#### Navgan Shikshan Sanstha Rajuri (N)



# Mrs. Kesharbai Sonajirao Kshirsagar Alias Kaku Arts, Science & Commerce College, Beed-431122







**Secretary** Dr. B. S. Kshirsagar

**Principal** Dr. S.V. Kshirsagar

NAAC reaccredited - A Grade ISO- 21001:2018

[ 3.18 CGPA as per New RAF]

Website -kskcollegebeed.com E-mail-kskbeed123@rediffmail.com Ph. (02442)222641 Fax-(02442)230197



Criterion II: Teaching Learning Evaluation

### 2.3: Teaching-Learning Process

2.3.1: Student centric methods, such as experiential learning, participative learning and problem-solving methodologies are used for enhancing learning experiences and teachers use ICT- enabled tools including online resources for effective teaching and learning process

# **Experiential learning**

Sr. No	Particulars
1.	Practical Time Table
2.	Syllabus of Laboratory Courses
3.	Learning through Project Work
4.	Learning through Laboratory Practical's



# NSSR'S Mrs. K.S.K. Alias Kaku College, Beed Academic Year-2022-23 B. Sc. I Year Batches and subject combination

Batch No. Subject combination		Batch No. Subject combination		No. of students
F-1 ·	Physics, Chemistry, Math	01-18		
F-2	Physics, Chemistry, Math	19-37		
F-3	Physics, Chemistry, Computer Sci.	All (01-24)		
F-4	Chemistry, Botany, Zoology	01-25		
F-5	Chemistry, Botany, Zoology	26-50		
F-6	Chemistry, Botany, Microbiology	01-19		
F-7	Chemistry, Botany, Microbiology 20-3			
F-8 Chemistry, Zoology, Microbiology		01-26		
F-9 Chemistry, Zoology, Microbiology		27-52		
F-10	Math, Physics, Computer science	All (01-20)		

Principal Principal Mrs.K.S.K.Alias Kaku Arts, Science & Commerce College Beed-431122



# NSSR'S Mrs. K.S.K. Alias Kaku College, Beed Academic Year-2022-23 B.Sc. II Year Batches and subject combination

Batch No.	Subject combination	No. of students
S-1	Physics, Chemistry, Math	01-15
S-2	Physics, Chemistry, Math	16-30
S-3	Physics, Chemistry, Computer Sci.	All (01-17)
S-4	Chemistry, Botany, Zoology	01-18
S-5	Chemistry, Botany, Zoology	19-36
S-6	Chemistry, Botany, Microbiology	All (01-10)
S-7	Chemistry, Zoology, Microbiology	` 01-19
S-8	Chemistry, Zoology, Microbiology	20-38
S-9	Math, Physics, Computer science	All (01-20)

Principal
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# NSSR'S Mrs. K.S.K. Alias Kaku College, Beed Academic Year-2022-23 B.Sc. III Year Batches and subject combination

Batch No.	Subject combination	No. of students
T-1	Physics, Chemistry, Math	01-13
T-2	Physics, Chemistry, Computer Sci.	All-(01-13)
T-3	Chemistry, Botany, Zoology	01-18
T-4	Chemistry, Botany, Zoology	19-36
T-5	Chemistry, Botany, Microbiology	All (01-13)
T-6	Chemistry, Zoology, Microbiology	01-20
T-7	Chemistry, Zoology, Microbiology 21-	
T-8	Math, Physics, Computer science	All –(01-12)

Principal
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# NSSR'S Mrs. K.S.K. Alias Kaku College, Beed Practical Time Table Academic Year-2022-23 B. Sc. I Year

Time/Day	01.20 To 03.50	03.50 To 06.20
Monday	Chemistry-F7	Chemistry –F4
	Physics-F3	Physics-F10
	Microbiology-F6	Microbiology-F8
Tuesday	Chemistry- F5	Chemistry- F6
	Physics-F1	Physics-F2
	Microbiology-F7	Microbiology-F9
Wednesday	Chemistry F2	Chemistry-F9
	Botany-F4	Botany-F5
Thursday	Chemistry- F3	Chemistry- F8
	Botany-F6	Botany-F7
Friday	Zoology-F8	Zoology-F9
70/Bis	Chemistry- F1	
	Computer Sci-F3	
Saturday	Zoology-F4	Zoology-F5
	Computer Sci-F10	

Principal
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# NSSR'S Mrs. K.S.K. Alias Kaku College, Beed Practical Time Table Academic Year-2022-23 B.Sc. II Year

Time/Day	01.20 To 03.50	03.50 To 06.20
Monday	Chemistry-S1+S2	Chemistry – S7+S8
	Botany-S4+S5	Botany-S6
	Computer sci S3+S9	
Tuesday	Chemistry-S1+S2	Chemistry – S7+S8
	Botany-S4+S5	Botany-S6
	Computer sci S3+S9	
Wednesday	Zoology-S5+S7	Zoology-S4+S8
	Physics-S1+S9	Physics-S2+S3
	Chemistry-S6	
Thursday	Zoology-S5+S7	Zoology-S4+S8
	Physics-S1+S9	Physics-S2+S3
	Chemistry-S6	
Friday	Chemistry- S4+S5	Chemistry- S3
	Microbiology – S7+S8	Microbiology – S6
Saturday	Chemistry- S4+S5	Chemistry- S3
	Microbiology – S7+S8	Microbiology – S6

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## NSSR'S Mrs. K.S.K. Alias Kaku College, Beed Practical Time Table Academic Year-2022-23 B.Sc. III Year

Time/Day	. 01.20 То 03.50	03.50 To 06.20
Monday	Chemistry-T1+T5	Chemistry –T2+ T8
	Zoology-T3+T4	Zoology-T6+T7
Tuesday	Chemistry-T1+T5	Chemistry –T2+ T8
	Zoology-T3+T4	Zoology-T6+T7
Wednesday	Chemistry-T4	Chemistry- T3
	Microbiology-T6+T5	Microbiology-T7
•	Computer Sci. –T2+T8	
Thursday	Chemistry-T4	Chemistry- T3
	Microbiology-T6+T5	Microbiology-T7
	Computer Sci. –T2+T8	
Friday	Physics-T1+T2	Physics-T8
	Botany –T3+T5	Botany-T4
	Chemistry-T7	Chemistry-T6
Saturday	Physics-T1+T2	Physics-T8
	Botany –T3+T5	Botany-T4
	Chemistry-T7	Chemistry-T6





### NSSR'S Mrs. K.S.K. Alias Kaku College, Beed Academic Year-2021-22 B.Sc. I Year Batches and subject combination

Batch No.	Subject combination	No. of students
F-1	Physics, Chemistry, Math	01-15
F-2	Physics, Chemistry, Math	16-30
F-3	Physics, Chemistry, Computer Sci.	All (01-28)
F-4	Chemistry, Botany, Zoology	01-20
F-5	Chemistry, Botany, Zoology	21-40
F-6	Chemistry, Botany, Zoology	41-56
F-7	Chemistry, Botany, Microbiology	All (01-20)
F-8	Chemistry, Zoology, Microbiology	01-20
F-9	Chemistry, Zoology, Microbiology	21-40
F-10	Chemistry, Zoology, Microbiology	41-62
F-11	Math, Physics, Computer science	All (01-10)

अभी और आवी.

Principal Principal

N.S.S.R.(N.) Mrs.Kesharbai Sonajirao Kshirsagar Alias Kaku Arts, Science at 1 Commerce



## NSSR'S Mrs. K.S.K. Alias Kaku College, Beed Academic Year-2021-22 B.Sc. II Year Batches and subject combination

Batch No.	Subject combination	No. of students
S-1	Physics, Chemistry, Math	01-20
S-2	Physics, Chemistry, Math	21-38
S-3	Physics, Chemistry, Computer Sci.	All (01-13)
S-4	Chemistry, Botany, Zoology	01-26
S-5	Chemistry, Botany, Zoology	27-52
S-6	Chemistry, Botany, Microbiology	All (01-23)
S-7	Chemistry, Zoology, Microbiology	01-18
S-8	Chemistry, Zoology, Microbiology	19-35
S-9	Math, Physics, Computer science	All (01-15)

सूचगा: स्परील प्रात्मिक कान्या मैचेर्र तात्परत्या स्वर्पात शहीत कर्णात आहेल्या आहेत् विद्याओं प्रवशाची अंतिम शही हाती खाल्यानी र यामकी आवश्यक ते व्यक् होन् राक्तात. याची नाँद ह्यावी.

Principal

Principal
N.S.S.R.(N.) Mrs.Kesharbai
Sonajirao Kshirsagar Alias Kaku
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### NSSR'S Mrs. K.S.K. Alias Kaku College, Beed Academic Year-2021-22 B.Sc. III Year Batches and subject combination

Batch No. Subject combination		No. of students
T-1	Physics, Chemistry, Math	01-20.
T-2	Physics, Chemistry, Math	21-41
T-3	Physics, Chemistry, Computer Sci.	All-(01-15)
T-4	Chemistry, Botany, Zoology	01-22
T-5	Chemistry, Botany, Zoology 23-44	
T-6	Chemistry, Botany, Microbiology All students(01	
T-7	Chemistry, Zoology, Microbiology All -(01-2	
T-8	Math, Physics, Computer science	All –(01-11)

चित्रा : दम्हील प्रायिषिक कार्निया बैचेद्रम तातुर्या स्वद्रमान अधीर करल्यार आहेल्या आहेत. विद्यार्थी प्रकेशनी अधिन अदी हार्री आल्यानीत्र यामन्ये आवश्यक ते व्यक्त रीव शक्तार, यानी जाँद ज्यावी.

Principal Principal

N.S.S.R.(N.) Mrs.Kesharbai Sonajirao Kshirsagar Alias Kaku Arts, Science and Commerce College, Beed.



# NSSR'S Mrs. K.S.K. Alias Kaku College, Beed Practical Time Table Academic Year-2021-22 B. Sc. I Year

Time/Day	01.20 To 03.50	03.50 To 06.20
Monday	Chemistry-F1	Chemistry – F2
	Physics-F3	Physics-F11
,	Microbiology-F7	Microbiology-F8
Tuesday	Chemistry- F3	Chemistry- F4
	Physics-F1	Physics-F2
	Microbiology-F9	Microbiology-F10
Wednesday	Chemistry F6	Chemistry- F7
	Botany-F4	Botany-F5
Thursday	Chemistry- F5	Chemistry- F8
	Botany-F6	Botany-F7
	Zoology-F9	Zoology-F10
Friday	Chemistry-F9	Chemistry-F10
	Zoology-F7	Zoology-F8
	Computer Sci-F3	200
Saturday	Zoology-F4	Zoology-F5
	Computer Sci-F11	

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### NSSR'S Mrs. K.S.K. Alias Kaku College, Beed Practical Time Table Academic Year-2021-22 B.Sc. II Year

Time/Day	01.20 To 03.50	03.50 To 06.20
Monday	Chemistry-S1+S2	Chemistry – S7+S8
	Botany-S4+S5	Botany-S6
	Computer sci S3+S9	
Tuesday	Chemistry-S1+S2	Chemistry – S7+S8
	Botany-S4+S5	Botany-S6
	Computer sci S3+S9	
Wednesday	Zoology-S5+S7	Zoology-S4+S8
	Physics-S1+S9	Physics-S2+S3
	Chemistry-S6	
Thursday	Zoology-S5+S7	Zoology-S4+S8
	Physics-S1+S9	Physics-S2+S3
	Chemistry-S6	
Friday	Chemistry- S4+S5	Chemistry- S3
	Microbiology – S7+S8	Microbiology – S6
Saturday	Chemistry- S4+S5	Chemistry- S3
	Microbiology – S7+S8	Microbiology – S6

Principal
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### NSSR'S Mrs. K.S.K. Alias Kaku College, Beed Practical Time Table Academic Year-2021-22 B.Sc. III Year

Time/Day	01.20 To 03.50	03.50 To 06.20
Monday	Chemistry-T1	Chemistry –T3+ T6
	Zoology-T4	Zoology-T5+T7
Tuesday	Chemistry-T1	Chemistry –T3+ T6
	Zoology-T4	Zoology-T5+T7
Wednesday	Chemistry-T4	Chemistry- T2+T5
	Microbiology-T6	Microbiology-T7
	Computer Sci. –T3+T8	
Thursday	Chemistry-T4	Chemistry- T2+T5
	Microbiology-T6	Microbiology-T7
	Computer Sci. –T3+T8	
Friday	Physics-T1+T8	Physics-T2+T3
	Botany –T4+T6	Botany-T5
	Chemistry-T7	
Saturday	Physics-T1+T8	Physics-T2+T3
	Botany –T4+T6	Botany-T5
	Chemistry-T7	

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## NSSR'S Mrs. K.S.K. Alias Kaku College, Beed Academic Year-2020-21 B.Sc. I Year Batches and subject combination

Batch No.	Subject combination	No. of students
F-1	Physics, Chemistry, Math	01-15
F-2	Physics, Chemistry, Math	16-30
F-3	Physics, Chemistry, Computer Sci.	All (01-28)
F-4	Chemistry, Botany, Zoology	01-20
F-5	Chemistry, Botany, Zoology	21-40
F-6	Chemistry, Botany, Zoology	41-56
F-7	Chemistry, Botany, Microbiology	All (01-20)
F-8	Chemistry, Zoology, microbiology	01-20
F-9	Chemistry, Zoology, microbiology	21-40
F-10	Chemistry, Zoology, microbiology	41-62
F-11	Math, Physics, Computer science	All (01-10)

Principal Principal N.S.S.R.(N.) Mrs.Kesharbai Sonajirao Kshirsagar Alias Kaku Arts, Science and Commerce College, Bead.



# NSSR'S Mrs. K.S.K. Alias Kaku College, Beed Academic Year-2020-21 B.Sc. II Year Batches and subject combination

Batch No.	Subject combination	No. of students
S-1	Physics, Chemistry, Math	01-20
S-2	Physics, Chemistry, Math	21-38
S-3	Physics, Chemistry, Computer Sci.	All (01-13)
S-4	Chemistry, Botany, Zoology	01-26
S-5	Chemistry, Botany, Zoology	27-52
S-6	Chemistry, Botany, Microbiology	All (01-23)
S-7	Chemistry, Zoology, Microbiology	01-18
S-8	Chemistry, Zoology, Microbiology	19-35
S-9	Math, Physics, Computer science	All (01-15)

Principal
Principal
N.S.S.R.(N.) Mrs.Kesharbai
Sonajirao Kshirsagar Alias Kaku
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## NSSR'S Mrs. K.S.K. Alias Kaku College, Beed Academic Year-2020-21 B.Sc. III Year Batches and subject combination

Batch No.	Subject combination	No. of students
T-1	Physics, Chemistry, Math	01-20
T-2	Physics, Chemistry, Math	21-41
T-3	Physics, Chemistry, Computer Sci.	All-(01-15)
T-4	Chemistry, Botany, Zoology	01-22
T-5	Chemistry, Botany, Zoology	23-44
T-6	Chemistry, Botany, Microbiology	All students(01-21)
T-7	Chemistry, Zoology, microbiology	All -(01-26)
T-8	Math, Physics, Computer science	All –(01-11)

Principal
Principal
N.S.S.R.(N.) Mrs.Kesharbai
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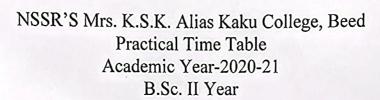


### NSSR'S Mrs. K.S.K. Alias Kaku College, Beed Practical Time Table Academic Year-2020-21 B. Sc. I Year

Time/Day	01.20 To 03.50	03.50 To 06.20	
Monday	Chemistry-F1	Chemistry – F2	
	Physics-F3	Physics-F11	
	Microbiology-F7	Microbiology-F8	
Tuesday	Chemistry- F3	Chemistry- F4	
	Physics-F1	Physics-F2	
	Microbiology-F9	Microbiology-F10	
Wednesday	Chemistry F6	Chemistry- F7	
	Botany-F4	Botany-F5	
Thursday	Chemistry- F5	Chemistry- F8	
	Botany-F6	Botany-F7	
	Zoology-F9	Zoology-F10	
Friday	Chemistry-F9	Chemistry-F10	
	Zoology-F7	Zoology-F8	
	Computer Sci-F3	Merchanismy = 35	
Saturday	Zoology-F4	Zoology-F5	
	Computer Sci-F11	Who was a second	

Principal

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N.S.S.R.(N.) Mrs.Kesharbai
Sonajirao Kshirsagar Alias Kaku
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Time/Day	01.20 To 03.50	03.50 To 06.20
Monday	Chemistry-S1+ S2	Chemistry – S7+S8
	Botany-S4+S5	Botany-S6
	Computer sci S3+S9	
Tuesday	Chemistry-S1+S2	Chemistry – S7+S8
	Botany-S4+S5	Botany-S6
	Computer sci S3+S9	
Wednesday	Zoology-S5+S7	Zoology-S4+S8
	Physics-S1+S9	Physics-S2+S3
	Chemistry-S6	
Thursday	Zoology-S5+S7	Zoology-S4+S8
	Physics-S1+S9	Physics-S2+S3
200000000000000000000000000000000000000	Chemistry-S6	Recurrence
Friday	Chemistry- S4+S5	Chemistry- S3
	Microbiology – S7+S8	Microbiology – S6
Saturday	Chemistry- S4+S5	Chemistry- S3
	Microbiology – S7+S8	Microbiology – S6

Principal Principal N.S.S.R.(N.) Mrs.Kesharbai Sonajirao Kshirsagar Alias Kaku Arts, Science and Commerce Co!lege, Beed.



# NSSR'S Mrs. K.S.K. Alias Kaku College, Beed Practical Time Table Academic Year-2020-21 B.Sc. III Year

Time/Day	01.20 To 03.50	03.50 To 06.20
Monday	Chemistry-T1	Chemistry –T3+ T6
	Zoology-T4	Zoology-T5+T7
Tuesday	Chemistry-T1	Chemistry –T3+ T6
	Zoology-T4	Zoology-T5+T7
Wednesday	Chemistry-T4	Chemistry- T2+T5
	Microbiology-T6	Microbiology-T7
	Computer Sci. –T3+T8	
Thursday	Chemistry-T4	Chemistry- T2+T5
	Microbiology-T6	Microbiology-T7
	Computer Sci. –T3+T8	A STATE OF THE STA
Friday	Physics-T1+T8	Physics-T2+T3
	Botany –T4+T6	Botany-T5
	Chemistry-T7	report to the second of the se
Saturday	Physics-T1+T8	Physics-T2+T3
	Botany –T4+T6	Botany-T5
	Chemistry-T7	

Principal **Principal** 

N.S.S.R.(N.) Mrs.Kesharbai Sonajirao Kshirsagar Alias Kaku Arts, Science and Commerce Co!lege, Beed.



## NSSR'S Mrs. K.S.K. Alias Kaku College, Beed Academic Year-2019-20 B.Sc. I Year Batches and subject combination

Batch No.	Subject combination	No. of students
F-1	Physics, Chemistry, Math	01-25
F-2	Physics, Chemistry, Math	26-49
F-3	Physics, Chemistry, Computer Sci.	All (01-24)
F-4	Chemistry, Botany, Zoology	01-30
F-5	Chemistry, Botany, Zoology	31-61
F-6	Chemistry, Botany, Microbiology	All (01-35)
F-7	Chemistry, Zoology, microbiology	01-24
F-8	Chemistry, Zoology, microbiology	25-47
F-9	Math, Physics, Computer science	All (01-24)

Principal

Principal

N.S.S.R.(N.) Mrs.Kesharbai

Sonajirao Kshirsagar Alias Kaku

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## NSSR'S Mrs. K.S.K. Alias Kaku College, Beed Academic Year-2019-20 B.Sc. II Year Batches and subject combination

Batch No.	Satch No. Subject combination	
S-1	Physics, Chemistry, Math	01-24
S-2	Physics, Chemistry, Math	24-47
S-3	Physics, Chemistry, Computer Sci.	All (01-16)
S-4	Chemistry, Botany, Zoology	01-29
S-5	Chemistry, Botany, Zoology	30-58
S-6	Chemistry, Botany, Microbiology	All (01-26)
S-7	Chemistry, Zoology, Microbiology	All (01-37)
S-8	Math, Physics, Computer science	All (01-10)

Principal
Principal
N.S.S.R.(N.) Mrs.Kesharbai
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# NSSR'S Mrs. K.S.K. Alias Kaku College, Beed Academic Year-2019-20 B.Sc. III Year Batches and subject combination

Batch No.	atch No. Subject combination	
T-1	Physics, Chemistry, Math	01-26
T-2	Physics, Chemistry, Math	27-53
T-3	Physics, Chemistry, Computer Sci.	All-(01-13)
T-4	Chemistry, Botany, Zoology	01-22
T-5	Chemistry, Botany, Zoology	23-44
T-6	Chemistry, Botany, Microbiology	All -(01-12)
T-7	Chemistry, Zoology, microbiology	All -(01-29)
T-8	Math, Physics, Computer science	All -(01-11)

Principal
Principal
N.S.S.R.(N.) Mrs.Kesharbai
Sonajirao Kshirsagar Alias Kaku
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# NSSR'S Mrs. K.S.K. Alias Kaku College, Beed Practical Time Table Academic Year-2019-20 B. Sc. I Year

01.20 To 03.50	03.50 To 06.20	
Chemistry-F1	Chemistry – F2	
Physics-F3	Physics-F9	•
Microbiology-F6	Microbiology-F7	
Chemistry- F3	Chemistry- F4	
Physics-F1	Physics-F2	
Microbiology-F-8		
Chemistry F6	Chemistry- F7	TO ARE HORSE
Botany-F4	Botany-F5	
Chemistry- F5	Chemistry- F8	
Botany-F6		
Zoology-F7	Zoology-F8	
Computer Sci-F3		
Zoology-F4	Zoology-F5	1
Computer Sci-F9		
	Chemistry-F1 Physics-F3 Microbiology-F6 Chemistry- F3 Physics-F1 Microbiology-F-8 Chemistry F6 Botany-F4 Chemistry- F5 Botany-F6 Zoology-F7 Computer Sci-F3 Zoology-F4	Chemistry-F1 Physics-F3 Microbiology-F6 Microbiology-F7 Chemistry-F3 Physics-F1 Physics-F1 Physics-F1 Physics-F2 Microbiology-F-8 Chemistry F6 Chemistry F6 Botany-F4 Chemistry-F5 Botany-F5 Chemistry-F5 Botany-F6 Zoology-F7 Computer Sci-F3 Zoology-F4 Zoology-F5 Chemistry-F5 Zoology-F5 Zoology-F5

Principal
Principal
N.S.S.R.(N.) Mrs.Kesharbai
Sonajirao Kshirsagar Alias Kaku Arts, Science and Commerce College, Beed.

## NSSR'S Mrs. K.S.K. Alias Kaku College, Beed Practical Time Table Academic Year-2019-20 B.Sc. II Year



Time/Day	01.20 To 03.50	03.50 To 06.20
Monday	Chemistry-S1+S2	Chemistry – S7
	Botany-S4+S5	Botany-S6
	Computer sci S3+S8	
Tuesday	Chemistry-S1+S2	Chemistry – S7
	Botany-S4+S5	Botany-S6
	Computer sci S3+S8	
Wednesday	Zoology-S5+S7	Zoology-S4
	Physics-S1+S8	Physics-S2+S3
	Chemistry-S6	
Thursday	Zoology-S5+S7	Zoology-S4
	Physics-S1+S8	Physics-S2+S3
	Chemistry-S6	
Friday	Chemistry- S4+S5	Chemistry- S3
_	Microbiology – S7	Microbiology – S6
Saturday	Chemistry- S4+S5	Chemistry- S3
,	Microbiology – S7	Microbiology – S6

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Principal **Principal** N.S.S.R.(N.) Mrs.Keshar

N.S.S.R.(N.) Mrs.Kesharbai Sonajirao Kshirsagar Alias Kaku Arts, Science and Commerce College, Beed.



# NSSR'S Mrs. K.S.K. Alias Kaku College, Beed Practical Time Table Academic Year-2019-20 B.Sc. III Year

Time/Day	01.20 To 03.50	03.50 To 06.20
Monday	Chemistry-T1	Chemistry –T3+ T6
	Zoology-T4	Zoology-T5+T7
Tuesday	Chemistry-T1	Chemistry –T3+ T6
	Zoology-T4	Zoology-T5+T7
Wednesday	Chemistry-T4	Chemistry- T2+T5
	Microbiology-T6	Microbiology-T7
	Computer Sci. –T3+T8	
Thursday	Chemistry-T4	Chemistry- T2+T5
	Microbiology-T6	Microbiology-T7
	Computer Sci. –T3+T8	
Friday	Physics-T1+T8	Physics-T2+T3
	Botany –T4+T6	Botany-T5
	Chemistry-T7	
Saturday	Physics-T1+T8	Physics-T2+T3
	Botany –T4+T6	Botany-T5
	Chemistry-T7	

Principal
Principal
N.S.S.R.(N.) Mrs.Kesharbai
Sonajirao Kshirsagar Alias Kaku
Arts, Science and Commerce
Cc!lege, Beed.



### NSSR'S Mrs. K.S.K. Alias Kaku Arts, Commerce& Science College, Beed Academic Year-2018-19 B.Sc. I Year Batches and subject combination

Batch No.	Subject combination	No. Of students
F-1	Physics, Chemistry, Math \	01-28
F-2	Physics, Chemistry, Math 29-57	
F-3	Physics, Chemistry, Computer Sci.	All (12)
F-4	Chemistry, Botany, Zoology	01-28
F-5	Chemistry, Botany, Zoology	29-56
F-6	Chemistry, Botany, Zoology	57-83
F-7	Chemistry, Botany, Microbiology	01-20
F-8	Chemistry, Botany, Microbiology	21-41
F-9	Chemistry, Zoology, Microbiology	01-22
F-10	Chemistry, Zoology, Microbiology	23-45

Math, Physics, Computer science

F-11

Principal Principal

Nil

N.S.S.R.(N.) Mrs.Kesharbai Sonajirao Kshirsagar Alias Kaku Arts, Science and Commerce College, Beed.



## NSSR'S Mrs. K.S.K. Alias KakuArts, Commerce & Science College, Beed Academic Year-2018-19 B.Sc. II Year Batches and subject combination

Batch No.	Subject combination	No. Of students
S-1	Physics, Chemistry, Math	01-27
S-2	Physics, Chemistry, Math	28-55
S-3	Physics, Chemistry, Computer Sci.	All (14)
S-4	Chemistry, Botany, Zoology	01-23
S-5	Chemistry, Botany, Zoology	24- 46
S-6	Chemistry, Botany, Microbiology	All (11)
S-7	Chemistry, Zoology, microbiology	All (31)
S-8	Math, Physics, Computer science	All (11)

Phincipaul

N.S.S.R.(N.) Mrs.Kesharbai Sonajirao Kshirsagar Alias Kaku Arts, Science and Commerce College, Beed.



# NSSR'S Mrs. K.S.K. Alias Kaku Arts, Commerce& Science College, Beed Academic Year-2018-19 B.Sc. III Year Batches and subject combination

Batch No.	Subject combination	No. Of students
T-1	Physics, Chemistry, Math	01-20
T-2	Physics, Chemistry, Math	21-37
T-3	Physics, Chemistry, Computer Sci.	All (06)
T-4	Chemistry, Botany, Zoology	01-20
T-5	Chemistry, Botany, Zoology	21-41
T-6	Chemistry, Botany, Microbiology	All (14)
T-7	Chemistry, Zoology, microbiology	All (28)
T-8	Math, Physics, Computer science	All (05)

Principal I

N.S.S.R.(N.) Mrs.Kesharbai

Sonajirao Kshirsagar Alias Kaku

Arts, Science and Commerce

Cc'lege, Beed.



# NSSR'S Mrs. K.S.K. Alias KakuArts,Commerce& Science College, Beed Practical Time Table Academic Year-2018-19 B.Sc. I Year

Time/Day	01.20 To 03.50	03.50 To 06.20
Monday	Chemistry-F5	Chemistry - f6
	Zoology- F10	Zoology- F9
	Physics-F3	Physics-F11
Tuesday	Chemistry- F4	Chemistry-F7
	Zoology -F5	Zoology- F6
	Physics -F1	Physics-F2
Wednesday	Chemistry F3	Chemistry- F2
	Microbiology-F8	Botany-F5
	Botany- F6	Microbiology-F10
	Zoology-F4	
Thursday	Chemistry- F1	Microbiology-F9
	Microbiology- F7	Chemistry-F10
	Botany- F4	Botany-F8
Friday	Chemistry- F8	Philippine results
	Botany-F7	
	Computer sci F11	
Saturday	Chemistry-F9	
	Computer sci F3	

Principal
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N.S.S.R.(N.) Mrs.Kesharbai
Sonajirao Kshirsagar Alias Kaku
Arts, Science and Commerce
College, Beed.



# NSSR'S Mrs. K.S.K. Alias KakuArts, Commerce & Science College, Beed Practical Time Table Academic Year-2018-19 B.Sc. II Year

Time/Day	01.20 To 03.50	03.50 To 06.20
Monday	Chemistry –S1+S4	Chemistry-S5
Paris III	Microbiology- S7	Microbiology-S6
	Computer sci S3	Computer sci S8
Tuesday	Chemistry –S1+S4	Chemistry-S5
	Microbiology- S7	Microbiology-S6
	Computer sci S3	Computer sci S8
Wednesday	Zoology- S5+S7	Zoology -S4
	Physics- S1+S8	Physics – S2+S3
	Chemistry- S6	Zoologic 15 c 17
Thursday	Zoology- S5+S7	Zoology -S4
Same	Physics- S1+S8	Physics – S2+S3
	Chemistry- S6	7. sleep Tyeff
Friday	Chemistry-S2+S3	Chemistry –S7
	Botany-S5+S6	Botany-S4
Saturday	Chemistry-S2+S3	Chemistry –S7
	Botany-S5+S6	Botany-S4

Principal

N.S.S.R.(N.) Mrs.Kesharbai

Sonajirao Kshirsagar Alias Kaku

Arts, Science and Commerce

Co!lege, Beed.



### NSSR'S Mrs. K.S.K. Alias KakuArts, Commerce & Science College, Beed Practical Time Table Academic Year-2018-19 B.Sc. III Year

Time/Day	01.20 To 03.50	03.50 To 06.20
Monday	Chemistry-T1	Chemistry – T3+T7
	Botany-T4	Botany-T5+T6
Tuesday	Chemistry-T1	Chemistry – T3+T7
	Botany-T4	Botany-T5+T6
Wednesday	Chemistry-T4+T6	Chemistry-T2+T5
	Comp- Sci-T3	Comp-Sci-T8
Thursday	Chemistry-T4+T6	Chemistry-T2+T5
	Comp- Sci-T3	Comp-Sci-T8
Friday	Physics-T1+T8	Physics- T2+T3
	Zoology-T4	Zoology-T5+T7
	Microbiology- T7	Microbiology-T6
Saturday	Physics-T1+T8	Physics- T2+T3
	Zoology-T4	Zoology-T5+T7
	Microbiology-T7	Microbiology-T6

Principal

Principal
N.S.S.R.(N.) Mrs.Kesharbai
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Arts, Science and Commerce
Co!lege, Beed.

#### B. Sc. First Semester Credit: 02

#### **Zoo-103**

#### Paper-III PRACTICAL

#### PROTOZOA TO ECHINODERMATA & Cell Biology

- 1.**Study of animals belonging to** Protozoa, Porifera, Cnidaria, Ctenophora, Platyhelminthes, Aschelminthes and Annelida with special reference to systematic position up to class level, habit, habitat, characteristic features and economic importance (one example of each class and Local examples are to be given more emphasis) with the help of Museum specimens, models, charts, Microslides, Photographs and Digital sources.
- 2. **Study of animals belonging to** Onychophora, Arthropoda, Mollusca, Echinodermata with special reference to systematic position up to class level, habit, habitat, characteristic features and economic importance. (one example of each class and Local examples are to be given more emphasis) with the help of Museum specimens, Models, Charts, Microslides, Photographs and Digital sources.
- 3. Method of protozoan culture (Any one)
- 4. Identification of Protozoan's and Coelenterates in pond water sample
- 5. Temporary mounting of:-
  - Gemules and Spicules of sycon
  - Obelia colony
  - Parapodium of Neries
- 6. Study of diversity of mouth parts in insect:- Mosquito, Housefly, Honey bee, Cockroach, Butterfly
- 7. Digestive and Nervous system of Earthworm (Museum specimen/Charts/digital sources)
- 8. Digestive system of Cockroach (Museum specimen/digital sources)
- 9. Study of Prokaryotic cells Grams staining technique
- 10. Study of Eukaryotic cells using suitable staining technique (Buccal epithelial cells)
- 11. Study of cytoplasmic movements in paramecium
- 12. Localization of Mitochondria by Janus Green stain
- 13. Study of cancer cells through permanent slides
- 14. Study of cell organelles through electron micrographs/charts
- 15. Study of Mitosis using suitable material /Meiosis using permanent slides.

Note: Demonstration of animal dissections through Computer Aided

#### B. Sc. Second Semester Course Code - ZOL- 106 Zoology Paper: VI

# DIVERSITY OF CHORDATA-II Based on Protochordata to Mammals&Genetics

# PRACTICALS Credits 02

- 1. **Protochordata:** Study of specimens: *Balanoglossus, Herdmania, Branchiostoma, Salpa, Doliolum, Oikopleura, Botryllus*
- 2. Agnatha: Study of specimens: Petromyzon, Myxine
- 3. **Fishes:**Study of specimens: *Scoliodon, Sphyrna, Pristis, Torpedo, Chimaera, Mystus, Heteropneustes, Labeo, Exocoetus, Echeneis, Anguilla, Hippocampus, Tetrodon/Diodon, Anabas, Cyannoglossus.*
- 4. **Amphibia:**Study of specimens: *Ichthyophis/Ureotyphlus, Necturus, Bufo, Hyla, Alytes, Salamandra*
- 5. **Reptilia:**Study of specimens: *Chelone, Trionyx, Hemidactylus, Varanus, Uromastix, Chamaeleon, Ophiosaurus, Draco, Bungarus, Vipera, Naja, Hydrophis, Zamenis, Crocodylus.* Key for Identification of poisonous and non-poisonous snakes
- 6. Aves: Study of six common birds from different orders. Types of beaks and claws
- 7. **Mammalia:** *Sorex*, Bat (Insectivorous and Frugivorous), *Funambulus, Loris, Herpestes, Erinaceus*.
- 8. Visit to Zoological survey of India/ Museum/National Park.
- 9. Observation of common mutants of drosophila
- 10. Determination of human blood groups A, B, AB, and O, Rh factor.
- 11. Major and minor problems in genetics
- 12. Study of preparation of Normal Karyotype of human.

- 13. Karyotypic study of Down's syndrome, Turner's syndrome,
- 14. Klinefelter's syndrome with the help of photograph.
- 14. Detection of Barr body from epithelial cell.
- 15. Problems on sex linked inheritance.

#### 16.. Study of gene frequency and mutants of man

- > Attached and free ear lobe.
- Colour of eye.
- > Rolling of tongue.
- ➤ Blood group frequency.
- 17. Human pedigree analysis- various symbols used.
- 18. Study of permanent slide of sickle cell anemia

# B.Sc. III Semester Paper:ZOL- 203 DEVELOPMENTAL BIOLOGY OF VERTEBRATES (PRACTICAL)

- 1. Study of Whole mount of different types of Sperm(Slide)
- 2. Types of Egg and cleavage pattern (Slides/LCD Projector)
- 3. Study of different stages of frogdevelopment.(Models/Specimen)
- 4. Study of types of placenta in Mammals (Slides/LCD Projector)
- 5. Study of Blastula, Gastrula, Morula in Frog ( Slides/LCD)
- 6. Study of whole mount of 24 Hrs, 33 Hrs., 48 Hrs., 72 hrs., 96 Hrs. Chick embryo (Slide)
- 7. Slide preparation and mounting of Chick Embryo from the Incubated Egg

# B.Sc. III Semester Paper: ZOL- 204 BIOCHEMISTRY AND ENDOCRINOLOGY (PRACTICAL)

- 1. Preparation of solutions of given percentage, normality and molarity.
- 2. Study of analytical instrument principle and applications.
  - > pH meter,
  - > Colorimeter,
  - Centrifuge
  - **Electrophoresis**
- 3. Factors affecting enzymes activity temperature and pH.
- 4. Detection of amino acid by paper chromatography.
- 5. Qualitative test for organic compound.
  - > Carbohydrate.
  - > Protein.
  - Fats.
- 6. Quantitative estimation of protein from animal tissue using Lawry's method.
- 7. Study of biochemical Qualitative and Quantitative test for Urine
- 8. Determination of Hemoglobin from given blood sample
- 7. Study of permanent histological slides of endocrine glands.
  - T.S. of Pituitary gland,
  - > T.S. of Thyroid gland,
  - T.S. of Adrenal Gland,
  - T.S. of Islets of Langarhans.
  - > T.S. of Testis
  - T.S. of Ovaries

### Skill Enhancement Course Practical Based on ZOL-SEC-205 ZOL-SEC-207 HAEMATOLOGY

- 1. Collection of blood by Venipuncture and arterial blood.
- 2. Determination of haemoglobin from given blood sample, Clotting and bleeding time of blood.
- 3. Determination of Total Count of RBC, WBC.
- 4. Determination of differential WBC Count by blood Smear

### Skill Enhancement Course Practical Based on ZOL-SEC-206 ZOL-SEC-208URINOLOGY

- 1. Study of normal and abnormal constituents of Urine.
- 2. Biochemical Qualitative and Quantitative tests for urine
- 3. Study of Microscopic Examination of urine.
- 4. Qualitative tests for sugar and albumin,

### REFERENCE BOOKS: (HAEMATOLOGY)

- 1. Medical Laboratory Technology RamnikSood
- 2. Medical Lab Technology Vol. I, II & III Kanai Mukherjee
- 3. Hand Book of Medical Technology Mrs. Chitra
- 4. Medical Laboratory Technology A. Ananthanarayan
- 5. Manual for Laboratory Technician of Primary Health by Minister of Health
- 6. Human Physiology Vol. I & II C. C. Chatterji

### REFERENCE BOOKS ( URINOLOGY)

- 7. Medical Laboratory Technology RamnikSood
- 8. Medical Lab Technology Vol. I, II & III Kanai Mukherjee
- 9. Hand Book of Medical Technology- Mrs. Chitra
- 10. Medical Laboratory Technology A. Ananthanarayan
- 11. Manual for Laboratory Techniian of Primary Health by Minister of Health
- 12. Human Physiology Vol. I & II C. C. Chatterjee

### B.Sc. IV Semester Course Code - ZOL- 211 PAPER: Ecology Practical

- 1. Estimation of Dissolved oxygen from given water sample.
- 2. Estimation of Water Alkalinity from given water sample.
- 3. Estimation of population density byquadrate method.
- 5. Study of microscopic fauna of freshwater ecosystem (from pond).
- 6. Estimation of water holding capacity of given soil sample.
- 7. Estimation of Salinity/Chlorinity from water sample.
- 8. Preparation of permanent slides of the following:
  - a) Spirogyra b) Verticella c) Oedogonium d) Daphnia e) Cyclop f) Mysis
- 10. Visit to Ecosystem: Marine/Fresh water/Desert Ecosystem

### **Recommended Reference Books:**

- 1. Colinvaux, P. A. (1993). Introduction to Ecology. II Edition. Wiley, John and Sons, Inc.
- 2. Krebs, C. J. (2001). Ecology: The Experimental Analysis of Distribution and Abundance, 6th Edition, ©2009, Pearson
- 3. Odum, E.P., (2008). Fundamentals of Ecology. Indian Edition. Brooks/Cole
- 4. Robert Leo Smith Ecology and field biology Harper and Row publisher
- 5. Ricklefs, R.E., (2000). Ecology. V Edition. Chiron Press
- 6. Sharma P.D. (2002) Ecology and Environment, Himalaya Publication
- 7. Verma and Agarwal- Principal of Ecology
- 8. Dutta- Fundamentals of Ecology
- 9. Clarke, G.L. Elements of Ecology

### **B.Sc. IV Semester**

Course Code - ZOL- 212
PAPER: XIV
Evolution
Practical

- 1. Study of evidences by using photograph/charts and models
- a) Analogous and Homologous organs
- b) Connecting link (*Peripatus and Archaeopteryx*)
- c) Embryological evidences
- 2. Study of adaptations (Museum Specimens).
- 3. Study on patterns of speciation with the help of Charts/Models/Pictures
  - a) Allopatric Speciation
  - b) Sympatric Speciation
- 4. Study of successive stages of evolution with the help of Charts/models
  - a) Horse
  - b) Human

### **Recommended Reference Books:**

- 1. Evolution Moody
- 2. Evolution Gopalkrishnan
- 3. Organic Evolution M.P. Arora (Himalaya Pub. House)
- 4. Evolution M.W. Strickberger (CB Publishers)
- 5. Organic Evolution N. Armugam (Saras Pub.)
- 6. Evolution- Surject Publication, Delhi
- 7. Jha, A.P. Genes & Evolution, John Publication, New Delhi
- 8. P.K. Gupta-Ecology, Genetics and Evolution
- 9. Tomer and Singh-Organic evolution, Rastogi Publication, Meerut

# Skill Enhancement Course Practical Based on ZOL-SEC- 213: Microtechnique

# Credit: 01 ZOL-SEC-214 Microtechnique

- 1. Isolation and collection of tissue, fixing and block preparation.
- 2. Tissue processing of prepared blocks.
- **3.** Technique of Section Cutting, fixing, alcohol grading, staining and preparation of permanent slide.
- **4.** Methods of preparation and examination of tissues (fresh and fixed tissue)

#### **REFERENCE BOOKS:**

- 1. Histochemical Techniques J. D. Bancrot.
- 2. Handbook of Histopathological and Histochemical Techniques C.F.A. Culling.
- 3. Histological and Histochemical Methods 4th Edition John Kiernan

# Skill Enhancement Course Practical Based on ZOL- SEC-214: APICULTURE Credit: 01 ZOL-SEC-215: APICULTURE

- Visit to the Apiculture centers, Collect practical information of artificial Bee Hives and its mechanism.
- 2. Collection of natural bee hives, wax, honey etc.
- **3.** Methods of extraction of honey (Indigenous and Modern).

### **REFERENCE BOOKS:**

- 1. Apiculture Prost, P. J. (1962), Oxford and IBH, New Delhi.
- 2. Apiculture Bisht D. S., ICAR Publications.
- 3. Bee Keeping in India Indian Council of Agricultural Research, New Delhi.

### B. Sc. First Semester

### Course Code - ZOL- 103 Zoology Paper - III

### PROTOZOA TO ANNELIDA (PRACTICAL)



### B. Sc. First Semester

### Course Code - ZOL- 104 Zoology Paper – IV

# CELL BIOLOGY (PRACTICAL)

1.	Study of cell organelles by using Models, Charts, Slides & Electron micrographs.	02
2.	Squash preparation of Onion root tip to study Mitosis.	02
3.	Preparation of polytene chromosome in chironomous larva/fruit flies.	02
4.	Microtechnique: - Fixation, dehydration, Block preparation, Microtomy and Staining of Rat tissue.	06
5.	Study of Microscopy: - Simple, Compound, & Phase Contrast Microscope	e <b>03</b>
	Total Practical Periods	15



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### **B. Sc. Second Semester**

### Course Code – ZOL- 203 Zoology Paper – VII

# ARTHROPODA TO ECHINODERMATA AND PROTOCHORDATA (PRACTICAL)

Study of museum specimen & slides of relevant Invertebrates & Protochordata. (At least 3 form each phylum).
 Dissections:

 Dissection of Prawn for Nervous system
 Dissection of Cockroach for Digestive and Nervous Systems.
 Dissection of Pila for Nervous system.
 Dissection of Sea Star for Water Vascular System.

 Mounting of any five of the following.
 Mouthparts of Cockroach, Mosquito, House fly, Bed bug and Honeybee.
 Salivary glands of cockroach.
 Redula of Pila, Pedicillaria of Star fish.

Total Practical Periods =15

# B. Sc. Second Semester

### Course Code – ZOL-204 Zoology Paper –VIII

# GENETICS - I (PRACTICAL)

1.	Culture of Drosophila- experimental organism in genetics	02
2.	Observation of common mutant of drosophila.	02
2.	Determination of human blood groups A, B, AB, and O, Rh factor.	01
3.	Minor problems based on monohybrid ratio & human blood	
	group and its interpretation.	04
4.	Major problems based on dihybrid ratio & interaction of genes.	04
5.	Study of chromosomal aberration	02
	Practical Periods	15



### **B.Sc. III Semester**

### Course Code - ZOL- 303 PAPER XI



# VERTEBRATE ZOOLOGY (Practical)

Museum study of vertebrates. (At least 20).     (Identification, classification, sketches, General characters and biological important.)	<b>05</b> ance
2. Dissection of Scoliodon / Labeo  > Afferent and efferent,  > Cranial Nerves.  > Brain	03
3. Dissection of Rat/ Frog;  ➤ Urinogenital system,  ➤ Arterial system,  ➤ Venous System,  ➤ Brain of Rat.	05
<ul><li>4. Mounting of Placoid, Cycloid and Ctenoid scales of fish</li></ul>	01
<ul> <li>5. Study of Embryological development of chick according to hours of incubation.</li> <li>6. Visit to Zoological museum/Zoo Park is compulsory and Submission of report</li> </ul>	01
7. Write a report on common birds/mammals in your locality, scientific names and economic importance.	
Total Practical periods: -	15



### **B.Sc. III Semester**

# Course Code - ZOL- 304 PAPER(XII)

### GENETICS-II (Practical)

1.	Preparation of paper model of DNA and study of DNA structure	01
2.	Study of protein synthesis with the help of charts/models.	02
3.	Estimation of DNA from animal tissue with the help of Diphenyl amine method.	02
4.	Study of preparation of Normal Karyotype of human.	01
5.	Karyotypic study of Down's syndrome, Turner's syndrome, Klinefelter's syndrome the help of photograph.	e wit <b>02</b>
6.	Detection of Barr body from epithelial cell.	01
7.	Problems on sex linked inheritance	02
8.	Problems based on Hardy – Weinberg's law	02
9.	Study of gene frequency and mutants of man;  ➤ Attached and free ear lobe.  ➤ Colour of eye.  ➤ Rolling of tongue.  ➤ Blood group frequency.	02
	Total Practical periods: -	15

### B.Sc. IV Semester

### PAPER.XV



# ANIMAL PHYSIOLOGY (PRACTICAL)

To study the digestive enzymes from cockroach/Human Saliva.	02
2 Total count of RBC/WBC from given blood sample.	0.1
	01
3. Preparation of Heamatin crystals from blood sample.	
4. Hb% from given blood sample.	01
5. Effect of isotonic, hypotonic, and hypertonic solutions on blood cell (RBCs)	01
6. Detection of nitrogenous west product from the extract of different animals	01
7. Detection of nitrogenous west product in fish/frog water tank.	01
8. Estimation of O <sub>2</sub> consumed by fish in relation to temperature by	02
Winnes memou.	
<ol> <li>Typographic reading of skeletal muscle properties , heart beating in Toad / Rat. (Demo only) 01</li> </ol>	
10. Histological study of following.  ➤ T.S. of Kidney  ➤ T.S. of Testis	01
➤ T.S. of Intestine	
Total practical periods	15

B.Sc. IV Semester

Course Code - ZOL- 404



# BIOCHEMISTRY AND ENDOCRINOLOGY (PRACTICAL)

preparation of soll of giver percentage; Hermality 2M 02 2. Study of analytical instrument principle and applications. pH meter, Colorimeter. Electrophoresis 02 Factors affecting enzymes activity temperature and pH. 4. Detection of aminor of the plant objects that the 01 03 5. Qualitative test for organic compound. Carbohydrate. > Protain 6. Quantitative estimation of protein from animal tissue using Lawry's method. 02 7. Study of permanent histological slides of endocrine glands. 02 - T.S. of Thyroid gland, T.S. of Adrenal Gland, > T.S. of Islets of langarhance. TS of Tomin

Total practical periods: - 15

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### **B.Sc. V Semester**

Course Code - ZOL- 503
PAPER - XIX

### **ECOLOGY (PRACTICAL)**

1.	Estimation of productivity of pond ecosystem using white and dark bottle method.	02
2.	Determine the following parameters of soil.  > pH  > Alkalinity  > Chlorinity  > Salinity  >	04
3.	Analysis of DO, CO <sub>2</sub> , Salinity, Chlorinity of water sample.	04
4.	Study of animal association ship with example (Charts/photo) -Competition, mutual parasitism, predation and commensalisms.	ism, <b>0</b> 1
5.	Estimation of population density by Quadrate method on field and by Simulation method.	04
6.	Preparation of permanent slides of following Spirogyra, Verticella, Odogonium, Daphnia, Cyclops, Mysis, Cypris, keretella	
7.	Project report: - Forest or fresh water ecosystem.	

