Science**

Academic Year	2022-23
Class	T. Y. B.Sc.
Semester	Semester VI (CBCS Pattern 2019)
Course	Organic Chemistry-III
Teacher	Kajal Gaudhab
Strength of Class	2

Course Completion after completion of this course

CO1	Define retrosynthetic analysis and its significance in organic synthesis. Demonstrate the ability to break down complex molecules into simpler precursor structures using retrosynthetic analysis.
CO2	Identify and explain the key steps involved in various organic reaction mechanisms. Differentiate between different types of reactions, such as substitution, addition, elimination, and rearrangement reactions.
CO3	Demonstrate a comprehensive understanding of various organic reactions and their mechanisms. Identify key functional groups and their transformations in organic synthesis.



CO4	Define and explain the basic principles of natural product chemistry. Identify different classes of natural products, such as alkaloids, terpenes, flavonoids, and polyphenols. Describe the chemical structures and biosynthetic pathways of key natural products.
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Assessment Tool

Course Outcome	Internal		University
	Test	Assignment	End Semester Examination
CO1	Internal Exam	Assignment	End Semester Examination
CO2	Internal Exam	Assignment	End Semester Examination
CO3	Internal Exam	Assignment	End Semester Examination
CO4	Internal Exam	Assignment	End Semester Examination
% target of CO Attainment by Student	40%	40%	40%

Marks Scored by Student

Course Outcome (CO)	% Average of individual Target of all Tools	
	Internal	External/University
CO1	80	86
CO2	80	87
CO3	87	87
CO4	90	96

External Attainment Level



Level 0	< 40	<	<40	<40
Level 1	40	40	40	40
Level 2	50	50	50	50
Level 3	60	60	60	60
Internal attainment level of	CO1	CO 2	CO3	CO4
Total No. of students	2	2	2	2
Total Number of Present Students	2	2	2	2
No. of students achieved	2	2	2	2
Percentage Attainment	100	100	100	100
Attainment Level	3	3	3	3

Overall Attainment

Level 0	<40	<40	<40	<40
Level 1	40	40	40	40
Level 2	50	50	50	50
Level 3	>60	>60	>60	>60
Internal attainment level of CO	CO 1	CO 2	CO 3	CO 4
Internal attainment of CO	3	3	3	3
External attainment of CO	3	3	3	3
Overall attainment of CO	3	3	3	3

AAER's Asian College of Science and Commerce,

CO Attainment Sheet	Department	Class	Strength of the Class
Course Code	Name of the	Internal	Year
CH-608	Kajal Gaudhab		2022-23



Sr. No.	Name	CO 1		CO 2		CO 3		CO 4	
		15	35	15	35	15	35	15	35
1	Chetan Katkar	11	29	11	29	12	29	14	33
2	Pradyumna Kulkarni	13	31	13	32	14	32	13	34
	Average	12	30	12	30.5	13	31	13.5	33.5
	Percentage	80	85.71	80	87.14	86.6667	87	90	95.71


 In-charge Officer
 Cell
 Science & Commerce




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(Non-Aided College)

PL/PH/12/305/2008
College Code: 070
MHE CODE: 041000

Criterion 2 – Teaching-Learning and Evaluation
Key Indicator: 2.6: Student Performance and Learning
Metric No. - 2.6.2: Attainment of POs and COs are evaluated.

CO-PO Attainment of B.Sc.
Department of Science

Academic Year	2022-23
Class	T. Y. B.Sc.
Semester	Semester VI (CBCS Pattern 2019)
Course	Chemistry of Soil and Agrochemicals
Teacher	Kajal Gaudhab
Strength of Class	2

Course Completion after completion of this course

CO1	Know the different components and properties of soil.
CO2	Identify the problematic soil and recommend method for their reclamation. Know the different plant nutrients required for plants and their functions.
CO3	Know the role of various fertilizers and manures required for plant growth. Know the various methods and their techniques in analysis of soil.
CO4	Know various techniques to protect the plants. Have the knowledge of various pesticides, insecticides, fungicides and herbicides.
CO5	Understood various components of soil and soil properties and their impact on plant growth. Understood the classification of the soil.

Assessment Tool

Course Outcome CO	Internal	University
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	Test	Assignment	End Semester Examination
CO1	Internal Exam	Assignment	End Semester Examination
CO2	Internal Exam	Assignment	End Semester Examination
CO3	Internal Exam	Assignment	End Semester Examination
CO4	Internal Exam	Assignment	End Semester Examination
CO5	Internal Exam	Assignment	End Semester Examination
% target of CO Attainment by Student	40%	40%	40%

Marks Scored by Student

Course Outcome (CO)	% Average of individual Target of all Tools	
	Internal	External/University
CO1	90	91
CO2	83	91
CO3	90	93
CO4	80	80
CO5	90	94

External Attainment Level

Level 0	< 40	< 40	< 40	< 40	< 40
Level 1	40	40	40	40	40
Level 2	50	50	50	50	50
Level 3	60	60	60	60	60
Internal attainment level of	CO 1	CO2	CO3	CO4	CO5
Total No. of students	2	2	2	2	2
Total Number of Present Students	2	2	2	2	2



No. of students achieved	2	2	2	2	2
Percentage Attainment	100	100	100	100	100
Attainment Level	3	3	3	3	3

Overall Attainment

Level 0	<40	<40	<40	<40	<40
Level 1	40	40	40	40	40
Level 2	50	50	50	50	50
Level 3	>60	>60	>60	>60	>60
Internal attainment level of CO	CO 1	CO 2	CO 3	CO 4	CO 5
Internal attainment of CO	3	3	3	3	3
External attainment of CO	3	3	3	3	3
Overall attainment of CO	3	3	3	3	3

AAER's Asian College of Science and Commerce,

CO Attainment Sheet	Department	Class	Strength of the Class
Course Code	Name of the teacher	Internal Exam.	Year
CH-610	Kajal Gaudhab		2022-23

Sr. No.	Name	CO 1		CO 2		CO 3		CO 4		CO 5	
		15	35	15	35	15	35	15	35	15	35
1	Chetan Katkar	13	31	14	31	14	33	13	29	14	34
2	Pradyumna Kulkarni	14	33	11	33	13	32	11	27	13	32
	Average	14	32	13	32	13.5	33	12	28	13.5	33
	Percentage	90	91	83	91	90	93	80	80	90	94.3

Co-Ordinator

Internal Quality Assurance Cell
AAER'S Asian College of Science & Commerce

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(Near Alfred College)**Criterion 2 – Teaching-Learning and Evaluation****Key Indicator: 2.6: Student Performance and Learning Outcomes****Metric No. - 2.6.2: Attainment of POs and COs are evaluated.**
**CO-PO Attainment of B.Sc.
Department of Science**

Academic Year	2022-23
Class	T. Y. B.Sc.
Semester	Semester VI (CBCS Pattern 2019)
Course	Analytical Chemistry-II
Teacher	Nilesh Tapkir
Strength of Class	2

Course Completion after completion of this course

CO1	Identify important parameters in analytical processes or estimations. Example: minimum analyte concentration in particular method, reagent concentration for particular analysis, reagent for particular analysis, reaction condition to convert analyte into measurable form.
CO2	Define basic terms in solvent extraction, basics of chromatography, HPLC, GC, and AAS and AES. Some important terms are: solvent extraction, aqueous and organic phase, distribution ratio, coefficient, solute remain unextracted, percent extraction, ion association complex.
CO3	Explain different principles involved in the analyses using solvent extraction, basics of instrumental chromatography, HPLC, GC, and atomic spectroscopic techniques.
CO4	Perform quantitative calculations depending upon equations students has studied in the theory. Furthermore, student should able to solve problems on the basis of theory.

Assessment Tool

Course Outcome	Internal		University
	Test	Assignment	End Semester Examination
CO1	Internal Exam	Assignment	End Semester Examination
CO2	Internal Exam	Assignment	End Semester Examination
CO3	Internal Exam	Assignment	End Semester Examination
CO4	Internal Exam	Assignment	End Semester Examination
% target of CO Attainment by Student	40%	40%	40%

Marks Scored by Student

Course Outcome (CO)	% Average of individual Target of all Tools	
	Internal	External/University
CO1	80	87
CO2	90	96
CO3	77	80
CO4	83	91

External Attainment Level

Level 0	< 40	< 40	< 40	< 40
Level 1	40	40	40	40
Level 2	50	50	50	50
Level 3	60	60	60	60
Internal attainment level of	CO1	CO2	CO3	CO4
Total No. of students	2	2	2	2
Total Number of Present Students	2	2	2	2
No. of students achieved	2	2	2	2
Percentage Attainment	100	100	100	100



Attainment Level	3	3	3	3
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Overall Attainment

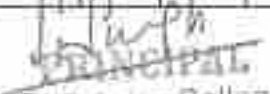
Level 0	<40	<40	<40	<40
Level 1	40	40	40	40
Level 2	50	50	50	50
Level 3	>60	>60	>60	>60
Internal attainment level of CO	CO 1	CO 2	CO 3	CO 4
Internal attainment of CO	3	3	3	3
External attainment of CO	3	3	3	3
Overall attainment of CO	3	3	3	3

AAER's Asian College of Science and Commerce,

CO Attainment Sheet	Department	Class	Strength of the Class
Course Code	Name of the teacher	Internal Exam.	Year
CH-611	Nilesh Tapkir		2022-23