Total practical periods: - 15

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### **B.Sc. V Semester**

# Course Code - ZOL- 504 PAPER XX - A

### FISHERY SCIENCE – I (PRACTICAL) (Elective Paper)

03 1. Study of freshwater fishes. Major carps ---Other carps. -Cat fishes -Clupoides -02 2. Study of brackish water fishes, Hilsa hilsa, Chanos chanos (milkfish), Latis calcarifer, Tilapia 3. 03 Study of marine ware fishes. Oil sardine-Mackerel Ribbon -fish -Bombay-duck Pomfret\_ Sole Polynemus 4. Water analysis 05 5. Visit to local or any reservoir and marine fish landing centre and student should be submit a project report at the time of practical examination Total practical periods: -

### **B.Sc. VI Semester**

# Course Code - ZOL - 603 PAPER XXIII

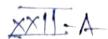
# **EVOLUTION (PRACTICAL)**

1.	Embryological evidences of evolution with the help of slide/chart/pictures.	02
	Adaptive modification in feets of birds and mouth parts of insects	02
	Study of successive stages of evolution with the help of models/charts  > Horse > Human	02
4.	Discussion on patterns of speciation with the help of charts /pictures.  > Allopatric speciation > Sympatric speciation.	02
5.	Study the homologous and analogous organs.	04
6.	Study of natural selection using <i>E.coli</i> bacteria against antibiotics (Tetramycin/ Penicillin)	01
7.	Study of geographical era.	02
	Total Practical periods	15



### **B.Sc. VI Semester Course**

Code - ZOL- 604 PAPER XXIV - A



# FISHARY SCIENCE - II (PRACTICAL) (Elective Paper)

1.	Primary productivity of ponds (plankton studies).	02
2	identification, classification and culturaable significance of following.	03
	Catla, rohu, mrigal, catfishes, exotic canoj	
3	Collection and identification of fish parasites and worms.	04
4	Removal of fish pituitary gland and preparation of pituitary extract	02
5	Identification of crafts and gears. <u>Gill net</u> , Rampanni, Satpalti, Machwa, Catamaran.	02
6.	A visit to fish farm and fish processing centre is compulsory.	02
	Total Practical Periods	15



#### NSSR(N)

### Mrs. K.S.K. Arts, Science, Commerce College Beed Department Of Computer Science Practical Syllabus B.Sc. I, II, & III Year Effective from 2018-2023

SUBJECT: Comp. Sci. (opt.) Semester: I Hours/week: 3

Code : CSO3

#### Office Lab

**Objective:** To impart the student hands on practice so that students should be able to: Create, Save, Copy, Delete, Organize various types of files and manage the desk top in general, use a standard word and spread-sheet processing package exploiting popular features.

- <u>GUI Operating System:</u> Mouse Practice, Starting, Login, Shutdown, Exploring
  Directories, Resizing, Moving, Minimizing, closing of software windows,
  familiarization with file icons, Launching Applications, Deleting, Renaming
  files, Managing Directories, Searching for files, Using Accessories.
- Web Browser: Basic Browsing, Buttons: forward, backward, home, adding to favorites, stop, save, save as, Saving an Image from the Web, printing, Specifying a Home Page, Browsing: Using Web URLs, Anatomy of a URL, Membership Websites: Signing up for email service, Searching: Academic

Search on the web.

Word Processing Tool: Menus, Shortcut menus, Toolbars, Customizing toolbars, Creating and opening documents, Saving documents, Renaming documents, Working on multiple documents, Close a document; Working With Text: Typing and inserting text, Selecting text, Deleting text, Undo, Formatting toolbar, Format Painter, Formatting Paragraphs: Paragraph attributes, Moving, copying, and pasting text, The clipboard, Columns,

Drop caps; **Styles**: Apply a style, Apply a style from the style dialog box, Create a new styles from a model, Create a simple style from the style dialog box, Modify or rename a style, Delete a style; **Lists**: Bulleted and numbered lists, Nested lists, Formatting lists **Tables**: Insert Table button, Draw a table, Inserting rows and columns, Moving and resizing a table, Tables and Borders toolbar, Table properties **Graphics**: Adding clip art, Add an image from a file, Editing a graphic, AutoShapes; **Spelling and Grammar**: AutoCorrect, Spelling and grammar check, Synonyms, Thesaurus; **Page** 

**Formatting**: Page margins, Page size and orientation, Headers and footers, Page numbers, Print preview and printing.

- Spreadsheet Basics: Screen elements, Adding and renaming worksheets, The standard toolbar opening, closing, saving, and more; Modifying A Worksheet, Moving through cells, Adding worksheets, rows, and columns, Resizing rows and columns, Selecting cells, Moving and copying cells, Freeze panes; Formatting Cells: Formatting toolbar, Format Cells dialog box, Dates and times; Formulas and Functions: Formulas, Linking worksheets, Relative, absolute, and mixed referencing, Basic functions, Function Wizard, Autosum, Sorting and Filling: Basic ascending and descending sorts, Complex sorts, Autofill; Alternating text and numbers with Autofill, Autofilling functions; Graphics; Adding clip art; Add an image from a file; Editing a graphics; AutoShapes; Charts: Chart Wizard; Resizing a chart; Moving a chart, Chart formatting toolbar; Page Properties and Printing: Page breaks, Page orientation, Margins, Headers, footers, and page numbers, Print Preview, Print; Keyboard Shortcuts.
- Presentation Tool: AutoContent Wizard, Create a presentation from a template, Create a blank presentation, Open an existing presentation, AutoLayout, Presentation Screen: Screen layout, Views, Working with Slides: Insert a new slide, Applying a design template, Changing slide layouts, Reordering slides, Hide slides, Create a custom slide show, Edit a custom slide show Adding Content: Resizing a text box, Text box properties, Delete a text box, Bulleted lists, Numbered lists, Adding notes, Video and Audio Working with Text: Adding text, Editing options, Formatting text, Replace fonts, Line spacing, Change case Spelling check Color & Background: Color schemes, Backgrounds, Graphics, Adding clip art, Adding an image from a file, Editing a graphic, AutoShapes, WordArt Slide Effects: Action buttons, Slide animation, Animation preview, Slide transitions, Slide show options, Master Slides, Slide master, Header and footer, Slide numbers, Date and time Saving and Printing, Save as a web page, Page setup, Print
- Integrating Programs Word, spreadsheet and Presentation.

### Note:

The above practical is to be conducted using the either Microsoft-Office or OpenOffice.

### **Digital Electronics Lab**

Objective: To provide hands-on practice of the basic knowledge in digital logic and circuits and to provide hands-on practice in some commonly used combinational and sequential circuits

Instruction: The Laboratory work will have to be performed during the semester consisting of any of the 8 experiments from the given list below:

### List of Experiments:

- 1. Study and Testing of measuring instruments: Digital and Analog multimeters, CROs and Signal Generators measurement of AC & DC voltages, measurement of frequency.
- 2. Study of Components: Identification and testing of resistors, capacitors, inductors, diodes, LEDs & transistors
- 3. Study of Logic Gates: Study of truth table of basic gates, realization of Boolean functions
- 4. Study of Half adder and Full Adder
- 5. Study of Half Subtractor and Full Subtractor
- 6. Study of Implementation of a 3:8 decoder,
- 7. Study of 4-line to 16 bit decoder
- 8. Study of BCD to 7-segment decoder
- 9. Study of Generating a Boolean expression with a multiplexer
- 10. Study of Clocked JK Flip Flop
- 11. Study of 4-bit ripple counter
- 12. Study of Parallel-in, serial-out, 4-bit shift register

SUBJECT: Comp. Sci.(opt.) Semester: II Hours/week: 3

Code : CSO6

### Operating System

Assignments: Write the Program using C (if applicable):

### Operating System:

- 1. Study of DOS Commands.
- 2. Study of Unix/Linux Commands.
- 3. Write a program to implement the FCFS Scheduling Algorithm.
- 4. Write a program to implement the SJF Scheduling Algorithm.
- 5. Write a program to implement the Priority Scheduling Algorithm.
- Write a program to implement the Round Robin Scheduling Algorithm.

### Lab for Programming in 'C'

### List of Experiments:

- 1. Find Area, Perimeter of Triangle & Rectangle.
- 2. Find maximum amongst 3 numbers.
- Program for nested loops.
- 4. Program to Calculate x y
- 5. Program to check Prime Number.
- 6. Program to find Armstrong Number.
- 7. Program to print the Fibonacci Series
- 8. Searching and element from array.
- 9. Transpose of matrices
- 10. Multiplication of matrices
- 11. Sorting array using bubble sort technique
- 12. Program for recursion e.g. factorial, reverse of digit
- 13. Program for structure initialization
- 14. Array of Structure e.g. student result, Employee pay slip, Phone bill
- 15. Function with parameter & return values

Course: B.Sc.(C.S.) Paper title: Practical Based on Adv. C Programming Semester: III Paper No.: CSO9

- 1. Swapping of numbers by using call by reference.
- 2. Program to pass array to function.
- 3. Program for passing structure pointer to function.
- 4. String manipulation function e.g. string copy, concatenation, compare, string length, reverse.
- 5. Program for reading/writing text file.
- 6. Program for reading/writing binary file.7. File copy program.
- 8. Program to modify a record from binary file.
- 9. Program to delete a record from binary file.
- 10. Program on conditional compiling.
- 11. Program on macro substitution.
- 12. Program for data conversion.
- 13. Program to draw simple pictures (human face, clock, hut, etc.) using graphics functions.
- 14. Program using command line arguments.
- 15. Program to demonstrate the storage class.
- 16. Program to sort names.

Course: B.Sc.(C.S.)
Paper title: Practical Based on Data Structure

aper title: Practical Based on Data Structure Paper No.: CSO10

Assignments: Write the Program using C (if applicable):

- Write a program using DIV(J,K) which reads a positive integer N>10 and determines whether or not N is a prime number.
- 2. Write a program which counts the number of particular character/word in the String.
- Write a program which reads words WORD1 and WORD2 and then replaces each occurrence of word1 in text by word2.
- 4. Write the programs for traversing of n item using the array.
- 5. Write the programs for insertion and deletion of n item using the array.
- 6. Implement Linear and binary search algorithm using C.
- 7. Implement Bubble sort using C.
- 8. Write the programs for traversing of n item from the linked list.
- 9. Write the programs for push and pop operation using the stacks.
- 10. Write the programs for insertion and deletion of n item from the queues.

6. B.Sc. Comp. Sci. [Opt.] IIrd Yr. Sem.III & IV - 12 -

Course: B.Sc.(C.S.)

Paper title: Practical Based on Programming in C++

Semester : IV

Paper No.: CSO13

Semester: III

Minimum 12 Practicals to be performed as per the guidelines of teaching Faculty depending upon all theory units of concerned subject.

Course: B.Sc.(C.S.) (Opt.)

Semester : IV

Paper title: Practical Based on Database Management System

Paper No.: CS O14

- Design five schemas for any organization like: College, school, hospital, travel agency, company, bank etc.
- 2) Normalize the above five selected schemas as per 1NF,2NF and 3NF
- 3) Draw E-R Diagram for the same.
- 4) Solve at least ten Relational Algebraic Queries

Paper No.: CSO17

Comp. Sci. (Gen.) Semester : V

Paper title: Software Engineering Case Study

Using any Software engineering model case study on development of a software.

Paper No.: CSO18

Comp. Sci. (Gen.) Semester : V

Syllabus of Computer Science (General), w.e.f.: 2014-15

### Paper title: Web Designing if Selected

- 1. Create a simple website by using Visual Studio Express
- 2. Create additional pages
- 3. Embedding Content
- 4. Create a webpage using and <div> elements
- 5. Create a webpages using conditional and looping statements.
- 6. Create a calculator webpage
- 7. Create a Webpage to introduce National Bird/Animal/Emblem/Flower
- Learn more about positioning by adding more <div> elements to the webpage
  to define a header and footer for the page. Use CSS style rules to set the
  position.
- Learn more about CSS selectors by adding more elements to the page and try setting the format by selecting the elements without using an id.
- 10. Learn more about colors by changing the color scheme, using RGB values.

Paper No.: CSO18 Comp. Sci. (Gen.) Semester : V

Paper title: VB.NET if Selected

Minimum 12 Practical to be performed as per the guidelines of teaching Faculty depending upon all theory units of concerned subject.

Paper No.: CSO21 Paper title: Seminar Comp. Sci. (Gen.) Semester : VI

Syllabus of Computer Science (General), w.e.f.: 2014-15

14

5. SU-02 June-2016 All Syllabus Science Facutly B.Sc. Computer Science [Optional] Sem. V & VI

- 15 -

Student should prepare and present a seminar on any latest topic should be related to Computer Science.

Paper No.: CSO22 Paper title: Major Project Comp. Sci. (Gen.) Semester : VI

Students group (maximum 3 students) should design and develop a project.

Course Title: Lab course 1 (Based on CMP-111 and CMP-112 )

Total Credits: 1.5

Contact Hours: 03 Hours (Week)

Marks: 50

### Practical based on CMP-111

- Student should prepare a report based on computer component such as monitor, printer, CPU, Pen drive, CD –ROM, Hard Disk
- Create a partition of computer drive creation, formatting the drive and deleting the partition.
- Create a user and password of computer user and Reset a computer password using CMOS battery.
- Practical on office word tool as a creation, edit, insertion of table in the new word file.
- Practical based on MS-Excel for creation of student data with name, marks, roll no for sorting and mark sheet creation.
- Perform practical of DOS internal commands. DIR,TYPE,DEL, MD,CD,COPY,RMDIR,VER,DATE,TIME, CLS EXIT.
- Write a comparative report of different web browser such as opera, Microsoft edge, chrome and mozila Firefox.
- 8. Create an IP setting and home network setting for the computer.
- 9. Connect internet using wifi for a computer.
- 10. Practical based on online meeting using zoom, Google meet and skype
- 11. Practical based on remote desktop using any desk software.
- 12. Solve one example of binary to decimal, octal and hexadecimal number.
- 13. Solve one example of decimal to binary, octal and hexadecimal
- 14. Solve one example of octal to hexadecimal, decimal and binary.

#### Practical based on CMP-112

- 1. Execution of DOS internal and External commands
- 2. Study and explain the types of operating systems (their types with structure, functionality, dependencies, application software with their differences).
- 3. Installation of any one of the operating system.
- 4. Present the output of different file operation.
- Implement any file allocation technique (Linked, Indexed or Contiguous) .(any one)
- 6. Present the output of following CPU Scheduling algorithm.(any one)
  - a. FCFS
  - b. SIF
  - c. Priority
  - d. Round Robin
- 7. Present the output of following Page Replacement Algorithm.(any one)
  - a. FIFO
  - b. LRU

### Minimum three practical on each unit

Course Code: CMP-221

Course Title: Lab course 1 (based on CMP-211 and CMP-212)

Total Credits: 1.5

Contact Hours: 03 Hours (Week)

Marks: 50

**Objective**: student understands the practical and logical application of programming language. The use of C logical statement in real time example solving. The student should understand the working of logic gate with its application in real time era.

### Practical based on Digital Electronic

- The practical should be done on kit for AND, OR, NOT, NAND, NOR, X-OR and X-Nor gate (If kit not available use the software simulation for practical)
- 2. Study of Components: Identification and testing of resistors, capacitors, inductors, diodes, LEDs & transistors
- 3. Study of Logic Gates: Study of truth table of basic gates, realization of Boolean functions
- 4. Study of Half adder and Full Adder
- 5. Study of Half Subtractor and Full Subtractor
- 6. Study of Implementation of a 3:8 decoder,
- 7. Study of 4-line to 16 bit decoder
- 8. Study of BCD to 7-segment decoder
- 9. Study of Generating a Boolean expression with a multiplexer
- 10. Study of Clocked JK Flip Flop 11. Study of 4-bit ripple counter 12. Study of Parallel-in, serial-out, 4-bit shift register

### **Practical based Basic C Programing**

### 1.Installation of C Program:

Download and installation of C programming software. Discussion on available c software and use of each individually.

#### 2. Input Output statement program

Minimum 10 program on input and output statement, data type and constant.

3.List of Program for student to understand the concept of programing

- · Find Area, Perimeter of Triangle & Rectangle.
- Find maximum amongst 3 numbers.
- · Program for nested loops.
- · Program to Calculate x y
- · Program to check Prime Number, Program reverse of digit.
- · Program to find Armstrong Number.
- · Program to print the Fibonacci Series
- · Searching and element from array.
- · Transpose of matrices
- · Multiplication of matrices
- · Sorting array using the bubble sort technique
- · Program for factorial of number

Course Code: CMP-321

Course Title: Lab course 3 (based on CMP-311)

Total Credits: 1.5

Contact Hours: 03 Hours (Week)

Marks: 50

- 1. Write a program to store the elements in 1-D array and perform the operations like searching, sorting and reversing the elements.
- Read the two arrays from the user and merge them and display the elements in sorted order
- 3. Write a program to perform the Matrix addition, Multiplication and Transpose Operation.
- 4. Write a program to implement the concept of Stack with Push, Pop, Display and Exit operations
- 5. Write a program to convert an infix expression to postfix and prefix conversion
- 6. Write a program to implement Tower of Hanoi problem.
- Write a program to implement the concept of Queue with Insert, Delete, Display and Exit operations.
- 8. Write a program to implement the concept of Circular Queue
- 9. Write a program to implement the concept of Deque.
- 10. Write a program to create the tree and display the elements.
- 11. Write a program to construct the binary tree
- 12. Write a program for inorder, postorder and preorder traversal of tree
- 13. Write a program to create a single linked list and display the node elements in reverse order
- 14. Write a program to search the elements in the linked list and display the same

Course Title: Lab course 4 (based on CMP-312)

Total Credits: 1.5

Contact Hours: 03 Hours (Week)

Marks: 50

- Write a program to calculate average temperature of five days. Create temp() function.
- Write a program that uses recursive function fibo() that generates a Fibonacci series containing N elements.
- Write a program that uses a recursive function fact() that finds the factorial of a given number N.
- 4. Program to find if the given no. is prime or not. The function should accept the number as argument and return if the no. is prime or not.
- 5. Write a function which accepts a character array as argument from the user. The function should print the ASCII equivalent of all the characters in the string.
- 6. Write a program to define structure with tag state with fields state name, number of districts and total population. Read and display the data.
- 7. Write a program to create a list of books details. The details of a book include title, author, publisher, publishing year, number of pages, and price.
- 8. Define a structure called Item with members: Item\_code, Item\_name, Price. Create an array of five Items. Create a function which accepts the Item array and modifies each element with an increase of 10% in the price.
- Define a structure to represent a date. Use your structures that accept two different dates in the format mm dd of the same year. Write a C program to display the month names of both dates.
- 10. Define a structure that can describe a Hotel. It should have members that include name, address, grade, room charges, grade and no of rooms. Write a function to print out all hotel details with room charges less than a given value
- 11.1 Write a program to display contents of file on the screen. The program should ask for file name. Display the contents in capital case.
- 12. Write a program to find size of the file.
- 13. Write a program to combine contents of two files in a third file. Add line number at the beginning of each line.
- 14. Write a program to display number 1 to 100. Redirect the output of the program to text file.
- 15. Write a program to write contents of one file in reverse into another file

Course Title: Lab course 5 (based on CMP-411)

Total Credits: 1.5

Contact Hours: 03 Hours (Week)

Marks: 50

- 1. Creating a single table without constraints and firing queries.
- 2. Queries containing aggregate, string and date functions fired on a single table.
- 3. Creating single table with constraints and executing queries.
- 4. Updating tables, altering table structure and deleting table Creating and altering a single table and executing queries.
- 5. Joining tables and processing queries.
- 6. For given scenario draw E-R diagram and convert entities and relationships to table. Write relational algebra queries and convert to SQL queries on these tables.
- 7. Creating, dropping and maintaining indexes.
- 8. Create and manage views and process queries on views.
- 9. Creating stored procedures, executing procedures, deleting procedures.
- Creating with or without enforcing data integrity through triggers, nested triggers, viewing, modifying and deleting triggers

Course Title: Lab course 6 (based on CMP-412)

Total Credits: 1.5

Contact Hours: 03 Hours (Week)

Marks: 50

- 1. Write programs that illustrates the simple C++ concepts without classes.
- 2. Write C++ programs to illustrate the concepts pointers, functions and function overloading.
- 3. Write C++ programs to illustrate the concepts: classes, friend functions.
- 4. Write C++ programs to illustrate the concepts:constructors, constructor overloading and destructors.
- 5. Write C++ programs to illustrate the concepts: operator overloading (both Unary and Binary).
- 6. Write C++ programs to illustrate the concepts: Simple, Multiple, Multilevel inheritance.
- 7. Write C++ programs to illustrate the concepts: Polymorphism (Virtual functions, Pure Virtual functions).
- 8. Write programs to illustrate the file handling in C++.
- 9. Write programs to illustrate the templates in C++.
- 10. Write programs to illustrate the exceptions in C++.

# Practical Paper No. ZOO-109 Practical's based on ZOO-101

### (Biosystematics and Animal Diversity)

1. Museum specimen study of different groups of Invertebrates and Vertebrates.

2. Terrestrial ecosystem (Vegetation studies)- Abundance, Frequency, Density, Relative Diversity, Dominance, Raunkars biological spectrum, Index of Dominance etc.

3. Method of plankton collection, plankton identification and quantification from river or stream or lake water.

4. Methods of collection, preservation and identification of zooplankton.

- 5. Composition assessment of taxonomical diversity or biodiversity in habitat from local Grassland, Terrestrial and Wetland.
- 6. Composition assessment of taxonomic diversity/Biodiversity from different ecosystems.

a. Species diversity indices.

b. Relative density, Relative frequency and relative abundance of species.

7. Methods of collection, preservation and identification with keys from different groups of organisms like, Parasites, hosts, insects, birds and fishes etc.

8. Construction of taxonomic Key from the character in an animal group.

9. Visit to any biodiversity center /spots and submission of report

### Practical Paper No. ZOO-110 Practical's based on ZOO-102 (Biochemistry)

1. Preparation of Acid and Alkali solutions and acid base titration

2. Preparation of Buffers of known pH, buffering capacity.

3. Identification of Carbohydrates by Chemical tests.

4. Estimation of Amino acid (Tyrosine)

5. Estimation of Protein by Lowry's method.

6. Estimation of Carbohydrates by Anthrone reagent method. (Glycogen)

7. Separation of amino acids by paper chromatography.

8. Study of factors affecting enzyme activity (Substrate concentration, pH, Temperature and Inhibitors)

9. Isolation of Casein protein from the milk.

10. Determination of isoelectric pH of Caesin.

# Practical Paper No. ZOO-111 Practical's based on ZOO-103

(Ecology: Principles and Practices)

1. Study of ecosystem biodiversity of local area.

2. Estimation of DO/BOD

3. Estimation of hardness of water sample. (Total, Sodium and Potassium hardness.) 4. Estimation of Salinity /Nitrates and phosphates from a given water sample.

5. Biomass analysis in a given ecosystem.

6. Species diversity in community and its measurement- Alpha diversity- Simpsons diversity index, Shannon index, Fisher alpha. Beta diversity- Sorensen's similarity index, Whittaker's index, Evenness, Gamma diversity, Guild and its functioning in the community.

7. Productivity estimation in given ecosystem (Primary and Secondary)

8. Study of efficiency of sampling method.

9. Study of air quality and aerobiology in given area.

10. Toxicology- Principles, toxicants- types, dose and effects, toxicity of heavy metals

11. Measuring ecotoxicity using a lettuce seed assay.

12. Estimation of various physical parameters of water (SSP, Turbidity, TDS etc).

13. Visit to any biodiversity centre /National park/Sanctuary and submission of report.

# Practical Paper No. ZOO-112 Practicals based on ZOO-105 (Helminthology I)

1) Collection of trematodes and cestodes from various hosts

2) Preservation, staining and identification of collected trematode & cestodes, and preparation of their permanent slides (At least, 10 from cestodes & 10 from trematodes).

3) Study of different trematodes and cestodes from permanent slides (At least, 10 from cestodes & 10 from trematodes).

4) Examination of fecal samples for ova.

5) Collection and examination of molluscan hosts for larvae of trematodes.

6) Study the effect of helminth parasites (histopathology) on their host's tissue by microtechnique. **Submission:** At least five permanent slides to be submitted at the time of practical examination

# Practical Paper No. ZOO-113 Practical based on ZOO-106 (Protozoology-I)

- 1. Collection, observation in living condition-fixation, staining and identification of protozoa from different habitats.
- a. Marine Protozoa
- b. Planktonic protozoa
- c. Soil protozoa
- 2. Study of population density of ciliates in fresh water.
- 3. Study of ecological factors in relation to freshwater ciliates.
- a. Oxygen
- b. Carbon dioxide
- c. pH
- d. Oxidized organic matter
- 4. Study of cyclosis in Paramecium.
- 5. Study of contractile vacuole to observe excretion and osmoregulation.

# Practical Paper No. ZOO-114 Practical based on ZOO-107 (Entomology I)

- 1. Study, mounting and sketching of types of mouth parts, antennae, wings, legs and genitalia of various insects. (2 in two insects)
- 2. Dissections of Digestive system / Reproduction system / Nervous system of five available at least 3 insects.
- 3. The study and preparation of permanent slides of any five organs of at least 2 insects
- 4. Estimation of enzyme activities of Amylase, Invertase, Lipase & Protease in the alimentary canal/midgut of cockroach.
- 5. Detection of uric acid as an end product of excretion in any terrestrial insect.
- 6. Study of types and Total count of haemocytes in haemolymph of any one insect.
- 7. Determination of role of insect hormones in the pupation of insect larvae by ligature technique.
- 8. Study of eggs, larvae and pupae/ nymph of any one insect.

# Practical Paper No. ZOO-115 Practical based on ZOO-108

### (Endocrinology-I)

- 1. Histomorphological study of neuroendocrine system in various invertebrates (Annelida, Mollusca Arthropoda etc.) (at least 10 Slides)
- 2. Dissection of nervous systems in different invertebrates (Leech, crab, cockroach, slug, snail).
- 3. Histological preparation of slides of neuroendocrine centers (at least 5)
- 4. Effect of brain removal on oxygen consumption in leech.
- 5. Effect of background on integument chromatophores of the freshwater prawn, *Caridina / Macrobrachium*.
- 6. Effect of eyestalk removal on oxygen consumption of freshwater crab / prawn.
- 7. Effect of eyestalk removal on blood glucose level in crab / prawn.
- **8.** Effect of eyestalk removal on chromatophores in relation to background adaptation in *Caridina/Macrobrachium*



### B. Sc. 1 Semester Physics paper III (Phy113) List of experiment

- 1. Study and use of various measuring Instruments
  - 1. Vernier caliper 2. Micrometer Screw Gauge 3. Travelling Microscope
  - 4. Spherometer 5. Spectrometer information about source and their wavelengths.
- 2. Determination of acceleration due to gravity by Kater's pendulam
- 3. Y by bending of a beam loaded at center.
  - 4. Determination of Y by Cantilever (Oscillation method)
  - 5. η by Maxwell's needle.
    - 6. Determination of "Y" and " $\eta$ " by flat spiral spring.
    - 7. Viscosity measurement by Poiseuille's method.
    - 8. S.I. by Jaeger's method.
    - 9. Study of Solar constant.
    - 40. Study of thermal conductivity by Lee's method

Note: - At least six experiments should be performed.



## B. Sc. II Semester Physics paper VI (PHY-221) List of experiment

- 1. Use of multimeter for measuring voltage, current and resistance.
- 2. Determination of dielectric constant of liquid / solid.
  - 3. I-H curve.
- 4. Field along the axis of circular coil.
  - 5 Determination of wavelength of light by Newton's rings.
  - 6. Resolving power of telescope.
- 7 Specific rotation by Laurent's half shade polarimeter.
- 8. λ by grating (normal incidence)
  - 9. Determination of frequency of AC mains by sonometer
  - 10. Comparison of capacitor using De'Sauty's method
  - 11 Measurement of constants of B. G.

Note: - At least six experiments should be performed.

# B. Sc. Second Year Physics (Semester-III)

Physics Practical: Lab Course-3

Course Code: PHY-321



### Credit 1.5

Marks-50 (CIA-10 and UA-40)

# List of Experiments:

- 1. Study of temperature dependence of total radiation
  - 2. To draw the histogram of theoretical Gaussian curve
- 3. Velocity of sound using Helmholtz resonator
- 4. Surface tension by Fergusons method -
- 5. e/m by Thomson's tube experiment
- 1-V characteristics of solar cell
- Viscosity of liquid using Searle's viscometer
- 38. M. I. by Bifilar suspension
  - 9. Viscosity of liquid by using oscillating disc method. -

Note: Students should perform at least six experiments

### Books:

- 1. B. Sc. Practical Physics C. L. Arora (S. Chand Publications)
- 2. College Practical Physics Khanna and Gulati (S. Chand Publication)
- 3. Practical Physics Gupta and Kumar (Pragati Prakashan, Meerut)
- 4. A text book of Practical physics Shrinivasan and Balsubramanyam.

# B. Sc. Second Year Physics (Semester-III)

Physics Practical: Lab Course-4

Course Code: PHY-322



Marks-50 (CIA-10 and UA-40)

### List of Experiments:

- 1. To verify the inverse square law using photocell
- 2. 'h' by photocell
  - 3. To compare the luminous intensities of two lights sources using photocell
- 4. Measurement of the focal length of a given convex lens using laser
- 5. Diffraction of grating using laser beam
- 6. Beam divergence of a diode laser
- Determination of the diameter of a thin wire using laser
  - 8. Determination of wavelength of He-Ne laser by transmission grating and reflection grating.
  - 9. To draw the plateau curve for GM counter
  - 10. To find the dead time of GM counter

Note: Students should perform at least six experiments

### Books:

- 1. B. Sc. Practical Physics C. L. Arora (S. Chand Publications)
- 2. College Practical Physics Khanna and Gulati (S. Chand Publication)
- 3. Practical Physics Gupta and Kumar (Pragati Prakashan, Meerut)-
- 4. A text book of Practical physics Shrinivasan and Balsubramanyam.



## B. Sc. Second Year Physics (Semester-IV)

Physics Practical: Lab Course-5

Course Code: PHY-421



#### Credit 1.5

Marks-50 (CIA-10 and UA-40)

#### List of Experiments:

1. I-V Characteristics of transistor in CB configuration

1-V Characteristics of transistor in CE configuration

3. I-V Characteristics of Zener diode

4. I-V Characteristics of FET

5. Study of OR, NOT, AND gates

6. Study of Op-amp as adder

Study of Op-amp as subtractor

8. Study of RC Oscillator (Phase shift Oscillator)

9. Study of LC Oscillator (Hartley Oscillator)

Note: Students should perform at least six experiments

## B. Sc. Second Year Physics (Semester-IV)

Physics Practical: Lab Course-6

Course Code: PHY-422



#### Credit 1.5

Marks-50 (CIA-10 and UA-40)

## List of Experiments:

- 1. Energy band gap of semiconductor using thermistor
- 2. Thermal conductivity by Forb's method
- 3. Rydberg constant using Excel
- 4. I-H curve using Excel
- 5 Calibration of bridge wire using Carry-Foster's bridge.
  - 6. Determination of absolute capacity of condenser using B.G.
  - 7. To determine the Hall coefficient of a semiconductor sample.
- 8. Study V-I characteristics of a solar cell.
  - 9. To analyze the XRD data of the two given sample and find out the lattice constant

Note: Students should perform at least six experiments

# Practical Course code PHY-308 Paper-XVIII



Marks-50

## List of experiments

- 1. Temperature coefficient of resistance of semiconductor
- 2. Measurement of thickness of thin film by gravimeter/optical/electrical method
- Temperature of sodium flame
- 4. Hartmann's dispersion formula
- 5. Maxwell's bridge (measurement of inductance using impedance at different frequency)
  - 6. λ by grating (normal incidence) .
  - 7. Transistorized Regulated power supply using Zener diode.
- 8. Bridge Rectifier

Note:- At least Six experiments should be performed.

## B.Sc. IIIrd year Physics (Semester-V)

### **Practical**

Course code PHY-303

Paper-XXI



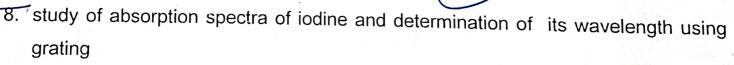
Period-45

50

Marks-

### List of experiments

- 1. Measurement of the focal length of a given convex lens using laser
  - 2. Spectral response of photoconductor (LDR)
  - 3. Diffraction of grating using laser beam
  - 4. e by Millikan's oil drop method
  - 5. Study of thermocouple (Fe-Cu) and to find inversion temperature
  - 6. Refractive Index R.I. of Optical fiber
- 7. constant of B.G. by standard condenser method



Note: - At least Six experiments should be performed.

B.Sc. III<sup>rd</sup> year Physics (Semester-V)

Practical

Course code PHY-304

Paper-XXII



Marks-50

List of experiments

1. Beam divergence of a diode laser

- 2. Determination of the diameter of a thin wire using laser
- 3. To study the interference of light using optical fibers
- 4. Determination of wavelength of He-Ne laser by transmission grating and reflection grating
- 5. Y by Koenig's method
  - 6. Edser's A pattern
- 7. e/m by Thomson methods by Excel
  - 8. Surface tension by Ripple's method

Note: - At least Six experiments should be performed.



## B.Sc. Illrd year Physics (Semester-VI)

#### **Practical**

Course code PHY-307

Paper-XVII



## List of experiments

- 1. Thermal conductivity by Forb's method
- Rydberg constant
- 3. B-H curve using magnetometer
- 4. Determination of Debye's temperature (e.g. Tin)
- 5. Determination of dielectric constant of liquid/solid
- (M)
- 6. Resistance measurement of semiconductor by Vaders Pau's method
- 7. I-H Curve by Excel
- 8. Rydberg constant Excel

Course Name: Practical Based on PHYT/MJ/500 (Linear and digital Electronics)

Course Code: PHYP/MJ/526, Course Type: MJ, Contact Hours: 60,

Credits: 02, Hours/Week: 02, Max. Marks: 50

Course objective: The themes dealt with in this paper:

This course deals with the basic foundation to specialization in Electronics and Industrial applications.

This course is an advanced which requires the special efforts and training.

This course will help the student to elaborate designing the electrical circuits, input and output characteristics and their uses in various electrical devices for various applications.

Course Outcomes: The present unit attempts to achieve the following learning outcomes:

- After completing this course the student will be prepare to explain the scope and possibilities of electrical circuits designed using OP-AMP, Multivibrators and counters for various applications for research career as well as in industries.
- The students will be able to design electrical circuits for various industrial applications.

#### Course Contents:

- 1. Determination of characteristics of OP-AMP 741: CMRR and Slew rate
- 2. Determination of characteristics of OP-AMP 741: input offset voltage and input bias current
- 3. Inverting and non-inverting amplifier using OP-AMP 741
- 4. Astable multivibrator using OP-AMP 741
- 5. Schmidt trigger using OP-AMP 741
- 6. Wien bridge Oscillator using IC 741
- 7. Monostable multivibrator using IC555
- 8. Decimal to BCD converter
- 9. Mod 16 counter
- 10. Diode Matrix ROM



### Course Name: Practical Based on PHYT/MJ/501 (General Condensed Matter Physics)

Course Code: PHYP/MJ/527, Course Type: MJ,

Contact Hours: 60, Credits: 02, Hours/Week: 04, Max. Marks: 50

## Course objective: The themes dealt with in this paper:

This course deals with the basic foundation to specialization in Condensed Matter Physics and applications.

This course is an advanced which requires the special efforts and training.

This course will help the student to elaborate characterization techniques of as prepared materials using XRD and UV-VIS spectra.

## Course Outcomes: The present unit attempts to achieve the following learning outcomes:

- After completing this course the student will be prepare to explain the scope and possibilities of studies in structural properties of synthesized materials for various applications for research career as well as in industry.
- The students will be able to identify the structure, cell parameters, energy band gaps and optical properties of any given materials.

#### Course Contents:

- 1. Study the cubic structure of given XRD data and determine lattice parameters.
- 2. Study the hexagonal structure of given XRD data determine the lattice parameters.
- 3. Study the diamond structure using XRD data and determine of lattice parameters.
- 4. Study the Hall Effect and determine type and number of charge carriers.
- 5. Study the Hall Effect and determine type and Hall coefficient.
- 6. Study the Hall Effect and determine type and drift mobility.
- 7. Study the UV Vis Spectra of ZnO lattice.



## Course Name: Practical Based on PHYT/MJ/502 (General Nuclear Physics)

Course Code: PHYP/MJ/528, Course Type: MJ,

Contact Hours: 60, Credits: 02, Hours/Week: 04, Max. Marks: 50

Course objective: The themes dealt with in this paper:

This course gives basic foundation to specialization in nuclear physics and Spectroscopy and applications.

The course is an advanced course and requires special efforts.

The course will help the student to explain characteristics of Geiger Muller counter/tube: Operating voltage, Dead time and counting statistics.

Course Outcomes: The present unit attempts to achieve the following learning outcomes:

- After completing this course the student will be prepare to explain the scope and possibilities of studies in nuclear physics for research career as well as in industry.
- The students able to explain the characteristics of Geiger Muller counter/tube: Operating voltage, Dead time and counting statistics.

#### Course Contents:

- Determination of characteristics of Geiger Muller counter/tube:
   Operating voltage
- 2. Determination of dead time of a G. M. counter by double source method.
- 3. Determination of dead time of a G. M. counter by variable area method.
- 4. Statistical aspects of radioactivity measurements.
- 5. Beta backscattering as function atomic number.
- 6. Beta energy determination by feather's analysis.
- 7. To study the secular equilibrium.
- 8. To study the transient equilibrium.



## Course Name: Practical based on PHYT/DSE/504

Course Code: PHYP/DSE/529, Course Type: DSE,

Contact Hours: 60, Credits: 02, Hours/Week: 04, Max. Marks: 50

## Learning Objectives:

1. To facilitate the students to understand

a) The concepts of microprocessor and assembly language programming.

b) The concept of interfacing devices at laboratory as well industrial level

2. To provide an opportunity to the students to enter into entrepreneurship.

#### Learning Outcome: Students will be able to learn

1. Microprocessor architecture, physical configuration of memory, logical configuration of memory, microprocessor programming and interfacing.

2. Students will be capable to perform following job

a) Industrial automation using 8086 interfacing and programming.

b) Start his / her own small scale industry for manufacturing microprocessor based automated devices.

3. Students will have option to start his / her teaching career either in science or engineering colleges / institutes as this course is included in science as well engineering discipline.

#### Experiments using 8086 Kit

- 1. Data transfer, addition, subtraction, multiplication, division and sum of series
- 2. Factorial and square of the number
- 3. Sorting of data (ascending / descending), square root of a number
- 4. Arithmetic mean of N- numbers and sum of square of Numbers
- 5. Interfacing of SPDT switches and 7 segment display as a position encoder / decoder
- 6. Interfacing of stepper motor
- 7. Interfacing of DC motor
- 8. Interfacing of DAC to generate ramp wave, triangular wave and square wave.
- 9. Interfacing of 8-bit ADC
- 10. Interfacing of LCD display

## Experiments Using 8086 Assembler

11. Data transfer, addition, subtraction, multiplication, division and sum of series

- Company).
- 2. Electronic Communications Dennis Roddy and John Coolen (Pearson).
- 3. Communication Systems (Analog and Digital) R P Singh and S D Sapre. (TMH).
- 4. Electronic Communication Systems Kennedy and Davis (TMH)

## PHYL-321: Lab course 5 (Based on Electives A1/ B1/ C1/ D1)

## PHYL-321 - Lab course 5 (A1): 8086 Microprocessor and interfacing: Credits 3

#### Learning Objectives:

- 1. To facilitate the students to understand
  - a) The concepts of microprocessor and assembly language programming.
  - b) The concept of interfacing devices at laboratory as well industrial level
- 2. To provide an opportunity to the students to enter into entrepreneurship.

## Learning Outcome: Students will be able to learn

- a) Microprocessor architecture, physical configuration of memory, logical configuration of memory, microprocessor programming and interfacing.
- 1. Students will be capable to perform following job
  - a) Industrial automation using 8086 interfacing and programming.
  - b) Start his / her own small scale industry for manufacturing microprocessor based automated devices.



2. Students will have option to start his / her teaching career either in science or engineering colleges / institutes as this course is included in science as well engineering discipline.

#### Experiments using 8086 Kit

- 1. Data transfer, addition, subtraction, multiplication, division and sum of series
- 2. Factorial and square of the number
- 3. Sorting of data (ascending / descending), square root of a number
- 4. Arithmetic mean of N- numbers and sum of square of Numbers
- 5. Interfacing of SPDT switches and 7 segment display as a position encoder / decoder
- 6. Interfacing of stepper motor
- 7. Interfacing of DC motor
- 8. Interfacing of DAC to generate ramp wave, triangular wave and square wave.
- 9. Interfacing of 8-bit ADC
- 10. Interfacing of LCD display

#### **Experiments Using 8086 Assembler**

- 11. Data transfer, addition, subtraction, multiplication, division and sum of series
- 12. Factorial and square of the number
- 13. Sorting of data (ascending / descending), square root of a Number
- 14. Arithmetic mean of N- numbers and sum of square of Numbers

Note: Students should perform any eight experiments.

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### PHYL-322: Lab course 6 (Based on Electives A2/ B2/ C2/ D2)

PHYL-322 - Lab course 6 (A2): Microwave and communication Electronics: Credits 3

Learning Objectives: The themes dealt with in this paper:

- 1 6. Gain knowledge of microwaves, microwave components and verify the relationship between frequency and wavelength experimentally.
- 2 7. Experimental verification of the characteristics of Gunn and Klystron oscillators as microwave generators.





- 3 8. Determine the plane pattern and beam width of microwave horn antenna and study the inverse square law with the same.
- 4 9. Measure voltage standing wave ratio, S-parameters, Detector law, dielectric constant of solid and liquid with microwave bench setup.
- 10. Gain knowledge of communication and verify how the signal is transmitted and detected with different electronic circuits like PAM, PWM, PPM, FSK, and PL

## Learning Outcomes (COs): At the end of the course the student should be able to;

- CO-1 Understand the working use of all microwave components that may be used in a microwave X-band setup.
- CO-2 Assemble the bench as per the experimental requirement.
- CO-3 Obtain output power and perform experiment satisfactorily.
- CO-4 Conduct experiments smoothly, safely and interpret the data accordingly.
- CO-5 Apply practical knowledge of microwaves for other applications and research for finding basic properties of materials at microwave frequency.

#### Course contents:

- 1. Demonstrate the relationship between frequency (f), wavelength (1 o) in free space and Wavelength in waveguide (1 g)
- 2. Reflex Klystron Characteristics Mode diagrams, ETR and ETS
- 3. Gunn Diode Characteristics; I-V Characteristics, Power versus bias characteristics and Power-frequency characteristics
- 4. Microwave Horn Antenna E-H Plane pattern and Beam width
- 5. Study of square law behavior of microwave crystal detector and hence to determine Operating range and detection frequency
- 6. Study of high and low VSWR and impedance measurements using Smith chart.
- 7. Measurement of S- parameters of a) E-Tee b) Magic Tee c) Directional coupler.
- 8. Determination of dielectric constant of solids Two point method
- 9. Determination of dielectric constant of liquids Robert-Von Hipple method
- 10. Study of Faraday's rotational principle 10. Study of PAM and its detection
- 11. Study of Balance modulator using IC 1596
- 12. Study of FSK modulation and detection 13. Study of PPM and detection
- 14. Study of PLL
- 15. Study of PWM and detection
- 16. Reflection and refraction in microwaves.
- 17. Interference and diffraction in microwaves.

#### Laboratory Courses (LCs)

#### Developmental Biology (ZOO- 314): LC Based on ZOO-301

- 1. Whole Mount of different types of sperms.
- 2. Study of sperm count by Neubar's chamber.
- 3. Types of eggs and cleavage patterns.
- 4. Study of morphogenetic movements during development.
- 5. Stages of development in frog.
- 6. Studies of whole Mount of chick development; 16,18,24,33,36,48,72,98 hours.
- 7. Developmental stages of pond snail, Lymnaea.
- 8. Chick embryo and determination of its age.
- 9. Studies of cell death in chick embryo.
- 10. Regeneration in Planaria/Hydra.

#### Immunobiology (ZOO - 315): LC Based on ZOO-302

- 1. To determine the blood groups of given blood samples by slide agglutination techniques.
- 2. To perform double immunodiffusion (DID) by using Outhterlony's methods.
- 3. To carryout Immunoelectrophoresis.
- 4. To determine hemocytes from cockroach hemolymh.
- 5. To determine the activity of Phenoloxidase in hemolymph of cockroaches.

## Biostatistics & Microbiology and Human Welfare (ZOO- 316): LC Based on ZOO-304(a&b) and Animal Biotechnology ZOO-303

- i) Process the data using suitable computer software for calculating mean, median, and mode.
- 2. Calculation of average, variance, frequency distribution, standard deviation.
- 3 Making of graphs using Computer
- 4. Calculation of 't" test,( Unpaired and Paired)
- 5. Calculation of ANOVA
- 6. Calculation of Chi square test.
- 7. Techniques for isolation of pure cultures.
- 8. Gram stain for differentiation of bacteria.
- 9. Nutritional requirements: Media for the routine cultivation of Bactria.
- 10. Determination of growth curve of bacteria.
- 11. Methylene blue reductase test.
- 12. Standard qualitative analysis of water: Confirmed test of bacteria.
- Isolation colony characterization and Gram characteristics of bacteria from fermented food.(curd/idlibatter/ dhokla batter)
- 14. Testing of food adulteration (milk/ milk products/haldi or any food sample)
- 15. Determination of moisture in food sample. /Determination of ash in food sample
- 16. Antibiotic Potency test- Plate diffusion method (Minimum Inhibitory Concentration)
- 17. Visit to Food/ Pharmaceutical industry

#### Applied Parasitology - I (ZOO - 317):LC Based on ZOO-310

- 1. Study of different types of animal associations with suitable examples.
- 2. Study of different types of parasites, vectors etc.
- 3. Study of different/important ecto/endoparasites of poultry, fish, animal and human.
- 4. Study of hemoflagellates from vertebrate blood.
- 5. Preparation of blood smear, staining and identification of Haemosporina.
- 6. Study of different mosquito vectors of protozoan parasites.
- 7. Submission of permanent slides at the time of examination.

#### Animal physiology-I (ZOO-318):LC Based on ZOO-311

- 1. Effect of salinity on blood chloride content of crab.
- Effect of temperature on Heartbeat. Q<sub>10</sub> measurements in bivalve/crabs.
- 3. Estimation of glycogen from hepatopancreas and gonads of bivalve/crabs.
- Estimation of protein from hepatopancreas and gonads of bivalve/crabs.
- 5. Estimation of lipid from hepatopancreas and gonads of bivalve/crabs.
- 6. Estimation of cholesterol from hepatopancreas and gonads of bivalve/crabs.
- 7. Oxygen consumption in relation to sex and size/temperature of bivalve/leech/crabs.
- 8. Acid phosphatase activity in hepatopancreas of crab/bivalve.
- 9. Alkaline phosphatase activity in hepatopancreas of crab/bivalve.
- 10. Estimation of ascorbic acid from hepatopancreas and gonad of crab/bivalve.
- 11. Chromatophores in crustaceans and effect of background on color change.

#### Molecular Biology-I (ZOO- 319):LC Based on -ZOO-312

- 1. Extraction of genomic DNA from plant/bacterial/yeast/tissue/whole blood.
- 2. Determination of Molecular size of DNA.
- 3. Restriction digestion of DNA.
- Determination of molecular weight of different DNA fragments by running a standard marker on agarose gel electrophoresis.
- 5. Demonstration of plastids in the gel by gel electrophoresis.
- 6. To isolate and clearing of the DNA fragment of interest from the agarose gel.
- 7. To perform transformation of DNA into bacterial cells.
- To separate immunological proteins (alpha, beta and gamma) from serum by Sodium dodecyl sulfate polyacrylamide gel electrophoresis (SDS-PAGE).

#### Fishery Science-I (ZOO- 320):LC Based on ZOO-313

- 1. Identification of fish up to species level with suitable examples from each class.
- 2. Analysis of water: Turbidity, pH, dissolved oxygen, carbon dioxide, alkalinity, chlorinity.
- 3. Identification of plankton, nekton and benthos.
- 4. Fishing crafts and gears, hatching happa.
- 5. Identification fish parasites.
- 6. Identification of fish food ( at least twenty)
- 7. Visit to fish breeding centre.

- 15. Shang, Y.C. -Aquaculture Economic Analysis An Introduction. 1990.
- 16. Nikolsky, G.V. Ecology of Fishes. Academic Press, NY, 1963.
- 17. Hoar, W.S. & D.J. Randal- Fish Physiology, Vols. 1-4, Academic Press, NY,1970.
- 18. Carl, B.E. Biology of Fishes- Saunders, 1979.
- 19. Turnor- Textbook of endocrinology
- 20. Day, F.-The fishes of India.

#### Laboratory Courses(LCs):

#### Evolution and Behavior (ZOO- 409): LC Based on ZOO-401

- 1. Practical based on Hardy-Weinberg law.
- 2. Lederberg experiment.
- 3. Courtship behavior in Drosophila.
- 4. Wing beat and song produced.
- 5. Duration intervals of courtship songs (wing buzzing).
- 6. Reading behavior of praying Mantis.
- 7. Schooling behavior of fish.
- 8. Field visit to an animal husbandry centre.
- 9. Visit to NCCS, NCL, NIV, NARI Pune.

#### General Animal Physiology (ZOO-410): LC Based on ZOO-402

- 1. Qualitative survey of digestive enzymes in any vertebrate.
- 2. Estimation of salivary amylase activity.
- 3. Determination of abnormal and normal constituents of urine.
- 4. Estimation of chloride from haemolymph/ urine of cow.
- 5. Estimation of uric acid from serum.
- 6. Total count of R.B.C from human blood.
- 7. Differential count of W.B.C from human blood.
- 8. Estimation of Haemoglobin and carrying capacity of blood.
- 9. Measurement of blood pressure.
- 10. Hematin crystal formation.
- 11. Effect of temperature on the heart beat and Q10 measurement.
- 12. Effect of temperature on the rate of oxygen consumption
- 13. Measurement of respiratory quotients.

## Animal tissue culture, Virology and Epidemiology and applied Biotechnology ZOO-(411): LC based on ZOO-404 (a and B) and Applied Biotechnology II ZOO403

- 1. Study of cell viability determination by fluorescence staining method.
- 2. Study of cell viability determination by Trypan blue exclusion.
- 3. Characterization of cells by indirect immunofluorescences staining.
- 4. Isolation of hepatocytes by differential pelleting.
- 5. Standard procedure for cell separation by centrifugal elutriation (free electrophoresis).
- 6. Purification and preparation of neutrophils for FFE (Eggleton, 1989).
- 7. Isolation of erythrocytes.

- 8. Precipitin reaction: The ring test
- 9. Agglutination reaction: The febrile antibody test.
- 10. Cultivation of E.coli and isolation of its plasmid DNA by Mini prep Methods.
- 11.To cultivate lambda phage (λ) using appropriate E.coli culture.
- 12. To isolate DNA of bacteriophage lamda.
- 13.To culture animal viruses on various membrane of a developing chick embryo.
- 14. Drug Toxicity-LC50 and ED 50
- 15. Visit to Marine Research Laboratory or National Laboratory.
- 16. Antibiotic Potency test- Plate diffusion method (Minimum Inhibitory Concentration)
- 17. Visit to Food/ Pharmaceutical industry

#### Applied Parasitology-II (ZOO- 412):LC Based on ZOO-405

- 1. Study of prevalence and intensity of parasites from locally available hosts.
- 2. Demonstrate/study the effect of season/phonological factors as the prevalence and intensity of parasites.
- 3. Separation of immunological protein (alpha, beta, gamma) by paper or gel electrophoresis.
- 4. Estimation of antigen and antibodies in samples by quantitative precipitation essay.
- 5. Examination of fecal sample of sheep, goat and chicken.
- 6. Histopathology of Caeca of chicken to study different stages of schizonts.
- 7. Techniques for collection, fixation, preservation, staining and identification of different nematodes from different / various hosts.
- 8. Collection, preservation and identification of veterinary and medically important Annelids. Acanthocephalans and Arthropods.
- 11. Study of different types of mouthparts of vectors.
- 12. Visit to veterinary and medical parasitology/ pathology laboratory and study of food and water borne parasites.
- 13. Submission of permanent slides at the time of examination

#### Animal physiology-II (ZOO- 413):LC Based on ZOO-406

- 1. Denaturation and Coagulation of egg albumen.
- 2.Isoelectric point of Casein.
- 3. Effect of temperature on Heartbeat of fish, Q 10 measurement.
- 4.Effect of drugs on respiration of fish.
- 5. Estimation of Chloride from urine .
- 6. Estimation of Uric acid from rectum/blood of lizard/birds.
- 7. Determination of clotting time of blood.
- 8.Differential count of WBC form blood of human.
- 9. Effect of drugs on rate of heart beat.
- 10.Demonstration of Adrenalectomy and ovariectomy in rat.

#### Molecular Biology-II (ZOO- 414):LC Based on ZOO-407

- 1. Transformation of DNA in Bacteria.
- 2. Gene expression by Gal-x.

- 3. Detection/ determination of Auxotroph mutant.
- 4. Chromatin digestion with micrococcal nuclease.
- Isolation of DNA from animal / plant / bacterial cells by using kits.
- 6. Restriction digestion of DNA using nucleases.
- 7. DNA amplification using PCR.
- 8. Molecular weight determination using column chromatography and PAGE.
- 9. Isolation of plasmids from bacteria.

#### Fishery Science - II (ZOO - 415):LC Based on ZOO-408

- 1. Quantitative determination of glycogen, proteins and fats.
- 2. Dissections (any Bony fish)- digestive, reproductive, brain, pituitary gland and cranial Nerves.
- 3. Methods of food analysis with different feeding habits.
- 4. Study of different maturity stages and fecundity in fish.
- 5. Determination of growth in fish by scale or otolith method.
- 6. Determination of GSI and PI.
- 7. Histological preparation: Different glands and tissues.
- 8. Visiting CIFE, CIFA, FSI and CIFT etc.
- 9. Field work: Visit to fish production unit.

Research Project ZOO-416: The research project will commence from Semester III and the Final Dissertation should be submitted in the Semester IV Examination. The students have to defend their dissertation by means of open defense and viva -voce. The presentation should be with minimum 6-8slides

Dean & Technology
Faculty of Science & Technology
Or. Babasaheb Ambedkar Marathwada
Dr. Babasaheb Ambedkar Marathwada

#### ZOO/MJ/503

#### Practical based on ZOO/MJ/500

#### (Biosystematics and Animal Diversity)

- 1. Museum specimen study of different groups of Invertebrates.
- 2. Museum specimen study of different groups of Vertebrates
- 3. Terrestrial ecosystem (Vegetation studies)- Abundance, Frequency, Density, Relative Diversity, Dominance, Rounkers Biological Spectrum, Index of dominance etc.
- 4. Method of plankton collection, plankton identification and quantification from river or stream or lake water.
- 5. Method of collection, preservation and identification of zooplankton.
- 6. Composition assessment of taxonomical diversity or biodiversity in habitat from local Grassland, Terrestrial and wetland.
- 7. Composition assessment of taxonomic diversity/biodiversity from different ecosystems.
  a. a. Species diversity indices.
- 8. Relative density, relative frequency and relative abundance of species.
- 9.Method of collection, preservation and identification with keys from different group of organism like parasite, etc.
- Method of collection, preservation and identification with keys from different group of organism like insects, birds and fishes etc.
- 11. Construction of taxonomic Key from the character in an animal group.
- 12 .Construction of Phylogenetic tree from the characters of an animal group.
- 13 Study of larval forms in crusteceans /coelenterates/helminths(from permenant slides)
- 14. Visit to any biodiversity center / spots and submission of report.

#### ZOO/MJ/-504

#### Practical based ZOO/MJ/-501 (BIOCHEMISTRY)

- 1. Preparation of Acid and Alkali solutions
- 2. Preparation of acid base titration.
- 3. Preparation of Buffers of known pH, buffering capacity.
- Qualitative test for Carbohydrates.
- 5. Qualitative test for lipids.
- 6. Preparation paper model of DNA.
- 7. Estimation of Amino acid (Tyrosine)
- 8. Estimation of Protein by Lowry's method.
- 9. Estimation of Carbohydrates by Anthrone reagent method. (Glycogen)

- 10. Separation of amino acids by paper chromatography.
- 11. Separation of Proteins by Gel electrophoresis.
- 12. Study of factors affecting enzyme activity (Substrate concentration, pH, Temperature and Inhibitors)
- 13. Isolation of Casein protein from the milk.
- 14. Determination of isoelectric pH of Caesin.

#### ZOO/MJ/-505

#### Practical based on ZOO/MJ/-502

#### (ECOLOGY: PRINCIPLES AND PRACTICES)

- 1. Study of ecosystem biodiversity of local area.
- 2. Estimation of DO/BOD
- 3. Estimation of hardness of water sample. (Total. Sodium and Potassium hardness.)
- 4. Estimation of Salinity /Nitrates and phosphates from a given water sample.
- 5. Biomass analysis in a given ecosystem.
- 6. Species diversity in community and its measurement- Alpha diversity- Simpsons diversity index. Shannon index, Fisher alpha. Beta diversity- Sorensen's similarity index, Whittaker's index, Evenness, Gamma diversity, Guild and its functioning in the community.
- 7. Productivity estimation in given ecosystem (Primary and Secondary) 8. Study of efficiency of sampling method.
- 9. Study of air quality and aerobiology in given area. 10. Toxicology- Principles, toxicants- types, dose and effects, toxicity of heavy metals
- 11. Measuring ecotoxicity using a lettuce seed assay.
- 12. Estimation of various physical parameters of water (SSP, Turbidity, TDS etc).
- 13. Visit to any biodiversity centre /National park/Sanctuary and submission of report.

#### Practical

#### ZOO/MJ/-506-Skill/ Advanced technique

#### Unit-V Neuroendocrine mechanisms in Echinodermata.

- 1. Histomorphology of radial nerve neurosecretory system in starfish.
- 2. Neurosecretory hormones and control of reproduction in Echinodermata.
- 3. Hormone types and their chemical nature in echinoderms.

#### References

- 1. Highnam K.C. and Hill L: The comparative Endocrinology of Invertebrates.
- 2. Adiyodi and Adiyodi: Reproductive Biology of invertebrates Vol. I & II.
- 3. Laufer H. and Downer R.C.H. Endocrinology of selected invertebrates Types.
- 4. Journals and Internet resources.
- 5. Boolootian R.: Physiology of Echinodermata.

#### Reference Book

- 1. Patil Meena: Neurobiology and Electrophysiology of Decapod.
- 2. Crustacean Lockwood , A.P.M.: Aspects of Physiology of Crustacea.
- 3. Novak, U.J.A.: Insect hormones.
- 4. Rock stein M.: The physiology insect Vol.I.
- 5. Wilbur K.M. and Young ,C.M. Physiology of Mollusca Vol.I and II Mill P.J. Physiology of Annelida.

#### ZOO/DSE/-508

#### Praciticals based on ZOO/DSE/507 (Helminthology I)

- 1. Examination and survey of host(vertebrates) for parasitic col lection
- 2. .Collection of trematodes and cestodes from various host.
- 3. Preservation, staining and mounting of collected trematodes & cestodes and preparation of their permanent slides (At least 10 from cestodes and 10 from trematode).
- 4. Identification of parasites from the prepared slides.
- 5. Study of different trematode and cestodes from permanent slide (At least 10 from cestodes and 10 from trematode).
- 6. .Study of hold fast organs in helminths.
- 7. Examination of fecal samples for ova.
- 8. Study of different larvae of helminth parasites (from permanent slides)
- 9. .Collection and examination of molluscan hosts for larvae of trematode.
- 10. .Study of effect of helminth parasites(histopathology) on the host tissue
  - a. micro technique.
- 11. Submission: At least five permanent slides to be submitted at the time of practical examination.

#### ZOO/DSE/-510

#### Practical based on ZOO/ DSE /-509 Protozoology-I

- 1. Collection, observation in living condition-fixation, staining and identification of protozoa from different habitats.
  - a. Marine Protozoa
- 2 Collection, observation in living condition-fixation, staining and identification of Planktonic protozoa.
- 3. Collection, observation in living condition-fixation, staining and identification of Soil protozoa.
- 4. Study of population density of ciliates in fresh water.
- 5. Study of ecological factors in relation to freshwater ciliates.
  - a. Oxygen b. Carbon dioxide
  - c. pH .d. Oxidized organic matter
- 6. Study of different protozoans
- 7. Study of cyclosis in Paramecium.
- 8. Study of contractile vacuole to observe excretion and osmoregulation.
- 9. Submission of slides.

#### ZOO/DSE/-512

#### Practical based on ZOO/ DSE /-511 Entomology-I

- 1. Study, mounting and sketching of types of mouth parts, antennae
- 2. Study, mounting and sketching of wings, legs.
- 3. Study, mounting and sketching of genitalia of various insects.
- 4. Dissections of Digestive system of five available/ at least 3 insects.
- 5. Dissections of Reproductive system of five available/ at least 3 insects.
- 6. Dissections of Nervous system of five available/ at least 3 insects.
- 7. The Study and preparation of permanent slides of any five organs of at least 2 insects.
- 8. Estimation of enzyme activities of Amylase, Invertase, Lipase & Protease in the alimentary canal / midgut of cockroach.
- 9. Detection of uric acid as an end product of excretion in any terrestrial insect.
- 10. Study of types and Total count of haemocytes in haemolymph of any one insect.
- 11. Determination of role of insect hormones in the pupation of insect larvae by ligature technique.
- 12. Study of eggs, larvae and pupae / nymph of any one insect.

#### ZOO/DSE/514

#### Practical based on ZOO/DSE/513 (Endocrinology-I)

- 1. Histomorphological study of neuroendocrine system in various invertebrates (Annelids, Mollusca Arthropoda etc) (At least 10 Slides)
- 2. Dissection of nervous systems in different invertebrates (Leech, Crab, Cockroch. etc)
- 3. Histological preparation of slides of neuroendocrine centers (at least 5)
- 4. Effect on brain removal on oxygen consumption in leech.
- 5. Effect of background on integument chromatophores of the freshwater prawn, *Caridina/Macrobachium*.
- 6. Effect of eyestalk removal on oxygen consumption of freshwater crab/prawn.
- 7. Effect of eyestalk removal on blood glucose level in crab/prawn.
- 8. Effect of eyestalk removal on chromatophores in relation to background adaptation in *Cariadina/Macrobacrium*

#### PRACTICALS

#### ZOO/MJ/-553

#### Practical based on ZOO/MJ/-550 Genetics and Bioinformatics

#### Genetics and Bioinformatics (Any 8)

- 1. Determination of blood groups and suggestions on Medico legal problems regarding the parentage disputes using blood groups.
- 2. Problems based on interaction of genes
- 3. Culture of Drosophila melanogaster and study of its life cycle stages
- 4. Mutant studies in Drosophila.
- 5. Identification of blood group, a case study of multiple alleles.
- 6. Chironomous larva Giant Chromosomes
- 7. Study of gene frequency using PTC tests (taster and non tasters)
- 8. database search and data retrieval-using NCBI, SWISS-PROT, PDB, Expasy.
- 9. Methods of sequence alignment-BLAST and Clustal W.
- 10. Phylogenetic tree using PHYLIP.
- 11. Gene Prediction using GENSCAN/GRAI.
- 12. Protein structure visualization using RASMOL.

#### ZOO/MJ/-554

#### Practical based on ZOO/MJ/-551 Cell and Molecular Biology

- 1. Preparation of different cell types as hepatocytes/ parenchymal cells
- 2. Study of tumor and cancerous cell (Use permanent slides)
- 3. Study of Stages of Mitosis (permanent slides)
- 4. Study of Stages of Meiosis (permanent slides)
- 5. Squash preparation of grasshopper testis to study meiotic stages.
- 6. Determination of mitotic index in the squash preparation of onion root tip. Effect of drugs on cell division (Colchicine or any other inhibitor)
- 7. Study of mitochondria by vital staining technique.
- 8. Fulgen reaction- Staining of DNA.
- 9. Micronuclei test.
- 10. Induction of puff and study of puffing pattern.
- 11. Study of polytene chromosomes.
- 12. Preparation of Microtome section, spreading.
- 13. Histochemical staining of carbohydrates (PAS), Protein (Bromophenol blue), lipids (Sudan Black), DNA (Fuelgen stain).

#### ZOO/MJ/-555

#### Practical based on ZOO/MJ/-552 Immunobiology

- 1. To study the immunological techniques. (Cell culture, ELISA, Flow cytometry)
- 2. To study the different cells of immune system (by permanent slide/charts)
- 3. To determine the blood groups of given blood samples by slide agglutination, technique.
- 4. Blood group antigen and research system
- 5. Blood cell count
- 6.To perform double immunodiffusion (DID) by using Outherlony's method.
- 7. To carry out Immunoelectrophoresis..
- 8.To determine haemocytes from cockroach hemolymph.
- 9. To determine the activity of Phenol oxidase in haemolymph of cockroaches
- 10. To study the immunodeficiency diseases.

Praictical.

ZOO/MJ/-556- Skill/ Advance technique

#### ZOO/DSE/558

#### Practical based on ZOO/DSE/-557 Helminthology-II

- 1. Collections of Nematodes from locally available animals
- 2. Basic techniques of preservation and mounting of Nematodes
- 3. Identification of collected Nematodes
- 4. Fecal sample analysis for collection and identification of ova.
- 5. Study of permanent slides of animal nematodes (At least 8).
- 6. Study of larva.
- 7. Collection and identification of Phyto nematode.
- 8. Techniques of collection, fixation, mounting and preparation of permanent slides of phytonemes.
- 9. Study of permanent slides of plant nematodes.
- 10. Submission of permanent slides at the time of examinations.

#### ZOO/DSE/560

#### Practical based ZOO/DSE/558(Protozoology II)

- 1. Classification of parasitic protozoa.
- 2. Study of ciliates in alimentary canal of vertebrates and invertebrates.
- 3. Impregnation of ciliates with dry silver nitrate for study of kinetic structure.
- 4. Study of haemoflagellates from vertebrate blood.
- 5. Preparation of blood smear, staining and identification of staining of haemosporina.
- 6. Histopathology of host tissue caused by Apicomplexan parasites.
- 7. Examination of fecal sample of vertebrate host for oocyst of coccidia.
- 8. Collection of coccidian oocysts by centrifugation method.
- 9. Observation of oocysts for sporulation.
- 10. Study of different mosquito vectors of protozoan parasites.
- 11. Collection of Myxozoa from fishes.
- 12. Study of binary fission and conjugation in ciliates

#### **ZOO/DSE/-562**

#### Practical Based on ZOO/DSE/-559 Entomology II

- 1. Collection, preservation, sketching, identification and classification of insects from Marathwada belonging to orders- Thysanura, Collembola, Odonata, Orthoptera, Mallophaga, Anopleura, Isoptera.
- 2. Collection, preservation, sketching, identification and classification of insects from Marathwada belonging to orders Hemiptera, Coleoptera, Neuroptera, Hymenoptera. Lepidoptera. and Diptera and insects from Marathwada.
- 3. Identification damage symptoms, and management practices of pests of Jowar. Cotton, Sugarcane, Soyabean,
- 4. Identification damage symptoms, and management practices of pests of Vegetables, Fruit Crops. Stored grains.
- 5. Collection and study of parasitic, predatory and biological control agents.
- 6. Collection and study of pollinator insects,
- 7. Collection and study of forensic insects.
- 8. Study of insect vectors like mosquito, bed bug, flea, body louse, rat flea.
- 9. Study of silk worm adult, caterpillar, cocoon and types of silk worms.
- 10. Study of Indian species of honeybee and Study of life cycle of honeybee.

- 11. Study of Indian species of Lacifer lacca and its life cycle stages.
- 12. Field visit for demonstration of pest damage/Sericulture farm/Apiculture farm.

#### ZOO/DSE/-564

#### Practical based on ZOO/DSE/-560 Endocrinology- II

- 1. In situ demonstration of endocrine glands in rat or by demonstration using visual aids.
- 2. Histological study of endocrine glands in different vertebrate representatives
- 3. Anatomical studies of reproductive system in and rat
- 4. Study of estrous cycle in rat
- 5. Endocrine gland removal in rat- a) Orchidectomy b) Ovaryectomy
- c) Adrenalectomy d) Thyroidectomy
- 6. Effect of thyroxin on oxygen consumption in fish
- 7. Chromatophores and colour changes in fish (a) Effect of back ground and (b) Effect of MSH injection.
- 8. Determination of cholesterol in the adrenal gland of rat.
- 9. Effect of insulin on blood glucose levels in fish / rat
- 10. Histological techniques: preparation of permanent slides for histological structure of endocrine glands of rat (at least 5 be submitted)

## ZOO/OJT/FP/565 -On job training/Field project







## NEP-2020 BASED CURRICULAM, FOR PG COURSE IN AFFILIATED COLLEGES OF DR.BAMU, AURANGABAD

		Semester: I		
Course Name: Inorganic Chemistry Laboratory Course-I		Course Code: CHEL/MJ/ 504		
Course type : DSC-5		4 Hrs/ Week		
Total contact hours: 60 Hrs Lab. Work Credit: 2 Marks: 50		Marks: 50		
Course outeor	nes:			
On completion	n of this course, tl	ne students will be able:		
1. To und	erstand the differ	ence between qualitative and	l quantitative analysis.	
chemic	cal reactions and	constituents.	ative chemical analysis and their	
3. To uno volum	To understand the design and development of experimental setup and procedure, for volumetric and gravimetric analysis of chemical compound.			,
4. To ide	To identify constituents of chemicals qualitatively and quantitively			
analy	sis		n in measurement of chemical	
	To apply grasped knowledge to solve chemical analysis related issues of stakeholder.			r.
	To understand importance of laboratory skills, precaution, accuracy and precision.			
	To separate and identify acidic & basic radicals from chemical sample.			
9. To at	Like swiedge in chemical analysis of unknown sample.			
List of expo	eriments			-
	up-1 (Any 3)		4	
L Sepa	ration and Ident	ification of three basic rad qualitative analysis method	icals from II group sample and their chemical reactions.	
2. Sep	aration and Ident	ification of three basic radio	cals from III-A group sample and their chemical reactions.	
3. Sepa	aration and Ident ture by semimicro	ification of three basic radio o qualitative analysis method	cals from III-B group sample and their chemical reactions.	_
4. Sep.	aration and Iden ture by semimicro	tification of three basic rac o qualitative analysis method	dicals from IV group sample I and their chemical reactions	
5. Sep	aration and Ident	ification of three basic radic	als from special group sample I and their chemical reactions.	
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Pathan Mohd Arif All Khan

M.Sc. Chemistry I & II Semester effective from 2023-24 & onwards

Dr. Babasaheb Ambedkar Marathwada

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VIII.	STATE OF		-
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00//	Gr	oup- II (Auy 3)	-
		topic madicals (10) II, III/I and IIID	
	6.	Separation and Identification of three basic radicals from groups sample mixture by semimicro qualitative analysis method and their	
	0.	by semimicro quantative analysis means	
		groups sample man	-
		chemical reactions.  Separation and Identification of three basic radicals from IIIA, IIIB & IV	
		three basic faultus from the	
- 1	7.	Separation and Identification of three obsideration and Identification of three obsiderations and Identification of the Identification of the Identification of the Identification of Identification	
-		groups sample mixture by semimere quantity	
1		chemical reactions.	
-		Separation and Identification of three basic radicals from IIIA, IIIB & V groups	
	8.	Separation and their relations of the separation and their chemical	
- 1		sample mixture by semimicro qualitative analysis method and their chemical	
		reactions.	
-	0	Separation and Identification of three basic radicals from IIIA, IV & special	
	9.	Separation and Identification of three basic faulters from first, it is special	
		groups sample mixture by semimicro qualitative analysis method and their	
		chemical reactions.	
		Group- III (Any 3)	
-	10.	Identification of Carbonate, Chloride Iodide and Acetate, ions from given	
- 1		mixture by semimicro qualitative analysis method along with chemical reaction	
		of each radicals.	
	11.	Identification of Nitrata Phoceshots Overland and C. L. L.	
		Identification of Nitrate, Phosphate, Oxalate and Sulphate ions from given	ł
1		mixture by semimicro qualitative analysis method along with chemical reaction	- 1
1		of each radicals.	- 1
	12.	Identification of the Marita David	- 1
		identification of the Chloride, Bromide, Iodide and Acetate ions from given	
-		with Chemical reaction of each region to	- 1
	13	Identification of Phosphate , Oxalate , thiosulphate and Acetate ions from given	- 1
-		mixture by and Acetate ions from given	
1		mature by semimoro qualitative analysis method along with above and	- 1
		of each radicals.	- 1
	14	Identification of Carbonate, Nitrate, Oxalate and thiosulphate ions from given	
		mixture by and it. Oxalate and thiosulphate ions from the	
	- 1	mistate by semimicro qualitative analysis method alarmine for strom given	ı
-		of each radicals.	- 1
		Group- IV (Any 3)	- 1
1	15	Qualitative	
1 -		analysis of metal ions present in a sil	- 1
	6.	Qualitative analysis of metal ions present in soil sample.	
		Determine the temporary and permanent hardness of given sample of water  To determine the percentage of place.	
	7.	and permanent hardness of given sound	
1	1.	to determine the percentage of water	
_	1	Ammonium at prosphate as DL	
1	8.	To determine the phosphomolybdate method	
		To determine the percentage of oxalate ion from sodium oxalate by volumetric  by Vollager.	- 1
-		miculon Dyalata	- 1
1	9.	To determine the	
		by Volley of the percentage purity of the second se	1
-	-	Sodium chlorida is	- 1
1		references Booke Booke	
1.	-	To determine the percentage purity of Sodium chloride in commercial salt sample  References Books	
		A lext book of W:	1
		Edn. A. I. Vos. I Vos.	$\dashv$
0	1	vogel micro Qualitativa i	
13	1	A Text book of Micro and Semi micro Qualitative Inorganic Analysis- IV	
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	-	Hall gallon	2.1

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## NEP-2020 BASED CURRICULAM FOR PG COURSE IN AFFILIATED COLLEGES OF DR.BAMU, AURANGABAD

and courts & course a	A Text book of Quantitative Inorganic Analysis- A. I. Vogel	
1	1 Text book of Quantitative morgani	
1	1. Observatory Pass Geoffrey and Haydn Sutcliffe	
	Practical Inorganic Chemistry- Pass Geoffrey and Haydn Sutcliffe	-
1	Advanced Practical Inorganic Chemistry- Gurudeep Raj	
The same of the sa	Advanced Practical Inorganic Chemistry Carry	<del>                                     </del>
	Analysis, VII Edn. Orient Longman Ltd. D.	1
5.	Vogel's Qualitative Inorganic Analysis- VII Edn. Orient Longman Ltd. D.	
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	i i - Ouglitative Inorganic Analysis- IVedn,	
6.	A Text book of Micro and Semi micro Qualitative Inorganic Analysis- IVedn,	
***	A. I. Vogel	
	L A plusis A I Voge	
7.	A Text book of Quantitative Inorganic Analysis- A. I. Vogel	-
\ '.	Practical Inorganic Chemistry- Pass Geoffrey and Haydn Sutcliffe	
8.	Progress Inorganic Chemistry- Pass Geometry and Trage	

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The suppression of the state of	Semester : I	
Course Name: Organic Chemis	try Laboratory Course-1	Course Code:CHEL/MJ/- 505
Course type : DSC-6		4 Hrs/ Week
Total contact hours :60 Hrs	Lab. Work Credit: 2	Marks: 50

#### Learning Outcome:

On completion of this course, the students will be able

- 1. Understand the separation and purification techniques
- 2. Understand various step involved in identification of organic compounds
- 3. Understand the handling of equipment required for the analysis of organic compounds.
- 4. Understand the stichometry of the reaction
- 5. To check the purity of compound using TLC
- In check the Melting point

#### List of experiments

## Qualitative Organic Analysis

Separation, purification and identification of binary (Solid-Solid) mixtures with one water soluble compound.

The separation should be carried out using Chemical method/ physical method The two components are solid-solid mixtures.

Student should submit the purified samples of the separated compounds and prepare a suitable derivative of the two compounds separated out.

Note: Analysis of at least five mixtures should be carried out.

#### 2 Single Stage Preparations

- i) p-naro acetanilide from acetanilide.
- in Dibenzylidene acetone from Benzaldehyde
- iii) p-r itrobromobenzene from bromobenzene
- iv) salicyladehyde from phenol ( Reimer Tiemann reaction)
- v) b benzol propionie acid from succinic anhydride
- Note: i) The preparations should be carried out using (0.02 to 0.05 mole) of the
- ii) The yield, melting point and TLC of the recrystalised product should be recorded. Note Student will not be allowed for practical examination if his/her record book is

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## NEP-2020 BASED CURRICULAMI FOR PG COURSE IN AFFILIATED COLLEGES OF DR.BAMU, AURANGABAD

		Semester: 1		
nurse N	ame: Physical Chemistry	Laboratory Course-1	Course Code:CHEL/MJ/-506	
THE STREET, ST	Dec 7		4 Hrs/ Week	
April 100 market and the second	urse Type: DSC-7	Lab. Work Credit: 2	Marks: 50	
Total co	utact hours :60 Hrs	Lab. Work Cream 2		
	Course Outcomes:			
	On completion of this cou	rse, the students will be able:		
1.	To analyse sample by vari	ious instrumental techniques		
2.	To handling of electronic	equipment		
3.	To understand laboratory	skills, precaution, accuracy an	nd precision.	
4.	To design experimental	procedure for analysis importan	t chemicals &samples	
5.	To understand the physi	cal properties of chemicals		
6.	To distinguish accuracy of results in instrumental and non instrumental methods			
Unit	-I: Instrumental	A A A A A A A A A A A A A A A A A A A		
1.	Determination of strengths of halides in a mixture potentiometrically.			
2.	1	rength of strong and weak acid	in a given mixture	
3.	Determination of solut	pility and solubility product of s	sparingly soluble salt BaSO4.	
4	Determine the pK <sub>1</sub> and	d pK2 value of phosphoric acid	by pH me try.	
5	. Determine the indicate	or constant of given indicator b	y colorimetric measurements.	
7. of lattice parameters & particle				
		& particle sizes,	oce &fee metal oxides &calculati	
	water, evolution of h	ittice oxygen and phase transiti		
1	Thermal analysis o transition temperature	f any 5 well known polymer res.	's and interpretation of their gl	
J. Park	Init-II: Non-Instrumenta			

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M.Sc. Charaistry I & II Semester effective from 2023-24 & onwards

Dr. Babasaheb Ambedkar Dr. Babasaheb Ambedkar Aurangabad (M.S)



and the second of	Determine the molecular refraction of methyl acetate, ethyl acetate, n-hexane and carbon
1.	tetrachloride and calculate the refraction of CH <sub>2</sub> , C, H and O atoms.
7	To study the effect of surfactants (sodium chloride) on surface tension of given liquid.
3.	To determine the radius of molecule by viscosity measurements.
4.	Determine the solubility of benzoic acid in water at different temperature and hence its
٠,.	heat of solution.
5.	Determine the formula of the complex formed between Cu(II) and ammonia by
	distribution method.
6.	Determine the velocity constant of hydrolysis of ester.
Refe	rence Books:
1.	Systematic experimental physical chemistry – T. K. Chondhekar & S.W. Rajbhoj
2	Experiments in chemistry D.V. Jahagirdar

crof, Pathan Mohd Arif All Khan

## NEP-2020 BASED CURRICULAM FOR PG COURSE IN AFFILIATED COLLEGES OF DR.BAMU, AURANGABAD



	Semester : 11	
Course Name: Inorganic Chemist	ry Laboratory Course -II	Course Code: CHEL/MJ/- 554
Course type : DSC-12		d Hrs/ Wook

Total contact hours :60 Hrs Lab. Work Credit: 2 Marks: 50

#### Learning outcomes:

On completion of this course, the students will be able:

- To design experimental procedure for synthesis of metal complexes, calculation of conversion factors and characterization of synthesized coordination complexes compounds.
- To understand, which skills are required in chemical laboratory.
- To understand importance of accuracy and precision in chemical analysis
- To design the experimental procedure for separation and estimation of metals from mixture solution
- To estimate the amount of constituents of chemicals by volumetric and gravimetric methods.
- To apply grasped knowledge for finding purity of chemicals.

#### List of experiments

And the second	Group-1 (Any 3)	
1.	Preparation of [Mn(acac)3] complex and its spectral analysis.	
2.	Preparation of Hg[(Co(SCN)4] complex and its spectral analysis.	
3.	Preparation of [Co(III)(NH <sub>3</sub> )6]Cl <sub>3</sub> complexes and its spectral analysis.	
4.	Preparation of [Ni (NH <sub>3</sub> ) <sub>6</sub> ]Cl <sub>2</sub> complex and its spectral analysis.	
	Group- II (Any 2)	
5.	Preparation of Cis-K[Cr(C2O4)2(H2O)2] complex and its thermogravimetric analysis.	
6.	Preparation of VO(acac)2 complex and its thermogravimetric analysis.	

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Board of Studies in Chemistry,

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## NEP-2020 BASED CURRICULAM FOR PG COURSE IN AFFILIATED COLLEGES OF DR.BAMU, AURANGAS

	Property of IC 2011	089
	Preparation of [Cu(NH <sub>2</sub> )4]SO <sub>4</sub> .H <sub>2</sub> O complex and its thermogravimetric analysis.	
	Group- III (Auy 3)	
	Preparation of K <sub>3</sub> [Fe(C <sub>2</sub> O <sub>4</sub> ) <sub>3</sub> ] complex and estimate the amount Iron present in it.	
9.	Preparation of [Co(III)(NO <sub>2</sub> )(NII <sub>3</sub> ) <sub>3</sub> [Cl <sub>2</sub> complex and estimate the amount cobalt present in it.	
10	Preparation and estimation of percentage of copper from the [Cu (NH <sub>2</sub> CSNH <sub>2</sub> ) <sub>3</sub> ] (NO <sub>3</sub> ) <sub>2</sub> complexes	
	Group- IV (Any 3)	
	<ol> <li>Separation of Copper and Nickel from the given binary mixture sample and estimate the amount of Copper by volumetric and Nickel by gravimetric method.</li> <li>Separation of Nickel &amp; Zinc from given binary mixture sample and estimate the amount of Zinc by volumetric method and Nickel by gravimetric method.</li> <li>Separation of Copper &amp; Barium from given binary mixture sample and estimate the amount of Copper by volumetric method and Barium by estimate the amount of Copper by volumetric method and Barium by</li> </ol>	
	gravimetric method.  14. Separation of Iron & Aluminium from given binary mixture sample and estimate the amount of Aluminium by volumetric method and Iron by	
	Separation of Copper & Iron from given blindy limited and Iron by estimation of amount of Copper by volumetric method and Iron by	
	16. Separation of Iron & Magnesium volumetric method.	
	Group- V (Any 3)  Determination of percentage purity of concentrated hydrochloric acid by volumetric method.	
	18. Determination of chemical oxygen demand from given sample of water by	
•	Determination of dissolved oxygen from given sample of water by volumetric method.	



## 2-2020 BASED CURRICULAM FOR PG COURSE IN AFFILIATED COLLEGES OF DR.BAMU, AURANGABAD

20.	Determination of the percentage purity of copper sulphate from given commercial sample.	
21.	Determination of the amount of water content in commercial sample of copper sulphate.	
	References Books	
l.	Advanced Practical Inorganic Chemistry- GurudeepRaj;.	
2.	Practical Inorganic Chemistry- Pass Geoffrey and Haydn Sutcliffe.	
3.	A Text book of Micro and Semi micro Qualitative Inorganic Analysis, IVedn. A. I. Vogel	
4.	A Text book of Quantitative Inorganic Analysis; A. I. Vogel	
5.	Vogel's Qualitative Inorganic Analysis, VII Edn. Orient Longman Ltd. D. Svehla	

Prof. Pathan Mohd Arif All Khan
Chairman
Board of Studies in Chemistry,
Dr. Babasaheb Ambedkar Marathwada
University, Aurangabad (M.S)

# NEP-2020 BASED CURRICULAM FOR PG COURSE IN AFFILIATED COLLEGES OF DR.BAMU, AURANGABAD

		Semester : II				
part and the second or residence	N. C.					
	Name: Organic Chemistry	Laboratory Course-II	Course Code:CHEL/MJ/- 555			
Course type : DSC-13			4 Hrs/ Week			
Fotal c	ontact hours :60 Hrs	Lab. Work Credit: 2	Marks: 50			
	Course Outcomes	Angusta representation of the second				
	1. To Perform/demonst	rate the techniques involve	d in organic binary mixture			
	separation specially so 2. To perform distillation	na- nquia mixture. on techniques for purificati	on of organic compounds.			
	3. To use/ apply the tee	chnique of separation, cryst	allization derivatization and			
	function Group detecti	on.				
	4. To use the methods reaction	for the preparation of user	d compounds using named			
	List of experiments					
1	The separation should be The two components are Student should submit the a suitable derivative of Note: Analysis of at least	and identification of binary are carried out using Chemic e solid-liquid mixtures. The purified samples of the souther two compounds separatest Five mixtures should be	eparated compounds and prepare ed out.			
2	Single Stage Preparations:  i) p-Bromo acetanilide from acetanilide.  ii) 1.4-dichlorobenzene from p-chloroaniline  iii) Benzophenone from benzene (Friedel Craft)  iv) Cinnamic acid from Benzaldehyde (Perkins reaction)  v) o-iodo benzoic acid from anthranilic acid					
The second second is a second	Note: i) The preparati starting material. ii) The yield, melting	ons should be carried out	using (0.02 to 0.05 mole) of the recrystallized product should be camination if his/her record both			

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is not completed and certified.



## NER 2020 BASED CURRICULAMI FOR PG COURSE IN AFFILIATED COLLEGES OF DR.BAMU, AURANGABAD

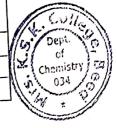
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Seed a			Semester: II	
• //	//	urse Name: Physical Chemistry Labo	oratory Course -II	Course Code: CHEL/MJ/556
		urse Type: DSC-14		4 Hrs/ Week
				Marks: 50
	Tota	al contact Hours :60 Hrs	Lab, Work Credit: 2	
	1	Course Outcome:		
	***	On completion of this course, the	e students will be able:	,
	2.	To analyse sample by various in	strumental techniques	
	3,	To handling of electronic equipn	ient	
	4.	To understand laboratory skills,	precaution, accuracy and p	precision.
	5.	To design experimental procedur		
	6.	To understand the physical prope		
	7.	to distinguish accuracy of result		Defermental markets
				istramental memods
	1.	Unit-I: Instrumental		
	2.	Determination of dissociation con	nstants of phosphoric acid r	Votantia
	3.	of dissociation cor	istants of weak acid potent	200.42
	4.	Determination of acidic and basic isoclectic point.	dissociation constants of a	ometrically.
	<u> </u>	Determination of the	constants of a	n amino acid and its
	5.	Determination of equilibrium que complex.	tient for the formation of m	nonothiocynato iron (III)
	6.	To study the kineties of mutarotat	ion of aluments	
	7.	Study of thermal analysis (TG/D7 decomposition of CaCO <sub>3</sub> , KClO <sub>3</sub>	A/DSC) in atmosphere of	arographically.
	0	decomposition of CaCO <sub>3</sub> , KClO <sub>3</sub> Synthesis of various crystalline m	etc in environment of gases	evolved gases e.g
	8.			
	9.	the column to th	on by using solid acid cataly	oxide and
	10.	reaction kinetics by IR spectrosco Study of kinetics of zeolite and	py.	st and study of the
	11.	Study of kineties of zeolite synthe	sis by infrared spectroscopy	3.
		Identification of acidic and basic s Unit-II: Non-Instrumental	ites of a catalyst by in situ	infrared spectrosco
_				у-этозору,
		To study the adsorption of acetic acexamine the validity of Freundlich a	nd Langmuir's isotherm	by activated charcoal and
	1 1	Waler).	mice component	
	3.	Lo study auto catalysis reaction betw	veen potassium par	acetic acid
31	han h	Aobd All Chan	, manufin permangana	te and oxalic acid.
	1. ()	Jim		

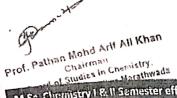
## 2020 BASED CURRICULAM FOR PG COURSE IN AFFILIATED COLLEGES OF DR.BAMU, AURANGABAD

- Determine the rate constant of the reaction between potassium persulphate and potassium iodide having equal/unequal concentration of the reacting species.
- To study the variation of viscosity with the composition of mixtures (ethanol-water-11NO3 -chloroform) and to determine the formation of complex between two liquids.

### Reference Books:

- 1. Systematic experimental physical chemistry T. K. Chondhekar& S.W. Rajbhoj
- 2. Experiments in chemistry D.V. Jahagirdar





M.Ss. Chemistry I R. II Semester effective from 2023-24 & onwards





## BSc IV Semesters Core course (Practical Paper VI) CHE-322 Organic Chemistry



Credits 1.5

4 Lectures per week

## Organic Qualitative Analysis (Five mixtures: water insoluble solid-solid type)

Separation of Two Components from given binary mixture of organic compounds containing mono and di-functional group (carboxylic acid, phenols, amines, nitro, anilide etc.) and systematic identification of one component qualitatively.

### **Organic Preparations**

(Confirmatory Test of functional group: M.P and purity by TLC) (Preference should be given to green approach for following synthesis)

- 1. Preparation of benzoic acid from ethyl benzoate
- 2. Acctylation of primary amine
- 3. Base catalysed Aldol condensation =
- 4. Preparation of Quinone from hydroquinone
- 5. Preparation of phthalimide from phthalic acid.