Sr. No.	Name	CO 1		CO 2		CO 3		CO 4		CO 5	
		15	35	15	35	15	35	15	35	15	35
1	Chetan Katkar	11	29	14	33	13	27	11	31	12	29
2	Pradyumna Kulkarni	13	32	13	34	10	29	14	33	10	27
	Average	12	30.5	13.5	33.5	11.5	28	13	32	11	28
	Percentage	80	87.1	90	95.7	76.7	80	83	91	73	80


 Co-Ordinator,
 Internal Quality Assurance Cell
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Estd - 2007

Criterion 2 – Teaching-Learning and Evaluation

Key Indicator: 2.6: Student Performance and Learning Outcomes

Metric No. - 2.6.2: Attainment of POs and COs are evaluated.

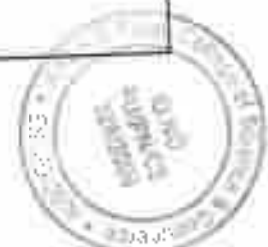
CO-PO Attainment of B.Sc.

Department of Science

Academic Year	2022-23
Class	F. Y. B.Sc.
Semester	Semester II (CBCS Pattern 2019)
Course	Inorganic Chemistry
Teacher	Sadhana Salekar
Strength of Class	12

Course Completion after completion of this course

CO1	Various theories and principles applied to reveal atomic structure Origin of quantum mechanics and its need to understand structure of hydrogen atom Schrodinger equation for hydrogen atom Radial and angular part of hydrogenic wave functions Significance of quantum numbers Shapes of orbitals
CO2	Explain rules for filling electrons in various orbitals- Aufbau's principle, Pauli exclusion principle, Hund's rule of maximum multiplicity Discuss electronic configuration of an atom and anomalous electronic configurations. Describe stability of half-filled and completely filled orbitals. Discuss concept of exchange energy and relative energies of atomic orbitals Design Skeleton of long form of periodic table.
CO3	Attainment of stable electronic configurations. Define various types of chemical bonds- ionic, covalent, coordinate and metallic bond Explain characteristics of ionic bond, types of ions, energy consideration in ionic bonding, lattice, solvation energy and their importance in the context of stability and solubility of ionic compounds Summarize Born-Landé equation and Born-Haber cycle, Define Fajan's rule, bond moment, dipole moment and percent ionic character



Assessment Tool

Course Outcome CO	Internal		University
	Test	Assignment	End Semester Examination
CO1	Internal Exam	Assignment	End Semester Examination
CO2	Internal Exam	Assignment	End Semester Examination
CO3	Internal Exam	Assignment	End Semester Examination
% target of CO		40%	40%

External Attainment Level

Level 0	< 40	< 40	< 40
Level 1	40	40	40
Level 2	50	50	50
Level 3	60	60	60
Internal attainment	CO1	CO2	CO3
Total No. of students	12	12	12
Total Number of	12	12	12
No. of students	12	12	12
Percentage Attainment	100	100	100
Attainment Level	3	3	3

Overall Attainment

Level 0	<40	<40	<40
Level 1	40	40	40
Level 2	50	50	50
Level 3	>60	>60	>60
Internal attainment level of CO	CO 1	CO 2	CO 3
Internal attainment of CO	3	3	3
External attainment of CO	3	3	3
Overall attainment of CO	3	3	3

AAER's Asian College of Science and Commerce,



CO Attainment Sheet	Department	Class	Strength of the Class
Course Code	Name of the teacher	Internal Exam.	Year
CH-201	Sadhana Salekar		2022-23

Sr. No.	Name	CO 1		CO 2		CO 3	
		15	35	15	35	15	35
1	Anjali Sanjay Patil	13	30	11	30	10	28
2	Akshada Pranod Vanshiv	11	32	13	31	11	31
3	Ruksar Shaikh	10	28	14	28	13	28
4	Shraddha Rawal	12	29	12	27	12	32
5	Shrutika Bomle	12	28	18	34	10	31
6	Sakshi Tanaji Nalawade	10	31	14	29	13	30
7	Saiil Dengaie	12	32	10	28	10	27
8	Pranav Sadamate	14	27	12	31	11	31
9	Nisha Suryawanshi	11	29	10	30	11	28
10	Vaishnavi More	12	31	13	33	12	30
11	Gaurav Sonar	14	33	11	19	10	32
12	Ajinkya Zunjar	11	29	12	30	13	31
	Average	11.8333	29.9167	12.5	29.17	11.3	29.9
	Percentage	78.8889	85.4762	83.3333	83.33	75.6	85.5

Prage

Co-Ordinator

Internal Quality Assurance Cell
AAER'S Asian College of Science & Commerce



S. Singh

PRINCIPAL

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Criterion 2 – Teaching-Learning and Evaluation

Key Indicator: 2.6: Student Performance and Learning Outcomes

Metric No. - 2.6.2: Attainment of POs and COs are evaluated.