### Organic estimations

- 6. Determine alcoholic OH groups by pthalation with pthalic anhydride in pyridine.
- 7. Determination of equivalent weight of a carboxylic acid by titration with standard aqueous alkali solution.
- 8. Estimation of amino acids by formol titration
- 9. Estimation of carbonyl compound with 2,4 dinitrophenyl hydrazine
- 10. Estimation of aldehyde/ketone by hydroxylamine -pyridine procedure

- C1. Comprehensive Practical Organic Chemistry by V. K. Ahluwalia and Renu Aggarwal Reference books
  - 2. A hand Book of Practical Chemistry, Dr. S. J. Naik, Phadake Prakashan. 3. Practical Organic Chemistry by Mann, F.G. & Saunders, B.C. Orient-Longman, 1960.
  - 4. Vogel's Textbook of Practical Organic Chemistry, Tatchell, A.R., Furnis, B.S.,
  - Hannaford, A.J. & Smith, P.W.G., -5. Elementary practical organic chemistry Part III quantitative analysis by A I Vogel
    - 6. Elementary practical organic chemistry Part I qualitative analysis by A I Vogel
  - 7. Elementary practical organic chemistry Part II preparations by A I Vogel

Prof. Pathan Mohd Ant All Board of Studies in Chemistry Joard of Studies in Chemistry, ada hoard of Studies in Chemistry, at a character of the cha



## Course Structure of B.Sc. program (Faculty of Science) under CBCS pattern:

## Dr. Babasaheb Ambedkar Marathwada University, Aurangabad Choice Based Credit System (CBCS) Structure & Curriculum B.Sc. Botany Three Year Undergraduate Degree Program

Semester I		le mu	Periods	Credits	Sch	eme of E	xamina	tion
Course	cse Course Code	Course Title	(Periods /week)		Max Marks	CIA	UA	Min Marks
	BOT-111	Diversity of Cryptogams - I	45(3/week)	02	50	10	40	20
Optional I (DSC-1A) Core Courses	BOT-112	(Theory Paper-I)  Morphology of Angiosperms (Theory Paper-II)	45(3/week)	02	50	10	40	20
	BOT-121	Lab Course I (Based on BOT-111 and BOT-112)	45(3/week)	1.5	50	10	40	20
Ability Enhancement compulsory courses (AECC-1)	ENG-131	Communication skills in English-I	45(5/week)	03	50	10	40	20
	SL-132	Marathi/Hindi/Additional English/Urdu/Sanskrit A student can opt for any one of these languages ( SL-I)	45(4/week)	03	50	10	40	20
Non-Credit Course							200	100
N. S. C.	ACCOUNT OF THE PARTY OF		225	11.5	250	50	200	100

Total Credits for Semester I: 11.5 (Theory: 10; Laboratory: 1.5)

Semester II Course	Course	Course Title	Periods	Credits	Scheme	of Exam	ination	Maria
Course	Code	Course Title	(Periods /week)	Creams	Max Marks	CIA	UA	Min Marks
	BOT-211	Diversity of Cryptogams -II (Theory Paper-III)	45(3/week)	02	50	10	40	20
Optional I (DSC-1B) Core Courses	ВОТ-212	Histology, Anatomy & Embryology (Theory Paper-IV)	45(3/week)	02	50	10	40	20
	BOT-221	Lab course 2 (Based on BOT-211 & BOT-212)	45(3/week)	1.5	50	10	40	20
Ability Enhancement compulsory courses (AECC-2)	ENG-231	Communication skills in English-II	45(5/week)	03	50	10	40	20
	OT 222	Marathi/Hindi/Additional English /Urdu/Sanskrit,A student can opt for any one of these languages (SL-II)	45(4/week)	03	50	10	40	20
Non-Credit Course	CO1-213	Constitution of India	45(3/week)	02	50	10	40	20
Non-Credit	CCC-214	Compulsory Computer Course	45(3/week)	02	50	10	40	20
Course			315	15.5	250	50	200	100

Total Credits for Semester II: 15.5 (Theory: 14; Laboratory: 1.5)

## Dr. Babasaheb Ambedkar Marathwada University, Aurangabad Choice Based Credit System (CBCS) Structure & Curriculum B.Sc. Botany Three Year Undergraduate Degree Program

Course	Course	Semester	Semester III							
	Code	Course Title	Periods	Credits	Scheme of Examination					
The second	BOT-311	Core Course (The P	(Periods /week)		Max Marks	CIA	UA	Min Mark		
Optional I		Core Course (Theory Paper-V) Taxonomy of Angiosperms	45(3/week)	2	50	10	40	20		
(DSC-1C) Core	BOT-312	Core Course (Theory Paper-VI) Plant Physiology	45(3/week)	2	50	10	40	20		
Courses	BOT-321	Lab course 3 (Based on BOT -311)	45(3/week)	1.5	50	10	40	20		
	BOT-322	Lab course 4 (Based on BOT -312)	45(3/week)	1.5	50	10	40	20		
Skill Enhancement course (SEC-1)	SEC-313	SEC-1 Any one skill to be chosen out of two SEC-1(A), SEC-1 (B)	45(3/week)	2	50	10	40	20		
Ability Enhancemen	ENG-331	Communication skills in English-III	45(5/week)	3	50	10	40	20		
t compulsory courses (AECC-3)	SL-332	Marathi/Hindi/ Additional English/Urdu/Sanskrit A student can opt for any one of these languages ( SL-III)	45(4/week)	3	50	10	40	20		
			315	15	350	70	280	140		

Total Credits for Semester III: 15 (Theory: 12; Laboratory: 3)

		Semester							
Course	Course	Course Title	Periods	Credits	Scheme of Examination				
	Code		(Periods /week)		Max Marks	CIA	UA	Min Marks	
Optional I	ВОТ-411	Core Course (Theory Paper-VII ) Gymnosperms & Utilization of Plants	45(3/week)	2	50	10	40	20	
(DSC-1D) Core	BOT-412	Core Course (Theory Paper-VIII ) Plant Ecology	45(3/week)	2	50	10	40	20	
Courses	BOT-421	Lab Course 5 (Based on BOT-411)	45(3/week)	1.5	50	10	40	20	
	BOT -422	Lab Course 6 (Based on BOT -412)	45(3/week)	1.5	50	10	40	20	
Skill Enhancemen t course	SEC-413	SEC-2 Any one skill to be chosen out of two SEC-2(C), SEC-2 (D)	45(3/week)	2	50	10	40	20	
(SEC-2) AbilityEnha-	ENG-431	Communication skills in English-IV	45(5/week)	3	50	10	40	20	
ncement compulsory courses (AECC-4)	SL-432	Marathi/Hindi/ Additional English/ Urdu Sanskrit A student can opt for any one of these languages (SL-IV)	45(4/week)	3	50	10	40	20	
	EVS-413	Environmental Studies	45(3/week)	02	50	10	40	20	
Additional Credits			360	17	350	70	280	140	

## Dr. Babasaheb Ambedkar Marathwada University, Aurangabad Choice Based Credit System (CBCS) Structure & Curriculum B.Sc. Botany Three Year Undergraduate Degree Program

RECEIVE A PORT OF THE PROPERTY		Sc. Botany Three Year Onder	rV		6.1	of F.	en mina	41
Course	Course Code	Course Title	Periods (Periods /week)	Credits	Max Marks	CIA	UA	Min Marks
	BOT-511	DSE-1A(1) (Theory Paper-IX)	45(3/week)	2	50	10	40	20
Optional I (DSE-1 A)	BOT-512	Cell Biology & Molecular Biology  DSE-1A(2) (Theory Paper-X) (Select any one paper from	45(3/week)	2	50	10	40	20
Discipline Specific	DOT 531	A1/B1/C1/D1) Lab course 7(Based on BOT-511)	45(3/week)	1.5	50	10	40	20
Elective	BOT-521 BOT-522	Lab course 8 (Based on BOT-512 A1/B1/C1/D1)	45(3/week)	1.5	50	10	40	20
Skill Enhanceme nt course ( SEC-3)	SEC-513	SEC-3 Any one skill to be chosen out of two SEC-3(E), SEC-3 (F)	45(3/week)	2	50	10	40	20
Non-Credit Course	PEV-514	Professional Ethics and Moral Values	45(3/week)	2				
No. of Contract of		Design of the second se	270	11	250	50	200	100

Total Credits for Semester V: 11 (Theory: 08; Laboratory: 03)

#### Semester VI

	Course	Course Title	Periods	Credits	Schei	me of Ex	amina	tion
	Code	Course True	(Periods /week)		Max Marks	CIA	UA	Min Marks
	BOT-611	DSE-1B(1) (Theory Paper-XI) Genetics and Evolution	45(3/week)	2	50	10	40	20
Optional I (DSE-1 B) Discipline	BOT-612	DSE-1B(2) (Theory Paper-XII ) (Select any one paper from A2/B2/C2/D2)	45(3/week)	2	50	10	40	20
Specific	BOT-621	Lab course 9(Based on BOT-611)	45(3/week)	1.5	50	10	40	20
Elective	BOT-622	Lab course 10 (Based on BOT- 612- A2/B2/C2/D2)	45(3/week)	1.5	50	10	40	20
Skill Enhancemen t course	SEC-613	SEC-4 Any one skill to be chosen out of two SEC-4(G), SEC-4 (H)	45(3/week)	2	50	10	40	20
(SEC4)			225	9	250	50	200	100

Total Credits for Semester V:09 (Theory:06; Laboratory:03)

Total Credits for three years : Sem I (11.5 ) + Sem II (11.5 ) + Sem III (15) + Sem IV (15 ) + Sem V (09 ) + Sem VI (09) = 71 Credits

# A PROJECT REPORT ON

"Tourism Management System"

**Submitted By** 

Mr.Khurpe Akshay Mahabaleshwar Mr.Telap Sandip Youraj

In the partial fulfilment for the award of

**Master of Computer Science** 

Dr.Babasaheb Ambedkar Marathwada University

Aurangabad



**Department of Computer Science** 

Mrs. Kesharbai Sonajirao Kshirsagar Alias Kaku Arts, Science & Commerce College, Beed. (2018-2019)

## Navagan Shikshan Sanstha Rajuri's(N)

Mrs. Kesharbai Sonajirao Kshirsagar Alias Kaku Arts, Science & Commerce College, Beed.

## CERTIFICATE

Certified that this report submitted by,

Mr.Khurpe Akshay Mahabaleshwar Mr.Telap Sandip Youraj

The student of semester -IV of the course Master in Computer

Science[M.SC. Computer Science], as a part of the practical work as Prescribed by Dr. Babasaheb Ambedkar Marathwada University, Aurangabad .for the subject Major Project, for the major project titled <u>"Tourism Management System"</u>

We have guided them for the said work, assessed the same, & we are satisfied that it is up to the standards envisaged for the level of the course. The said work may be presented for the partial fulfillment of the project work appreciate by the Dr. BAMU.

Place: Mrs. K. S.K. College, Beed.

Date: 10.05.19

Miss. Deshmukh J.S

[Project Co-ordinator.]

Mr.Shaikh A.R
[ H.O.D. of Com.Science.1

A

#### " PROJECT REPORT"

ON

## CYBER CREDIT CARD SYSTEM

#### **SUBMITTED BY:**

Miss. Gharat Rupali Tukaram

Miss. Korde Arti Aashruba

In the partial fulfillment for the award of

### **MASTER OF COMPUTER SCIENCE**

Dr.Babasaheb Ambedkar Marathwada University

Aurangabad (M.S)



## DEPARTMENT OF COMPUTER SCIENCE

Mrs. Kesharbai Sonajirao Kshirsagr Alias Kaku

Arts, Science, & Commerse College, Beed.

(2018-2019)

#### Navgan Shikshan Sannstha Rajuri's (N)

#### MRS. KESHARBAI SONAJIRAO KSHIRSAGAR ALIAS KAKII

Arts, Science And Commerce College, Beed.

NAAC reaccredited with 'A' grade (3.18 CGPA as per new RAF) & ISO 9001-2015 certified

### CERTIFICATE

Certified that is report submitted by,

Miss. Gharat Rupali Tukaram

Miss. Korde Arti Aashruba

The student of IV of the course Master in Computer Science [Msc.Computer Science], As apart of practical work as predicted by Dr. Bbabasaheb Ambedkar Marathwada University, Aurangabad. For the subject Major Project, for the major project titled CYBER CREDIT CARD SYSTEM USING JAVA. We have guided him for the said work, assessed the same & we are satisfied that it is up to the standards envisaged for the level of course. The said work may be presented for the partial fulfillment of the project work as prescribed by the Dr. BAMU, Aurangabad. (MS)

Place: Mrs.K.S.K. College, Beed.

Date:

(Project Co-ordinator)

Mr.Shaikh.A.R

(H.O.D. of Computer Sci)

# A PROJECT REPORT ON

" "E-GOVERANCE" 1"
Submitted By

# Miss. Shraddha Deshmukh Miss. Priti Koyte

In the partial fulfilment for the award of

**Bachelor of Computer Science** 

Dr. BabasahebAmbedkar Marathwada University

Aurangabad



Department of Computer Science
Mrs. Kesharbai Sonajirao Kshirsagar Alias Kaku
Arts, Science & Commerce College, Beed.
(2018-2019)

## NavaganShikshanSansthaRajuri's(N)

Mrs. KesharbaiSonajiraoKshirsagar Alias Kaku

Arts, Science & Commerce College, Beed.

## CERTIFICATE

Certified that this report submitted by,

Miss. Shraddha Deshmukh

Miss. Priti Koyte

The student of semester -IV of the course Bachelor in Computer

Science[M.S.C. Computer Science], as a part of the practical work as Prescribed by Dr. Babasaheb Ambedkar Marathwada University, Aurangabad for the subject Major Project, for the major project titled <u>"E-Govrence"</u>

We have guided them for the said work, assessed the same, & we are satisfied that it is up to the standards envisaged for the level of the course. The said work may be presented for the partial fulfillment of the project work appreciate by the Dr. BAMU.

Place: Mrs. K. S.K. College, Beed.

Date: 10/5/19

Miss. Deshmukh J.S

# A PROJECT REPORT ON

Bank Mangement System.

## **Submitted By**

Miss. Dahiwal Karishma Chandrsena

Miss.Sirsat Mayuri Subhashrao

In the partial fulfilment for the award of

Master of Computer Science

Dr.Babasaheb Ambedkar Marathwada University

Aurangabad



## **Department of Computer Science**

Mrs. Kesharbai Sonajirao Kshirsagar Alias Kaku Arts, Science & Commerce College, Beed.

(2018-2019)

Navgan Shikshan Sanstha Rajuri's (N)

Mrs.Kesharbai Sonaji Kshrisagar Alias Kaku Arts, Science & Commerce College, Beed.

## **CERTIFICATE**

Certified that this report submitted by,

Miss.Dahiwal Karishma Chandrsena

Miss.Sirsat Mayuri Subhashrao

The Student of semester –IV Of the course Master in computer Science [ M.sc. Computer Science ], as a part of the practical work as Prescribed by Dr. Babasaheb Ambedkar Marathwada University.

Aurangabad . For the subject Major Project , for the major project titled Bank Mangement System

We have Guided them for the said work, assessed the Same & we are satisfied that it is up to the standard envisaged for the level Of the course .The said work may be presented for the partial fulfillment of the Project work as prescribed by the Dr.BAMU.

PLACE: Mrs.K.S.K.College, Beed.

Date:\o/5/2019

Deshmukh J.S

Project Co-ordinator

Mr.Shaikh A.R

H.O.D. of Com.Science

Karishma Dahiwal (CXD401312) Mayuri sirsat (CXD401396) A

PROJECT REPORT

ON

## "LAN CHATTING SYSTEM"

Submitted To

Dr. Babasaheb Ambedkar Marathwada University

Aurangabad

By

Miss. PATIL ASHWINI ACHUTRAO (CXD401367)

Miss. SABLE AKANSHA NANDKUMAR (CXD401374)

In Partial fullifiment of the Master degree of Computer Science



#### **THROUGH**

## DEPT. OF COMPUTER SCIENCE,

Mrs. Kesharbai Sonajirao Kshirsagar Alias Kaku Arts, Science & Commerce College, Beed.

(2018-19)

#### Navgan Shikshan Sanstha Rajuri's (N)

Mrs. Kesharbai Sonajirao Kshirsagar Alias Kaku Arts, Science & Commerce College, Beed.

## CERTIFICATE

**Department of Computer Science** 

This is to certify that this project report entitled

## LAN CHATTING SYSTEM

Being Submitted by

Miss. PATIL ASHWINI ACHUTRAO (CXD401367)

Miss. SABLE AKANSHA NANDKUMAR (CXD401374)

The project is completed successfully, as per the course of MSC II, Dept. of Computer Science, as a part of partial work as preschibed by Dr. BAMU Aurangabad. For the subject **Lan Chatting System** she submitted the project report in partial fullillment of course for the academic year 2018-19.

Place: Beed

**EXAMINAR** 

Mr. Shaikh A. R

(H.O.D of Comp.Sci)

Date :- 10.05.19

Miss, Deshmukh J.S

(Project Guide)

## A PROJECT REPORT ON

"Defect Tracking System"

**Submitted By** 

Miss. Joshi Gayatri

Miss. Golhar Shreya

In the partial fulfilment for the award of

Bachelor of Computer Science

Dr. BabasahebAmbedkar Marathwada University

Aurangabad



Department of Computer Science
Mrs. Kesharbai Sonajirao Kshirsagar Alias Kaku
Arts, Science & Commerce College, Beed.
(2018-2019)

pject Report

## NavaganShikshanSansthaRajuri's(N)

Mrs. KesharbaiSonajiraoKshirsagar Alias Kaku Arts, Science & Commerce College, Beed.

## **CERTIFICATE**

Certified that this report submitted by,

Miss. Joshi Gayatri Miss. Golhar Shreya

The student of semester -IV of the course Bachelor in Computer

ience[M.S.C. Computer Science], as a part of the practical work as Prescribed by Dr. abasaheb Ambedkar Marathwada University, Aurangabad .for the subject Major Project, r the major project titled "Defect Tracking System"?

We have guided them for the said work, assessed the same, & we are satisfied that it is to the standards envisaged for the level of the course. The said work may be presented or the partial fulfillment of the project work appreciate by the Dr. BAMU.

ace: Mrs. K. S .K. College, Beed.

ate: 10/05/2019

Miss. Deshmukh J.S
[Project Co-ordinator.&H.O.D.ofComp.Sci.]

- 2 -

# A PROJECT REPORT ON

"BLOOD BANK"

#### **Submitted By**

## Mr. BATE SUSHANT DATTATARYA Mr.TUPARE TUSHAR SANJIVAN

In the partial fulfilment for the award of

**Master of Computer Science** 

Dr.Babasaheb Ambedkar Marathwada University

Aurangabad



**Department of Computer Science** 

Mrs. Kesharbai Sonajirao Kshirsagar Alias Kaku Arts, Science & Commerce College, Beed. (2018-2019)

## Navagan Shikshan Sanstha Rajuri's(N)

Mrs. Kesharbai Sonajirao Kshirsagar Alias Kaku Arts, Science & Commerce College, Beed.

## CERTIFICATE

Certified that this report submitted by,

Mr. BATE SUSHANT DATTATARYA Mr.TUPARE TUSHAR SANJIVAN

The student of semester -IV of the course Master in Computer

Science[M.SC. Computer Science], as a part of the practical work as Prescribed by Dr. Babasaheb Ambedkar Marathwada University, Aurangabad .for the subject

Major Project, for the major project titled Blood Bank "

We have guided them for the said work, assessed the same, & we are satisfied that it is up to the standards envisaged for the level of the course. The said work may be presented for the partial fulfillment of the project work appreciate by the Dr. BAMU.

Place: Mrs. K. S.K. College, Beed.

Date: |0.05 | 9

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Miss. Deshmukh J.S

[Project Co-ordinator.]

Mr.Shaikh A.R

[ H.O.D. of Com.Science.]

# A PROJECT REPORT ON

## "Online Examination System"

## **Submitted By**

Miss.Jadhav Mahananda Nagnath

Miss. Solanke Shailaja Suresh

In the partial fulfilment for the award of

Master of Computer Science

Dr.Babasaheb Ambedkar Marathwada University

Aurangabad



**Department of Computer Science** 

Mrs. Kesharbai Sonajirao Kshirsagar Alias Kaku Arts, Science & Commerce College, Beed.

(2018-2019)

Navgan Shikshan Sanstha Rajuri's (N)

Mrs.Kesharbai Sonaji Kshrisagar Alias Kaku

Arts, Science & Commerce College, Beed.

## **CERTIFICATE**

Certified that this report submitted by,

Miss.Jadhav Mahananda Nagnath

Miss. Solanke Shailaja Suresh

The Student of semester –IV Of the course Master in computer Science [ M.sc. Computer Science ], as a part of the practical work as Prescribed by Dr. Babasaheb Ambedkar Marathwada University, Aurangabad .For the subject Major Project , for the major project titled ONLINE EXAMINATION SYSTEM . We have Guided them for the said work, assessed the Same & we are satisfied that it is up to the standard envisaged for the level Of the course .The said work may be presented for the partial fulfillment of the Project work as prescribed by the Dr.BAMU.

PLACE: Mrs.K.S.K.College, Beed.

Date: 0/072019

Project Co-ordinator

Mr.Shaikh A.R

H.O.D. of Com.Science

# A PROJECT REPORT ON

"ONLINE SHOPPING"

## **Submitted By**

Mr. Waghule Vilas Tukaram

In the partial fulfilment for the award of

**Master of Computer Science** 

Dr.Babasaheb Ambedkar Marathwada University

Aurangabad



**Department of Computer Science** 

Mrs. Kesharbai Sonajirao Kshirsagar Alias Kaku Arts, Science & Commerce College, Beed. (2018-2019)

## Navagan Shikshan Sanstha Rajuri's(N)

Mrs. Kesharbai Sonajirao Kshirsagar Alias Kaku Arts, Science & Commerce College, Beed.

## CERTIFICATE

Certified that this report submitted by,

Mr. Waghule Vilas Tukaram

The student of semester -IV of the course Master in Computer

Science[M.SC. Computer Science], as a part of the practical work as Prescribed by Dr. Babasaheb Ambedkar Marathwada University, Aurangabad .for the subject

Major Project, for the major project titled "ONLINE SHOPPING"

We have guided them for the said work, assessed the same, & we are satisfied that it is up to the standards envisaged for the level of the course. The said work may be presented for the partial fulfillment of the project work appreciate by the Dr. BAMU.

Place: Mrs. K. S.K. College, Beed.

Date: 0.05.19

Miss. Deshmukh J.S [Project Co-ordinator.]

Mr.Shaikh A.R [H.O.D. of Com.Science]

#### PROJECT REPORT ON

Online-Food-Order

**SUBMITTED BY** 

Waghmare Sanjay Padmakar More Ganesh Madhukar

M.Sc. (Comp. Sci)

ACADEMIC YEAR 2019-2020

**MOTIVATED BY** 

Dr. Deepa kshirsagar(Principal)

PROJECT GUIDED BY

Dr. Shaikh A.R

Prof. Gaware S.R.

**SUBMITTED TO** 

Dr. Babasaheb Ambedkar Marathwada University,

Aurangabad

Mrs. K.S.K. College, Beed.

## Dr. Babasaheb Ambedkar Marathwada University, Aurangabad

Mrs. K. S. K. College, Beed



## DEPARTMENT OF COMPUTER SCIENCE PROJECT ON

ONLINE-FOOD-ORDER

Presented by

Mr. WAGHMARE SANJAY PADMAKAR Mr. MORE GANESH MADHUKAR

Academic Year 2019-2020

A

#### PROJECT REPORT

ON

"Attendance Management System"

Submitted by

Miss. Dongare Priyanka Devidas Miss. Rasave Chhaya Sitaram

In The Partial Fulfillment For The Award of

#### MASTER OF COMPUTER SCIENCE

Dr. Babasaheb Ambedkar Marathwada University
Aurangabad (M.S)



Mrs.KesharbaiSonajiraoKshirsagar Alias Kaku Art's Science & Commerce College, Beed.

**Department of Computer Science** 

Academic Year (2019-20)

### Navgan Shikshan Sanstha Rajuri's (N)

#### MRS.KESHARBAISONAJIRAOKSHIRSAGAR ALIAS KAKU

ART'S SCIENCE & COMMERCE COLLEGE, BEED.

## **CERTIFICATE**

Certified that this report submitted by

Miss.Dongare Priyanka Devidas

Miss. Rasave Chhaya Sitaram

Master of Science student of semester -IV of the course [M.Sc.Computer], as a part of the practical work as prescribed by K.S.K College Beed. For the subject, Major project titled

"Attendance Management System" We have guided them for the said work, assessed the same, we are satisfied that it is up to the standard envisaged for the level of the course. The said work may be presented for the partial fulfillment of the project work as Prescribed by Dr. Babasaheb Ambedkar Marathwada University Aurangabad.

Mrs.Gaware .S.R.

Seat No : CXD401247

Seat No: CXD401/289

Dr. Shaikh.A.R.

Guide Guide

Dr. Shaikh.A.R.

H.O.D

Examiner

**Principal** 

A

#### **PROJECT REPORT**

ON

## "Online Job Portal"

Submitted by

#### Ms. KUMBHARRAJSHREE VILAS

In the partial fulfillment for the award of

#### **MASTER OF COMPUTER SCIENCE**

## **Dr.BabasahebAmbedkarMarathwada University Aurangabad(M.S)**



Mrs.KesharbaiSonajiraoKshirsagar Alias Kaku

Arts, Science & Commerce College, Beed.

**Department of Computer Science** 

(2020-2021)

NavganShikshanSansthaRajuri's (N)

MRS.KESHARBAISONAJIRAOKSHIRSAGAR ALIAS KAKU ARTS,SCIENCE& COMMERCE COLLEGE,BEED.

## **CERTIFICATE**

Certified that this report submitted by,

#### MRS. KUMBHARRAJSHREE VILAS

The Student of semester – IV of the course Master in computer Science [M.Sc.ComputerScience], As a part of the practical work as prescribed by K.S.K. College Beed. For the subject Major project, for the major project titled "Online Job Portal". We have guided them for the said work, assessed the same&we are satisfied that it is up to the standards envisaged for the level of the course. The said work may be presented for the partial fulfillment of the project work as Prescribed by Dr.BabasahebAmbedkarMarathwada University, Aurangabad.

**Seat No : CXD401413** 

Dr. Shaikh.A.R.

Guide

Dr. Shaikh.A.R.

H. O. D.

Examiner

Principal



## DR.BABASAHEB AMBEDKAR MARATHWADA UNIVERSITY, AURANGABAD.

A

Project Report

On

"Online Examination System"

Submitted By

Mr. Shaikh Sahil Rashid

Mr.Inamdar Imran Hasnoddín

**Guided By** 

Prof.Dr. Shaikh A.R. Sir

**Department Of Computer Science Studies** 

Mrs. Kesharbai Sonajirao Kshirsagar Alias Kaku College, Beed

Academic Year 2020 - 21

Dr. Babasaheb Ambedkar Marathwada University, Aurangabad.

Mrs. Kesharbai Sonajirao Kshirsagar Alias Kaku College, Beed

## CERTIFICATE

This is to be certified that the project report eutitled

"Online Examination System"

Submitted by

Mr. Shaikh Sahil Rashid

Seat No. CXD401447

Mr.Inamdar Imran Hasnoddin

Seat No. CXD401385

To completed as per the requirement of the Dr.Babasaheb Ambedkar Marathwada Univercity . To partial fulfulment of Master of Computer

Science Studies

Master Of Computer Science Studies

Prof. Dr. Shaikh Sir

Prof. Dr.Kshirsagar S. Sir

(H.O.D & Vice Principle)

(Principle)

(Ex. Examinor)

#### **PROJECT REPORT**

ON

## "MEDICAL STORE MANAGEMENT"

SUBMITTED TO

DR. BABASAHEB AMBEDKAR MARATHWADA UNIVERSITY AURANGABAD

BY

MISS.SHAIKH ALFIYA ABDUL

IN PARTIAL FULFILLMENT OF THE MASTER DEGREE OF

MASTER OF SCIENCE



**THROUGH** 

**DEPT.COMPUTER SCIENCE** 

Mrs. K.S.K ALIS KAKU ART, SCIENCE AND COMMERCE COLLEGE
BEED

2020-2021

# Mrs. K.S.K ALIS KAKU ART, SCIENCE AND COMMERCE COLLEGE BEED



MASTER OF SCIENCE

**DEPT.COMPUTER SCIENCE** 

THIS IS CERTIFY THAT THIS PROJECT REPORT ENTAILED

"MEDICAL STORE MANAGEMENT"

**BEING SUBMITTED BY** 

MISS.SHAIKH ALFIYA ABDUL

Has successfully completed the project as per the course of Master of science Dept Computer science. Mrs. K.S.K ALIS KAKU ART, SCIENCE AND COMMERCE COLLEGE BEED. She has submitted the project report in partial fulfillment of course for academic year 2020-2021

Place: BEED

Date: / /2021

**Head Of Department** 

Prof Mr. Shaikh Si

Examiner

**Project Guide** 

Prof Mr. Shaikh 8/1

Principal

#### "PROJECT REPORT"

#### "WEBSITE DEVELOPMENT WITH ADMISSION PROCESS."

#### **B.Sc Computer Science**

## Dr. Babasaheb Ambedkar Marathwada University, Aurandabad.



## DEPARTMENT OF COMPUTER SCIENCE

Mrs. Kesharbai Sonajirao Kshirsagar Alis Kaku Arts, Science & Commerce College, Beed.

(2020-2021)

#### Navagan Shikshan Sanstha Rajuri's (N)

MRS. KESHARBAI SONAJIRAO KSHIRSAGAR ALIS KAKU ARTS, SCIENCE & COMMERCE COLLEGE, BEED.

### **CERTIFICATE**

Certified that this report submitted by,

MR. SAGAR VIKAS KAMBLE

MR. SUMIT BALBHIM NAIKWADE

Student of the course B.Sc Computer Science, as a part of particle work as prescribed by Dr. Babasaheb Ambedkar Marathwada University, Aurangabad.

#### WEBSITE DEVELOPMENT WITH ADMISSION PROCESS.

We have guided him for the side work assessed the same and we are satisfied that it is up to the students envisaged for the level of course. The work may be presented for the partial fulfillment of the project work as prescribed by the Dr. Babasaheb Ambedkar Marathwada University, Aurangabad.

Seat No: NAF662880

Seat No: NAF663007

Principle

Dr. Shaikh A.R

(Guide, Project Coordinator & H.O.D)

# Dr. Babasaheb Ambedkar Marathwada University Aurangabad

### "ONLINE ADMISSION PORTAL"

**SUBMITTED BY:** 

Rahul K. Shete

Mayuri Dake

#### **MASTER OF COMPUTER SCIENCE**



#### **DEPARTMENT OF COMPUTER SCIENCE**

**Guided by** 

Dr. Shaikh A. R.

(2020-21)

### Navagan Shikshan Sanstha Rajuri's (N)

## MRS. KESHARBAI SONAJIRAO KSHIRSAGAR ALIS KAKU ARTS, SCIENCE & COMMERCE COLLEGE, BEED.

#### CERTIFICATE

#### **Certified that This Report Submitted by**

Mr. Rahul Shete

& Miss. Mayuri Dake

The student of the course of Master in Computer Science (M.Sc.) as a part of practical work as prescribed by Dr Babasaheb Ambedkar Marathwada University, Aurangabad. For the subject Major Project, for Major Project titled ONLINE ADMISSION PORTAL. We have guided him for the said work, assessed the same & we satisfied that it is up to the standards envisaged for the level of course. The said work may be presented for the partial fulfillment of the project work as prescribed by the Dr BAMU, Aurangabad.

Place: K.S.K. College, Beed.

Exam No: CXD401451

CXD401373

Date: 17/8/2021

Dr. Shaikh A.R.

(Guide, Project Coordinator & H.O.D)

#### PROJECT REPORT ON

#### TOUR'S AND TRAVELS AGENCY

#### **SUBMITTED BY**

Jawkar Priyanka Govindrao Kokil Ashwini Sudhir

M.Sc. (Comp.Sci)

**ACADEMIC YEAR** 

2020-2021

**MOTIVATED BY** 

Dr. Deepa Kshirsagar (Principal)

PROJECT GUIDED BY

Dr. Shaikh A.R.

Prof. Gaware S.R.

## Dr. Babasaheb Ambedkar Marathwada University, Aurangabad

MRS. KESHARBAI SONAJIRAO KSHIRSAGAR ALIS KAKU ARTS, SCIENCE & COMMERCE COLLEGE, BEED.

#### Navagan Shikshan Sanstha Rajuri's (N)

## MRS. KESHARBAI SONAJIRAO KSHIRSAGAR ALIS KAKU ARTS, SCIENCE & COMMERCE COLLEGE, BEED.

#### CERTIFICATE

#### Certified that This Report Submitted by

Miss. Priyanka Jawkar

Miss. Ashwini Kokil

The student of the course of Master in Computer Science (M.Sc.) as a part of practical work as prescribed by Dr Babasaheb Ambedkar Marathwada University, Aurangabad. For the subject Major Project, for Major Project titled Tours and Travels Agency. We have guided him for the said work, assessed the same & we satisfied that it is up to the standards envisaged for the level of course. The said work may be presented for the partial fulfillment of the project work as prescribed by the Dr BAMU, Aurangabad.

Place: K.S.K. College, Beed.

Exam No: CXD401395

CXD401410

Date: 17/8/2021

Drishaikh A. R.

(Guide, Project Coordinator & H.O.D)

#### PROJECT REPORT

ON

#### "BAKER'S LOUNGE"

#### In Association With

## (MRS.KESHARBAI SONAJIRAO KSHIRSAGAR ALIAS KAKU COLLEGE) BY

#### Mr. RAM THAWARE & NILESH ZUTE

**SUBMITTED TO** 



Dr. Babasaheb Ambedkar Marathwada University
IN THE PARTIAL FULFILLMENT OF THE REQUIREMENT DEGREE OF

Master of Computer Science (M.sc (comp sci))

In

2021-2022



#### Navgan Shikshan Sanstha Rajuri's(N)

#### MRS.KESHARBAI SONAJIRAO KSHIRSAGAR ALIAS KAKU







#### Navgan Shikshan Sanstha Rajuri's

#### MRS.KESHARBAI SONAJIRAO KSHIRSAGAR ALIAS KAKU COLLEGE BEED

DEPARTMENT OF COMPUTER SCIENCE

#### **CERTIFICATE**

This is to certify that **Mr. RAM THAWARE & NILESH ZUTE** of class (M.sc) computer science has successfully completed **Project Report** on "BAKER'S LOUNGE" Submitted to the practical fulfillment of Degree *Bachelor of computer Science* has completed in a satisfactory manner as per partial Fulfillment of degree under

Dr. B. A. M. University, Aurangabad, in the year 2021 - 2022

Seat No:- CXD401479

Seat No:- CXD 401482

Date <a>O</a> /O</a> <a>O</a> /2022

Place: -KSK college Beed

External Examiner

Dr. Shaikh A.R.

(Guide & Head Of Dept.)

(Principal)



### Dr. Babasaheb Ambedkar Marathwada University, **Aurangabad**

#### "ONLINE ADMISSION PORTAL"

Submitted by

KSHIRSAGAR SNEHAL KIRAN SAROWAR MRINMAI NAMDEO

**Department of Computer Science** 

**Guided by** 

Dr. Shaikh A. R.

For the Award of Degree Master in Computer Science

Year 2021-2022

### Navagan Shikshan Sanstha Rajuri's (N)

## MRS. KESHARBAI SONAJIRAO KSHIRSAGAR ALIS KAKU ARTS, SCIENCE & COMMERCE COLLEGE, BEED.

Academic year (2021-2022)

Affiliated to Dr. Babasaheb Ambedkar Marathwada University, Aurangabad

#### CERTIFICATE

Certified that This Report Submitted by

KSHIRSAGAR SNEHAL KIRAN

SAROWAR MRINMAI NAMDEO

The student of the course of Master in Computer Science (M.Sc.) as a part of practical work as prescribed by Dr Babasaheb Ambedkar Marathwada University, Aurangabad. For the subject Major Project, for Major Project titled ONLINE ADMISSION PORTAL. We have guided him for the said work, assessed the same & we satisfied that it is up to the standards envisaged for the level of course. The said work may be presented for the partial fulfillment of the project work as prescribed by the Dr BAMU, Aurangabad.

Seat no: CXD401472

CXD401476

Dr. Shaikh A. R.

(Guide, Project Coordinator & H.O.D)



## A PROJECT REPORT ON

#### "TOUR'S AND TRAVELS AGENCY"

#### Submitted by

Miss.Chauthaiwale Bhagyashree Mathuradas
Miss.Kale Rupali Machindra
M.Sc. (Comp. Sci.)

Academic Year 2021-2022

**Motivated By** 

Dr.Shivanand Kshirsagar (Principal)

**Project Guided By** 

Dr.Shaikh A. R. Prof. Gaware S. R.

Submitted to

Dr.Babasaheb Ambedkar Marathwada University, Aurangabad

Mrs.K.S.K. College, Beed

## Dr.Babasaheb Ambedkar Marathwada University, Aurangabad

Mrs.K.S.K. College, Beed



This is to certify that the project entitled

"Tours and Travel's"

agancy by

Miss.Chauthaiwale Bhagyashree Mathuradas

Miss.Kale Rupali Machindra

in partial fulfillment of M.Sc. Computer Science during the academic year 2021- 2022.

Seat No. CXD401465 CXD401469

Date: 08/07/2022

Dr. Shaikh A.R.

(Guide, Project Coordinator & H.O.D)

### "PROJECT REPORT"

## "RESTAURANT MANAGEMENT& ODERING FOOD."

M.Sc Computer Science

Dr. BabasahebAmbedkarMarathwada University, Aurandabad.



## **DEPARTMENTOF COMPUTER SCIENCE**

Mrs. KesharbaiSonajiraoKshirsagarAlisKaku Arts, Science & Commerce College, Beed.

(2021-2022)

#### NavaganShikshanSansthaRajuri's (N)

MRS. KESHARBAI SONAJIRAO KSHIRSAGAR ALISKAKU ARTS, SCIENCE & COMMERCE COLLEGE, BEED.

### **CERTIFICATE**

Certified that this report submitted by,

MR. SARANG SATISH VANGUJARE

MR. MASKE ABHIJIT BABASAHEB

Student of the course M.Sc Computer Science, as a part of particle work as prescribed by Dr. BabasahebAmbedkar Marathwada University,

Aurangabad.

#### RESTAURANT MANAGEMENT& ODERING FOOD

We have guided him for the side work assessed the same and we are satisfied that it is up to the students envisaged for the level of course. The work may be presented for the partial fulfillment of the project work as prescribed by the Dr. BabasahebAmbedkarMarathwada University, Aurangabad.

eat No:CXD401480

eat No:CXD401473

Dr. ShaikhA.R

Principle

(Guide, Project Coordinator&H.O.D)

xaminer

#### A PROJECT REPORT ON

#### INVENTORY ADMINISTRATION SYSTEM

Submitted by

MS. Pooja Nagesh Asalkar. MS. Sneha Vishwasrao Naik.

in partial fulfillment for the award of the degree of

#### MASTER OF COMPUTER SCIENCE

in

#### COMPUTER SCIENCE



MRS KESHARBAI SONAJIRAO KSHIRSAGAR ALIS KAKU ARTS, SCIENCE &COMMERCE COLLEGE,BEED

DR .BABASAHEB AMBEDKAR MARATHWADA UNIVERSITY , AURANGABAD.

ACADEMIC YEAR 2021-2022

#### **CERTIFICATE**

Certified that This Report Submitted by

MS. Pooja Nagesh Asalkar. MS. Sneha Vishwasrao Naik.

The students of the course of Master in computer Science(M.sc) as a part of pratical work asprescribed by Dr.Babasaheb Ambedkar Marathwada University. For the subject Major Project titled INVENTORY ADMINISTRATION SYSTEM We have guided him for the said work, assessed the same & we satisfied that it is up to the standards envisaged for the level of course. The said work may be presented for the partial fulfillment of the project work as prescribed by the DR BAMU, Aurangabad.

Exam Seat No: - Cx D401464 and Cx D401474

Place: K.S.K.College, Beed.

Date: 8 /07 /2022

Ďr. Shaikh A.R.

(Guide ,Project Coordinator & H.O.D)

#### PROJECT REPORT ON

#### **CCTV THEFT DETECTION AND REMOTE ALERTING SYSTEM**

#### **SUBMITTED BY**

**GHIGE NARAYAN ZUMBAR** 

SOLANKE ASHWINI RAMRAO

M.Sc.(Comp.Sci.II<sup>ND</sup>YEAR)

#### **ACADEMIC YEAR**

2021-2022

#### **MOTIVATED BY**

Dr. S.V Kshirasgar (Principal)

#### PROJECT GUIDED BY

Dr. Shaikh A.R.

Prof. Gaware S.R.

Dr. Babasaheb Ambedkar Marathwada

University, Aurangabad

## MRS. KESHARABAI SONAJIRAO KSHIRSAGAR ALIS KAKU

ARTS, SCIENCE & COMMERCS COLLEGE, BEED.

#### Navagan Shikshan Sanstha Rajuri's (N)

### MRS. KESHARABAI SONAJIRAO KSHIRSAGAR ALIS KAKU ARTS, SCIENCE & COMMERCS COLLEGE, BEED.

#### **CERTIFICATE**

Certified that This Report Submitted by

Mr. Ghige Narayan Zumbar

Miss. Solanke Ashwini Ramrao

The student of the course of Master in Computer Science (M.Sc.II<sup>ND</sup>) as a part of practical work as prescribed by Dr. Babasaheb Ambedkar Marathwada University, Aurangabad. For the subject Major Project, for Major Project titled CCTV THEFT DETECTION AND REMOTE

ALERTING SYSTEM. We have guided him for the said work, assessed the same & we satisfied that it is up to the standards envisaged for the level of course. The said work may be presented for the partial fulfillment of the projectwork as prescribed by the Dr. BAMU, Aurangabad.

Place: K.S.K. College

Exam (Seat No):-CXD401467

Exam (Seat No):-CXD401478

Date: 08 107/2022

Dr. Shaikh A.R.

(Guide, Project Coordinator & H.O.D.)

## A PROJECT REPORT ON CREATING A SPOTIFY CLONE USING HTML, CSS & JAVA SCRIPT (MUSIC PLAYER)

Submitted by

MR. SIDDHANT AVINASH KHANDAGALE. MS. VASUDHA RAOSAHEB GADSING.

in partial fulfillment for the award of the degree of

MASTER OF COMPUTER SCIENCE

in

#### **COMPUTER SCIENCE**



MRS KESHARBAI SONAJIRAO KSHIRSAGAR ALIS KAKU ARTS, SCIENCE & COMMERCE COLLEGE, BEED

DR .BABASAHEB AMBEDKAR MARATHWADA UNIVERSITY , AURANGABAD.

ACADEMIC YEAR 2021-2022

#### **CERTIFICATE**

Certified that This Report Submitted by

MR. SIDDHANT AVINASH KHANDAGALE

MS.VASUDHA RAOSAHEB GADSING

The students of the course of Master in computer Science(M.sc) as a part of pratical work asprescribed by Dr.Babasaheb Ambedkar Marathwada University. For the subject Major Project titled Creating A Spotify Clone Using HTML ,CSS & JAVA Script. We have guided him for the said work , assessed the same & we satisfied that it is up to the standards envisaged for the level of course .The said work may be presented for the partial fulfillment of the project work as prescribed by the DR BAMU , Aurangabad.

Exam Seat No :- < XD40 147/

Place: K.S.K.College, Beed.

Date: / /2022

Dr. Shaikh A.R.

(Guide ,Project Coordinator & H.O.D)

#### A PROJECT REPORT ON

## CREATING SAGAR ELECTRONICS APPLICATION USING HTML, CSS & JAVA SCRIPT

#### (ELECTRONIC PRODUCT'S APPLICATION)

Submitted by

MR. JAGTAP MAHESH KAMLAKAR MR. PHAD MANOJ VAIJINATH

in partial fulfillment for the award of the degree of

MASTER OF COMPUTER SCIENCE

in

COMPUTER SCIENCE



MRS KESHARBAI SONAJIRAO KSHIRSAGAR ALIS KAKU ARTS, SCIENCE & COMMERCE COLLEGE, BEED

DR .BABASAHEB AMBEDKAR MARATHWADA UNIVERSITY , AURANGABAD.

ACADEMIC YEAR 2021-2022

#### **CERTIFICATE**

Certified that This Report Submitted by

#### MR. JAGTAP MAHESH KAMLAKAR

#### MR. PHAD MANOJ VAIJINATH

The students of the course of Master in computer Science(M.sc) as a part of pratical work asprescribed by Dr.Babasaheb Ambedkar Marathwada University. For the subject Major Project titled Creating A SAGAR ELECTRONICS APPLICATION Using HTML ,CSS & JAVA Script. We have guided him for the said work , assessed the same & we satisfied that it is up to the standards envisaged for the level of course .The said work may be presented for the partial fulfillment of the project work as prescribed by theDR BAMU , Aurangabad.

Exam Seat No :- CXD401468

Exam Seat No :- CXD401475

Place: K.S.K. College, Beed,

Date: / / 12022

Dr. Shaikh A.R.

(Guide ,Project Coordinator & H.O.D)

A

PROJECT REPORT

ON

"BAKER'S LOUNGE"

In Association With

(MRS.KESHARBAI SONAJIRAO KSHIRSAGAR ALIAS KAKU COLLEGE)

BY

Mr. SANKET SURWASE & ANIKET MUNDHE

**SUBMITTED TO** 



Dr. Babasaheb Ambedkar Marathwada University
IN THE PARTIAL FULFILLMENT OF THE REQUIREMENT DEGREE OF

Master of Computer Science (M.sc (comp sci))



Navgan Shikshan Sanstha Rajuri's(N)

### MRS.KESHARBAI SONAJIRAO KSHIRSAGAR ALIAS KAKU

Arts, Science And Commerce College, Beed.

NAAC reaccredited with 'A' grade (3.18 CGPA as per new RAF) & ISO 9001-2015 certified



Navgan Shikshan Sanstha Rajuri's

MRS.KESHARBAI SONAJIRAO KSHIRSAGAR ALIAS KAKU COLLEGE BEED
DEPARTMENT OF COMPUTER SCIENCE

#### CERTIFICATE

This is to certify that **Mr. SANKET SURWASE & ANIKET MUNDHE** of class (M.sc) computer science has successfully completed **Project Report**on "BAKER'S LOUNGE" Submitted to the practical fulfillment of Degree *Bachelor of computer Science* has completed in a satisfactory manner as per partial Fulfillment of degree under

Dr. B. A. M. University, Aurangabad, in the year 2022 - 2023

Seat No:- GXD401501

Seat No:- GXD401504

Date: 16/2023

Place: -KSK college Beed

GAWARE S.R.

Dr. SHAIKH A.R.

(Guide & Head Of Dept.)

External Examiner

(Principal)

## DR. BABASAHEB AMBEDKAR MARATHWADA UNIVERSITY,

#### CHHATRAPATI SAMBHAJINAGAR

MRS. K.S.K. COLLEGE, BEED

DEPARTMENT OF COMPUTER SCIENCE

PROJECT ON

JOB SEARCH

PRESENTED BY

MR. AJINKYA PRDEEP DESHMUKH

ACADEMIC YEAR

2022-2023

#### Navgan Shikshan Sanstha Rajuri's (N)

MRS KESARBAI SONAJIRAO KSHIRSAGAR ALIS KAKU ARTS, SCIENCE & COMMERCE COLLEGE, BEED

Academic year (2022-2023)

Affilated to Dr. Babasaheb Ambedkar University,
Chhatrapati Sambhajinagar

#### CERTIFICATE

Certified that this Reports

Submitted by

Mr. Ajinkya Pradeep Deshmukh

The Student of the course of Master in Computer Science (M.Sc) as a part of Practical work as prescribed by Dr. Babasaheb Ambedkar Marathwada University, Chhatrapati SambhajiNagar. For the subject major project, for major project titled **Job Search**. We have guided him for the said work assessed the same & satisfied that it is up to the standards envisaged for the level of course. The said work may be presented for the level of force course. The said work may be presented for the partial fulfillment of the project work as prescribed by the **Dr. BAMU**, **Chhatrapati**SambhajiNagar.

Seat No. : GXD401493

Dr. Shaikh A.R.

(Guide, Project Co- Oprdinator & H.O.D)

#### **PROJECT REPORT ON**

LIBRARY MANAGEMENT SYSTEM

**SUBMITTED BY** 

**WARE RUSHIKESH RAMNATH** 

**AUTE AKSHAYKUMAR ASHOK** 

M.SC (COM.SCI)

**ACADEMIC YEAR** 

2022-2023

**MOTIVATED BY** 

DR.SHIVANAND KSHIRSAGAR(PRINCIPLE)

**PROJECT GUIDED BY** 

DR.SHAIKH A.R

**PROF.GAWARE S.R** 

**SUBMITTED TO** 

DR.BABASAHEB AMBEDKAR MARATHWADA UNIVERSITY,

**CHHATRAPATI SAMBHAJINAGAR** 

MRS.K.S.K COLLEGE, BEED

## Dr.Babasaheb Ambedkar Marathwada University, Chhatrapati Sambhajinagar

Mrs.K.S.K College, Beed



This is to certify that the project entitled Library management system by

Mr.Ware Rushikesh Ramnath

Mr.Aute Akshaykumar Ashok

Seat no:- GXD 401507 / Prn no :- 2018015200492532

Seat no:- GXD 401492 / Prn no :- 2018015200498157

In Partial Fulfillment of M.sc Computer Science During The Academic Year 2022-2023.

Date: 26.05.2023

**Internal Examinar** 

External Examinar

#### A PROJECT REPORT ON

## CREATING REAL ESTATE MANAGEMENT 2023 USING HTML,CSS, &Javascript

#### **Submitted by**

## MR. KULKARNI MANDAR SURESHRAO MR. SHINDE MOHIT GAJANAN

In partial fulfillment for the award of the degree of

MASTER OF COMPUTER SCIENCE

In

COMPUTER SCIENCE



MRS KESHRABAI SONJAIRAO KSHIRSAGAR ALIS KAKU ARTS, SCIENCE & COMMERCE COLLEGE, BEED .

DR.BABASAHEB AMBEDKAR MARATHWADA UNIVERSTIY AURANGABAD.

ACADEMIC YEAR

2022-2023

#### **CERTIFICATE**

Certified that This report Submitted By

#### MR. KULKARNI MANDAR SURESHRAO

#### MR. SHINDE MOHIT GAJANAN

This students of the courses of Master in Computer Science (M.Sc) as a part of practical work asprescribed by Dr. Babasaheb Ambedkar Marathwada University. For the subject Major Subject Titled Creating CREATING REAL ESTATE MANAGEMENT 2023 USING HTML,CSS, & Javascript. We have guided him for said work, assessed the same & we satisfied that it is up to the standards envisaged for the level of course. The said work may be presented for the partial fulfillment of the project work as prescribed by the DR BAMU, Aurangabad.

:- Kulkarni Mandar Sureshrao

PRN NO: - 2018015200303344

:- Shinde Mohit Gajanan

PRN NO :- 2018015200534205

Place:- K.S.K. College, Beed

Date: -2-6/95/ 2023

Dr. Shaikh A.R.

(Guide, Project Coordinator H.O.D.)

### Navgan Shikshan Sanstha Rajuri's (N)

### MRS.KESHRABAI SONJAIRAO KSHIRSAGAR ALISKAKU ARTS, SCIENCE & COMMERCE COLLEGE, BEED

ACADEMIC YEAR: - 2022-2023

A Project Report On

A FRAMEWORK FOR DETECTING SOURCE

CODEPLAGIARISM AND GRAMMER

CHECKER

**Submitted By:-**

MR.GORE AJAY TULSHIDAS
MR.TURUKMARE RUSHIKESH
ANIL

**Guided By** 

Dr. Shaikh A.R.

Prof. Gaware S.R.

In partial Fulfilment of the Requirement Award of the Degree of M.SC Computer Science from Dr. Babasaheb Ambedkar Marathwada University , Aurangabad 2022-2023

#### **CERTIFICATE**

Certified that This report Submitted By

## MR.GORE AJAY TULSHIDAS

MR. TURUKMARE RUSHIKESH ANIL

This students of the courses of Master in Computer Science (M.Sc) as a part of practical work asprescribed by Dr. Babasaheb Ambedkar Marathwada University. For the subject Major Subject Titled Creating

## A FRAMEWORK FOR DETECTING SOURCE CODE PLAGIARISM AND GRAMMER CHECKER

We have guided him for said work, assessed the same & we satisfied that it is up to the standards envisaged for the level of course. The said work may be presented for the partial fulfillment of the project work as prescribed by the DR BAMU, Aurangabad.

:- GORE AJAY TULSHIDAS

SEAT NO :- GXD401496

:- TURUKMARE RUSHIKESH ANIL

**SEAT NO:- GXD 401505** 

Place:- K.S.K. College, Beed

Date: - 26/05/ 2023

Dr. Shaikh A.R.

(Guide, Project Coordinator H.O.D.)

#### DR. Babasaheb Ambedkar University,

#### Chhatrapati Sambhaji Nagar

Ms.k.s.k.college,Beed



#### **DEPARTMENT OF COMPUTER SCIENCE**

#### **PROJECT ON**

**IOR ROAD SAFETY** 

**Present by** 

Miss. Parlikar Sheetal Sanjeevkumar

Miss. Waghmare Prajaktta Shriram

**Academic Year** 

2022-2023

# Dr. Babasaheb Ambedkar Marathwada University, Chhatrapati Sambhaji Nagar Mrs. K.S.K. college Beed



This is to certify that the project entitled student

Attendance

Miss. Parlikar Sheetal Sanjeevkumar Miss. Waghmare Prajaktta Shriram

Seat no :- GXD401502

Seat no :- GXD401506

In partial fulfilment of M.Sc. computer science during the academic year 2022 – 2023

Date: 26/5/2023

Internal examiner

reternal Eraminer.

#### Navgan shikshan Sanstha Rajuri's(N)

## MRS. KESHARBAI SONJIRAO KSHIRSAGAR ALIS KAKU ARTS, SCIENCE & COMMERCE COLLEGE, BEED.

Academic year (2022 - 2023)

Affiliated to Dr. Babasaheb Ambedkar Marathwada University,

Chhatrapati Sambhaji Nagar

**CERTIFICATE** 

Certified that this Report

Submitted by

Miss. Paralikar Sheetal Sanjeevkumar

Miss. Waghmare Prajaktta Shriram

The student of the course of **Master in Computer Science(M.Sc)** as a part of Practical work as prescribed by Dr. Babasaheb Ambedkar

Marathwada University, Chhatrapati Sambhaji Nagar. For the subject Major Project, for Major Project titled " IOT ROAD SAFETY ".

We have guided him for the said work, Assessed the same & we satisfied that it is up to the standards envisaged for the level of course. The said workmay be presented for the level of course. The said work may presented for the partial fulfilment of the project work as prescribed by the Dr. BAMU, Chhatrapati Sambhaji Nagar.

PRN no: 2018015200303707

PRN no: 2017015200655774

Dr. Shaikh A.R

(guide, project co-ordinator & h.o.d)

#### A

#### PROJECT REPORT ON

#### **TOUR'S AND TRAVELS AGENCY**

**SUBMITTED BY** 

## HARALE JYOTI RAMPRASAD KOKIL VAISHNAVI NANDKISHOR

M.Sc. (Comp.Sci)

**ACADEMIC YEAR** 

2022-2023

**MOTIVATED BY** 

Dr.Deepa Kshirsagar(Principal)

**PROJECT GUIDED BY** 

Dr.Shaikh A.R.

Prof. Gaware S.R.

**SUBMITTED TO** 

Dr. Babasaheb Ambedkar Marathwada University,

**Aurangabad** 

Mrs. K.S.K. College Beed

# Dr. Babasaheb Ambedkar Marathwada University, Aurangabad

Mrs. K.S.K. College Beed



This is to certify that the project entitled Tours and Travel's Agancy by

MISS. HARALE JYOTI RAMPRASAD

Seat no - GXD401497

MISS. KOKIL VAISHNAVI NANDKISHOR

Seat no - GXD401498

in partial fulfillment of M.Sc. Computer Science during the academic year 2022- 2023

Date: 26/05 / 2023

Internal examiner External Examiner

#### A PROJECT REPORT ON

#### **CREATING REAL ESTATE PROJECT 2K23**

#### **Submitted by**

MR. MANE AMIT BHARAT
MR. GADHIKAR RAM SHAMRAO

In partial fulfillment for the award of the degree of

MASTER OF COMPUTER SCIENCE

In

**COMPUTER SCIENCE** 



MRS KESHRABAI SONJAIRAO KSHIRSAGAR ALIS KAKU ARTS, SCIENCE & COMMERCE COLLEGE, BEED .

DR.BABASAHEB AMBEDKAR MARATHWADA UNIVERSTIY AURANGABAD.

ACADEMIC YEAR

2022-2023

#### **CERTIFICATE**

#### Certified that This report Submitted By

#### MR. MANE AMIT BHARAT

#### MR. GADHIKAR RAM SHAMRAO

This students of the courses of Master in Computer Science (M.Sc) as a part of practical work asprescribed by Dr. Babasaheb Ambedkar Marathwada University. For the subject Major Subject Titled Creating CREATING Real Estate Project 2k23 USING HTML, CSS,

& Javascript. We have guided him for said work, assessed the same & we satisfied that it is up to the standards envisaged for the level of course. The said work may be presented for the partial fulfillment of the project work as prescribed by the

DR BAMU, Aurangabad.

:- Mane Amit Bharat

(Prn No 2018015200302936)

:- Gadhikar Ram Shamrao

(Prn No 2018015200005807)

Place :- K.S.K. College, Beed

Date :- 26/05/2023

Dr. Shaikh A.R.

(Guide, Project Coordinator H.O.D.)

# Mrs.Kesharbai Sonajirao Kshirsagar Alias Kaku Arts, Science & Commerce College, Beed-431122.

#### **Dept of Zoology**

#### PG Examination (Sem -IV) Project Report 2018-2019

Submission Date: - 19th May 2019

Sr.No	Exam Seat no	Name of Student	Title of Project
1	CZD401053	Miss Jadhav R.B.	'Maintenance of fish pond'
2	CZD401054	Kable S.S.	'Identification of fresh water fishes'
3	CZD401055	Miss Kamble A.T.	'Fishery'
4	CZD401056	Miss Kamble K.V.	'Identification of male & female fishes'
5	CZD401057	Khutale P.R.	'Packing of Fish seed for transportation'
6	CZD401058	Md.Mushtaq Jilani	'Identification of fresh water fishes'
7	CZD401059	Muley J.L.	'Identification of fresh water fishes'
8	CZD491963	Rathod D.P.	'Collection of fish seed'
9	CZD401064	Raut K.B.	"Collection of fish from market for identification"
10	CZD401070	Miss Shinde P.C.	'Packing of Fish seed for transportation'
11	CZD401071	Sonawane G.K.	'Collection of fish seed'
12	CZD401072	Miss Survase S.M.	'Fish feeds & feeding'
13	CZD401076	Miss Walmik D.S.	"project on fishing tools & techniques'
14	CZD401077	Miss Wayase S.S.	'Fish breeding techniques'

Dept.of Zoology

Dept. of Zoology Mrs. K.S.K. College Beed- 431122

#### Dept of Zoology

#### P.G. Examination (Sem- IV) Project Report (2019-2020)

#### Submission Date 25/09/2020

Sr.No	Seat.No	Name of Student	Tital of Project	
1	CZD4010802	Ahuja K.S.	Collection of Fishes from Market for identification	
2	CZD401081	Baglane R.S.	Identification of Male & FemaleFishes	
3	CZD401182	Bhokare P.N.	Collection of Fish Seed	
4	CZD401083	Devkar A.B.	Packing of seed for Transportion	
5	CZD401084	Dhakane S.B.	Identification of Male & Female Fishes	
6	CZD401085	Dongare S.M.	Prevention & Treatment of Fish Disease	
7	CZD401086	Funde K.V.	Disease of Digestive System	
8	CZD401089	Hajare S.P.	Identification of Male & Female Fishes	
9	CZD401093	Jigdand K.D.	Feeding of Fishes (Artificial & Natural)	
10	CZD401094	Kandhare S.V.	Observation of Plankton as a food fish	
11	CZD401095	Kute P.N.	Identification Of Fish Disease & their treatment	
12	CZD401096	Manchare A.A	Digestive System of Fishes	
13	CZD401097	Mane A.A	Identification of fresh water Fishes	
14	CZD401098	Maske S.V.	Feeding of Fishes (Artificial & Natural)	
15	CZD401099	Maske M.B.	Report on exposure visit to fishery & Poultary unit	
16	CZD401102	Muley R.R.	Identification of Male & Female Fishes	
17	CZD401103	Palwankar A.B.	Fishing Gears	
18	CZD401105	Pawar E.P.	Vertebrate of Cardiovascular System	
19	CZD401107	Raut O.S.	Cell Structure & Function	
20	CZD401109	Sayed K.L.	Identification of Male & Female Fishes	
21	CZD401115	Waghmare K.A.	Identification of Male & Female Fishes	

Dept of Zoology

Mrs. K.S.K.College Mrs. K.S.K. College Beed- 431122

#### Mrs. KesharbaiSonajiraoKshirsagar Alias Kaku ,Arts,Science and Commers College Beed-431122

#### Dept. Of Zoology P.G.Examination ( Sem IV)

#### Project Report 2020-2021 Submission Date:-10/08/2021

Sr.No.	Exam Seat No.	Name Of Student	Title of Project
1	CZD401099	Bade Sunita p.	Fishing Tools and Techniques
2	CZD401100	Chavan Shital S.	Goat Forming Technical Manual
3	CZD401101	Chavan Pramod B.	Prawn Farming
4	CZD401102	Choure Deepak B.	The Poultry Farm
5	CZD401103	Deshmukh Pragati V.	Insect in local area
6	CZD401105	Jogdand Karan K.	The Poultry Farm
7	CZD401106	Kadam Deepak A.	Packing of Seeds of Fish Farm Transportation
8	CZD401107	Kale Neha B.	Fish FArming
9	CZD401108	Kasule Amit E.	Types of Pond
10	CZD401109	Katkhade Pooja A.	Fishing Tools and Techniques
11	CZD401110	KhetreBalasaheb V.	The Poultry Farm
12	CZD401111	KhetrePralhad D	The Poultry Farm Management
13	CZD401112	Khetre Priya R.	Fish Pond
14	CZD401113	LondheRushikesh M	Identification of Fish Disease
15	CZD401117	More Dhanashri M	Fish Disease and Treatment
16	CZD401118	RakhPrafull K.	Sericulture
17	CZD401119	Rakh Prashant T.	Sericulture
18	CZD401120	Salve Neha M.	The Poultry Farm
19	CZD401124	Shinde Gokul B.	Packing of Seeds of Fish Farm Transportation
20	CZD401125	Shinde Namrata S.	Sericulture
21	CZD401127	Supekar Jayashree B.	Diversity of Birds in Local Area
22	CZD401129	ZirpeRamkrushna U.	Honey Bee

Name of Arts, Science by Commerce H I R.

Mrs. Kesharbai Sonajirao Kshirsagar Alias Kaku Arts, Science & Commerce College, Beed Department of Zoology

M.Sc. II Year (A.Y. 2021-22 - IV-Semester) Project Work

Time: 11 ad to S'00 pon

Hydrobiology and fisheries of Mangi Dam Taluka Karmala **Project Subject** Infections of Silkworm and Their prevention Impact of Pandamic Covid-19 on Human Life Study of fish diversity iin bindusara dam Helminth infections in freshwater fishes Ecological Biases for Animal Behaviour Effect of Climatic factors on Silkworm Study of Biology of Starfish (Asteroidea) Study of Biology of Cyprinus Carpio L. **Embryo Development of Chicken** Study of Migratory Birds In India Study of Anti-Microbial Peptides Translation in Protein Synthesis Study of Marine Water Fishes New Trends in Sericulture Study of Microbial Peptides Biology of Bombay Duck Study of Ticks and Mites Transcription in DNA Fresh Water fishes Animal Husbandry BHADRASHETTI AKSHAYKUMAR UMAKANT SHINDE DNYANESHWAR RAMESHWAR SADDIWAL PRIYANKA NITINSINGH GHADGE SHUBHANGI VISHNUPANT PARASKAR MANJUSHA MAHADEV SADDIWAL SURAJ SHIVRAJSINGH PAWAR RAMESHWAR SHAMRAO HURKUDE SHRAVANI BABANRAO VANJARE VINAYAK DHANANJAY Student Name GAIKWAD NAMDEV RAMBHAU RATHOD ANIL VISHWANATH SINGARE AISHWARYA LAHU ROKADE KOMAL DILIPRAO PAWAR VIKAS TULSHIRAM PURNE ASHOK SOMINATH RAUT AMIT VINAYAKRAO LAKHE SHIVANI BHARAT VANJARE PRIYA ASHOK ANDIL SWATI SUDHAKAR CZD401122 CHAVAN NITIN LAXMAN PAWAR SACHIN KISAN 15/07/2022 CZD401133 CZD401134 CZD401139 CZD401140 CZD401141 CZD401128 CZD401138 CZD401127 CZD401129 CZD401135 CZD401136 CZD401132 CZD401130 CZD401123 CZD401131 CZD401126 CZD401124 CZD401125 CZD401120 CZD401250 Seat No 21 20 18 19 14 15 16 17 19 11 12 13 6 œ S 9

Department of Zoology, Mrs. K. S. K. College, Beed

# Mrs. Kesharbai Sonajirao Kshirsagar Alias Kaku Arts, Science & Commerce College, Beed

Department of Zoology M.Sc. Project Work Project Topic List

Date-27/05/2023.

A.Y. 2022-23

M.Sc. II Year IV Semester

100 Marks

		Wisc. If Tear IV Semester	100 Marks
Sr. No.	Seat No.	Student Name	Topic Name
1	GZD401187	BANSODE SHRUSHTI SATISH	Freshwater fishes
2	GZD401188	GHODKE POOJA PARMESHWAR	Marine water fishes
3	GZD401189	GUNJAL MANOD SHIVAJIRAO	Fish parasite (Tapeworm)
4	GZD401190	JADHAV AKSHAY BABAN	Helminth infection from freshwater fishes
5	GZD401191	JOGDAND AKANKSHA PANDIT	Helminth infection from Marine water fishes
6	GZD401192	LATE POOJA LAXMAN	Biodiversity Index of India
7	GZD401193	NIRMAL SHITAL SHAMRAO	Gastrointestinal Helminth (Whipworm)
8	GZD401194	RASKAR YOGITA CHANDRAKANT	Biology of Starfish (Asteroidea)
9	GZD401195	RAUT ASHWINI DIGAMBAR	DNA ( Structure study)
10	GZD401196	SABLE YOGITA BALIRAM	Growth of Silkworm
11	GZD401197	SALUNKE SONALI RAJKUMAR	Study of Microbial Peptides
12	GZD401198	UGALE PRASHANT SHIVNATH	Gastrointestinal Helminth (Hookworms)
13	GZD401199	WAGHCHOURE POOJA BHIMRAO	Infections of silkworm
14	GZD401200	WALHEKAR SMITA BHARAT	Protein Synthesis (Translation)

Head of the Department
Department of Zoology,
Mrs.K.S.K. College, Beed.

### **CERTIFICATE**

This is to certify that the dissertation entitled "Infection of silkworms": A Project Work, which is being submitted by Miss. Waghchoure Pooja Bhimrao Student of Department of Zoology, Mrs. Kesharbai Sonajirao Kshirsagar Alias Kaku Arts, Science & Commerce College, Beed 431122 Dr. Babasaheb Ambedkar Marathwada University, Aurangabad during the academic year 2022 -23 under supervision and the guidan A.D.Kaldhon Sir in partial fulfillment for the award of the degree of master of science in Zoology, is a record of his own work

A.D.kaldhon Sir (Project Guide)

Dr. A. N. Shelke
Prof. & Head of Department of Zoology,

Place: Beed Date: 26/05/23 Dr. Babasaheb Ambedkar Marathwada University,

Aurangabad-431 004.

#### **CERTIFICATE**

This is to certify that the dissertation entitled "Gastrointestinal Helminth (Whipworm)": A Project Work, which is being submitted by Miss. Nirmal Shital Shamrao Student of Department of Zoology, Mrs. Kesharbai Sonajirao Kshirsagar Alias Kaku Arts, Science & Commerce College, Beed 4311122 Dr. Babasaheb Ambedkar Marathwada University, Aurangabad during the academic year 2022-23 under supervision and the guidance of Prof. Dr. M. K Kale in partial fulfillment for the award of the degree of master of science in Zoology, is a record of his own work

Prof.Dr. M. K. Kale

(Project Guide)

Dr. A. N. Shelke

Prof. & Head of Department of Zoology,

Place: Beed

Date: 26/05/2023

## **CERTIFICATE**

This is to certify that the dissertation entitled "Biology Of Starfish":

A Project Work, which is being submitted by Mr./Miss.Raskar Yogita
Chandrakant. Student of Department of Zoology, Mrs. Kesharbai
Sonajirao Kshirsagar Alias Kaku Arts, Science & Commerce
College, Beed

431122 Dr. Babasaheb Ambedkar Marathwada University,

Aurangabad during the academic year 2022 -23 under supervision and the guidance of Prof. Dr. M.K. Kale sir in partial fulfillment for the award of the degree of master of science in Zoology, is a record of his own work

Prof. Dr. M.K. Kale Sir (Project Guide) Dr. A. N. Shelke
Prof. & Head of Department of Zoology,

Place: Date:

### **CERTIFICATE**

This is to certify that the dissertation entitled "Growth of Silkworms": A Project Work, which is being submitted by Miss.

Sable Yogita Baliram Student of Department of Zoology, Mrs. Kesharbai Sonajirao Kshirsagar Alias Kaku Arts, Science & Commerce College, Beed 431122 Dr. Babasaheb Ambedkar Marathwada University, Aurangabad during the academic year 2022 -23 under supervision and the guidance of A.D. Kaldhon Sir in partial fulfillment for the award of the degree of master of science in Zoology, is a record of his own work.

A.D. Kaldhon Sir (Project Guide)

Dr. A. N. Shelke Prof. & Head of Department of Zoology,

Place: Date: Dr. Babasaheb Ambedkar Marathwada University, Aurangabad - 431 004.

## **CERTIFICATE**

This is to certify that the dissertation entitled "GASTROINTESTINAL HELMINTH (HOOKWORM)": A Project Work, which is being submitted by Mr. UGALE PRASHANT SHIVNATH Student of Department of Zoology, Mrs. Kesharbai Sonajirao Kshirsagar Alias Kaku Arts, Science & Commerce College, Beed 431122 Dr. Babasaheb Ambedkar Marathwada University, Aurangabad during the academic year 2022 -23 under supervision and the guidance of Prof. A. D. KALDHON in partial fulfillment for the award of the degree of master of science in Zoology, is a record of his own work

Prof. A. D. KALDHON

(Project Guide)

Dr. A. N. Shelke

Prof. & Head of Department of Zoology,

Place: BEED

Date: 26/05/2023

# Mrs. KSK College, Beed.

#### **CERTIFICATE**

This is to certify that project report on "Fish Parasite (Tapeworm)" a bonafide work carried out by Manod Shivajirao Gunjal under my guidance and supervision. The martial from other source have been duly acknowledged his research.

This work is submitted in partial fulfilment of Dr.BabasahebAmbedkar University for the degree Master of Science Zoology in the academic year 2022--23

Dr. A. N. Stielke

**Project Guide** 

Pro. Dr. Shelke A. N.

**HOD Department of Zoology** 

Examinier

## **CERTIFICATE**

This is to certify that the dissertation entitled "Biodiversity in india": A Project Work, which is being submitted by Miss. Late Pooja Lakshmanrao Student of Department of Zoology, Mrs. Kesharbai Sonajirao Kshirsagar Alias Kaku Arts, Science & Commerce College, Beed 431122 Dr. Babasaheb Ambedkar Marathwada University, Aurangabad during the academic year 2022 -23 under supervision and the guidance of Prof. Dr. P.B. Sirsat Sir in partial fulfillment for the award of the degree of master of science in Zoology, is a record of his own work

Prof. Dr.P.B. Sirsat Sir (Project Guide)

Prof. & Head of Department of Zoology,

Place: Date:

# Mrs. KSK College, Beed.

#### **CERTIFICATE**

This is to certify that project report on "Helminth Infection From Freshwater fishes" a bonafide work carried out by Akshay Baban Jadhav under my guidance and supervision. The martial from other source have been duly acknowledged his research.

This work is submitted in partial fulfilment of Dr.BabasahebAmbedkar University for the degree Master of Science Zoology in the academic year 2022--23

Dr. P. B. Sirsat

**Project Guide** 

Pro. Dr. Shelke A. N

**HOD Department of Zoology** 

Examinier

## **CERTIFICATE**

This is to certify that the dissertation entitled "Study of Antimicrobial Peptides":

A Project Work, which is being submitted by Mr./ Miss. Salunke Sonali Rajkumar Student of Department of Zoology, Mrs. Kesharbai Sonajirao Kshirsagar Alias Kaku Arts, Science & Commerce College, Beed

**431122 Dr. Babasaheb Ambedkar Marathwada University,** for the award of the degree of master of science in Zoology, is a record **Aurangabad** during the academic year 2022 -23 under supervision and the guidance of **A D.Kaldhon** in partial fulfillment of his own work

AD .Kaldhon Sir (Project Guide)

Prof. Dr. A. N. Shelke & Head of Department of Zoology,

Place: Date:

# Mrs. KSK College, Beed.

#### **CERTIFICATE**

This is to certify that project report on "Protein Synthesis" a bonafide work carried out by Smita Bharat Walhekar under my guidance and supervision. The martial from other source have been duly acknowledged his research.

This work is submitted in partial fulfilment of Dr.BabasahebAmbedkar
University for the degree Master of Science Zoology in the academic
year 2022--23

Prof. A. D. Kaldhon Sir

**Project Guide** 

Pro. Dr. Shelken

**HOD Department of Zoology** 

Examinier

# Mrs. KSK College, Beed.

#### **CERTIFICATE**

This is to certify that project report on Helminth Infection From

Marine Water fishes a bonafide work carried out by Akanksha

Pandit Jogdand under my guidance and supervision. The martial

from other source have been duly acknowledged his research.

This work is submitted in partial fulfilment of Dr.BabasahebAmbedkar
University for the degree Master of Science Zoology in the academic
year 2022--23

Dr. P. B. Sirsat

**Project Guide** 

Pro. Dr. Shefke A. N

**HOD Department of Zoology** 

Examinier

Dr. Babasaheb Ambedkar Marathwada University, Aurangabad - 431 004.

## **CERTIFICATE**

This is to certify that the dissertation entitled "Topic Name":

A Project Work, which is being submitted by Miss. Raut Ashwini

Digambar Student of Department of Zoology, Mrs. Kesharbai

Sonajirao Kshirsagar Alias Kaku Arts, Science & Commerce

College, Beed 431122 Dr. Babasaheb Ambedkar Marathwada

University, Aurangabad during the academic year 2022 -23 under supervision and the guidance of Prof. Dr. Mk.Kale in partial fulfillment for the award of the degree of master of science in Zoology, is a record of his own work

Prof. Dr. Mk. Kale

(Project Guide)

Dr. A. N. Shelke

Prof. & Head of Department of Zoology,

Place: Date:

# Mrs. KSK College, Beed.

### **CERTIFICATE**

This is to certify that project report on "Marine Water Fishes" a bonafide work carried out by **Pooja Parmeshwar Ghodke** under my guidance and supervision. The martial from other source have been duly acknowledged his research.

This work is submitted in partial fulfilment of Dr.BabasahebAmbedkar University for the degree Master of Science Zoology in the academic year 2022--23

Dr. A. N. Shelke

**Project Guide** 

Pro. Dr. Shelke A. N

**HOD Department of Zoology** 

**Examinier** 

# Dr.BabasahebAmbedkarMarathwadaUniversity, Aurangabad -431 004.

## **CERTIFICATE**

This is to certify that the dissertation entitled "Freshwater Fishes": A Project Work , which is being submitted by Miss Srushti Satish Bansode Student of Department of Zoology, Mrs.Kesharbai Sonajirao Kshirsagar Alias Kaku Arts, Science & Commerce College, Beed 431122 Dr.Babasaheb Ambedkar Marathwada University, Aurangabad during the academic year 2022-23under supervision and the guidance of Prof. Dr. Anil Shelke in partial fulfillment for theaward of the degree of master of science in Zoology, is a record of hisownwork

Prof. Dr. April Shelke (ProjectGuide)

Dr.A.N.Shelke
Prof.&HeadofDepartmentofZoology,

Place: Date:

#### Academic year (2021 2022)

#### **Certificate**

This is certify that CHAVAN NITIN LAXMAN. student of

class M.Sc-llyear, Mrs. Kesharbai

Sonajirao kshirsagar Alis kaku Arts, science commerce College,

Beed has successfully

Completed the project Titel "ANTIMICROBIAL PEPTIDES FROM MARINE INVERTEBRATES"

During the acadamic year

2021 - 2022 toward partial fulfillment of zoology practical

examination conducted by Dr. Babasaheb Ambedkar marathawada University, Aurangabad.

Seat No. CZD-401122

Teacher signature

Principal signature

#### Academic year (2021 2022)

#### **Gertificate**

This is certify that GAIKWAD NAMDEV RAMBHAU student of class M.Sc-llyear, Mrs. Kesharbai

Sonajirao kshirsagar Alis kaku Arts, science commerce College, Beed has successfully

Completed the project Titel "ANIMAL HUSBANDRY"

During the acadamic year

2021- 2022 toward partial fulfillment of zoology practical examination conducted by Dr. Babasaheb Ambedkar marathawada University, Aurangabad.

Seat No. CZD-401123

Teacher signature

Principal signature

#### Academic Year (2021-2022)

#### Certificate

This is certify that Ghadge Shubhangi Vishnupant, a student of class M.Sc 2<sup>nd</sup> year, Mrs. Kesharbai Sonajirao kshirsagar Alis kaku Arts, Commerce & Science College Beed has successfully.

Completed the project Tital "The study of biology of starfish (Asteroidea)" during the acedamic year

2021- 2022 towards partial fulfilment of Zoology practical examination conducted by Dr. Babasaheb ambedkar marathwada university aurangabad.

Seat No. CZD401124

Teacher Signature.

Principal signature.

External Examiner Signature.

15/04/2022

#### Academic Year (2021-2022)

# **Certificate**

This is certified that Shravani Babanrao Hurkude, a student of class M.Sc IInd.

Mrs. K.S.K. Alis Kaku Arts, Science and Commerce college, Beed has successfully Completed the Project Tittle

Transcription In DNA,

during the academic year 2021-2022 towards partial fulfillment of Zoology practical examination conducted by Dr. Babasaheb Ambedkar Marathwada University, Aurangabad.

Seat no- **CZD401125** 

**Teacher Signature** 

**Principal Signature** 

#### NAVGAN SHIKSHAN SANSTHA RAJURI'S (N)

#### MRS. KESHARBAI SONAJIRAO KSHIRSAGAR ALIAS KAKU ART'S, SCIENCE & COMMERCE COLLEGE, BEED. 431122

#### -: CERTIFICATE :-

This is to certify that **Ku. Lakhe Shivani Bharat**, a student of class **M.sc II<sup>nd</sup> year**, Kesharbai Sonajirao Kshirsagar Alias Kaku Art's, Science & Commerce College Beed has successfully completed the project titled "<u>Study Of Migratory Birds In India</u>" during the academic year 2021 – 2022 towards partial fulfillment of zoology practical examination conducted by Dr. Babasaheb Ambedkar Marathwada University, Aurangabad. 431104.

Exam Seat No: CZD401126

Date: 15/07/2022

Dr. Shelke A. N.

Dr. Kshirsagar Sir

(HOD)

(Vice - Principle)

#### Academic year (2021 2022)

#### Certificate

This is certify that Manjusha Mahadev Paraskar, student of

class M.Sc-llyear, Mrs. Kesharbai

Sonajirao kshirsagar Alis kaku Arts, science commerce College,

Beed has successfully

Completed the project Titel Translation in protein synthesis.

During the acadamic year

2021 - 2022 toward partial fulfillment of zoology practical

examination conducted by Dr. Babasaheb Ambedkar marathawada University, Aurangabad.

Seat No. CZD401127

Teacher signature

Principal signature

#### Academic year (2021 2022)

#### **Gertificate**

This is certify that PAWAR RAMESHWAR SHAMRAO student of

class M.Sc-llyear, Mrs. Kesharbai

Sonajirao kshirsagar Alis kaku Arts, science commerce College,

Beed has successfully

Completed the project Titel "FRESH WATER FISHERY"

During the acadamic year

2021 - 2022 toward partial fulfillment of zoology practical

examination conducted by Dr. Babasaheb Ambedkar marathawada University, Aurangabad.

Seat No. CZD-401128

Teacher signature

Principal signature

Dr. Babasaheb Ambedkar Marathwada University, Aurangabad - 431 004.

### CERTIFICATE

This is to certify that the dissertation entitled "STUDY OF BIOLOGY OF CYPRINUS CARPIO L." A review, which is being submitted by *Mr. SACHIN KISAN PAWAR* Student of Department of Zoology, MRS. KESHARBAI SONAJIRAO KSHIRSAGAR ALIAS KAKU ARTS, SCIENCE AND COMMERCE COLLEGE, BEED during the academic year 2021-22 under supervision and the guidance of Prof. Dr. A.N.SHELKE SIR in partial fulfillment for the award of the degree of master of science in Zoology, is a record of his own work.

DR.A.N.SHELKE SIR

HEAD OF DEPT.OF ZOOLOGY

DR.P.B.SIRSAT SIR

DR.P.P.GAJKE SIR

Place: BEED Date: // 2022

#### Academic year (2021 2022)

#### Certificate

This is certify that bhadrashetti akshaykumar umakant student of

class M.Sc-llyear, Mrs. Kesharbai

Sonajirao kshirsagar Alis kaku Arts, science commerce College,

Beed has successfully

Completed the project Titel "ANTIMICROBIAL PEPTIDES FROM VERTEBRATES"

During the acadamic year

2021 - 2022 toward partial fulfillment of zoology practical

examination conducted by Dr. Babasaheb Ambedkar marathawada University, Aurangabad.

Seat No. CZD-401120

Teacher signature

Principal signature

#### Academic year (2021 2022)

#### Certificate

This is certify that PAWAR VIKAS TULSHIRAM student of class M.Sc-Ilyear, Mrs. Kesharbai

Sonajirao kshirsagar Alis kaku Arts, science commerce College,

Beed has successfully

Completed the project Titel "PANDEMIC COVID-19".

During the acadamic year

2021 - 2022 toward partial fulfillment of zoology practical

examination conducted by Dr. Babasaheb Ambedkar marathawada University, Aurangabad.

Seat No. : CZD-401130

Teacher signature

Principal signature

Dr. Babasaheb Ambedkar Marathwada University, Aurangabad - 431 004.

#### **CERTIFICATE**

This is to certify that the dissertation entitled "HYDROBIOLOGY AND FISHERIS OF MANGI DAM TALUKA KARMALA DISTRICT SOLAPUR (M.S)" A review, which is being submitted by Mr. PURNE ASHOK SOMINATH Student of Department of Zoology, MRS. KESHARBAI SONAJIRAO KSHIRSAGAR ALIAS KAKU ARTS, SCIENCE AND COMMERCE COLLEGE, BEED during the academic year 2021-22 under supervision and the guidance of Prof. Dr.A.N. SHELKE SIR in partial fulfillment for the award of the degree of master of science in Zoology, is a record of his own work.

DR.A.N.SHELKE SIR

HEAD OF DEPT.OF ZOOLOGY

DR.SIRSAT P.B SIR

DR.P.P.GAJKE SIR

Place: BEED Date: // 2022

#### Mrs. KSK Arts Commerce & Science College Beed

#### CERTIFICATE

This is certify that Amit Vinayakrao Raut has satisfactorily completed the project work entitled "Study of Fish Diversity Bindusara River, Tq. Beed, Dist. Beed 431122 Maharashtra for partial fulfillment of M.Sc. degree in Zoology by Dr. Babasaheb Ambedkar Marathwada University, Aurangabad during the academic year 2021-22.

External Examiner Signature

Dr.A.N.Shelke
Head, Department of Zoology,
Mrs.K.s.k College,
Beed.

### DR. Babasaheb Ambedkar Marathwada University,

Aurangabad- 431004.

# **CERTIFICATE**

This is to certify that the dissertation entitled "STUDY OF MITES AND TICKS,, A review, which is being submitted by, Mr. RATHOD ANIL VISHWANATH,, Student of department zoology MRS.KESARBAI SONAJIRAO KSHIRSAGAR ALIAS KAKU ARTS, SCIENCE & COMMERCE COLLEGE, BEED during the academic years 2021-22 under supervision & guidence of prof. DR. A.N. SHELKE in partial fulfilment for the award of the degree og master of science in zoology, is a record of his own work.

DR. A.N SHELKE

**HEAD OF DEPT.OF ZOOLOGY** 

Exmine

D.R SHIRSAT P.B

D.R P.P GAJKE

PLACE: BEED

DATE: 1 2022

Dr. Babasaheb Ambedkar Marathwada University, Aurangabad - 431 004.

### **CERTIFICATE**

This is to certify that the dissertation entitled "Infections of Silkworm and their Prevention: A review, which is being submitted by Mr. Dnyaneshwar Rameshwar Shinde Student of Department of Zoology, Mrs. K.S.K. College, Beed during the academic year 2021-22 under supervision and the guidance of Prof. Dr. A.N. Shelke Sir in partial fulfillment for the award of the degree of master of science in Zoology, is a record of his own work.

Dr. A.N. Shelke Sir Head Of Zoology Department Mrs. K.S.K. College, Beed. 431122

Place: Aurangabad Date: / / 2022.

#### Certificate

This is certify that SINGARE AISHWARYA LAHU. student of class M.Sc 2 year, Mrs. Kesharbai Sonajirao kshirsagar Alis kaku Arts, Commerce & Science College Beed has successfully.

Completed the project Tittle "New trend in sericulture" during the acedamic year 2021-2022 towards partial fulfilment of Degree of master of Science (Zoology) conducted by Dr. Babasaheb ambedkar marathwada university aurangabad.

Seat No. CZD401139

Teacher Signature.

Principle signature.

External Examiner Signature

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Navganshikshan sanstha rajuri's (N)

Mrs.KesharbaiSonajiraoKshirsagar Alis Kaku Arts, Science & Commerce

College , Beed

#### **CERTIFICATE**

This is to certify that Miss.Priya Ashok Vanjare , a student of class M.Sc-II, Mrs. KesharbaiSonajiraoKshirsagar Alias Kaku Arts ,Science & Commerce College,Beed has successfully completed the project titled Development of Chick Embryo during the academic year 2021-2022 towards partial fulfillment of zoology practical examination conducted by Dr. Babasaheb Ambedkar Marathawada University , Aurangabad.

Seat No.: CZD401140

**Teacher Signature** 

**Principal Signature** 

#### Certificate

This is certify that ROKADE KOMAL DILIPRAO. student of class M.Sc 2 year, Mrs. Kesharbai Sonajirao kshirsagar Alis kaku Arts, Commerce & Science College Beed has successfully.

Completed the project Tittel "Milkfish (Chanos chanos) "during the acedamic year 2021-2022 towards partial fulfilment of Degree of master of Science (Zoology) conducted by Dr. Babasaheb ambedkar marathwada university aurangabad.

Seat No. CZD401134

Teacher Signature

Principal signature.

Dr. Babasaheb Ambedkar Marathwada University, **Aurangabad - 431 004.** 

# **CERTIFICATE**

This is to certify that the dissertation entitled "Management of Climatic Factors for successful Silkworm": A review, which is being submitted by Mr. Vinayak Dhananjay Vanjare Student of Department of Zoology, Mrs. K.S.K. College, Beed Dr. Babasaheb Ambedkar Marathwada University Aurangabad. during the academic year 2021-22 under supervision and the guidance of Prof. Dr. A. N. Shelke Sir in partial fulfillment for the award of the degree of master of science in Zoology, is a record of his own work

Place: Beed Date: / / 2021

#### Academic Year 2021-2022

### **Certificate**

This is to Certify that Saddiwal Suraj Shivrajsingh a Student of Class M.sc 2<sup>nd</sup> Year

Mrs. Kesharbai Sonajirao Kshirsagar Alias Kaku Arts, Science and Commerce College, Beed

Has successfully completed the Project "Integrated Fisheries Management Plan" during the Academic Year

2021-2022 towards partial fulfillment of zoology practical examination conducted by

Dr. Babasaheb Ambedkar Marathwada University, Aurangabad

Seat No: CZD 401135

**Teacher Signature** 

**Principal Signature** 

#### Academic year (2021-2022)

#### Certificate

This is certify that Andil Swati Sudhakar a student of class M.Sc 2year, Mrs. Keshrabai Sonajirao Kshirsagar Ali's Kaku Arts, Commerce & Science College Beed has successfully.

Completed the project titleBeh" the study of Marine water fishes"

#### During the academic year

2021 -2022 toward partial fulfillment of zoology practical examination conducted by Dr. Babasaheb Ambedkar Marathwada University Aurangabad.

Seat no.CZD401250

**Teacher Signature.** 

Principal signature.

NavganShikshan Sanstha Rajuri's(N)

Mrs. KesharbaiSonajiraoKshirsagar Alias Kaku Arts, Science & Commerce College, Beed

### CERTIFICATE

This is to certify that Mr. Deepak Babasaheb Choure, a student of class M.Sc-II, Mrs. kesharbaiSonajiraoKshirsagar Alias Kaku Arts, Science & Commerce College, Beed has successfully completed the project titled The Poultry Farm during the academic year 2020-2021 towards partial fulfilment of Zoology practical examination conducted by Dr Babasaheb Ambedkar Marathwada University, Aurangabad.

Seat No: CZD401102

**Teacher Signature** 

**Principal Signature** 

#### **EXAMINER'S APPROVAL CERTIFICATE**



This is to certify that KALE NEHA BANSI, a student of class M.Sc-II, Mrs. kesharbai Sonajirao Kshirsagar Alias Kaku Arts, Science & Commerce College, Beed has successfully completed the project titled FISH FARMING during the academic year 2020-2021 towards partial fulfilment of Zoology practical examination conducted by Dr Babasaheb Ambedkar Marathwada University, Aurangabad.

Seat No: CZD401107

Professor Signature

Principal Signature

NavganShikshan Sanstha Rajuri's(N)

Mrs. KesharbaiSonajiraoKshirsagar Alias Kaku Arts, Science & Commerce College, Beed

online

#### CERTIFICATE

This is to certify that Mr. Khetre Balasaheb Vishsavambhar, a student of class M.Sc-II, Mrs. kesharbaiSonajiraoKshirsagar Alias Kaku Arts, Science & Commerce College, Beed has successfully completed the project titled The Poultry Farm during the academic year 2020-2021 towards partial fulfilment of Zoology practical examination conducted by Dr Babasaheb Ambedkar Marathwada University, Aurangabad.

Seat No: CZD401110

**Teacher Signature** 

**Principal Signature** 

### Academic Year (2020-21)

# Certificate

This is certify that Chavhan Pramod Bhimrao, a student of class M.Sc-II, Mrs.Kesharbai

Sonajirao Kshirsagar Alis Kaku Arts ,Science, Commerce College,Beed has successfully

completed the project Title Prawn Farming .during the academic year

2020-2021 towards partial fulfilment of zoology practical examination conducted by Br.Babasaheb

Ambedkar Marathwada University, Aurangabad.

**Seat No: CZD401101** 

**Teacher Signature** 

**Principal Signature** 

#### Navgan Shikshan Sanstha Rajuri's (N)

Mrs. Kesharbai Sonajirao Kshirsagar Alias Kaku Arts, Science & Commerce College, Beed

#### CertifiCate

This is to certify that **Deshmukh Pragati Vijay** -,a student of class M.Sc-II, Mrs. kesharbai Sonajirao Kshirsagar Alias Kaku Arts, Science & Commerce College, Beed has successfully completed the project titled **Insects in Local Area** during the academic year 2020-2021 towards partial fulfilment of Zoology practical examination conducted by Dr Babasaheb Ambedkar Marathwada University, Aurangabad.

Seat No: CZD401103

**Teacher Signature** 

**Principal Signature** 

NavganShikshan Sanstha Rajuri's(N)

Mrs. KesharbaiSonajiraoKshirsagar Alias Kaku Arts, Science & Commerce College, Beed

#### CERTIFICATE

This is to certify that **Londhe Rushikesh Maruti**, a student of class M.Sc-II, Mrs. kesharbaiSonajiraoKshirsagar Alias Kaku Arts, Science & Commerce College, Beed has successfully completed the project titled **Identification of Disease of Fish**, during the academic year 2020-2021 towards partial fulfilment of Zoology practical examination conducted by Dr Babasaheb Ambedkar Marathwada University, Aurangabad.

Seat No: CZD401113

**Teacher Signature** 

**Principal Signature** 

NavganShikshan Sanstha Rajuri's(N)

Mrs. KesharbaiSonajiraoKshirsagar Alias Kaku Arts, Science & Commerce College, Beed



#### **CERTIFICATE**

This is to certify that Mr. SHINDE GOKUL BALASAHEB, a student of class M.Sc-II, Mrs. kesharbaiSonajiraoKshirsagar Alias Kaku Arts, Science & Commerce College, Beed has successfully completed the project titled <u>packging of seed of fish for transportation</u> during the academic year 2020-2021 towards partial fulfilment of Zoology practical examination conducted by Dr Babasaheb Ambedkar Marathwada University, Aurangabad.

Seat No: CZD401124

**Teacher Signature** 

**Principal Signature** 

# Navgan Shikshan Sanstha Rajuri's(N) Mrs. Kesharbai Sonajirao Kshirsagar Alias Kaku Arts, Science & Commerce College, Beed

#### CERTIFICATE

This is to certify that KATKHADE POOJA ASHOK, a student of class M.Sc-II, Zoology Mrs. Kesharbai Sonajirao Kshirsagar Alias Kaku Arts, Science & Commerce College, Beed has successfully completed the project titled FISHING TOOLS AND TECHNEQUES during the academic year 2020-2021 towards partial fulfilment of Zoology practical examination conducted by Dr Babasaheb Ambedkar Marathwada University, Aurangabad.

Seat No: CZD401109

**Teacher Signature** 

**Principal Signature** 



#### **Dept. of Zoology**

This is certify that works is corporate in project

#### **IDENTIFICATION OF FRESHWATER FISHES**

**Submitted By** 

Mane Amol Ashok

M.Sc Zoology 2nd Year (IV Sem)

Seat No.: CZD401097

#### Academic Year 2020-2021

The project was carried out by the candidate under my guidance such material has been obtained from other sources have been daily acknowledgment in the project.

Examinar:

Place:

Bered

Date:

#### Navgan Shikshan Sanstha Rajuri's(N)

Mrs. Kesharbai Sonajirao Kshirsagar Alias Kaku Arts, Science & Commerce College, Beed

#### CERTIFICATE

This is to certify that -supekar Jayshree Bhausaheb,a
student of class M.Sc-II, Mrs. kesharbai Sonajirao Kshirsagar Alias Kaku Arts,
Science & Commerce College, Beed has successfully completed the project
titled Diversity of birds in local area
during the academic year 2020-2021 towards partial
fulfilment of Zoology practical examination conducted by Dr Babasaheb
Ambedkar Marathwada University, Aurangabad.
Seat No :CZD401127

**Teacher Signature** 

**Principal Signature** 

NavganShikshan Sanstha Rajuri's(N)

Mrs. KesharbaiSonajiraoKshirsagar Alias Kaku Arts, Science & Commerce College, Beed

ordine

#### CERTIFICATE

This is to certify that --*Mr.Kasule Amit Eknath*-----, a student of class M.Sc-II, Mrs. kesharbaiSonajiraoKshirsagar Alias Kaku Arts, Science & Commerce College, Beed has successfully completed the project titled ---**Types of ponds**-------during the academic year 2020-2021 towards partial fulfilment of Zoology practical examination conducted by Dr Babasaheb Ambedkar Marathwada University, Aurangabad.

Seat No: CZD401108

**Teacher Signature** 

**Principal Signature** 

# NavganShikshan Sanstha Rajuri's(N) Mrs. KesharbaiSonajiraoKshirsagar Alias Kaku Arts, Science & Commerce College, Beed

#### CERTIFICATE

This is to certify that Pakh Prashant Trimbak, a student of class M.Sc-II, Mrs. kesharbaiSonajiraoKshirsagar Alias Kaku Arts, Science & Commerce College, Beed has successfully completed the project titled ————————————————————————————————————
Seat No :

**Teacher Signature** 

**Principal Signature** 

# NavganShikshan Sanstha Rajuri's(N) Mrs. KesharbaiSonajiraoKshirsagar Alias Kaku Arts, Science & Commerce College, Beed

#### **CERTIFICATE**

This is to certify that Rakh Profull kurrar Polkman student of class
a student of class
M.Sc-II, Mrs. kesharbaiSonajiraoKshirsagar Alias Kaku Arts, Science &
Commerce College, Beed has successfully completed the project titledduring the academic
during the academic
year 2020-2021 towards partial fulfilment of Zoology practical examination
conducted by Dr Babasaheb Ambedkar Marathwada University, Aurangabad.

Seat No: CZD 401118

**Teacher Signature** 

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**Principal Signature** 

Navgan Shikshan Sanstha Rajuri's(N)

Mrs. Kesharbai Sonajirao Kshirsagar Alias Kaku Arts, Science & Commerce

College, Beed

#### CERTIFICATE

This is to certify that -. Shinde Namrata Sanjay a student of class M.Sc-II, Mrs. kesharbai Sonajirao Kshirsagar Alias Kaku Arts, Science & Commerce College, Beed has successfully completed the project titled - Sericulture during the academic year 2020-2021 towards partial fulfilment of Zoology practical examination conducted by Dr Babasaheb Ambedkar Marathwada University, Aurangabad.

Seat No: CZD401125

**Teacher Signature** 

**Principal Signature** 

NavganShikshan Sanstha Rajuri's(N)
Mrs. KesharbaiSonajiraoKshirsagar Alias Kaku Arts, Science & Commerce
College, Beed

online

#### **CERTIFICATE**

This is to certify that Mr. <u>Kadam Dipak Angad</u>, a student of class M.Sc-II, Mrs. kesharbaiSonajiraoKshirsagar Alias Kaku Arts, Science & Commerce College, Beed has successfully completed the project titled <u>packging of seed of fish for transportation</u> during the academic year 2020-2021 towards partial fulfilment of Zoology practical examination conducted by Dr Babasaheb Ambedkar Marathwada University, Aurangabad.