CO-PO Attainment of B.Sc.

Department of Science

Academic Year	2022-23
Class	F. Y. B.Sc.
Semester	Semester II (CBCS Pattern 2019)
Course	Analytical Chemistry
Teacher	Kajal Gaudhab
Strength of Class	12

Course Completion after completion of this course

CO1	Analytical Chemistry –branch of chemistry Perspectives of analytical Chemistry analytical problems
CO2	Calculations of mole, molar concentrations and various units of concentrations which will be helpful for preparation of solution Relation between molecular formula and empirical formula Stoichiometric calculation Define term mole, millimole, molar concentration, molar equilibrium concentration and Percent Concentration. SI units, distinction between mass and weight Units such as parts per million, parts per billion, parts per thousand, solution-dilutant volume ratio, function density and specific gravity of solutions.
CO3	Basics of type determination, characteristic tests and classifications, reactions of different functional groups. Separation of binary mixtures and analysis Elemental analysis -Detection of nitrogen, sulfur, halogen and phosphorous by Lassaigne's test. Purification techniques for organic compounds.
CO4	Basics of chromatography and types of chromatography Theoretical background for Paper and Thin Layer Chromatography
CO5	pH meter and electrodes for pH measurement Measurement of pH. Working of pH meter Applications of pH meter



Assessment Tool

Course Outcome CO	Internal		University
	Test	Assignment	End Semester Examination
CO1	Internal Exam	Assignment	End Semester Examination
CO2	Internal Exam	Assignment	End Semester Examination
CO3	Internal Exam	Assignment	End Semester Examination
CO4	Internal Exam	Assignment	End Semester Examination
CO5	Internal Exam	Assignment	End Semester Examination
% target of CO Attainment by	40%	40%	40%

Marks Scored by Student

Course Outcome	% Average of individual Target of all Tools	
	Internal	External/University
CO1	77	86
CO2	79	83
CO3	79	85
CO4	79	86
CO5	79	85

External Attainment Level

Level 0	< 40	< 40	< 40	< 40	< 40
Level 1	40	40	40	40	40
Level 2	50	50	50	50	50
Level 3	60	60	60	60	60
Internal attainment level of	CO1	CO2	CO3	CO4	CO5
Total No. of students	12	12	12	12	12
Total Number of Present Students	12	12	12	12	12
No. of students achieved	12	12	12	12	12



Percentage Attainment	100	100	100	100	100
Attainment Level	3	3	3	3	3

Overall Attainment

Level 0	<40	<40	<40	<40	<40
Level 1	40	40	40	40	40
Level 2	50	50	50	50	50
Level 3	>60	>60	>60	>60	>60
Internal attainment level of CO	CO1	CO2	CO 3	CO4	CO 5
Internal attainment of CO	3	3	3	3	3
External attainment of CO	3	3	3	3	3
Overall attainment of CO	3	3	3	3	3

AAER's Asian College of Science and Commerce,

CO Attainment Sheet	Department	Class	Strength of the Class
Course Code	Name of the teacher	Internal Exam.	Year
CH-202	Kajal Gaudhab		2022-23

Sr. No.	Name	CO 1		CO 2		CO 3		CO 4		CO 5	
		15	35	15	35	15	35	15	35	15	35
1	Anjali Sanjay Patil	10	29	11	30	14	31	13	31	14	29
2	Akshada Pramod Vanshiv	11	31	13	31	11	32	11	31	12	27
3	Ruksar Shaikh	14	28	12	28	13	30	12	28	10	32
4	Shraddha Rawal	12	32	11	27	12	29	11	32	13	28
5	Shrutika Bomele	10	31	12	34	10	27	11	29	12	29



6	Sakshi Tanaji Natawade	13	30	14	29	12	29	10	30	12	30
7	Sahil Dengale	10	28	10	28	11	30	12	29	11	32
8	Pranav Sadamate	11	31	12	31	11	32	14	31	12	30
9	Nisha Suryawanshi	11	28	11	30	12	27	13	30	11	28
10	Vaishnavi More	12	30	13	33	12	31	13	28	13	30
11	Gaurav Sonar	11	32	10	19	11	29	11	31	13	31
12	Ajinkya Zunjar	13	31	13	30	13	30	12	31	10	29
	Average	11.5	30.1	11.8	29.2	11.83	29.8	11.92	30.08	11.9	30
	Percentage	76.7	86	78.9	83.3	78.89	85	79.44	85.95	79.4	85

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Co-Ordinator
Internal Quality Assurance Cell
AAER'S Asian College of Science & Commerce



S. Singh

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Dhayari, Pune-411 041