Seat No: CZD401106

**Teacher Signature** 

**Principal Signature** 

Navgan Shikshan Sanstha Rajuri's (N)

Mrs. Kesharbai Sonajirao Kshirsagar Alias Kaku Arts, Science & Commerce College, Beed

#### **CERTIFICATE**

This is to certify that Bade Sunita Prakash, a student of class M.Sc-II, Mrs. Kesharbai Sonajirao Kshirsagar Alias Kaku Arts, Science & Commerce College, Beed has successfully completed the project titled Fishing Tools and Techniques during the academic year 2020-2021 towards partial fulfilment of Zoology practical examination conducted by Dr Babasaheb Ambedkar Marathwada University, Aurangabad.

Seat No: CZD401099

Teacher Signature

**Principal Signature** 

#### Navgan Shikshan Sanstha Rajuri's (N)

#### MRS.KESHARBAI SONAJIRAO KSHIRSAGAR ALIAS KAKU

ART'S SCIENCE & COMMERCE COLLEGE, BEED.

#### CERTIFICATE

Certified that this report submitted by

Mr. Manchare Atul Angad

The student of semester -IV of the course Master of Science [M.Sc.Zoology], as a part of the practical work as prescribed by K.S.K College Beed. For the subject.

Major project titled 'Digestive System of Fish' We have guided them for the said work, assessed the same, we are satisfied that it is up to the standard envisaged for the level of the course. The said work may be presented for the partial fulfillment of the project work as Prescribed by Dr. Babasaheb Ambedkar Marathwada University Aurangabad.

Seat No: CZD401096

Guided by

Dr.Shelke A.N.

(H.O.D)

Mr.Raut D.S.

(Asst. Prof)

Examiner

Principal





Dept. of Zoology

This is certify that the works in corporated in project

"COLLECTION OF FISH FROM MARKET FOR IDENTIFICATION"

**SUBMITTED BY** 

Mr. Syed Mohd. Mateen Kaseem
Seat No. CZD401016

M.Sc. II Year (IV Sem.) in the year (2018-2019) was carried out by the candidate under my guidance, such material has been obtained from other sources have Beed daily acknowledgement in the project

Examiner :-

Place :- Beed

Date :- 10/12/2019

Prof.Dr. Shelke A.N.







Dept. of Zoology

This is certify that the works in corporated in project

# "COLLECTION OF FISH FROM MARKET FOR IDENTIFICATION"

**SUBMITTED BY** 

Mr. Kuldeep Bharat Raut

Seat No. :- CZD401064

M.Sc.II Yr. (IV-sem) in the year (2018-2019) was carried out by the candidate under my guidance, such material has been obtained from other sources have Beed daily acknowledgement in the project.

Examiner:-

H.O.D. (Dr. Shelke A.N.)

Place: - Beed.

Date: 19/05/2019



Dept. of Zoology

This is certify that the works in corporated in project

# "PACKAGING OF SEED FOR TRANSPORTAION"

SUBMITTED BY

### Mr. KHUTALE PARSHURAM RAMU

Seat No. :- CZD401057

M.Sc.II Yr. (IV-sem) in the year (2018-2019) was carried out by the candidate under my guidance, such material has been obtained from other sources have Beed daily acknowledgement in the project.

Examiner:-

Place :-BEED

Date : 4 /5 /2019



Dept. of Zoology

This is certify that the works in corporated in project

# "IDENTIFICATION OF FRESH WATER FISHES"

SUBMITTED BY

# Mr. KABLE SACHIN SANDIPAN

Seat No. :- CZD401054

M.Sc.II Yr. (IV-sem) in the year (2018-2019) was carried out by the candidate under my guidance, such material has been obtained from other sources have Beed daily acknowledgement in the project.

Examiner:-

Place :-BEED

Date : 1 7/2019



Dept. of Zoology

This is certify that the works in corporated in project

# "IDENTIFICATION OF FRESH WATER FISHES"

SUBMITTED BY

### Mr. MULE JAGDISH LAXMIKANT

Seat No. :- CZD401060

M.Sc.II Yr. (IV-sem) in the year (2018-2019) was carried out by the candidate under my guidance, such material has been obtained from other sources have Beed daily acknowledgement in the project.

Examiner :-

6

6

6

5

6

Place :- Beed.

Date: 19 05 2019

# Mrs.K.S.K College Arts, Commerce & Science College,Beed



**Dept.Of Zoology** 

This Is Certify That The Work In Corported In Project

"Fish Breeding In Techniques"

**Submited By** 

**Wayase Shima Suresh** 

Seat No.CZD401077

M.sc.II Yr (IV Sem) in the year (2017-2018) Was Carried Out By The Candiadate Under My Guidance, Such Material As Been Obtainal Form Other Sources Have **Beed Daily** 

Acknowledgement In The Project.

**Examiner** 

Dr.Shelke.A.N.

Place:- B 2019

Date:- 1915/2019



Dept. of Zoology

This is certify that the works in corporated in project

# **IDENTIFICATION OF MALE AND FEMALE FISHES**

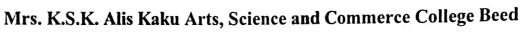
**SUBMITTED BY** 

KAMBLE KRANTI VASANT

Seat No. :- CZD401056

M.Sc.II Yr. (IV SEM) in the Year: - 2018-2019 was carried out by the candidate under my guidance, such material has been obtained from other sources have Beed daily acknowledgement in the project.

Examiner:Place:- Been a large part of the second part of the large part of the lar





#### Department of Marathi

#### **April May 2022-23**

#### B.A.T.Y. Project and Student List

Sr. No.	PRN No.	Student Name	Project Name
1	201915200042893	Dhaije Nikita Rajabhau	Sahityatil Dr. Babasaheb Ambedkar
2	201915200398053	Nannaware Dnyaneshwar Lahu	Annabhau Sathe Yanche Sathitya Lekhan
3	201915200399911	Raut Rohit Ramesh	Striyanchi Lokgite
4	201915200374283	Sonwane Siddharth Parmeshwar	Striyanchi Vidhigite
5	201315200381976	Vairale Sunil Manmath	Savitribai Phule Yanchi Kavita
6	201615200358934	Yadav Asha Gangadhar	Marathi Sahityatil Strichitran

मराठी विभागप्रमुख सौ.के.एस.के.महाविद्यालय,बीड.



मराठी विभाग

प्रमाणपत्र

प्रमाणित करण्यात येते की, कुर्मार / कुमारी - हार्गित कि कि कि कि प्राची भी कि प्राची करण्यात आला.

करिता प्रमाणित करण्यात येते .

दिनांक 28 /63 / 23

मार्गदर्शक मार्गदर्शक

विभागप्रमुख मराठी विशागप्रमुख सौ.के.एस.के.महाविद्यालय,बीड.



मराठी विभाग

## प्रमाणपत्र

प्रमाणित करण्यात येते की, कुमार / कुर्मारी कुनार / द्वार्गिश्वर (८५) याने / हिने मराठी विषयाच्या पेपर क्र. XII आणि XVI साठी - द्वाराणित रहिने परित्र या विषयावर प्रकल्प सादर केला. सदरील प्रकल्पाचे मुल्यांकन करुन तो मान्य /अमान्य करण्यात आला.

करिता प्रमाणित करण्यात येते .

दिनांक28 /03/23

मार्गदर्शक

विभागप्रमुख गराठी विभागप्रगुरव सौ.के.एस.के.महाविद्यालय,बीह.



मराठी विभाग

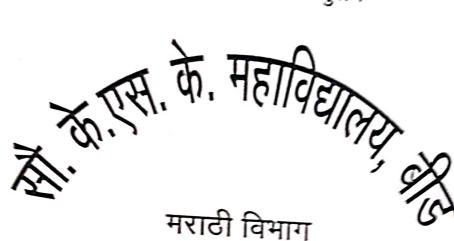
### प्रमाणपत्र

दिनांक२५ /५, /23

मार्गदर्शक

विभागप्रमुख

गराठी विभागप्रमुख सौ.के.एस.के.महाविद्यालय,बीह.



प्रमाणपत्र

प्रमाणित करण्यात येते की, कुमार / कुमीरी स्थोपाठ विस्तारी प्रमाहित याने / द्विन मराटो विषयाच्या पेपर क्र. XII आणि XVI साठी स्थितिकी विद्योगि ---- या विषयावर प्रकल्प सादर केला. स्टर्गल प्रकल्पाचे मुल्यांकन करन तो मान्य /अमीन्य करण्यात आला.

करिता प्रमाणित करण्यात येते :

दिनांक्य । १८ । १२ ३

मों के एक के नवाकियालय और

#### नवगण शिक्षण संस्था राजुरीचे



मराठी विभाग

#### प्रमाणपत्र

प्रमाणित करण्यात येते की, कुमार / कुर्मारी हिन्स है हिन्स है है। हिन्स है है। याने / इस्त्रे मराठी विषयाच्या पेपर क्र. XII आणि XVI साठी हिन्सि है पुर्छ थीनि किला या विषयावर प्रकल्प सादर केला. सदरील प्रकल्पाचे मुल्यांकन करुन तो मान्य /अमृन्य करण्यात आला.

करिता प्रमाणित करण्यात येते .

दिनांक २१ / ९ / २ 3

प्राणीय श्रीक मार्गदर्शक

विभागप्रमुख

गराठी विभागप्रगुरव सी.के.एस.के.महाविद्यालय,बीड,

#### नवगण शिक्षण संस्था राजुरीचे



# मराठी विभाग

#### प्रमाणपत्र

प्रमाणित करण्यात येते की, कुर्मार / कुर्मारी --शाट्व पुराही जिल्ला है। याने / हिने मराठी विषयाच्या पेपर क्र. XII आणि XVI साठी पुराही --साहिलाती है। --श्ली चिल्ला --स्ली चिल्ला --स्ली चिल्ला या विषयावर प्रकल्प सादर केला. सदरील प्रकल्पाचे मुल्यांकन करुन तो मान्य /अमर्न्य करण्यात आला.

करिता प्रमाणित करण्यात येते .

दिनांक <sup>28</sup>/<sup>65</sup> / 23

मार्गदर्शक

विभागप्रमुख गराठी विभागप्रमुख स्रो.के.एस.के.महाविद्यालय,बीड.

#### Department of Hindi 2022 - 2023 ( B.A.T.Y.(Main)



#### Student Project list

Sr.No.	Student Name	Project Title
1	Fasle Yashoda Shamrao	Kathakar Premchand
2	Kawade Chandrakant	Mahadevi Verma Ke Kawya ka Chitran
	Bhagwan	
3	Nawale Abhishek Prakash	Mahakavi Jay Shankar Prasad
4	Bhalerao Diksha Rajebhau	Mohan Rakesh Ka Katha Sahitya
5	Tambe Vishal Bhausaheb	Ramdharisingh Dinkar Ke Kawya Ka Chitran

Head of the

Head of the Dept.in Hindi

Internal Quality Assurance (et ... Mrs. R.S.K. College Precide (M.S.)

4 4 4 1

Navgan Shikshan Sanstha Rajuri (N)

#### Mrs. Kesharbai Sonajirao Kshirsagar Alias kaku Arts, Science Beed & Commerce College Beed (M.S.) & Commerce College Beed (M.S.)

#### **CERTIFICATE**

#### **DEPARTMENT OF HINDI**

This is to certify that Miss / Mr. Falone Jashodha Shamis B.A. Third Year (Main Hindi) completed project work title Kuthakur frenchandshe / he has completed satisfactory and submitted to Dr. Babasaheb Ambedkar Marathwada University, Aurangabad for fulfilment of UG Degree in Hindi in the year 2022-2023.

Incharge

Dr. P.B. Gaikwad.

बीड (महाराष्ट्र) -431122

#### Mrs. Kesharbai Sonajirao Kshirsagar Alias kaku Arts, Scienge & Commerce College Beed (M.S.)

#### CERTIFICATE

#### **DEPARTMENT OF HINDI**

This is to certify that Miks / Mr. Kawade Chunckakant B. Class B.A. Third Year (Main Hindi) has title completed project work Mahade Vi Velma ke Ske / he has completed satisfactory and submitted to Dr. Kawya Ka Chitem Babasaheb Ambedkar Marathwada University, Aurangabad for fulfilment of UG Degree in Hindi in the year 2022-2023.

Name & Sign of

Incharge Dr. P.B. Gaikwad.

Head of Departe प्रमुख

सी.के.एस.के.महाविद्यालय,

बीड (महाराष्ट्र) -431122

#### Navgan Shikshan Sanstha Rajuri (N)

# Mrs. Kesharbai Sonajirao Kshirsagar Alias kaku Arts, Science & Commerce College Beed (M.S.)

#### **CERTIFICATE**

#### **DEPARTMENT OF HINDI**

This is to certify that Miks/Mr. Nawale Abhishek Rakash Class B.A.

Third Year (Main Hindi) has completed project work in title

Mahakayi Jashankah Se/he has completed satisfactory and submitted to Dr.

Babasaheb Ambedkar Marathwada University, Aurangabad for fulfilment of UG Degree in Hindi in the year 2022-2023.

Name & Sign of

Incharge

Dr. P.B. Gaikwad.

Sign of

Head of Depar जिल्लाग प्रमुख

सौ.के.एस.के.महाविद्यालय्यु

#### Mrs. Kesharbai Sonajirao Kshirsagar Alias kaku Arts, Science & Commerce College Beed (M.S.)

#### CERTIFICATE

#### DEPARTMENT OF HINDI

This is to certify that Miss/Mr. Bhalevao Diksha RajebhauClass B.A.

Third Year (Main

Hindi)

completed

project

Mahan Rakesh Ka Kathasashe The has completed satisfactory and submitted to Dr.

Babasaheb Ambedkar Marathwada University, Aurangabad for fulfilment of UG Degree in Hindi in the year 2022-2023.

Incharge Dr. P. B. GaikWad.

Head विभिन्निश्वामण्डम्स्य सौ.के.एस.के.महाविद्यालय,

बीड (महाराष्ट्र) -431122

Navgan Shikshan Sanstha Rajuri (N)

Mrs. Kesharbai Sonajirao Kshirsagar Alias kaku Arts, Science & Commerce College Beed (M.S.)

#### CERTIFICATE

#### **DEPARTMENT OF HINDI**

This is to certify that Miss/Mr. Tambe Vilhan Bhaulahlb Class B.A.

Third Year (Main Hindi) has completed project work in title

Ram Malisingh Win Koshe / he has completed satisfactory and submitted to Dr.

Re Rawya Ra Chitan

Babasaheb Ambedkar Marathwada University, Aurangabad for fulfilment of UG Degree in Hindi in the year 2022-2023.

Name & Sign of

**Incharge** 

Dr. P. B. Gaikwad.

हिंदी विभाग प्रमुख Head of Density महिल्हालय

वीड (महाराष्ट्र) -431122

Navgan Shikshan Sanstha Rajuri (N)

#### Mrs. Kesharbai Sonajirao Kshirsagar Alias kaku Arts, Science & Commerce College Beed (M.S.)

#### **CERTIFICATE**

#### **DEPARTMENT OF HINDI**

This is to certify that Miss/Mr. Jadhay Kiran Ramba Class B.A.

Third Year (Main Hindi) has completed project work in title

Part Ke. Hawa She/he has completed satisfactory and submitted to Dr.

Babasaheb Ambedkar Marathwada University, Aurangabad for fulfilment of UG Degree in Hindi in the year 2022-2023.

Name & Sign of Incharge

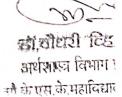
Dr. P.B. Garkwad.

Head **ठिंदी छिन्धानक स्तर्**य सौ.के.एस.के.महाविद्यालय,

सा.क.एस.क.महाविद्यालय, चोड (महाराष्ट्र) -431122 आज दिनांक भ (४) रोजी तृतीय वर्षाचा अहवाल पेपर क्र. (16) विषयाचा ताडा पर घेण्यात आली.त्याची उपस्थिती खालील प्रमाणे

अ.क्र.	विद्यार्थ्यांचे नाव	कार्य अहवालाचे नाव	परिक्षा क्रमांक
1>	34/19 ALIAD 34 AVAIRID	31911सी न्यट ज	NBF 603170
24	हतींगळे श्रीकेंद्र शिंडीमाभ	न्य क्षा ह	MBF603206
	कड्म प्रा अस्त्व	अस्ताय अग्रामि	NBF603213
4)	प्वार यहिल यामयाव	अशिक्षित्रमा	UBF-603257
5)		शिमा त्यवयाय	NBF. 60325
	,	\$ 29100	





431122



क. महाविद्यालिक क. अर्थशास्त्र विभाग ई प्रमाणपत्र हैं

प्रमाणित करण्यात येते की, कुमार/कुमारी जीति प्रतिष्ठ जिल्ला विषयाच्या पेपर क्र. XII आणि XVI साठी जिल्लास्त्र पेपर क्र. XII अणि XVI साठी जिल्लास्त्र पेपर क्र. XII अणि XVI साठी जिल्लास्त्र पेपर क्र. XII आणि XVI साठी जिल्लास्त्र पेपर क्र. XII आणि XVI साठी जिल्लास्त्र पेपर क्र. XII अणि XVI साठी जिल्लास्त्र पेपर क्र. XII अणि XVI साठी जिल्लास्त्र क्र. XII अणि XVI साठी जिल्लास्त्र पेपर क्र. XII अणि XVI साठी जिल्लास्त्र पेपर क्र. XII अणि XVI साठी जिल्लास्त्र क्र. XII अणि XVI साठी पेपर क्र. XII अणि XVI साठी जिल्लास्त्र क्र. XII अणि XVI साठी जिल्लास्त्र क्र. XII अणि XVI साठी पेपर क्

करिता प्रमाणित करण्यात येते.

दिनांक :29 /04/23

पार्गदर्शक

सार्गदर्शक
डॉ.चौधरी टिंड.एग.
अर्थकारत्र विभाग प्रमुख
स्रो के एस.के.कु.चिंडाना बीड.

ीरण प्रेट बहिः स्थ्र प्रेरिक्षक अर्थशास्त्र विभाग

KPIPIPI K

प्रमाणित करण्यात येते की, कुमार/कुमारी ह्राह्मां रित्र ही दिन्द होंडे याने/हिने अर्थशास्त्र विषयाच्या पेपर क्र. XII आणि XVI साठी हि ति विषयां करण्यात आला. सदरील प्रकल्प मान्य/अमान्य करण्यात आला. सदरील प्रकल्प मान्य/अमान्य करण्यात आला. सदरील प्रकल्पाचे मुल्यांकन करण्यात आले. करिता प्रमाणित करण्यात येते.

दिनांक : 29/04/23

मार्गदर्शक डॉ.चौधरी टिड.एम. अर्थकाल विभाग प्रमुख सौ.के.एस.के.जलविद्यातय बीड. मिर्ना पारक्षक - वहिः स्थापरिक्षक



क. महाविद्यालिक के अर्थशास्त्र विभाग कि अर्थशास्त्र विभाग कि अर्थशास्त्र के

प्रमाणित करण्यात येते की, कुर्मार/कुमारी. कुप्ता प्रानि कियाच्या पेपर क्र. XII आणि XVI साठी कुप्ताचा क्रियाच्या पेपर क्र. XII आणि XVI साठी कुप्ताचा क्रियाचा क्रियाचा क्रियाचा क्रियाचा प्रकल्प सादर केला. सदरील प्रकल्प मान्य/अमान्य करण्यात आला. सदरील प्रकल्पाचे मुल्यांकन करण्यात आले.

करिता प्रमाणित करण्यात येते.

दिनांक :29/04/23

मार्गस्थिक हों चीधरी दिख्य

अर्थकान्त्र विभाग प्रमुख गौ थेप्रसारी जातिय योड. Bhulge वहिःस्थ परिक्षक



द्धः के. महाविद्यात्त्र

KEPIDING &

प्रमाणित करण्यात येते की, कुमार/कुमारी प्रवार व्यह्न हो होने वाने/हिने अर्थशास्त्र विषयाच्या पेपर क्र. XII आणि XVI साठी उन्हें ट्यूवस्य राहि कार्या केला असान्य करण्यात आला सदरील प्रकल्प मान्य/अमान्य करण्यात आला सदरील प्रकल्प मान्य/अमान्य करण्यात आला सदरील प्रकल्पाचे मुल्यांकन करण्यात आले.

दिनांक : 29/04/23

मार्गदर्शक

नागप्राप्य डॉ.ची.टरी टिड.एम. अर्थफ्रास्त्र विभाग प्रमुख सौ.के.एस.के.पहादिचात्वय वीड. किएम र बहिः स्थ परिक्षक क. महाविद्याम

K RIPITIVI K

प्रमाणित करण्यात येते की, कुमार/कुमारी-तिक के आजा कि याने/हिने अर्थशास्त्र विषयाच्या पेपर क्र. XII आणि XVI साठी - श्रीति ट्यात्साय वे द्वाराह्य वे द्वाराह्य वा विषयावर प्रकल्प सादर केला सदरील प्रकल्प मान्य/अमान्य करण्यात आला सदरील प्रकल्पाचे मुल्यांकन करण्यात आले.

करिता प्रमाणित करण्यात येते.

दिनांक : 29 /04/23

मार्गदर्शक डॉ.चौधरी टिह.एम. अर्थसास्त्र विभाग प्रमुख

सौ.के.एस.के. १० विस्तानय वीड.

क्रिकेट बाहे: स्थं परिक्षक

### Navgan Shikshan Sanstha Rajuri (N)

#### MRS. KESHARBAI SONAJIRAO KSHIRSAGAR ALIAS KAKU ARTS, SCRE AND COMMERCE COLLEGE, BEED -431122

### DEPARTMENT OF POLITICAL SCIENCE

#### PROJECT STUDENT LIST

ACADEMIC YEAR- 2022-23

SR.NO.	STUDENT NAME	PROJECT NAME
1.	DHOLE MANISHA ASHOK	DR.BABASAHEB AMBEDKAR YANCHE SAMAJKARY
2.	FASALE AAYODHYA RAMCHANDRA	MAHATMA PHULE YANCHE SMAJKARY
3.	KAMBALE PIYA SWAMI	BHARTIY SWATANTRYALA 75 VARSH PURN ZALYA NIMITTANE RAJKIY VYASTHECHA CHIKITSK ABHAYS
4.	KAMBILKAR KRUSHNA BABAN	RAJA RAMMOHAN ROY YANCHE SAMJKARY
5.	KAMBILKAR SUMIT ABHIMAN	PANDITA RAMABAI
6.	PARANJAPE PRASHANT BAPPA	RASHTAWAD
7.	TANDLE ABHISHEK DEVIDAS	LOKMANYA TILAK YANCHE SAMAJKARY
		UDARMATVAD
8.	TANGDE RAHUL MASU	KARL MARX
9.	TAWARE BABA TUKARAM	MAHATMA GANDHI EK NETRUTVA
10.	UBALE ASHOK BABASAHEB	NYAYALAYIN SAKRIYATA
11.	VALKAR UMESH SOMNATH	NYAYALAYIN SARKITATA

Subject Teacher

Head of the Department Political Science

Mrs.K.S.K. College, Beed.

Principal
Principal
Mrs. K.S.K.
College, Beed.





## सौ. केशरबाई सोनाजीराव क्षीरसागर उर्फ काकू कला, विज्ञान व वाणिज्य महाविद्यालय, बीड

## प्रावहत्व मूल्यांवहन प्रामाणपत्र

शैक्षणिक वर्ष -2022-23

मार्च — एप्रिल

विद्यार्थी / विद्यार्थिनी लोले मिनिषा अधाक
क्रमें /हिने बी.ए.तृतीय वर्ष (राज्यशास्त्र) प्रकल्प कार्याअंतर्गतड्रॉ:ड्रावासाह्य
आंबेडकर वांचे समानकार्या विषयावर प्रस्तुत प्रकल्प कार्य स्वतः केलेले असून ते त्यान
तिने समाधानकारकपणे लिहलेले आहे.

दिनांक:-

आसन क्रमांक:-

प्राप्त गुण:-

20 + 80

= 100

बाह्य परीक्षक

अंतर्गत परीक्षक

विभाग प्रमुख

Political Science Mrs.K.S.K. College, Beed,





## सौ. केशरबाई सोनाजीराव क्षीरसागर उर्फ काकू कला, विज्ञान व वाणिज्य महाविद्यालय, बीड

## प्रदहल्प मुल्यांदहन प्रमाणपत्र

शैक्षणिक वर्ष -2022-23

मार्च - एप्रिल विद्यार्थी / विद्यार्थिनी ---फाली -- आश्रीह्या - रामचंद्र

याने /हिने बी.ए.तृतीय वर्ष (राज्यशास्त्र) प्रकल्प कार्याअंतर्गत -- महात्मा -- पुत्र ----- या विषयावर प्रस्तुत प्रकल्प कार्य स्वतः केलेले असून ते त्याने /तिने समाधानकारकपणे लिहलेले आहे.

दिनांक:-

आसन क्रमांक:-

प्राप्त गुण:-

20

100

अंतर्गत परीक्षक

80

Political Science College, Beed.

Mrs.K.S.K. College, Beed,





## सौ. केशरबाई सोनाजीराव क्षीरसागर उर्फ काकू कला, विज्ञान व वाणिज्य महाविद्यालय, बीड

## प्रदहल्प मूल्यांदहन प्रमाणपत्र

शैक्षणिक वर्ष -2022-23

मार्च - एप्रिल

ਜਿਤਾਈਂ / ਜਿਤਾਇੰਸ਼ੀ	0	$\bigcirc$		
विद्वाया / विद्यायना	का बळ	नपथा	401HI	

यमें /हिने बी.ए.तृतीय वर्ष (राज्यशास्त्र) प्रकल्प कार्याअंतर्गत् - भारतीय स्वातंत्वाला न्ड वर्ष साल्या निमिन्तान राजकीय व्यवस्थेया चिकी त्यक जिल्लास ---- या विषयावर प्रस्तुत प्रकल्प कार्य स्वतः केलेले असून ते त्याने

/ितने समाधानकारकपणे लिहलेले आहे.

दिनांक:-

आसन क्रमांक:-

प्राप्त गुण:-

80 20

100

अंतर्गत परीक्षक

**Political Science** Mrs.K.S.K. College, Beed.





## सो, केशरबाई सोनाजीराव क्षीरसागर उर्फ काकू कला, विज्ञान व वाणिज्य महाविद्यालय, बीड

## प्रदिन्त मूल्यांदन्न प्रमाणपत्र

शक्षिणिक वर्ष -2022-23

मार्च — एप्रिल

विद्यार्थी / विद्यार्थिनी ---- कि बिलकर क्टिंग छवन

याने /हिने बी.ए.तृतीय वर्ष (राज्यशास्त्र) प्रकल्प कार्याअंतर्गत --- बाजा -- बाजा निकास व्याचे --- समाजकार्थ ----- या विषयावर प्रस्तुत प्रकल्प कार्य स्वतः केलेले असून ते त्याने

/ितने समाधानकारकपणे लिहलेले आहे.

दिनांक:-

आसन क्रमांक:-

प्राप्त गुण:-

80 20

100

**Political Science** 

Mrs.K.S.K. College, Beed, Beed.





## सौ. केशरबाई सोनाजीराव क्षीरसागर उर्फ काकू कला, विज्ञान व वाणिज्य महाविद्यालय, बीड

## प्रहाणामार नित्रांकन प्रमाणापत्र

शैक्षणिक वर्ष -2022-23

मार्च - एप्रिल

विद्यार्थी / विद्य	प्तर्थिनी -	<u>a</u>	जंबी लव	<u> </u>	खुमिन	- अभिमा	7
याने /हिनें बी.	ए.तृतीय	वर्ष (रा	ज्यशास्त्र) प्र	कल्प काय	र्गअंतर्गत	पंडीता	रमाबाई-
			या वि	बषयावर प्र	स्तुत प्रकल्प	कार्य स्वतः केल	नेले असून ते त्याने
/तिने समाधान	कारकप	णे लिहल	नेले आहे.				
दिनांक:-					आसन क्र	मांक:-	
प्राप्त गुण:-	20	+	80	=	100		

बाह्य परीक्षक

अंतर्गत परीक्षक

विभाग प्रमुख H.O.D.

प्राचार्य Principal Mrs. K.S.K. ollege, Beed.

Political Science Mrs. K.S.K. Beed. Mrs.K.S.K. College, Beed.





## सौ. केशरबाई सोनाजीराव क्षीरसागर उर्फ काकू कला, विज्ञान व वाणिज्य महाविद्यालय, बीड

## प्रकल्प मूल्यांकन प्रमाणपत्र

शैक्षणिक वर्ष -2022-23

मार्च — ग्रिल

नाज राजर							
विद्यार्थी / विद्यार्थिनी प्रशांत प्रशांत खणा							
याने /क्रिनें बी.ए.तृतीय वर्ष (राज्यशास्त्र) प्रकल्प कार्याअंतर्गत द्वा स्ट्रवा द							
पा विषयावर प्रस्तुत प्रकल्प कार्य स्वतः केलेले असून ते त्याने							
/तिने समाधानकारकपणे लिहलेले आहे.							
दिनांक:- आसन क्रमांक:-							
प्राप्त गुण:- 20 + 80 = 100							

अंतर्गत परीक्षक

Political Science College, Beed.

Mrs.K.S.K. College, Beed.





# सौ. केशरबाई सोनाजीराव क्षीरसागर उर्फ काकू कला, विज्ञान व वाणिज्य महाविद्यालय, बीड

## प्रकल्प मूल्यांकन प्रमाणपत्र

शैक्षणिक वर्ष -2022-23

मार्च — एप्रिल

विद्यार्थी / ब्रिझार्थिनी ---- तिद्वी अभिषेक दिविहास

याने /द्विने बी.ए.तृतीय वर्ष (राज्यशास्त्र) प्रकल्प कार्याअंतर्गत ----लोकमान्य टिळक --- द्यांचे--- त्नमाजकार्थ-- या विषयावर प्रस्तुत प्रकल्प कार्य स्वतः केलेले असून ते त्याने /ितने समाधानकारकपणे लिहलेले आहे.

दिनांक:-

आसन क्रमांक:-

प्राप्त गुण:-

80 20

100

Zadam. अंतर्गत परीक्षक

**Political Science** 

Mrs.K.S.K. College, Beed college,





# सौ. केशरबाई सोनाजीराव क्षीरसागर उर्फ काकू कला, विज्ञान व वाणिज्य महाविद्यालय, बीड

## प्रदिन्यांदिन प्रमाणपत्र

शैक्षणिक वर्ष -2022-23

मार्च - एप्रिल

विद्यार्थी / विद्यार्थिनीविन्डि सहिन मसु
याने /हिने बी.ए.तृतीय वर्ष (राज्यशास्त्र) प्रकल्प कार्याअंतर्गतछ्रह्रारम्नवाद
प्रकल्प कार्य स्वतः केलेले असून ते त्याने
/ितने समाधानकारकपणे लिहलेले आहे.
दिनांक:- आसन क्रमांक:-
प्राप्त गुण:- 20 + 80 = 100

अंतर्गत परीक्षक

**Political Science** Mrs.K.S.K. College, Beed bllege, Beed





## सौ. केशरबाई सोनाजीराव क्षीरसागर उर्फ काकू कला, विज्ञान व वाणिज्य महाविद्यालय, बीड

## प्रकल्प मूल्यांकन प्रमाणपत्र

शैक्षणिक वर्ष -2022-23

मार्च - एप्रिल

विद्यार्थी / विद्य	तर्थिनी -	ता	वर	বার	T	- नुकार	ाम्			
याने /क्रिनें बी.	ए.तृतीय	वर्ष (राज	त्यशास्त्र)	प्रकल्प	काय	ञिंतर्गत	कार्ल	ਜਾ	and-	
			या	विषया	वर प्र	स्तुत प्रकल्प	कार्य स्वतः	केलेले	असून ते	त्याने
/तिने समाधान	कारकप	णे लिहले	ले आहे.							
दिनांक:-						आसन क्र	ज्मांक:-			
प्राप्त गुण:-	20	+	80		=	100				

बाह्य परीक्षक

Judam,

विभा<del>ग प्रमुख</del> **H.O.D**.

Political Science Processian Mrs.K.S.K. College, Beed Follege, Beed





## सौ. केशरबाई सोनाजीराव क्षीरसागर उर्फ काकू कला, विज्ञान व वाणिज्य महाविद्यालय, बीड

## प्रहरूप मूल्यांहरून प्रमाणपत्र

शैक्षणिक वर्ष -2022-23

			मार्च	— ī	र्प्रिल		
विद्यार्थी / विद्य	गर्थिनी -	36	गाळे ७	RIT	চ বার	ासाहब	
याने /हिने बी.।							नांधी-
<u> </u>	नेतृत्व	·····	या विषय	ावर प्र	स्तुत प्रकल्प व	गर्य स्वतः केलेले	असून ते त्याने
/तिने समाधान	कारकप	णे लिहले	ले आहे.				
दिनांक:-					आसन क्रम	कि:-	
प्राप्त गुण:-	20	+	80	=	100		

अंतर्गत परीक्षक

Political Science Mrs.K.S.K. College, Beed, Beed,





## सौ. केशरबाई सोनाजीराव क्षीरसागर उर्फ काकू कला, विज्ञान व वाणिज्य महाविद्यालय, बीड

## प्रदेशक्त मूल्यांद्यन प्रमाणपत्र

शैक्षणिक वर्ष -2022-23

बाह्य परीक्षक

अंतर्गत परीक्षक

विभाग प्रमुख

प्राचीर्य *Principal* Mrs. K.S.K. college, Beed.

#### Navgan Shikshan Sanstha Rajuri (N)

# MRS. KESHARBAI SONAJIRAO KSHIRSAGAR ALIAS KAKUARTS. SCIENCE AND COMMERCE COLLEGE, BEED -431122

#### DEPARTMENT OF PUBLIC ADMINISTRATION

PROJECT STUDENT LIST

ACADEMIC VEAR-1021-23

SR.NO.	STUDENT NAME	PROTECTALEME
1.	BACMAN MERIMMAD VENET AVER	PANNACHE NY ANDERSEA.
2	KORADI PRADIFILANMAN	99 STEE POLLETES9
3.	RAUT NIKITA DATTATRAY	MANIE A DAR DEWER AREA
4.	WAGHMARE ADITY & PRALHAD	1 0.330 01.331 0 0.3

Subject Teacher

Head of the Department H.O.D.
Public Administration
Mrs. K.S. K. College Beed

Frincipal

Principal
N.S.S.R.(N.) Mrs.Kasharbar
Sonajirao Kanissagar Alias Kaku
Arts, Science and Commerca
Codega, Seed.





## सौ. केशरबाई सोनाजीराव क्षीरसागर उर्फ काकू कला, विज्ञान व वाणिज्य महाविद्यालय, बीड

## प्रदहल्प मूल्यांदहन प्रमाणपत्र

शैक्षणिक वर्ष -2022-23

मार्च -एप्रिल

विद्यार्थी / विद	ग्रार्थिनी	9)8	प्रमार	आदि	य	7 M 14		
याने /हिने बी.ए.तृतीय वर्ष (लोकप्रशासन) प्रकल्प कार्याअंतर्गतप्रावितः								
			या र्	वेषयावर प्र	स्तुत !	प्रकल्प कार्य स्वतः केलेले असून ते त्याने		
/तिने समाधान	नकारकप	ाणे लिहत	नेले आहे.					
दिनांक:-					आ	॥सन क्रमांक:-		
प्राप्त गुण:-	20	+	80	=	100	0		

Principal

Public Administration N.S.S.R.(N.) Mrs.Kesharbai Mrs.K.S.K. College, Beganajirac Kshirsagar Alia Kaku Arts, Science and Commerce College, Beed.





## सौ. केशरबाई सोनाजीराव क्षीरसागर उर्फ काकू कला, विज्ञान व वाणिज्य महाविद्यालय, बीड

प्रकल्प मूल्यांकना प्रमाणपत्र

शैक्षणिक वर्ष -2022-23

100

बाह्य परीक्षाक

20

अंतर्गत परीक्षक

80

विभाग प्रमुख मि.स.

Public Administration N.S.S.R.(N.) Mrs.Keshartai

MESIK Conlege, Begitts, Science and Comme ce

College, Beed.







## सौ. केशरबाई सोनाजीराव क्षीरसागर उर्फ काकू कला, विज्ञान व वाणिज्य महाविद्यालय, बीड

## प्रहाल्य मूल्यांहान प्रमाणपत्र

शैक्षणिक वर्ष -2022-23

मार्च -एप्रिल

विद्यार्थी / द्रिव	द्यार्थिनी	ভাচ	वान मह	मंद	<u> युसुफ</u>	- अञ्चुब
याने /हिन बी	.ए.तृतीय	। वर्ष ( ल	गोकप्रशासन ) !	प्रकल्प	कार्याअंतर्गत	पाण्याच
- ठ्यवस्थ	14-		या विषय	ग्रावर प्र	स्तुत प्रकल्प का	ार्य स्वतः केलेले असून ते त्याने
/तिने समाधान	कारकप	णे लिहले	लि आहे.			
दिनांक:-					आसन क्रमांव	<b>ম:</b> -
प्राप्त गुण:-	20	+	80	=	100	

बाह्य परीक्षक

Principal

Public Administration Sonajirao Kshirsagar Alia Kaku Misskksskk Conference Arts, Science and Commerce College, Beed.





# सौ. केशरबाई सोनाजीराव क्षीरसागर उर्फ काकू कला, विज्ञान व वाणिज्य महाविद्यालय, बीड

## प्रकल्प मूल्यांकन प्रमाणपत्र

शैक्षणिक वर्ष -2022-23

100

बाह्य परीक्षक

20

अंतर्गत परीक्षक

80

विभाग प्रमुख H.O.D.

Principal S.S.R.(N.) Mrs.Kes

Public Administration in N.S.S.R.(N.) Mrs.Kesharbai
Public Administration in N.S.S.R.(N.) Mrs.Kesharbai
Public Administration in N.S.S.R.(N.) Mrs.Kesharbai
Richard Kasharbai

# Navgan Shikshan Sanstha Rajuri (N) Mrs K.S.K. College Beed Departmentof History B.A. III Year, (Main)



3/17	Name of Student	PRN-No	Project Title
1	Vyas Gaytri Prakashji		Kankaleshwar Sculpture & Architecture
2	Amate Pratiksha		Forts (Shivneri, Raigadh, Pratapgad, Vijaydurg)
3	Gaikwad Rohit Manik		Social Reformer (Mahatma Jotiba Fule)
4	Gadshing Rohan Jagannath		Chhatrapati Saambhaji Maharaj
S	Gotral Rahul Kailash		Dr. Babasaheb Ambedkar's Social Thought
6	Nawale Akshay Ankush		Dr. Babasaheb Ambedkar's Jivan Charitra
7	Amate Amar Chatrabhuj		Pratapgadh Fort
∞	Zhunge Sagar Dilip		Atal Bihari Vajpey
9	Ugale Ankit Arjun		Chhiranati Chinaii Mahani Falla I is

Total Ordinal Co. 5 of the Co.

Head of History Dept.

Dr Shind A V



#### Mrs. K.S.K. College Beed

#### **Department of Home Science**

Class B.A.T.Y. (Main)

#### List of Project Work

Year 2022-23

Sr. No.	Name of Student	Title of Project
1	Vishal Ramdas Jadhav	भारतातील महिलांमध्ये आढळणारा
		रक्तक्षय

Dr. M.S.Khandat

Nellardal

HOD

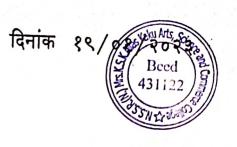
Home-Science

Dr.Maya Khandat

Research Guide HOD, Dept.of Home Science Mrs.K.S.K.College, Beed. (MH.)



प्रति, मा.प्राचार्य सौ.के.एस.के.महाविद्यालय, बीड



विषय :- कोविड-१९ च्या सर्व्हेसाठी परवानगी बाबत.

महोदय,

उपरोक्त विषयान्वये विनंती करण्यात येते की, महाविद्यालयातील समाजशास्त्र विभागातील विद्यार्थ्यांसाठी शैक्षणिक दृष्टीकोणातून शैक्षणिक वर्ष २०२२-२०२३ साठी मौजे विद्यार्चीचीवाडी ता.जि.बीड येथील ग्रामस्थांचा शुक्रवार दिनांक २० जानेवारी २०२३ रोजी सर्व्हें करावयाचा आहे.

तरी कोविड-१९ च्या सर्व्हेंसाठी परवानगी द्यावी ही विनंती.

आपला

श्री.खेत्री एच.आर. समाजशास्त्र विभाग प्रमुख

Department of Sociology Mrs. K.S.K College, Beed.

Syrvey

# Mrs.K.S.K.College,Beed

## Department of Programme / Activity Attendance Sheet

Name of Programme/ Activity:- Covide 19

Date: 19/04/2023 Class: B.A.F.Y. B.A.S.7.

Laku Arts, S

431122

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Sr.No. Nan	ne of Student	Time :-	Lo:30 A	~
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			<u>Departm</u>	ent of Sociology  K College, Beed.
			Mrs, K.S	.K College, Beed.

१.कुटूंब प्रमुखाचे नांव

:- औडवलकर भारळानाइ

२. गावाचे नाव

३. कुटूंबातील सदस्य संख्या

:- 4

४. शिक्षण

:- 12 वी

५. कोवीड -१९ आजार झाला होता का

:- होय / पाही

६. आजार

:- माही

७. लंस घेतली का

:५होयं / नाही

८. कोणती लस घेतली

:- कोवीडशिल्ड / कोवॅक्सीन

८. कोवीड -१९ किती डोस घेतले

- 9 4 3

९. कोवीड -१९ नियमावलीचे पालण करता का

:- 'होर्य / नाही

१०. मास्क वापरता का

:-५होर्य / नाही

११. सॅनिटायझर चा वापर करता का

:- 'होय / नाही

(क्री 15) उत्तरदात्याचे सही



१.कुटूंब प्रमुखाचे नांव खदान आपा हउ १ रकर

२. गावाचे नाव देवभानी वारी

३. कुटूंबातील सदस्य संख्या 🟚 न्ध्राह

४. शिक्षण :- नाहि

५. कोवीड -१९ आजार झाला होता का :- होय / न्राही

६. आजार :- ज्यही

७. लंस घेतली का

८. कोणती लस घेतली

८. कोवीड -१९ किती डोस घेतले :- १ २ 💉

९. कोवीड -१९ नियमावलीचे पालण करता का रन्होय / नाही

१०. मास्क वापरता का :- होय / नाही

११. सॅनिटायझर चा वापर करता का

्ठ्राण्] उत्तरदात्याचे सही

१.कुटूंब प्रमुखाचे नांव

:- पवार शमहरी

आसुन

२. गावाचे नाव

:- देवन्यानीवाडी

३. कुटूंबातील सदस्य संख्या

:- धार

४. शिक्षण

:- नाही

५. कोवीड -१९ आजार झाला होता का

:- होय /ऽनाही

६. आजार

:- नारी

७. लंस घेतली का

:- रहोय / नाही

८. कोणती लस घेतली

:- प्रकोवीडशिल्ड / / कोवॅक्सीन

८. कोवीड -१९ किती डोस घेतले

:- १२३)

९. कोवीड -१९ नियमावलीचे पालण करता का

:भ्होय / नाही

१०. मास्क वापरता का

:५्रहोय / नाही

११. सॅनिटायझर चा वापर करता का

: अहोय / नाही

उत्तरदात्याचे सही २०४७ हुने

१.कुटूंब प्रमुखाचे नांव

:- भांडवलकर

Beed 2 431122 8 1717

२. गावाचे नाव

:- देव-याचीवाडी

३. कुटूंबातील सदस्य संख्या

:- चार

४. शिक्षण

:- 7 ar

५. कोवीड -१९ आजार झाला होता का

:- होय ⁄ाही

६. आजार

:- नाही

७. लंस घेतली का

:-५होय / नाही

८. कोणती लस घेतली

:- रक्रोवीडशिल्ड / कोवॅक्सीन

८. कोवीड -१९ किती डोस घेतले

:- १ २ (३)

९. कोवीड -१९ नियमावलीचे पालण करता का

:- ह्रो<del>य /</del> नाही

१०. मास्क वापरता का

:-√झेय⁻/ नाही

११. सॅनिटायझर चा वापर करता का

:-\होय / नाही

अहा देव उत्तरदात्याचे सही

१.कुटूंब प्रमुखाचे नांव

:- हारतउकर आशोक लक्ष्मण

२. गावाचे नाव

:- देवआचीवाडी

३. कुटूंबातील सदस्य संख्या

:- पाच

४. शिक्षण

:- 🕲 वारावी

५. कोवीड -१९ आजार झाला होता का

:- होय / नाझी

६. आजार

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७. लंस घेतली का

:-् होय⁄/ नाही

८. कोणती लस घेतली

:- क्रोवीडशिल्ड / कोवॅक्सीन

८. कोवीड -१९ किती डोस घेतले

:- १ (२) ३

९. कोवीड -१९ नियमावलीचे पालण करता का

:- झेय / नाही

१०. मास्क वापरता का

:५झेय / नाही

११. सॅनिटायझर चा वापर करता का

:- ह्रोय' / नाही

ÀSḥOK उत्तरदात्याचे सही

१.कुटूंब प्रमुखाचे नांव

:- भांडवलकर दामोदर पिराजी :- देवऱ्याचीवाडी-

२. गावाचे नाव

३. कुटूंबातील सदस्य संख्या

तीन

४. शिक्षण

५. कोवीड -१९ आजार झाला होता का

:- होय ८ जाही

६. आजार

७. लंस घेतली का

:- होय / नाही

८. कोणती लस घेतली

:- अनेवीडशिल्ड / कोवॅक्सीन

८. कोवीड -१९ किती डोस घेतले

:- १ 🗷

९. कोवीड -१९ नियमावलीचे पालण करता का

:- होय / नाही

१०. मास्क वापरता का

:-, होय / नाही

११. सॅनिटायझर चा वापर करता का

:- होय / नाही

स्त्र मन

उत्तरदात्याचे सही

१.कुटूंब प्रमुखाचे नांव

:- दलार्थ हरीभाकन रिदे

२. गावाचे नाव

:- देव-याची-वाडी

३. कुटूंबातील सदस्य संख्या

:- 5

४. शिक्षण

:- 700

५. कोवीड -१९ आजार झाला होता का

:- होय / नाही

६. आजार

:- जाही

७. लंस घेतली का

:- होय / नार्ही

८. कोणती लस घेतली

:- कोवीडशिल्ड / कोवॅक्स्रीन

८. कोवीड -१९ किती डोस घेतले

:- १ २ ३

९. कोवीड -१९ नियमावलीचे पालण करता का

:- होय / न्यूही

१०. मास्क वापरता का

:- होय / नाही

११. सॅनिटायझर चा वापर करता का

:- होय / नाही

यद्यीर्थे उत्तरदात्याचे सही

१.कुटूंब प्रमुखाचे नांव

:- श्रीभाग्न अन्ना पवार

२. गावाचे नाव

:- हेवराई-छी वाडी

३. कुटूंबातील सदस्य संख्या

- चार

४. शिक्षण

:- 10 a

५. कोवीड -१९ आजार झाला होता का

:- होय / नाही

६. आजार

:- -0167

७. लंस घेतली का

:- होयं / नाही

८. कोणती लस घेतली

:- कोवीडशिल्ड / क्रीवॅक्सीन

८. कोवीड -१९ किती डोस घेतले

- १ 🗡 ३

९. कोवीड -१९ नियमावलीचे पालण करता का

:- ह्रेय / नाही

१०. मास्क वापरता का

- ह्रोय / नाही

११. सॅनिटायझर चा वापर करता का

:<sub>-</sub>र्हॉय / नाही

उत्तरदात्याचे सही

१.कुटूंब प्रमुखाचे नांव

:- आधारिक सीपान भांदलकर

२. गावाचे नाव

:- हैवराइन्छी वाडी

३. कुटूंबातील सदस्य संख्या

:- UK

४. शिक्षण

:- 5 ai

५. कोवीड -१९ आजार झाला होता का

:- होय / न्राही

६. आजार

:- - 4/312

७. लंस घेतली का

:-्ह्रोयं / नाही

८. कोणती लस घेतली

:- कोवीर्डाशल्ड / कोव्रॅक्सीन

८. कोवीड -१९ किती डोस घेतले

:- १ २ 🔻

९. कोवीड -१९ नियमावलीचे पालण करता का

:- ह्रॉय / नाही

१०. मास्क वापरता का

:- होयं / नाही

११. सॅनिटायझर चा वापर करता का

:- ह्रोय / नाही

किस्त्री बाउ उत्तरदात्याचे सही





प्रति, मा.प्राचार्य, सौ.के.एस.के.महाविद्यालय, बीड



विषय :- साहित्याचे वाटप व अ.जमातीचा सर्व्हे करण्यासाठी परवानगी मिळणे बाबत.

महोदय,

उपरोक्त विषयान्वये विनंती करण्यात येते की, शै.वर्ष २०२१-२२ करिता महाविद्यालयातील समाजशास्त्र विभागातर्फे विद्यार्थ्यांच्या शैक्षणिक दृष्टीकोणातून बाशीरोड येथील अनुसूचीत जाती आणि जमातीच्या लोकांचा सामाजिक,आर्थिक सर्व्हे करुन त्यांच्या आर्थिकदृष्टीया बिकट असलेल्या कुटूंबातील मुलांना शैक्षणिक साहित्याचे वाटप करणेसाटी परवानगी देण्यात यावी.

प्रा.खेत्री एच.आर. समाजशास्त्र विभाग प्रमुख

Head

Department of Sociology Mrs. K.S.K College, Beed.

05.1.22

Page No. letter 52

#### EVENT REPORT

Colores Selvan
Slum Area: - Social, Health, Education sar JJ72 Life long and extension services 05-01-2022 Barshi Naka Bood
Use long and extension services
Tuka DCC0
Prof.H.R Khetri, Shete N.P



Slum Area: - Social, Health, Education survey

#### Name of the Percipient

- 01. Jogdand Aishwarya decapak
- 02. Paremshwari Megha Kanhayyalal
- 03. Garje Janvhi Pradeep
- 04. Parmeshwari Priya dagadu
- 05. Shinde Fulchand Mahadeo
- 06. Jadhav Ashwini Sunil
- 07. Deshmukh Pranjali
- 08. Wagmare Shabdali
- 09. Sawant Pooja

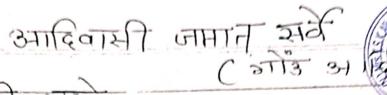
Department of Sociology Mrs. K.S.K College, Beed.

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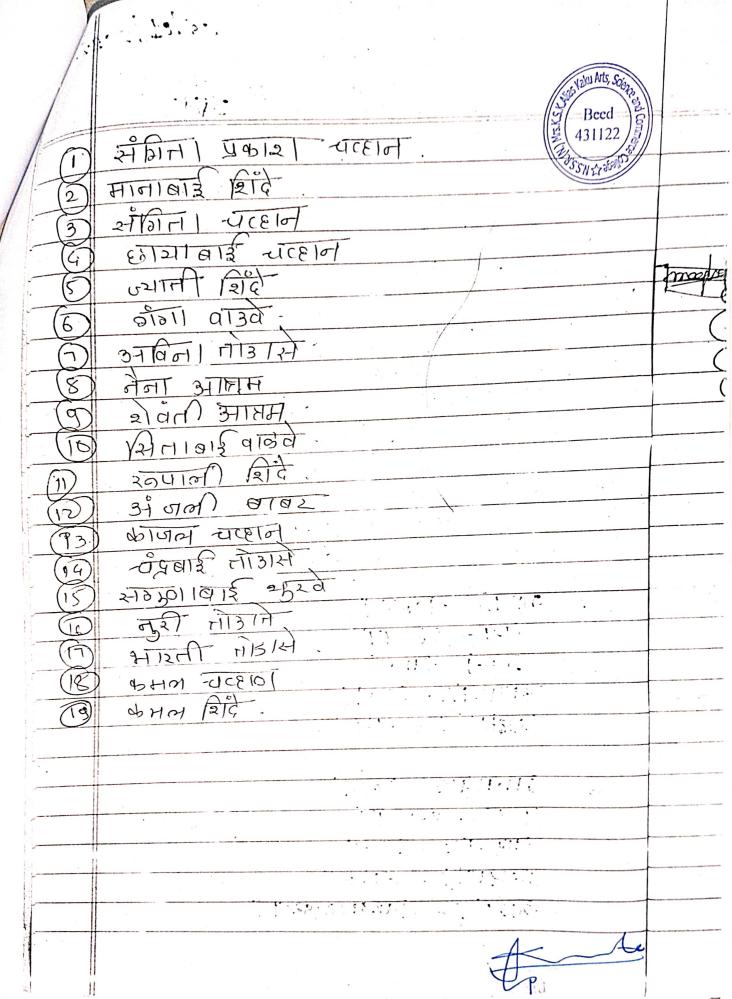
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यमाप्तशास्त्रा विक्राता विभागातील उपरिन्थत Peromeshurizi Megha kanhaiyala Parmeshwar Priya Dogady Jogdend Aishwazya DiPak Pronjali Protaprao Deshmykl Waghrance SI Khandaro Datta JandiPan. Damini Machindra Sumt Kiran समाजश्रभ्य) Department of Sociology Mrs. K.S.K College, Beed.

## 05/01/2022



- ्राका जे भेरल त्या वाहनानी
- 2 सपना लोडासे भावा - आदिवासी शाका येउसी
- (3) भारती नोडासे - हिती - लग्न झाल्यानेतर 2 वर्षे जैतर सामरी पारवतात \* लग्न आल्यानेतर शिषु देने नाहीते
- काजिल न्यव्हार्ग वय- १६ वर्ष लग्न झाल ग्राप्ट्म: - होन शिक्षण : - नाही
- क्राम्प्याइ विशेष्ट वय - २० वर्ष अप्य ! - हो उ विश्वार : - विश्वार देविकार



Department of Sociology Mrs. K.S.K College, Beed. नवगण शिक्षण संस्था राजूरीचे



क. एस् .के. महाविद्यालय

समाजशास्त्र विभाग

# \*प्रमाणपत्र \*

प्रमाणित करण्यात येते की, कुमार /कुमारी जाञ्यकवाड जना प्रल्हाद्दशव प्रमें / हिने समाजशास्त्र विषयाच्या पेपर क्र. XII आणि XVI साठी कुमार कृण्यात करण्यात या विषयावर प्रकल्प सादर केला. सदरील प्रकल्प मान्य करण्यात आला. सदरील प्रकल्पाचे मुल्यांकन करण्यात आले.

करिता प्रमाणित करण्यात येते.

दिनांक :- 17/04 / 2023

मार्गदर्शक Khetsi Head Dept.of Sociology ' Mrs. K.S.K.College, Beed. prot: Khetri H.R. बाह्य परिक्षक

Dr. N. B. Shide Sawarkar college, Beed Dept. of 802'01497 नवगण शिक्षण संस्था राजूरीचे



क. एस् .के. महाविद्यात्म्य

समाजशास्त्र विभाग

# \*प्रमाणपत्र \*

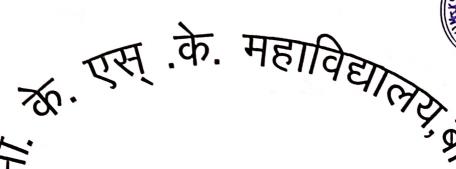
प्रमाणित करण्यात येते की, कुमार /कुमारी आडि अनिस्ना व्यक्तिस्ति व्यक्तिस्ति याने / हिने समाजशास्त्र विषयाच्या पेपर क्र. XII आणि XVI साठी -महिला अवलिक्सण-याने / हिने समाजशास्त्र विषयाच्या पेपर क्र. XII आणि XVI साठी -महिला अवलिक्सण-या विषयावर प्रकल्प सादर केला. सदरील प्रकल्प मान्य करण्यात आला. सदरील प्रकल्पाचे मुल्यांकन करण्यात आले.

करिता प्रमाणित करण्यात येते.

दिनांक :-17/04 / 20:23

मार्गदर्शक Khetzi Head Dept.of Sociology Mrs. K.S.K.College,Beed. २ १४६ मिर्टिश में R- and utens Shinde sawarkar college, Bead Dept. of Sociology.

नवगण शिक्षण संस्था राजूरीचे



समाजशास्त्र विभाग

# \*प्रमाणपत्र \*

प्रमाणित करण्यात येते की, कुमार /कुमारी क्रिया उनुविश् उन्नातिक याने / हिने समाजशास्त्र विषयाच्या पेपर क्र. XII आणि XVI साठी न्याद्भी में लिक निर्माण या विषयावर प्रकल्प सादर केला. सदरील प्रकल्प मान्य करण्यात आला. सदरील प्रकल्पाचे मुल्यांकन करण्यात आले.

करिता प्रमाणित करण्यात येते.

दिनांक :13-104 1 2023

मार्गदर्शक Khefn Head Dept.of Sociology Mrs. K.S.K.College, Beed. १००६ - Khefn H.R. बाह्य परिक्षक Dr. N. B. Shinde Sawarkar College, Beed. Dept. 1 9021010976.

#### Navgan Shikshan Sanstha, Rajuri MRS. Keshrbai Sonajirao Kshirsagar Alias Kaku Arts, Science & Commerce College

#### . Beed- 431122 Department of Urdu

#### List of project B.A III year

Sr no	Name of student	Project name
1.	Bagwan anjum omar	Bashra Nawaz ek mukhtesar tabsera
2.	Momin rommesh zofin abdul salam	Nazir akbar abadi ki awami sheri
3.	Momin shagufta parveen khaliloddin	Allhama Iqbal ek mukhtesar jaeza
4.	Pathan azeem raheman	Bashra Nawaz ek mukhtesar tabsera
5.	Syed bushra begum afsar	Bashra Nawaz ek mukhtesar jaeza
6.	Syed kaifan syed kaleem	Allhama Iqbal ek mukhtesar jaeza

H.O.D

Head of Department Urdu Mrs.K.S.K. College Beed.





# सौ. केशरबाई सोनाजीराव क्षीरसागर उर्फ काकू कला, विज्ञान व वाणिज्य महाविद्यालय, बीड

# प्रकल्प मूल्यांकन प्रमाणपत्र

शैक्षणिक वर्ष -2022-23

' मार्च -एप्रिल

दिनांक:-

आसन क्रमांक:-

बाह्य परीक्षक

विभाग प्रमुख Head of Department Urdu





# सों, केशरबाई सोनाजीराव क्षीरसागर उर्फ काकू कला, विज्ञान व वाणिज्य महाविद्यालय, वीड

# व्यक्त मूल्यांहरून प्रमाणपत्र

शैक्षणिक वर्ष -2022-23 . \*•

दिनांक:-

आसन क्रमांक:-

बाह्य परीक्षक

विभाग प्रमुख Head of Department Urdu





# सी. केशरबाई सोनाजीराव क्षीरसागर उर्फ काकू कला, विज्ञान व वाणिज्य महाविद्यालय, वीड

# प्रकल्प मूल्यांकन प्रमाणपञ्च

शैक्षणिक वर्ष -2022-23

मार्च -एप्रिल

विद्यार्थि / विद्यार्थिनी --- Pathan Azeem Rakeman

याने /हिने बी.ए.तृतीय वर्ष उर्दु प्रकल्प कार्याअंतर्गत - Bushan Nawaz ek mulektesan tabses ut विषयावर प्रस्तुत प्रकल्प कार्य स्वतः केलेले असून ते त्याने /तिने समाधानकारकपणे लिहलेले आहे. हा अहवाल डॉ. वावासाहेव आंवेडकर मराठवाडा विद्यापीठ औरंगाबाद येथे सादर केला आहे

दिनांक:-

आसन क्रमांक:-

बाह्य परीक्षक

विभाग प्रमुख Head of Department Urdu





# स्रो. केशरबाई सोनाजीराव क्षीरसागर उर्फ काकू कला, विज्ञान व वाणिज्य महाविद्यालय, बीड

प्रकल्प मूल्यांकन प्रमाणपत्र

शैक्षणिक वर्ष -2022-23

' मार्च -एप्रिल

विद्यार्थी / विद्यार्थिनी - Momin Stagutta Pasyeen khalilosldin

याने /हिने बी.ए.तृतीय वर्ष उर्दु प्रकल्प कार्याअंतर्गत - Allama Iqbal ek

2004/14 हिन्दे - निवहरूक-- या विषयावर प्रस्तुत प्रकल्प कार्य स्वतः केलेले असून ते त्याने

/तिने समाधानकारकपणे लिहलेले आहे. हा अहवाल डॉ. बाबासाहेब आंबेडकर मराठवाडा विद्यापीठ औरंगाबाद येथे सादर केला आहे

दिनांक:-

आसन क्रमांक:-

बाह्य परीक्षक

विभाग प्रमुख Head of Department Urdu





# सौ. केशरबाई सोनाजीराव क्षीरसागर उर्फ काकू कला, विज्ञान व वाणिज्य महाविद्यालय, बीड

# प्रहालप मूल्यांहान प्रमाणपत्र

शक्षिणिक वर्ष -2022-23

मार्च -एप्रिल

विद्यार्थी / विद्यार्थिनी - <u>Buguan Anjum Omas</u>

याने /हिने बी.ए.तृतीय वर्ष उर्दु प्रकल्प कार्याअंतर्गत - <u>Bashas Nawaz</u> ek

विद्यापीठ औरंगाबाद येथे सादर केला आहे.

दिनांक:-

आसन क्रमांक:-

बाह्य परीक्षक

विभाग प्रमुख Head of Department Urdu





# स्रो. केशरबाई सोनाजीराव क्षीरसागर उर्फ काकू कला, विज्ञान व वाणिज्य महाविद्यालय, बीड

प्रदिन्ति मूल्यांदिन प्रमाणपत्र

शैक्षणिक वर्ष -2022-23. 🔭

'मार्च -एप्रिल

विद्यार्थी / विद्यार्थिनी - Momin Kommesh Zofin abdul Salum याने /हिने बी.ए.तृतीय वर्ष उर्दु प्रकल्प कार्याअंतर्गत - Mazir akhas abadi Ki awami Shezi - या विषयावर प्रस्तुत प्रकल्प कार्य स्वतः केलेले असून ते त्याने /तिने समाधानकारकपणे लिहलेले आहे. हा अहवाल डॉ. बाबासाहेब आंबेडकर मराठवाडा विद्यापीठ औरंगाबाद येथे सादर केला आहे

दिनांक:-

आसन क्रमांक:-

बाह्य परीक्षक

विभाग प्रमुख Head of Department Urdu

# MRS.KSK.COLLEGE, BEED. DEPARTMENT OF GEOGRAPHY. A.Y.202

#### Y. A.Y.2U4202360

#### PROJECT TITLE AND NAME LIST OF STUDENT

- ❖ A GEOGRAPHICAL STUDY OF POPULATION IN BEED DISTRICT.
  - 1. BAHIR ARCHANA DNYANDEV
  - 2. GAVATE VAIBHAV SUNIL
  - 3 MANE MANESH SHAHADEV
  - 4 KAMBILKAR BALASAHEB DATTU
  - 5 PACHANKAR KIRAN SANJAY
  - 6 TODEKAR ASHOK MARUTI
  - 7 MANE ANIL ASHOK
  - 8 KALE BHARAT KHANDU
  - \* A STUDY OF AGRICULTURE IN BEED DISTRICT.
    - 1. PATHAK SHAM NARENDRA
    - 2. SONI AJAY HIRALAL
    - 3. ROMAN KIRAN ASHOK
  - ❖ A STUDY OF NATURAL DISASTER SPECIAL REFERENCE TO LAND SLIDING
    - 1. GHADGE PRATIKSHA SUNIL
    - 2. NISARGAN SHITAL BHAYYASAHEB
- **❖** A STUDY OF TURIST DESTINATION IN MAHARASHTRA.
  - 1. SALUNKE SUCHITA ARJUN
- ❖ A GEOGRAPHICAL STUDY OF WATER AND AIR POLLUTION.
  - 1. SHAIKH AMIN RAJJAK
  - 2. RANJWAN PRATIKSHA KISAN

Capt. Dr. POTE B.T.

Head Department of Geography
Mrs. K.S.k. College Beed

डॉ. बाबासाहेब आंबेडकर मराठवाडा विद्यापीठ, औरंगावाद.

सौ. केशरबाई सोनाजीराव क्षीरसागर उर्फ काकू कला, विज्ञान व वाणिज्य महाविद्यालय,वीड.



## प्रकल्प अहवाल

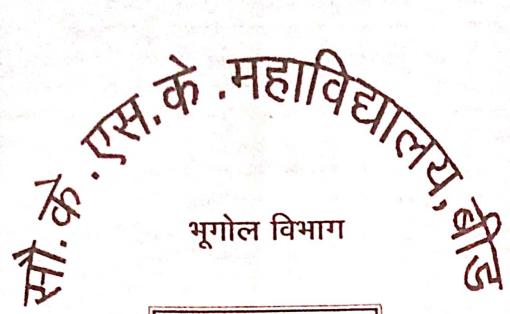
२०२२-२०२३

बी.ए. तृतीय वर्ष सत्र सहावे बीड जिल्हा लोकसंख्येचा भौगोलिक अभ्यास

संशोधक विद्यार्थी गवते वैभव सुनिल

संश्मेधक मार्गदर्शक कॅप्टन. डॉ. पोटे बी.टी. विभाग प्रमुख

पदवी व पदव्युत्तर भूगोल विभाग सौ. के.एस.के. महाविद्यालय, बीड.



# प्रमाणपत्र

प्रमाणित करण्यात येते की. <u>श्लीनी कालाश हिरास्वाला परीक्षा</u> के. NBF किंद्रशा-बी. ए. तृतीय वर्ष (सत्र सहावे) भूगोल यांनी शंक्षणिक वर्ष १०२२ -२०२३ मध्ये ब्लेक्ट्रीक्ल्ब्यु : - क्वी त्याच्याराम्या कार्यशास्त्र

या विषयावर माझ्या मार्गदर्शनाखाली वर्षभर यशस्वी कार्य करून अभ्यासपूर्ण प्रकल्पाचे लेखन विद्यापीठ मार्गदर्शक सुवनेनुसार कलेले आहे.

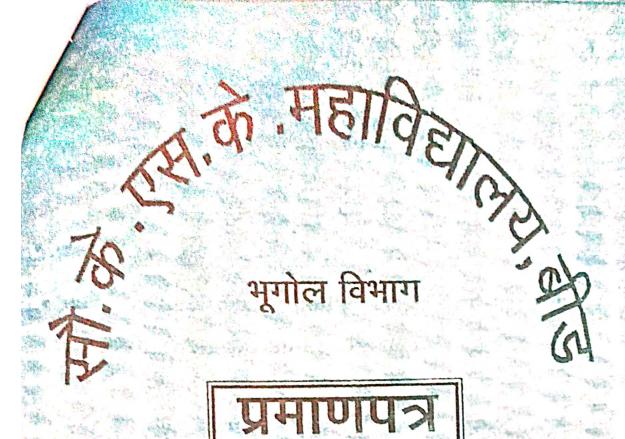
हा प्रकल्प अहवाल परीक्षक व मार्गदर्शकाच्या सहीने विसाधीठास सादुर करण्यात येत आहे.

करीता हे प्रमाणपत्र देण्यात यत आहे.

परीक्षक्रीयी स्वाक्षरी

संशोधक मार्गदर्शक लेफ्ट. पोटे बी.टी. विभाग प्रमुख पदवी व पदव्युत्तर भूगोल विभाग सों. के.एस.के. महाविद्यालय

बीड



प्रमाणित करण्यात यंते की, <u>पाठक शाम होरेत</u> परीक्षा कं. NBF 603251 बी. ए. तृतीय वर्ष (सत्र सहावे) भूगोल यांनी शैक्षणिक वर्ष 2022-2023 मध्ये किंद्धि जिल्हा प्रकृषी क्या या विषयावर माझ्या मार्गदर्शनाखाली वर्षभर यशस्वी कार्य करून अभ्यासपूर्ण प्रकल्पाचे लेखन विद्यापीठ मार्गदर्शक सुचनेनुसार केलेले

हा प्रकल्प अहवाल परीक्षक व मार्गदर्शकाच्या सहीने विद्यापीठास सादर करण्यात येत आहे. जि. करण्यात येत आहे.

करीता है प्रमाणपंत्र देण्यात येत आहे.

परीक्षकांची रेवाक्षरी

संशोधिके मार्गदर्शक लेपट. पोटे बी.टी. विभाग प्रमुख पदवी व पद युत्तर भूगेल किराग सो. के एस.के गृहाविद्यान्य

Project List for the Student 2022-23 B. Com III ad 48.

1 Toject Elia	1 101 tile Dittacili 7077-73	<u>,</u>
Sr. No. Name of Students		SE SE
AMTE SHUBAHAM LAXMAN		-
2 ASARAM AWAGIIAD DINKAR	stries	2/1/2
3 ATYALKAR SWARAJ RAJENDRA	Perceptible Analysis of Depository Services	100
4 BAGLANE SAGAR PARMESHWAR	Credit Analysis of Personal Loan	
5 BHUIBHAR SACHIN TUKARAM	Working Capital	1
6 CHOURE AISHWARYA MANOHAR	Employee Engagement Survey Of Equity Research	
7 DHAT HANUMAN SHIVAJI	Study Stress At Managerial Level of Credit Analysis	L
8 DHOTRE MADHURI BABAN	Training and Development	
9 DOIPHODE AISHWARYA BANDU	Study of Recruitment And Selection	
10 GADE ROHAN BABASAHEB	Causes of Attrition Amongst the Local and Outside Workers	
11 GHODKE ANITA UDDHAV	Training Need Identification	
12 GHODKE ASMITA ASARAM	Wage and Salary Administration & Management	
13 GHODKE VIKAS BIBHISHAN	Resume Management in Recruitment Process	
14 GHUMARE ADARSH GANGADHAR	Credit Analysis of Personal Loan	
15 GORE VARSHA SURESH	Working Capital	j.u.
16 JADHAV ABHISHEK BALASAHEB	Employee Engagement Survey Of Equity Research	100
17 JADHAV AMBIKA BABASAHEB	Study Stress At Managerial Level of Credit Analysis	
18 JADHAV KRUSHNA ASHRUBA	Training and Development	
19 JADHAV KRUSHNA DNYANOBA	Study of assessment methods of working capital requirement	
20 JADHAV PRIYANKA BHAGWAT	NPA and Recovery Process with respect to Small Scale Industries	
JAMDADE SIDDHESHWAR BHALISAHEB	Perceptible Analysis of Depository Services	
22 KADAM SANKET ASHOK	Credit Analysis of Personal Loan	
23 KARKE SHANKAR HARIBHAU	Working Capital	
	Name of Students  AMTE SHUBAHAM LAXMAN  ASARAM AWAGHAD DINKAR  ATYALKAR SWARAJ RAJENDRA  BAGLANE SAGAR PARMESHWAR  CHOURE AISHWARYA MANOHAR  DHOTRE MADHURI BABAN  DOIPHODE AISHWARYA BANDU  GADE ROHAN BABASAHEB  GHODKE ASMITA ASARAM  GHODKE ASMITA ASARAM  GHUMARE ADARSH GANGADHAR  GORE VARSHA SURESH  JADHAV AMBIKA BABASAHEB  JADHAV KRUSHNA ASHRUBA  JADHAV KRUSHNA DNYANOBA  JADHAV KRUSHNA DNYANOBA  JADHAV KRUSHNA DNYANOBA  JADHAV KRUSHNA DNYANOBA  JADHAV PRIYANKA BHAGWAT  TAMDADE SIDDHESHWAR  RHALISAHER  KARKE SHANKAR HARIBHAU	B AR AR

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48 I	47 1	46]	45]	44]	43	42	41	40	39	00	30			-35	34	ယ္သ	32	3   2	ا د	30	29	28	27	26	3 3	24
48 ROKADE SAKSHI MEGHARAJ	RAUT VAISHNAVI KEDAR	RAUT SURAJ ANIL	RAUT MANJU ANGAD	44 RATHOR PRAGTI AJAY	RAHADE SANJAY BHIMRAO	PAYAL SUMIT ANKUSH	PAWAR YASHRAJ MOHAN	40 PAWAR VISHAL SOPAN	PAWAR PRIYANKA PRADIP	PAWAR NIKHIL VASANT	FAWAR ANJALI ANAND	DAWAR AND SUBHASH	PATH ASHAY SUBJECT	PATHAN MOSINI MI DIIDVII ANI	PANDIT GANGA MAHADEV	NAGARKAR AKASH VISHNU			MODE		LANDGE ANIALI MATIADEN		KULKARNI MAYUR MADHUKAR	KHEMADE POONAM BABASAHEB		
Causes of Attrition Amongst the Local and Outside Workers		Study Stress At Managerial Level of Credit Analysis	Employee Engagement Survey Of Equity Research	Working Capital	Credit Analysis of Personal Loan	Perceptible Analysis of Depository Services	NPA and Recovery Process with respect to Small Scale Industries	Study of assessment methods of working capital requirement	Causes of Attrition Amongst the Local and Outside Workers	Study of Recruitment And Selection	Training and Development	Study Stress At Managerial Level of Credit Analysis	Employee Engagement Survey Of Equity Research	Сарині	Working Canital	Credit Analysis of Personal Loan	Perceptible Analysis of Depository Services	NPA and Recovery Process with respect to Small Scale Industries	NPA and Recovery Process with respect to Small Scale Industries	Study of assessment methods of working capital requirement	Causes of Attrition Amongst the Local and Outside Workers	Causes of Attrition And Selection	Policie:			Employee Engagement Survey Of Equity Research

TIDNYANESHWAR	BHAV	63 WAGHMARE RUTIKSHA POPAT Training and Development	62 VAIDYA MONIKA PANDURANG Study Stress	61 TODEKAR NARAYAN UTTAMRAO Employee Er	60 TEKALE DIVYA DATTATRAYA Working Capital	59 TEKALE AKASH RAMESH Credit Analysis of Personal Loan	58 SHIVNIKAR CHINMAYA PRAKASH Perceptible Analysis of Depositor	57 SHINDE NITIN CHANDRASEN  NPA and Recovery Process with	56 SHINDE ANKITA ANKUSH  Training and Development	55 SHENDGE SACHIN ANANTA Study Stress At Managerial Level	54 SHAIKH SHAHED MAINUDDIN Employee Engagement Survey O	53 SHAIKH AFROJ MAHEMUD Working Capital	52 SHAIKH SAMEER SAEED Credit Analysis of Personal Loan	51 SAYYAD ASHAPAK SAYYAD LAL Perceptible A	50 SAPKAL KARAN ARUN NPA and Rec	49 SANSARE SURAJ MAMTARAM Study of asses
	Study of Recruitment And Selection	opment	Study Stress At Managerial Level of Credit Analysis	Employee Engagement Survey Of Equity Research		Personal Loan	s of Depository Services	Process with respect to Small Scale Industries		nagerial Level of Credit Analysis	ent Survey Of Equity Research		57		NPA and Recovery Process with respect to Small Scale Industries	Study of assessment methods of working capital requirement

Dr.Sidharth S.Jadhav Head of Department Mrs.K.S.K.College, Beed.

Valle S. 4.

Ser. P.

# Mrs.K.S.K. College Beed Department of Commerce Certificate

2022-23

Students Name: DHAT HANUMAN SHIVAJI

Standard:- B.Com. III Year

Division:- A

Roll No.----

This is to certify that experiment / Project written in the index has been performed by the students satisfactory.

Date:- 15/03/2023

Grade: A

Principal Signature

Head of Dept.

Dr.Sidharth S.Jadhav

Head of Department

Mrs.K.S.K.College, Beed.

Beed 431122 College Stamp

# Mrs.K.S.K. College Beed Department of Commerce

## <u>Certificate</u>

2022-23

Students Name: <b>GH</b>	ODKE ASMITA	ASARAM
--------------------------	-------------	--------

Standard: - B.Com. III Year

Division:- A

Roll No.----

This is to certify that experiment / Project written in the index has been performed by the students satisfactory.

Date: - 15/03/2023

Grade: A

Principal Signature

Head of Deptidhay Dr. Sidila of Department Head of Department Mrs.K.S.K.College, Beek College Stamp

# Mrs.K.S.K. College Beed Department of Commerce

## **Certificate**

2022-23

Students Name: GORE VARSHA SURESH

Standard:- B.Com. III Year

Division:- A

Roll No.----

This is to certify that experiment / Project written in the index has been performed by the students satisfactory.

Date:- 15/03/2023

Grade: A

Principal Signature

Head of Dept. Dr.Sidharth S.Jadhav

Head of Department Mrs.K.S.K.College, Beed.

College Stamp

# Mrs.K.S.K. College Beed Department of Commerce <u>Certificate</u>

2022-23

Students Name: JAMDADE SIDDHESHWAR BHAUSAHEB

Standard:- B.Com. III Year

Division:- A

Roll No.----

This is to certify that experiment / Project written in the index has been performed by the students satisfactory.

Date:- 15/03/2023

Grade: A

Principal Signature

Hend of Dept Dr.Sidharth Spadhav Head of Department Mrs.K.S.K.College, Beed.

College Stamp

# Mrs.K.S.K. College Beed Department of Commerce <u>Certificate</u>

2022-23

Students Name: KATKAR ATUL SUDAM

Standard: - B.Com. III Year

Division:- A

Roll No.----

This is to certify that experiment / Project written in the index has been performed by the students satisfactory.

Date:- 15/03/2023

Grade: A

Principal Signature

Head of Dept. Dr.Sidharth S.Jadhav Head of Department Mrs.K.S.K.College, Beed. College Stamp

### Mrs.K.S.K. College Beed Department of Commerce

### **Certificate**

2022-23

Students Name: LANDGE ANJALI MAHADEV

Standard:- B.Com. III Year

Division:- A

Roll No.----

This is to certify that experiment / Project written in the index has been performed by the students satisfactory.

Date:- 15/03/2023

Grade: A

Principal Signature

Head of Dept.

Dr. Sidharth S. Jadhav

Head of Department

Mrs. K. S. K. College, Beed.

College Stamp

Teacher Signature

### Mrs.K.S.K. College Beed Department of Commerce

### <u>Certificate</u>

2022-23

Students Name: PAWAR YASHRAJ MOHAN

Standard: - B.Com. III Year

Division:- A

Roll No.----

This is to certify that experiment / Project written in the index has been performed by the students satisfactory.

Date:- 15/03/2023

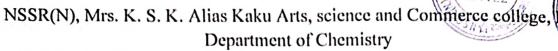
Grade: A

Principal Signature

Head of Dent Dr.Sidharth Saladhav Head of Department Mrs K.S.K.College, Beed.

College Stamp

Reacher Signature



### List of students completing project work for academic year 2022-23

Name of Programme: B/ Sc. III year

Sr. No.	Name of student	Project title
1.	SHINDE SUNIL HANUMAN	
2.	GARUD RAJANI SURESH	
3.	BORGE AKSHAY HANUMANT	
4.	MANE PRAVIN ARJUNRAO	
5.	GANDULE ANIKET ASHOK	To determine Vitamin-C in soft drinks of various brand
6.	UFADE VISHAL BAPU	
7.	JAWALE KAJAL POPAT	
8.	GHOLAP PAVAN SHAHADEO	
9.	JADHAV ISHIKA JANKIRAM	
10.	SAMGE MANOJ NAGESH	
11.	DHARWADKAR ANIKET MAHADEV	
12.	TODEKAR UMESH MAHADEV	
13.	GAIKWAD PRADNYA BHASKAR	To determine saponification values of various oils
14.	SHINDE PRASHANT ABHIMAN	
15.	GHODKE ARPITA RAGHUNATH	
16.	CHEPTE GANESH HANUMANT	
17.	TANGADE SHWETA SUNIL	
18.	JADHAV PRADNYA RAJENDRA	
19.	KHETRE VISHAL GOPINATH	
20.	SHINDE VAIBHAVI ASHRUBA	To determine hardness of borewell water
21.	BAHIR AISHWARYA VITTHAL	
22.	MUNDE VISHAKHA VILAS	
23.		
24.	TANDALE VISHAL SUDAM	
25.	CHAVAN PARMESHWAR SATISH	To determine moles and the control of the control o
26.	GHOLAP GANESH BHASKAR	To determine molar conductance of various metal salt compound
27.	GHADGE SHANTANU SURESH	—
21.	SHINDE DATTA BHIMRAO	

		\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\
28.	AVAD DINESH ANURATH	To determine molar conductance of various meral salt
29.	RAKTE SUSHANT SUBHASH	compound
30.	SARAK AKASH SOMESHWAR	

**Project supervisor** 

1. Dr. S. V. Gayakwad

2. Mr. D. B. Pawar

3. Mr. A. A. Chavan \_

+ W-M-13-3-1

4. Mr. G. A Deshmane Co

Head of Department

Department of Chemistry Mrs. K.S.K. College, Beed.

### **Department of Chemistry**

B.Sc. III Year Completing Project Work 2022-23

Project Supervisor Name:- Dr. S. V. Gayakwad

Project Title:- To determine molar conductance of various metal salt compound

### **Students Completion Attendance**

Sr. No.	Name of Student	Sign
1	Sarak Akash Someshwar	
2	Shinde Datta Bhimrao	
3	Gholap Ganesh Bhaskar	

Project Supervisor

Project Supervisor Name: - Mr. G. A. Deshmane

Project Title:- To determine hardness of borewell water

Head of Dept

Department of Chemistry Mrs. K.S.K. College, Beed.

### **Students Completion Attendance**

Sr. No.	Name of Student	Sign
1	Tandale Vishal Sudam	
2	Bahir Aishwarya Vitthal	
. 3	Khetre Vishal Gopinath	

Project supervisor

Project Supervisor Name: - Mr. D. B. Pawar

Head of Dept.

Department of Chemistry Mrs. K.S.K. College, Beed.

**Project Title:-** To determine saponification values of various oils

### **Students Completion Attendance**

Sr. No.	Name of Student	Sign
1	Samge Manoj Nagesh	
2	2 Gaikwad Pradnya Bhaskar	
3	Jadhav Ishika Jankiram	

Project Supervisor

Project Supervisor Name: - Mr. A. A. Chavan

Project Title:- To determine Vit-C in soft drinks of various brands

Head of Dept.

Department of Chemistry Mrs. K.S.K. College, Boed.

### **Students Completion Attendance**

Sr. No.	Name of Student	Sign
1	Gholap Pavan Shahadeo	
2	Garud Rajani Suresh	,
3	Shinde Sunil Hanuman	

reped Supervisor

Head of Dept.

Department of Chemistry

Mrs. Kesharbai Sonajirao Kshirsagar Alias Kaku Arts, Science and Commerce

College, Beed-431122

### Department of chemistry

### CERTIFICATE

This is to certify that Mr./Miss.

Sarak Alcash Someshwar of class B. Sc. III year subject Chemistry of Mrs. K. S. K. Alias Kaku Arts, science and commerce College, Beed. Has successfully completed project work on title to determine malar conductance of Various and submitted to Dr. Babasaheb Ambedkar Marathwada University, Aurangabad for partial fulfillment of B.Sc. degree for academic year 2022-23.

Hence certified

Project Supervisor

Head of Department

Department of Chemistry Mrs. K.S.K. College, Beed.

Mrs. Kesharbai Sonajirao Kshirsagar Alias Kaku Arts, Science and Commerce

College, Beed-431122

### Department of chemistry

### **CERTIFICATE**

This is to certify that Mr./Miss.

Shinde Data Bhimmo of class B. Sc. III year subject

Chemistry of Mrs. K. S. K. Alias Kaku Arts, science and commerce College, Beed. Has successfully completed project work on title to determine molar conductor and submitted to Dr. Babasaheb Ambedkar Marathwada University, Aurangabad for partial fulfillment of B.Sc. degree for academic year 2022-23.

Hence certified

Project Supervisor

Head of Department
Head

Department of Chemistry Mrs. K.S.K. College, Beed.

Mrs. Kesharbai Sonajirao Kshirsagar Alias Kaku Arts, Science and Commerce

College, Beed-431122

### Department of chemistry

### **CERTIFICATE**

This is to certify that Mr./Miss.

Gholop Granesh Bhaslay of class B. Sc. III year subject

Chemistry of Mrs. K. S. K. Alias Kaku Arts, science and commerce College, Beed. Has successfully completed project work on title to determine molar conductance of variety and submitted to Dr. Babasaheb Ambedkar Marathwada University, Aurangabad for partial fulfillment of B.Sc. degree for academic year 2022-23.

Hence certified

Project Supervisor

Head of Departmentsby Department College, Beed. Mrs. K.S.K. College, Beed.

Mrs. Kesharbai Sonajirao Kshirsagar Alias Kaku Arts, Science and Commerce College, Beed-431122

### Department of chemistry

### CERTIFICATE

This is to certify that Mr./Miss.

Londle Vishol Sudam of class B. Sc. III year subject Chemistry of Mrs. K. S. K. Alias Kaku Arts, science and commerce College, Beed. Has successfully completed project work on title to determine hardness of borough and submitted to Dr. Babasaheb Ambedkar Marathwada University, Aurangabad for partial fulfillment of B.Sc. degree for academic year 2022-23.

Hence certified

Project Supervisor

Head of Department

Head

Department of Chemistry

Was K.S.K. College, Beed.

Mrs. Kesharbai Sonajirao Kshirsagar Alias Kaku Arts, Science and Commerce College, Beed-431122

### Department of chemistry



### CERTIFICATE

This is			
Bohir Aishwanga Vitthe	certify	that	Mr./Miss.
Chemistry of Mrs. K. S. K. Alias Ka	iku Arts, science and con	B. So. III	year aubject
Completed	nual and		
title to determine hardness Ambedkar Marathwada University	1 1 1	work	on
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academic year 2022-23.	g and the partial lift	mient of B.S	So, degree for

Hence certified

Mrs. Kesharbai Sonajirao Kshirsagar Alias Kaku Arts, Science and Commerce College, Beed-431122

### Department of chemistry

### CERTIFICATE

This is to certify that Mr./Miss.

Chemistry of Mrs. K. S. K. Alias Kaku Arts, science and commerce College, Beed. Has successfully completed project work on title to determine hardness of boscue!

Ambedkar Marathwada University, Aurangabad for partial fulfillment of B.Sc. degree for academic year 2022-23.

Hence certified

Project Supervisor

Head of Department Head

Department of Chemistry Mrs. K.S.K. College, Beed.

Mrs. Kesharbai Sonajirao Kshirsagar Alias Kaku Arts, Science and Commerce

College, Beed-431122

### Department of chemistry

### **CERTIFICATE**

This	is	to	certify	th	at	Mr./Miss.
Samge Mar		7				year subject
Chemistry of Mrs	. K. S. K.	Alias Kaku	Arts, science ar	nd commerc	ce Colleg	ge, Beed. Has
successfully	comp	oleted	project		work	on
title to determ	nine sapo	nification	in values of	and subm	itted to 1	Dr. Babasaheb
Ambedkar Marath	wada Unive	rsity, Aura	ngabad for partia	i I fulfillmer	nt of B.S	Sc. degree for
academic year 202						-

Hence certified

Project Supervisor

Head of Department

Department of Chemistry Mrs. K.S.K. College, Beed.

431122

Mrs. Kesharbai Sonajirao Kshirsagar Alias Kaku Arts, Science and Commercial College, Beed-431122

### Department of chemistry

### Changes (Changes)

### **CERTIFICATE**

This	is	to	certify		tha				ir./M	
Daikwad	Pradnya	Bharko	of of	class	В.	Sc.	III	year	sub	ject
			Arts, science an							
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Ambedkar Mar	rathwada Unive	rsity, Aurar	ngabad for partie	il fulfill	lmen	t of	B.S	c. de	gree	for
academic year	2022-23.									

Hence certified

Project Supervisor

Head of Department by Department College, Beed. Mrs. K.S.K. College, Beed.

Mrs. Kesharbai Sonajirao Kshirsagar Alias Kaku Arts, Science and Commerce

College, Beed-431122

### Department of chemistry

### **CERTIFICATE**

This is to certify that Mr./Miss. Jadhar Ishika Jankisan \_\_\_\_of class B. Sc. III year subject Chemistry of Mrs. K. S. K. Alias Kaku Arts, science and commerce College, Beed. Has successfully completed project work title to determine saponification values of and submitted to Dr. Babasaheb Ambedkar Marathwada University, Aurangabad for partial fulfillment of B.Sc. degree for academic year 2022-23.

Hence certified

Project Supervisor

Head of Department

Department of Chemistry Mrs. K.S.K. College, Beed.

431122

Mrs. Kesharbai Sonajirao Kshirsagar Alias Kaku Arts, Science and Commerce College, Beed-431122

### Department of chemistry

### **CERTIFICATE**

This is to certify that Mr./Miss.

Chalap Pavan Shahadev of class B. Sc. III year subject

Chemistry of Mrs. K. S. K. Alias Kaku Arts, science and commerce College, Beed. Has successfully completed project work on title to determine Vit-C in Soft dinks of and submitted to Dr. Babasaheb Ambedkar Marathwada University, Aurangabad for partial fulfillment of B.Sc. degree for academic year 2022-23.

Hence certified

Project Supervisor

Head of Department

Department of Chemistry Mrs. K.S.K. College, Coed.

Mrs. Kesharbai Sonajirao Kshirsagar Alias Kaku Arts, Science and Commerce

College, Beed-431122

### Department of chemistry

### **CERTIFICATE**

Mr./Miss. that certify \_\_\_\_of class B. Sc. III year subject is This Rajani Suresh Chemistry of Mrs. K. S. K. Alias Kaku Arts, science and commerce College, Beed. Has project completed title to determine Vitcin soft drinks of and submitted to Dr. Babasaheb Ambedkar Marathwada University, Aurangabad for partial fulfillment of B.Sc. degree for academic year 2022-23.

Hence certified

Head of Departments Mrs. K.S.K. College, Beed.

Beed

Mrs. Kesharbai Sonajirao Kshirsagar Alias Kaku Arts, Science and Commerce College, Beed-431122

### Department of chemistry

### S. Coenic Ogo

### **CERTIFICATE**

This	is	to	certify		th	at		M	ir./Miss.
Shinde	Sunil	Hanuman	of	class	B.	Sc.	III	year	subject
		K. Alias Kaku	Arts, science ar	nd com	mer	ce C	olleg	ge, Be	ed. Has
successfully		completed	project			WO	rk		on
title to de	termine	Vit-c in sol	I daink ot	and s	subn	nitted	to :	Dr. Ba	ibasaheb
Ambedkar N	Marathwada J	University, Auran	gabad for partia	il fulfi	llme	nt of	f B.	Sc. de	gree for
academic yea									

Hence certified

Project Supervisor

Head of Department

Department of Chemistry Mrs. K.S.K. College, Beed.

### NSSR(N),

### Mrs. K. S. K. Alias Kaku Arts, science and Commerce college, Beed

### **Department of Physics**

List of students completing project work for academic year 2022-23

Name of Programme: B/ Sc. III year

Sr. No.	Name of student	Project title
- 1.		To Study Temperature Measuring Instruments (a) Mercury – in glass thermometer b) Temperature gun c) Platinum
	RAUT NIKITA ANURUDRA	resistance thermometer d) thermocouple
2.		To Study Temperature Measuring Instruments (a) Mercury
	SANAP SANDHYA SATISH	– in glass thermometer b) Temperature gun c) Platinum
3.	SANAT SANDHTA SATISH	resistance thermometer d) thermocouple
		To Study Temperature Measuring Instruments (a) Mercury
	SAWAI SUSHANT BALU	<ul> <li>in glass thermometer b) Temperature gun c) Platinum resistance thermometer d) thermocouple</li> </ul>
4.		To Study Temperature Measuring Instruments (a) Mercury
		- in glass thermometer b) Temperature gun c) Platinum
	KADAM SAKSHI RAJABHAU	resistance thermometer d) thermocouple
5.		To Study Temperature Measuring Instruments (a) Mercury
	SAPKAL DINESH MAHADEV	- in glass thermometer b) Temperature gun c) Platinum
6.	SAI KAL DINESH MAHADEV	resistance thermometer d) thermocouple
٠.		To Study Temperature Measuring Instruments (a) Mercury
	KHARSADE SARLA KALYAN	- in glass thermometer b) Temperature gun c) Platinum
- 7.	· ·	resistance thermometer d) thermocouple
		To Study Temperature Measuring Instruments (a) Mercury – in glass thermometer b) Temperature gun c) Platinum
	PAWAL VAISHALI SURESH	resistance thermometer d) thermocouple
8.		To Study Temperature Measuring Instruments (a) Mercury
		- In glass thermometer b) Temperature gun c) Platinum
	GHULE OMKAR GOVINDRAO	resistance thermometer d) thermocounte
9.		To Study Temperature Measuring Instruments (a) Mercury
	SAVVAD SA IED VA IVIVI	in glass thermometer b) Temperature gun c) Platinum
10.	SAYYAD SAJED KAIYYUM	resistance thermometer d) thermocouple
10.	PATEKAR KIRAN	To Study Temperature Measuring Instruments (a) Moreum
	NANDKISHOR	- in glass thermometer b) Temperature oun c) Platinum
11.		resistance thermometer d) thermocouple
		To Study Temperature Measuring Instruments (a) Mercury
	CHAVAN SAURAV RAJABHAU	- in glass thermometer b) Temperature gun c) Platinum resistance thermometer d) thermocouple
12.		To Study Temperature Measuring Land
		To Study Temperature Measuring Instruments (a) Mercury – in glass thermometer b) Temperature gun c) Platinum
	SAWAI VIVEK BALU	resistance thermometer d) thermocouple
13.		To Study Temperature Measuring Instruments (a) Measuring
	CHILLE WATCHE	- in glass thermometer b) Temperature gun c) Platinum
14	GHULE VAISHNAVI LAHU	resistance thermometer d) thermocouple
14.	VIIANINOMA	To Study Temperature Measuring Instruments (a) M
	KHAN NOMAAN KHAN NAYAB	- in glass thermometer b) Temperature out a) Distinue
	KHAN	resistance thermometer d) thermocouple

15.		Transition of the second
		10 Study Temperature Meganiant
	RAJPURE ARCHANA BANDU	
16.	THAY BANDO	
		10 Study Temperature Means ( )
	SHELKE NIKITA NITIN	
17.		
		To Study Temperature Measuring Instance
10	KOTULE SAGAR BALU	1 Section of which the little of the section of the
18.		
		10 Study Temperature Measuring 1
10	THOKAL SAKSHI SANTOSH	
19.		
	W	To Study Temperature Measuring Instruments (a) Mercury - in glass thermometer by Temperature
20	KATE AJAY RAYCHAND	
20.		
	DANKAR	To Study Temperature Measuring Instruments (a) Mercury
21.	BANKAR RUTUJA ANIL	- in glass thermometer b) Temperature gun c) Platinum resistance thermometer d) thermocouple
21.		To Study Temperature Measuring Land
	SVEDA SABAR SVE	1 2 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5
22.	SYEDA SADAF SYED SAMI	
22,		10 Study Temperature Measuring Instrument (1)
	PAWAR SHUDHANGE BUTT	" 6433 monnoller ni Temperatura aum at tit.
23.	PAWAR SHUBHANGI DILIP	1 resistance dictingingly Al thermosecu-1
		10 Study Temperature Measuring Instrum
	GHODKE HANUMAN DILIP	The state of the s
24.		istance thenholder at thermocourte
	DIVEKAR ABHISHEK	10 Study Temperature Measuring Instrument
	SHANTIRAM	1 Properties and an application of the contraction
25.		1 - 3 - 3 - 3 - 4 - 4 - 4 - 4 - 4 - 4 - 4
		10 Study Temperature Measuring Instrument
	SONWANE MAYUR BHASKAR	in grass mennometer by temperature our at black
26.	THE STATE OF BILASKAR	1 10515tance thermometer at thermocounts
		To Study Temperature Measuring Instruments (a) Mercury
	KADBANE DIVYA UDDHAV	" Bids thembolicted b) Temperature our of black
		resistance thermometer d) thermocouple

Project supervisor

Head of Department Head Dept. of Physics Mrs. K.S.K. College, Beed.

### Mrs. K. S. K. College, Beed 2022-2023



### **Department of Physics**

### List of Students for Project Work

Title of Project-To Study the Series and parallel Resonance in LCR Circuit

Sr. No.	N. C.	
	Name of Student	
1	Dhaygude Sonam Prakash	
2	Pathan Simran Jakir khan	
3	Kamble Shankar Lalasaheb	
4	Shinde Sunil Bibhishan	
5	Shinde Sushil Suresh	
6	Sanap Rushikesh Bhaskar	
7	Pangudawale Shashank Sanjay	
8	Pawar Amol Ramrao	
9	Chavan Sachin Dnyanoba	
10	Kale Abhishek Udhav	
11	Khude Pappu Murlidhar	

Quelity Assurance Coll Mrs. R.S.K. College, Bend, (M.C.



Beed 431122

MRS. KESHARBAI SONAJIRAO KSHIRSAGAR ALIAS KAKU ARTS, SCIENC的存储 COMMERCE COLLEGE, BEED-431122

## Department of Physics

### CERTIFICATE

This is to certify that Mr./Miss. GHULE OMKAR GOVINDRAO of class B. Sc. III year subject Physics of Mrs. K. S. K. Alias Kaku Arts, science and commerce College, Beed. Has successfully completed project work on title "To Study Temperature Measuring Instruments" and submitted to Dr. Babasaheb Ambedkar Marathwada University, Aurangabad for partial fulfillment of B.Sc. degree for academic year 2022-23. Hence certified.



**Project Supervisor** Dr. Pradnya Maheshmalkar



Head of Department
Dr. Shivanand Kshirsagar



MRS. KESHARBAI SONAJIRAO KSHIRSAGAR ALIAS KAKU ARTS, SCIENCE COMMERCE COLLEGE, BEED-431122

## Department of Physics

## CERTIFICATE

This is to certify that Mr./Miss. SAWAI VIVEK BALU of class B. Sc. III year subject Physics of Mrs. K. S. K. Alias Kaku Arts, science and commerce College, Beed. Has successfully completed project work on title "To Study Temperature Measuring Instruments" and submitted to Dr. Babasaheb Ambedkar Marathwada University, Aurangabad for partial fulfillment of B.Sc. degree for academic year 2022-23. Hence certified.



**Project Supervisor** Dr. Pradnya Maheshmalkar



Head of Department Dr. Shivanand Kshirsagar

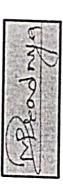


MRS. KESHARBAI SONAJIRAO KSHIRSAGAR ALIAS KAKU ARTS, SCIENCE COMMERCE COLLEGE, BEED-431122

# Department of Physics

## CERTIFICATE

S. K. Alias Kaku Arts, science and commerce College, Beed. Has successfully completed project work on This is to certify that Mr./Miss. BANKAR RUTUJA ANIL of class B. Sc. III year subject Physics of Mrs. K. title "To Study Temperature Measuring Instruments" and submitted to Dr. Babasaheb Ambedkar Marathwada University, Aurangabad for partial fulfillment of B.Sc. degree for academic year 2022-23. Hence certified.



**Project Supervisor** Dr. Pradnya Maheshmalkar



Head of Department
Dr. Shivanand Kshirsagar



Beed

MRS. KESHARBAI SONAJIRAO KSHIRSAGAR ALIAS KAKU ARTS, SCIEN COMMERCE COLLEGE, BEED-431122

## Department of Physics

## CERTIFICATE

This is to certify that Mr./Miss. SHELKE NIKITA NITIN of class B. Sc. III year subject Physics of Mrs. K.

S. K. Alias Kaku Arts, science and commerce College, Beed. Has successfully completed project work on title "To Study Temperature Measuring Instruments" and submitted to Dr. Babasaheb Ambedkar

Marathwada University, Aurangabad for partial fulfillment of B.Sc. degree for academic year 2022-23.

Hence certified.



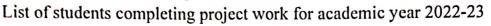
Project Supervisor
Dr. Pradnya Maheshmalkar



Head of Department

Dr. Shivanand Kshirsagar

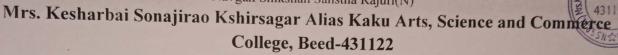
### NSSR(N), Mrs. K. S. K. Alias Kaku Arts, science and Commerce college, Beel 431122 Department of Botany



Name of Programme: B/ Sc. III year

Sr. No.	Name of student	Project title	
1.	PARVE SAMYEK SANJAY	Family solanaceae Taxonomy & modern trends	
2.	PANDULE NIKITA ASHOK		
3.	BHOSKAR YOGESH SHREERAM		
4.	BHOSKAR VAIBHAV KAKASAHEB		
5.	MORE SAURAV VASUDEO		
6.	MORE HARSHAL VASUDEO		
7.	KORDE KAJAL KAILAS		
8.	KADAM AMIT RAJABHAU	Papaya Plantation and its economic importance	
9.	ANPAT VISHVAJIT BHASKAR	1	
10.	SHINDE MEENA NAMDEV		
11.	TAKALE OMKAR HANUMAN		
12.	SIRSAT ROHIT VILAS	Genetic improvement in okra Abelmoscus esculentus (L) by mutation breeding	
13.	JADHAV AVINASH BANDU		
14.	REDE VAIBHAV RADHAKISAN		
15.	JADHAV SHIVAM SHRIKRISHNA		
16.	LONDHE ARHIT BALASAHEB		
17.	AKHADE NIKHIL VISHNU		
18.	KHUTALE ASHWINI LAXMAN	Alovevora and its health benifits	
19.	RAUT ABHIMANYU BHIMRAO		
20.	KHETRE SURAJ PRAKASH		
21.	MEHETRE SWAPNIL BANDU	Sewage water treatment	
22.	KOLHE AVINASH MAHADEV		
23.	KORDE SURAJ SUNIL		
24.	LATE AJIT PARMESHWAR		
25.	SHINDE PRIYANKA HARIBHAU		
26.	DEVKATE RAJABHAU KESHAV		

Project supervisor



Department of Botany

### CERTIFICATE

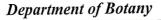
This is to certify that Mr./Miss. TAKALE OMKAR HANUMAN of class B. Sc. III year subject Botany of Mrs. K. S. K. Alias Kaku Arts, science and commerce College, Beed. Has successfully completed project work on title Genetic improvement in okra Abelmoscus esculentus (L) by mutation breeding and submitted to Dr. Babasaheb Ambedkar Marathwada University, Aurangabad for partial fulfillment of B.Sc. degree for academic year 2022-23.

Hence certified.

SkoldAl Project Supervisor

Hoad of her at Burnhy, Mrs.K.S.K. College, Beed.

### Mrs. Kesharbai Sonajirao Kshirsagar Alias Kaku Arts, Science and Commercial College, Beed-431122



### **CERTIFICATE**

This is to certify that Mr./Miss. SIRSAT ROHIT VILAS of class B. Sc. III year subject Botany of Mrs. K. S. K. Alias Kaku Arts, science and commerce College, Beed. Has successfully completed project work on title Genetic improvement in okra Abelmoscus esculentus (L) by mutation breeding and submitted to Dr. Babasaheb Ambedkar Marathwada University, Aurangabad for partial fulfillment of B.Sc. degree for academic year 2022-23.

Hence certified.

### Mrs. Kesharbai Sonajirao Kshirsagar Alias Kaku Arts, Science and Commerce 433 College, Beed-431122

Department of Botany

### **CERTIFICATE**

This is to certify that Mr./Miss. SHINDE PRIYANKA HARIBHAU of class B. Sc. III year subject Botany of Mrs. K. S. K. Alias Kaku Arts, science and commerce College, Beed. Has successfully completed project work on title Sewage water treatment and submitted to Dr. Babasaheb Ambedkar Marathwada University, Aurangabad for partial fulfillment of B.Sc. degree for academic year 2022-23.

Hence certified.

Mrs.K.S.K. College, Beed.

### Mrs. Kesharbai Sonajirao Kshirsagar Alias Kaku Arts, Science and Comme College, Beed-431122

Beed Beed Company Ct 31122

Department of Botany

### **CERTIFICATE**

This is to certify that Mr./Miss. SHINDE MEENA NAMDEV of class B. Sc. III year subject Botany of Mrs. K. S. K. Alias Kaku Arts, science and commerce College, Beed. Has successfully completed project work on title Papaya Plantation and its economic importance and submitted to Dr. Babasaheb Ambedkar Marathwada University, Aurangabad for partial fulfillment of B.Sc. degree for academic year 2022-23.

Hence certified.

Project Supervisor

### Mrs. Kesharbai Sonajirao Kshirsagar Alias Kaku Arts, Science and Commerce College, Beed-431122



Department of Botany

### CERTIFICATE

This is to certify that Mr./Miss. REDE VAIBHAV RADHAKISAN of class B. Sc. III year subject Botany of Mrs. K. S. K. Alias Kaku Arts, science and commerce College, Beed. Has successfully completed project work on title Genetic improvement in okra Abelmoscus esculentus (L) by mutation breeding and submitted to Dr. Babasaheb Ambedkar Marathwada University, Aurangabad for partial fulfillment of B.Sc. degree for academic year 2022-23.

Hence certified.

Project Supervisor

Head of Denaitment Mrs.K.S.K. College, Beed.

### Mrs. Kesharbai Sonajirao Kshirsagar Alias Kaku Arts, Science and Commerce College, Beed-431122



Department of Botany

### **CERTIFICATE**

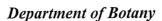
This is to certify that Mr./Miss. RAUT ABHIMANYU BHIMRAO of class B. Sc. III year subject Botany of Mrs. K. S. K. Alias Kaku Arts, science and commerce College, Beed. Has successfully completed project work on title Alovevora and its health benifits and submitted to Dr. Babasaheb Ambedkar Marathwada University, Aurangabad for partial fulfillment of B.Sc. degree for academic year 2022-23.

Hence certified.

Project Supervisor

Headeof Department Mrs.K.S.K. College, Beed.

### Mrs. Kesharbai Sonajirao Kshirsagar Alias Kaku Arts, Science and Commerce College, Beed-431122



### **CERTIFICATE**

This is to certify that Mr./Miss. PARVE SAMYEK SANJAY of class B. Sc. III year subject Botany of Mrs. K. S. K. Alias Kaku Arts, science and commerce College, Beed. Has successfully completed project work on title Family solanaceae Taxonomy & modern trends and submitted to Dr. Babasaheb Ambedkar Marathwada University, Aurangabad for partial fulfillment of B.Sc. degree for academic year 2022-23.

Hence certified.

Project Supervisor

### Mrs. Kesharbai Sonajirao Kshirsagar Alias Kaku Arts, Science and Commerce College, Beed-431122



Department of Botany

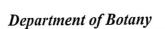
### **CERTIFICATE**

This is to certify that Mr./Miss. PANDULE NIKITA ASHOK of class B. Sc. III year subject Botany of Mrs. K. S. K. Alias Kaku Arts, science and commerce College, Beed. Has successfully completed project work on title Family solanaceae Taxonomy & modern trends and submitted to Dr. Babasaheb Ambedkar Marathwada University, Aurangabad for partial fulfillment of B.Sc. degree for academic year 2022-23.

Hence certified.

Project Supervisor

### Mrs. Kesharbai Sonajirao Kshirsagar Alias Kaku Arts, Science and Commerce College, Beed-431122



### **CERTIFICATE**

This is to certify that Mr./Miss. MORE SAURAV VASUDEO of class B. Sc. III year subject Botany of Mrs. K. S. K. Alias Kaku Arts, science and commerce College, Beed. Has successfully completed project work on title Family solanaceae Taxonomy & modern trends and submitted to Dr. Babasaheb Ambedkar Marathwada University, Aurangabad for partial fulfillment of B.Sc. degree for academic year 2022-23.

Hence certified.

Project Supervisor

### Mrs. Kesharbai Sonajirao Kshirsagar Alias Kaku Arts, Science and Commerce College, Beed-431122

Department of Botany

### **CERTIFICATE**

This is to certify that Mr./Miss. MORE HARSHAL VASUDEO of class B. Sc. III year subject Botany of Mrs. K. S. K. Alias Kaku Arts, science and commerce College, Beed. Has successfully completed project work on title Papaya Plantation and its economic importance and submitted to Dr. Babasaheb Ambedkar Marathwada University, Aurangabad for partial fulfillment of B.Sc. degree for academic year 2022-23.

Hence certified.

Project Supervisor

### Mrs. Kesharbai Sonajirao Kshirsagar Alias Kaku Arts, Science and Commerce College, Beed-431122

Department of Botany

### CERTIFICATE

This is to certify that Mr./Miss. MEHETRE SWAPNIL BANDU of class B. Sc. III year subject Botany of Mrs. K. S. K. Alias Kaku Arts, science and commerce College, Beed. Has successfully completed project work on title Sewage water treatment and submitted to Dr. Babasaheb Ambedkar Marathwada University, Aurangabad for partial fulfillment of B.Sc. degree for academic year 2022-23.

Hence certified.

Project Supervisor

### Mrs. Kesharbai Sonajirao Kshirsagar Alias Kaku Arts, Science and Commerce College, Beed-431122

Department of Botany

#### **CERTIFICATE**

This is to certify that Mr./Miss. LONDHE ARHIT BALASAHEB of class B. Sc. III year subject Botany of Mrs. K. S. K. Alias Kaku Arts, science and commerce College, Beed. Has successfully completed project work on title Alovevora and its health benifits and submitted to Dr. Babasaheb Ambedkar Marathwada University, Aurangabad for partial fulfillment of B.Sc. degree for academic year 2022-23.

Hence certified.

Project Supervisor

Head of Department Department of Botany, Mrs.K.S.K. College, Beed.

#### Mrs. Kesharbai Sonajirao Kshirsagar Alias Kaku Arts, Science and Commerce College, Beed-431122

Department of Botany

#### **CERTIFICATE**

This is to certify that Mr./Miss. LATE AJIT PARMESHWAR of class B. Sc. III year subject Botany of Mrs. K. S. K. Alias Kaku Arts, science and commerce College, Beed. Has successfully completed project work on title Sewage water treatment and submitted to Dr. Babasaheb Ambedkar Marathwada University, Aurangabad for partial fulfillment of B.Sc. degree for academic year 2022-23.

Hence certified.

Project Supervisor

Head
Head
Head
Mrs.K.S.K. College, Beed

### Mrs. Kesharbai Sonajirao Kshirsagar Alias Kaku Arts, Science and Commerce College, Beed-431122



Department of Botany

#### **CERTIFICATE**

This is to certify that Mr./Miss. KORDE SURAJ SUNIL of class B. Sc. III year subject Botany of Mrs. K. S. K. Alias Kaku Arts, science and commerce College, Beed. Has successfully completed project work on title Sewage water treatment and submitted to Dr. Babasaheb Ambedkar Marathwada University, Aurangabad for partial fulfillment of B.Sc. degree for academic year 2022-23.

Hence certified.

Project-Supervisor

Icad of Dehaltshent Department of Botany, Mrs.K.S.K. College,Beed.

### MRS.KSK. ALIAS KAKU COLLEGE, BEED

Department of Botany Project List 2022-2023



Sr. No.	Name of the Students	Topic Title	
01	Amte Akshay Sudam	Micropropagation, Callus Induction and Regeneration of Ginger.	Part.
02	Bangar Kiran Sampatrao	Importance and scope of fruit and vegetables preservation in India.	Egal.
03	Bansode Rohit Rajabhau	Diseases of cotton and their management	3
04	Batule Ashwini Balu	Cultivation and study of Growth of oyster Mushroom on Different Agricultural waste substrate and its Nutrient Analysis.	+
05	Dake Prashant Dilip	Medicine Plant of Aloe Vora	
06	Pawer Pravinkumar Pralhad	Comparative study between fungal species from air and soil of Sugarcane plant.	
07	Shirsat Surajkumar Jaysing	Review of isolation of Biopolymer, Bacteria and their Application.	
08	Pathan Arbaaz Salamat	Soil Sampling and testing.	
09	Radha Satish Langade	Studies on Genus Alternaria.	
10	Shaikh Zuber Azeem	Studies on Nitrogen Fixing Azotobacter Spp. in	
11	Dolas Akanksha Mahadeo	Studies on Effect of Plant Growth regulatore and micronutrient on Okra.	
12	Hulge Abhay Kisanrao	Importance of Medicinal plant and their Benefits.	
13	Raka Siddhi Satish	Studies on Genus Alternaria	
14	Mehtre Vivek Sanjay	Post Harvest Technology	
15	Gaikwad Prashant Fulchand	Multipurpose Sprayer	
16	Jadhav Hanuman Vaijinath	Genetic Improvement of Chickpea by Mutation Breeding	
17	Kale Kunal Kisanrao	Canned Mushroom	
18	Kute Priyanka Ashok	Diseases of Field Crops and their management	
19	Wagh Neha Goutam	Medicine Plant of Ginger	
20	Tandale Pratiksha Bhagwat	Different Varieties of Grapes.	-

Lecturer

1

Internal Quality resurance Cell Mrs. K.S.K. Cources, Learly (M.S.)

### Mrs. Kesharbai Sonajirao Kshirsagar Alias Kaku Arts, Science and Commerce College, Beed-431122

Department of Botany

#### **CERTIFICATE**

This is to certify that Mr./Miss. KORDE KAJAL KAILAS of class B. Sc. III year subject Botany of Mrs. K. S. K. Alias Kaku Arts, science and commerce College, Beed. Has successfully completed project work on title Papaya Plantation and its economic importance and submitted to Dr. Babasaheb Ambedkar Marathwada University, Aurangabad for partial fulfillment of B.Sc. degree for academic year 2022-23.

Hence certified.

Project Supervisor

Head of Department Department of Botany, Mrs.K.S.K. College, Beed.

#### Mrs. Kesharbai Sonajirao Kshirsagar Alias Kaku Arts, Science and Commerce College, Beed-431122

Department of Botany

#### **CERTIFICATE**

This is to certify that Mr./Miss. KOLHE AVINASH MAHADEV of class B. Sc. III year subject Botany of Mrs. K. S. K. Alias Kaku Arts, science and commerce College, Beed. Has successfully completed project work on title Sewage water treatment and submitted to Dr. Babasaheb Ambedkar Marathwada University, Aurangabad for partial fulfillment of B.Sc. degree for academic year 2022-23.

Hence certified.

Project Supervisor

Head of Department ny, Mrs.K.S.K. College, Beed.

### Mrs. Kesharbai Sonajirao Kshirsagar Alias Kaku Arts, Science and Commerce College, Beed-431122

Department of Botany

#### **CERTIFICATE**

This is to certify that Mr./Miss. KHUTALE ASHWINI LAXMAN of class B. Sc. III year subject Botany of Mrs. K. S. K. Alias Kaku Arts, science and commerce College, Beed. Has successfully completed project work on title Alovevora and its health benifits and submitted to Dr. Babasaheb Ambedkar Marathwada University, Aurangabad for partial fulfillment of B.Sc. degree for academic year 2022-23.

Hence certified.

Project Supervisor

Hosbat Department, Mrs.K.S.K. College, Beed.

### Mrs. Kesharbai Sonajirao Kshirsagar Alias Kaku Arts, Science and Commerce College, Beed-431122

Department of Botany

#### **CERTIFICATE**

This is to certify that Mr./Miss. KHETRE SURAJ PRAKASH of class B. Sc. III year subject Botany of Mrs. K. S. K. Alias Kaku Arts, science and commerce College, Beed. Has successfully completed project work on title Alovevora and its health benifits and submitted to Dr. Babasaheb Ambedkar Marathwada University, Aurangabad for partial fulfillment of B.Sc. degree for academic year 2022-23.

Hence certified.

Project Supervisor

Head of Department ny, Mrs.K.S.K. College, Beed. Navgan Shikshan Sanstha Rajuri(N)
Mrs. Kesharbai Sonajirao Kshirsagar Alias Kaku Arts, Science and Commerce
College, Beed-431122

Department of Botany

#### **CERTIFICATE**

This is to certify that Mr./Miss. KADAM AMIT RAJABHAU of class B. Sc. III year subject Botany of Mrs. K. S. K. Alias Kaku Arts, science and commerce College, Beed. Has successfully completed project work on title Papaya Plantation and its economic importance and submitted to Dr. Babasaheb Ambedkar Marathwada University, Aurangabad for partial fulfillment of B.Sc. degree for academic year 2022-23.

Hence certified.

Project Supervisor

Head of Department ny, Mrs. K.S.K. College, Beed.

### Mrs. Kesharbai Sonajirao Kshirsagar Alias Kaku Arts, Science and Commerce College, Beed-431122

Department of Botany

#### **CERTIFICATE**

This is to certify that Mr./Miss. JADHAV SHIVAM SHRIKRISHNA of class B. Sc. III year subject Botany of Mrs. K. S. K. Alias Kaku Arts, science and commerce College, Beed. Has successfully completed project work on title Genetic improvement in okra Abelmoscus esculentus (L) by mutation breeding and submitted to Dr. Babasaheb Ambedkar Marathwada University, Aurangabad for partial fulfillment of B.Sc. degree for academic year 2022-23.

Hence certified.

Project Supervisor

Tend of Department Department of Botany, Mrs.K.S.K. College,Beed.

### Mrs. Kesharbai Sonajirao Kshirsagar Alias Kaku Arts, Science and Commerce College, Beed-431122

Department of Botany

#### **CERTIFICATE**

This is to certify that Mr./Miss. JADHAV AVINASH BANDU of class B. Sc. III year subject Botany of Mrs. K. S. K. Alias Kaku Arts, science and commerce College, Beed. Has successfully completed project work on title Genetic improvement in okra Abelmoscus esculentus (L) by mutation breeding and submitted to Dr. Babasaheb Ambedkar Marathwada University, Aurangabad for partial fulfillment of B.Sc. degree for academic year 2022-23.

Hence certified.

Project Supervisor

Head of Department Department of Botany, Mrş.K.S.K. College,Beed.

### Mrs. Kesharbai Sonajirao Kshirsagar Alias Kaku Arts, Science and Commerce College, Beed-431122

Department of Botany

#### **CERTIFICATE**

This is to certify that Mr./Miss. **DEVKATE RAJABHAU KESHAV** of class B. Sc. III year subject Botany of Mrs. K. S. K. Alias Kaku Arts, science and commerce College, Beed. Has successfully completed project work on title **Sewage water treatment** and submitted to Dr. Babasaheb Ambedkar Marathwada University, Aurangabad for partial fulfillment of B.Sc. degree for academic year 2022-23.

Hence certified.

Project Supervisor

Hoedarf Departmenty, Mrs.K.S.K. College, Beed.

## Navgan Shikshan Sanstha Rajuri(N) Mrs. Kesharbai Sonajirao Kshirsagar Alias Kaku Arts, Science and Commerce College, Beed-431122

Department of Botany

#### **CERTIFICATE**

This is to certify that Mr./Miss. BHOSKAR YOGESH SHREERAM of class B. Sc. III year subject Botany of Mrs. K. S. K. Alias Kaku Arts, science and commerce College, Beed. Has successfully completed project work on title Family solanaceae Taxonomy & modern trends and submitted to Dr. Babasaheb Ambedkar Marathwada University, Aurangabad for partial fulfillment of B.Sc. degree for academic year 2022-23.

Hence certified.

Project Supervisor

Head of Defailment Department of Botany, Mrs.K.S.K. College, Beed.

### Mrs. Kesharbai Sonajirao Kshirsagar Alias Kaku Arts, Science and Commerce College, Beed-431122

Department of Botany

#### **CERTIFICATE**

This is to certify that Mr./Miss. BHOSKAR VAIBHAV KAKASAHEB of class B. Sc. III year subject Botany of Mrs. K. S. K. Alias Kaku Arts, science and commerce College, Beed. Has successfully completed project work on title Family solanaceae Taxonomy & modern trends and submitted to Dr. Babasaheb Ambedkar Marathwada University, Aurangabad for partial fulfillment of B.Sc. degree for academic year 2022-23.

Hence certified.

Tead of Department Department of Botany, Mrs.K.S.K. College, Beed

# Navgan Shikshan Sanstha Rajuri(N) Mrs. Kesharbai Sonajirao Kshirsagar Alias Kaku Arts, Science and Commerce College, Beed-431122

Department of Botany

### **CERTIFICATE**

This is to certify that Mr./Miss. ANPAT VISHVAJIT BHASKAR of class B. Sc. III year subject Botany of Mrs. K. S. K. Alias Kaku Arts, science and commerce College, Beed. Has successfully completed project work on title Papaya Plantation and its economic importance and submitted to Dr. Babasaheb Ambedkar Marathwada University, Aurangabad for partial fulfillment of B.Sc. degree for academic year 2022-23.

Hence certified.

Project Supervisor

Head of Department Mrs. K.S.K. College, Beed.

### Mrs. Kesharbai Sonajirao Kshirsagar Alias Kaku Arts, Science and Commerce College, Beed-431122

Department of Botany

#### CERTIFICATE

This is to certify that Mr./Miss. AKHADE NIKHIL VISHNU of class B. Sc. III year subject Botany of Mrs. K. S. K. Alias Kaku Arts, science and commerce College, Beed. Has successfully completed project work on title Alovevora and its health benifits and submitted to Dr. Babasaheb Ambedkar Marathwada University, Aurangabad for partial fulfillment of B.Sc. degree for academic year 2022-23.

Hence certified.

Project Supervisor

Head of Department

### NSSR (N), Mrs. K.S.K. Alias Kaku Arts, Science and Commerce College, Beed Department of Computer Science

List of students completing project for academic year 2022-23 Name of Programme B.Sc. III<sup>st</sup> Year

hr, he	Name Of Student	Project Title	
1	COUNTRIES PARAS RAJESTILAL	OUICK FOOD	
2	TALLY DELY A PER ATRACT	And the state of t	
3	FEED PENTS PORTER SATISFI	TRANSFER CERTIFICATE	
4	DEDRAI SHARHAM SHIVAR		
4	MINDE VAIGHT AND	BAL ABHILASHA	
¥1	PATTE GANTSH KATEAS	BAL ABRILLANIA	
7	NYSHI SHRADOHA SUDHIR	CUFFEE SHOP	
*	NANGARI SHITAL SARRERAO		
10	ANADAL PRITISI RESH	E-LEARNING SITE	
10	JUSHI GAURAN KALIDAS	L. L	
11	ALE KARNENWARANIALI SANJAY	MUSIC WEBSITE	
12	NHINDE PRIVANKA BHARAT	Wester Williams	
13	PROTECT AND AND A LAGINATAL MICHAEL PROTECTION OF THE PROTECTION O	HOSPITAL MANAGEMENT	
14	DANGE SAURABIEV ASI DEV	E-LEARNING SITE	
15	AVILE SAKSHEMITTHE	L-ELEXIVATE STATE	
te.	GHATE AJAY BAPPASAHEB	HOTEL MANAGEMENT	
17	GITE MAHESH BABASAHEB	The state of the s	
18	LONDIN KIRAN SAY AJI	BLOOD BANK REPORT	
151	MULUK MANSI DASHRATH		
20	RALT ARVIND ASHUK	LIBRARY MANAGEMENT SYSTEM	
21	SHEMBDE DNY ANESHWAR SHIVAJI		
23	TODEKAR UMESH MAHADEV	E-AUTHENTICATION SYSTEM	
23	ANERAO SUBHASH ANIL		
24	THORAL AKASH JALINDAR	FACE DETECTION	
25	BANKAR VIPCL BHIMRAO		
30	GAIKW AD PRAVIN TUKARAM	RESTAURANT BOOKING WEBSITE	
27	RADE ABHUIT ASARAM	RESTAURANT BOOKING WEDSITE	
25	THOMBARE RUSHIKESH MURLIDHR	SYMBOL RECOGNITION	
30	JADHAV ADITY A ASHOK		
30	GANWADKAR PAYAL BALASAHEB	BUS MANAGEMENT SYSTEM	
31	NATKAR NEHA VALJINATH		
32	GHOGARE ROHIT BHAGWAN	ELECTRICITY BILL MANAGEMENT SYSTEM	
33	AOUSARMAL SOURABHA AMBADAS		

Project Supervisor

thGaware SR

Moad of Department
Container Licence
Open N. M. Coffege, Beer

Reed



### MRS. KESHARABAI SONAJIRAO KSHIRSAGAR ALIS KAKU ARTS, SCIENCE & COMMERCS COLLEGE, BEED.

#### CERTIFICATE

Certified that This Report Submitted
GHATE AJAY BAPPASAHEB
GITE MAHESH BABASAHEB

The student of the course of Bachelor in Computer Science (B.Sc.) as a part of practical work as prescribed by Dr. Babasaheb Ambedkar Marathwada University, Aurangabad. For the subject Major Project, for Major Project titled HOTEL MANAGEMENT we have guided him for the said work, assessed the same & we satisfied that it is up to the standards envisaged for the level of course. The said work may be presented for the partial fulfillment of the project work as prescribed by the Dr. BAMU, Aurangabad.

Place: K.S.K. College, Beed.

PRN no: 2020015200346346

2020015200590854

Date:

Dr. Shaikh A.R.

(Guide, Project Coordinator &



### MRS. KESHARABAI SONAJIRAO KSHIRSAGAR ALIS KAKU ARTS, SCIENCE & COMMERCS COLLEGE, BEED.

#### CERTIFICATE

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Place: K.S.K. College, Beed.

PRN no: 2020015200346346

2020015200590854

Date:

Dr. Shaikh A.R.

(Guide, Project Coordinator &



### MRS. KESHARABAI SONAJIRAO KSHIRSAGAR ALIS KAKU ARTS, SCIENCE & COMMERCS COLLEGE, BEED.

### CERTIFICATE

Certified that This Report Submitted
LONDHE KIRAN SAYAJI
MULUK MANSI DASHRATH

The student of the course of Bachelor in Computer Science (B.Sc.) as a part of practical work as prescribed by Dr. Babasaheb Ambedkar Marathwada University, Aurangabad. For the subject Major Project, for Major Project titled BLOOD BANK REPORT we have guided him for the said work, assessed the same & we satisfied that it is up to the standards envisaged for the level of course. The said work may be presented for the partial fulfillment of the project work as prescribed by the Dr. BAMU, Aurangabad.

Place: K.S.K. College, Beed.

PRN no: 2019015200373941

2018015200480442

Date:

Dr. Shaikh A.R.

(Guide, Project Coordinator &

### MRS. KESHARABAI SONAJIRAO KSHIRSAGAR ALIS KAKU ARTS, SCIENCE & COMMERCS COLLEGE, BEED.

### CERTIFICATE

Certified that This Report Submitted by

- 1. Miss. Kulkarni swranjali Sanjay
  - 2. Miss. Shinde Priyanka Bharat

The student of the course of Bachelor in Computer Science (B.Sc.) as a part of practical work as prescribed by Dr. Babasaheb Ambedkar Marathwada University, Aurangabad. For the subject Major Project, for Major Project titled Music Website. We have guided him for the said work, assessed the same & we satisfied that it is up to the standards envisaged for the level of course. The said work may be presented for the partial fulfillment of the project work as prescribed by the Dr. BAMU, Aurangabad.

Place: K.S.K. College, Beed.

Exam No.: PRN :- 202001520035505)

202001520748714

Date: 15/3/2023

Dr. Shaikh A.R.

(Guide, Project Coordinator & H.O.D.)

300

### **CERTIFICATE**



### Certified that This report Submitted By

### MR. KÜLKARNI MANDAR SURESHRAO

#### MR. SHINDE MOHIT GAJANAN

This students of the courses of Master in Computer Science (M.Sc) as a part of practical work asprescribed by Dr. Babasaheb Ambedkar Marathwada University. For the subject Major Subject Titled Creating

We have guided him for said work, assessed the same & we satisfied that it is up to the standards envisaged for the level of course. The said work may be presented for the partial fulfillment of the project work as prescribed by the DR BAMU. Aurangabad.

:- Kulkarni Mandar Sureshrao

PRN NO :- 2018015200303344

:- Shinde Mohit Gajanan

PRN NO :- 2018015200534205

Place :- K.S.K. College.Beed

Date :- 10 / 05 / 2023

Dr. Shaikh A.R.

### MRS. KESHARABAI SONAJIRAO KSHIRSAGAR ALI KAKU ARTS, SCIENCE & COMMERCS COLLEGE, BEED.

### CERTIFICATE

Certifical that I has Report Subscribed by

Miss. Khadke Priti

Mr. Joshi Gauray

The student of the course of Bachelor in Computer Science (B.Sc.) as a part of practical work as prescribed by Dr. Babasaheb Ambedkar Marathwada University, Aurangabad. For the subject Major Project, for Major Project titled E-Learning Site. We have guided him for the said work, assessed the same & we satisfied that it is up to the standards envisaged for the level of course. The said work may be presented for the partial fulfillment of the project work as prescribed by the Dr. BAMU, Aurangabad.

Place: K.S.K. College, Beed.

PRN No.: 2020015200355256

2019015200397974

Date: /5/2/23

Dr. Shaikh A.R.

### MRS. KESHARABAI SONAJIRAO KSHIRSAGAR ALIS KAKU ARTS, SCIENCE & COMMERCS COLLEGE, BEED.

### CERTIFICATE

Certified that This Report Submitted by

Miss. Khadke Prifi

Mr. Joshi Camery

The student of the course of Bachelor in Computer Science (B.Sc.) as a part of practical work as prescribed by Dr. Babasaheb Ambedkar Marathwada University, Aurangabad. For the subject Major Project, for Major Project titled E-Learning Site. We have guided him for the said work, assessed the same & we satisfied that it is up to the standards envisaged for the level of course. The said work may be presented for the partial fulfillment of the project work as prescribed by the Dr. BAMU, Aurangabad.

Place: K.S.K. College, Beed.

PRN No.: 2020015200355256

2019015200397974

Date: 15/3/23

Dr. Shaikh A.R.

### MRS. KESHARABAI SONAJIRAO KSHIRSAGAR AEIS KAKU ARTS, SCIENCE & COMMERCS COLLEGE, BEED.

### CERTIFICATE

Certified that This Report Submitted by

Mr. Dange Saurabh

Miss. Phulzalke Akshta

The student of the course of Bachelor in Computer Science (B.Sc.) as a part of practical work as prescribed by Dr. Babasaheb Ambedkar Ma.

University, Aurangabad. For the subject Major Project, for Mana and MEDICARE We have guided him for the said work, assessed the same and work satisfied that it is up to the standards envisaged for the level of course. The said work may be presented for the partial fulfillment of the project work as prescribed by the Dr. BAMU, Aurangabad.

Place: K.S.K. College, Beed.

- PRN NO- 2020015200343777
- PRN NO- 2020015200758843

Date: 15/3/23

Dr. Shaikh A.R.



# MRS. KESHARABAI SONAJIRAO KSHIRSAGAR ALIS KAKU ARTS, SCIENCE & COMMERCS COLLEGE, BEED.

#### CERTIFICATE

Certified that This Report Submitted by

Mr. Dudhal Shubham

Mr. Bhosale Pratik

The student of the course of Bachelor in Computer Science (B.Sc.) as a part of practical work as prescribed by Dr. Babasaheb Ambedkar Marathwada University, Aurangabad. For the subject Major Project, for Major Project titled Transfer Certificate (TC). We have guided him for the said work, assessed the same & we satisfied that it is up to the standards envisaged for the level of course. The said work may be presented for the partial fulfillment of the project work as prescribed by the Dr. BAMU, Aurangabad.

Place: K.S.K. College, Beed.

Exam No.:

3

3

3

PRN: 2019015200373933

2019015200797162

Date:

Dr. Shaikh A.R.



Mrs. Kesharbai sonajirao Kshirsagar Alis Kaku Arts, Science & Commerce College Beed.

### CERTIFICATE

Certified that this report submitted by,

#### MISS. VAISHNAVI SANJAY SHINDE

Student of the course B.sc Computer Science, as a part of particle work as prescribed by Dr. BabasahebAmbedkarMarathwada University Aurangabad. For the student Major project, for the major project titled

### "BalAbhilasha"

We have guided him for the side work assessed the same and we are satisfied that it is up to the students envisaged for the level of course. The work may be presented for the partial fulfillment of the project work as prescribed by the Dr. Babasaheb Ambedkar Marathwada University

PRH 3- 2019015200399806

Dr. Shaikh A.R

Examinar

Principal

### MRS. KESHARABAI SONAJIRAO KSHIRSAGAR ALIS KAKU ARTS, SCIENCE & COMMERCS COLLEGE, BEED.

#### **CERTIFICATE**

Certified that This Report Submitted

by Miss. Salve Divya

Mrs. Gurkhude Paras

The student of the course of Bachelor in Computer Science (B.Sc.) as a part of practical work as prescribed by Dr. Babasaheb Ambedkar Marathwada University, Aurangabad. For the subject Major Project, for Major Project titled Quick food. We have guided him for the said work, assessed the same & we satisfied that it is up to the standards envisaged for the level of course. The said work may be presented for the partial fulfillment of the project work as prescribed by the Dr. BAMU, Aurangabad.

Place: K.S.K. College, Beed.

PRN no: 2020015200361686

2020015200355337

Date:

Dr. Shaikh A.R.

(Guide, Project Coordinator &

### Mrs. Kesharbai Sonajirao Kshirsagar Alias Kaku Arts, Science & Comme

#### College, Beed

Department of Zoology M.Sc. Project Work

**Project Topic List** 

A.Y. 2022-23 M.Sc. II Year IV Semester

100 Marks

Sr. No.	Seat No.	Student Name	Topic Name
1	GZD401187	BANSODE SHRUSHTI SATISH	Freshwater fishes
2	GZD401188	GHODKE POOJA PARMESHWAR	Marine water fishes
3	GZD401189	GUNJAL MANOD SHIVAJIRAO	Fish parasite (Tapeworm)
4	GZD401190	JADHAV AKSHAY BABAN	Helminth infection from freshwater fishes
5	GZD401191	JOGDAND AKANKSHA PANDIT	Helminth infection from Marine water fishes
6	GZD401192	LATE POOJA LAXMAN	Biodiversity Index of India
7	GZD401193	NIRMAL SHITAL SHAMRAO	Gastrointestinal Helminth (Whipworm)
8	GZD401194	RASKAR YOGITA CHANDRAKANT	Biology of Starfish (Asteroidea)
9	GZD401195	RAUT ASHWINI DIGAMBAR	DNA (Structure study)
10	GZD401196	SABLE YOGITA BALIRAM	Growth of Silkworm
11	GZD401197	SALUNKE SONALI RAJKUMAR	Study of Microbial Peptides
12	GZD401198	UGALE PRASHANT SHIVNATH	Gastrointestinal Helminth (Hookworms)
13	GZD401199	WAGHCHOURE POOJA BHIMRAO	Infections of silkworm
14	GZD401200	WALHEKAR SMITA BHARAT	Protein Synthesis (Translation)

Considerator in Section Quality Assurance Cell Mrs. K.S.R. College, Break 17

Head of the Department **Head** 

Department of Zoology, Mrs.K.S.K. College, Beed.



Mrs. Kesnarbai Sonajirao Kshirsagar Alias Kaku Arts, Science & Commerce College, Be

Department of Zoology

### CERTIFICATE

OF
SERICULTURE COURSE COMPLETION

Proudly presented to:

Miss./Mr.\_\_\_-/ztoa\_\_ Fabrero\_\_ Party\_\_

studying in class M.Sc zoology has successfully Completed
Certificate course Titled Sericulture.

He /She is Passed in the examination Conducted by the
College & in recognition awarded this certificate.

For Academic Year 2022-2023

Dr. A.N. Shelke

Head of the Wearth then to Department of Zoology, Mrs.K.S.K. College, Beed.

Principal

Dr. 5! VS.PKH Ma Kesharbai

Sonajirao Kahilajara Gut

Arts, Stilenetrunt Commerce

College, Beed.



Mrs. Kesnarbai Sonajirao Ksnirsagar Alias-Kaku Arts, Science & Commerce College, Bee (431122

Department of Zoology

CERTIFICATE

OF SERICULTURE COURSE COMPLETION

Proudly presented to:

Miss./Mr. \_ Ragwan Reema Bagwan Khaja \_ Mija \_ \_

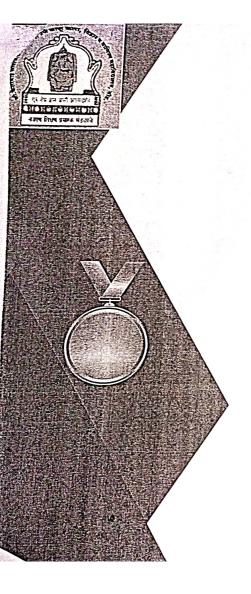
studying in class M.Sc zoology has successfully Completed Certificate course Titled Sericulture. He /She is Passed in the examination Conducted by the College & in recognition awarded this certificate.

For Academic Year 2022-2023

Dr. A.N. Shelke

Head of the Department Department of Zoology, Mrs.K.S.K. College,Beed. Dr. S.V. Kshinsagar

N.S. SP.Rijhkiji praiKesharbal Sonajirac Kshirsagar Alies Kaku Arts, Science and Commerce College, Beed.



Mrs. Kesnarbai Sonajirao Ksnirsagar Alias Kaku Arts, Science & Commerce College, B



Department of Zoology

### CERTIFICATE

OF SERICULTURE COURSE COMPLETION

Proudly presented to:

Miss./Mr.\_\_ Chouse\_ farmethoge\_ Shrizans\_\_\_\_\_

studying in class M.Sc zoology has successfully Completed Certificate course Titled Sericulture. He /She is Passed in the examination Conducted by the College & in recognition awarded this certificate.

For Academic Year 2022-2023

Dr. A.N. Shelke

Head of the Department

Head

Department of Zoology,
Mrs.K.S.K. College Road

Principal
Principal
Principal
N.S.S.K.N. Mrs. Resignar
Sonajliábneinastjar Alias Kaku
Arts, Science and Commerce
College, Beed.

431122

### Mrs. K.S.K. College Beed.

Department of Computer Science M.Sc. II<sup>nd</sup> Year Project (2022-2023)



Sr. No	Name Of Student	Project Title
1 (2	Ware Rushikesh Ramnath	Library Management System
27	Aute Akshaykumar Ashok	
2	Amit Bharat Mane	Real Estate Project 2023
	Ram Shamrao Gadhikar	
3	Kulkarni Mandar Sureshrao	Real Estate Management
	Shinde Mohit Gajanan	
}	Kokil Vaishnavi Nandkishor	Tours And Travels Agency
	Harale Jyoti Ramprasad	100
5	Gore Ajay Tulshidas	Plagiarism And Grammar Checker
	Turukmare Rushikesh Anil	
6	Prajaktta Shriram Waghmare	IOT Road Safety
	Sheetal Sanjeevkumar Paralikar	
7	Mundhe Aniket Navnath	Baker's Lounge
-	Surwase Sanket Balasaheb	
8	Ajinkya Pradeep Deshmukh	Job Search Website
9	Yadav Ishwar Anilrao	Lab Setup On Docker

Co-Ordinator
Internal Quality Assurance Cell
Mrs. K.S.K. College, Beed, (M.S.)

Department of Computer Sci.



# MRS. K.S.K. ALIAS KAKU COLLEGE, BEED. Department of Microbiology List of PG projects 2022-2023

Title	Participants
"Antibiotic resistance of locally isolated Staphylococcus	1. Tambe Priyanka
aureus from nosocomial environment"	<ol><li>Nisargandh Shreya</li></ol>
	3. Shinde Prashik
"Bacteriological quality of water"	Shelke Ishwar
	2. Potdar Pravin
	3. Kale Dinesh
	4. Gaikwad Purshouttam
	5. Hinge Rushi
	6. Tagade Pravin
"Common diagnostic and laboratory test and	Salunke Sangameshwar
procedures"	<ol><li>Vanjare Swapnil</li></ol>
•	<ol><li>Lakhe Rohit</li></ol>
	4. Jagtap Rahul
"Study on phosphate solubilizing bacteria in	1. Moralwar Tejal
hypersaline habit in Lonar crater of Buldhana district,	<ol><li>Gaikwad Pooja</li></ol>
India"	3. Deshmane Amruta
	4. Ogale Prashvita
	5. Pakhare Rupali
"Antimicrobial and antifungal activity of actinomycetes	1. Bagal Madhuri
isolated from play ground soil sample"	2. Sarwade Neelam
	3. Sanap Shruti
	4. Thosar Revati
	5. Pakhare Shubham
"Study of α-amylase production from actinomycetes"	1. Shahane Radha
	2. Ghule Aishwarya
	3. Munde Jayashri
	4. Munde Payal
	5. Gawai Prinya
	6. Munde Anuja

Indicator Assurance Cell
Mr. R.S.K. College, Beed, (M.S.)

Dpt. of Microbiology Mrs. K.S.K College Beed

### Mrs. Kesharbai Sonajirao Kshirsagar Alias kaku Arts, Sejang & Commerce College Beed (M.S.)

### M.Com IV Semester Student Project List 2022-2023

Sr. No.	Name Of Students	Name of Projects
01	Avadhut Rupali Shivaji	Risk Management regarding working of a broking firm, and its investors
02	Barde Komal Ashruba	Fundamental Analysis of ICICI Bank Ltd.
03	Bhakkad Prachi Shrikisanji	Equity Research
04	Bhise Shital Govardhan	Equity Research: Fundamental and Technical analysis and its impact on stock prices
05	Chalak Ashok Shrimant	Financial Analysis of Equity Research
06	Chalak Bhairavnath Shivaji	Fundamental Analysis Of Equity Research
07	Chandane Varsha Vishnupant	Retail Banking front office Management Activity
08	Chavan Bhagwat Rohidas	Risk Management regarding working of a broking firm, and its investors
09	Choudharce Ashwini Ishwar	Study of Commodity Market
10	Dabhade Priyanka Sukhadev	Study on Finance Department
11	Dake Vaijinath Annabhau	Study of assessment methods of working capital requirement
12	Dhotre Akash Nagnath	NPA and Recovery Process with respect to Small Scale Industries
13	Doiphode Shantabai Laxman	Perceptible Analysis of Depository Services
14	Dongare Anil Pandurang	Credit Analysis of Personal Loan
15	Gaikwad Baliram Shivaji	Working Capital
16	Gaikwad Shubhangi Dattatrya	Employee Engagement Survey Of Equity Research
17	Giri Rajesh Vasant	Study Stress At Managerial Level of Credit Analysis
18	Inamdar Shaheen Hasnoddin	Training and Development
19	Jadhav Ashwini Mahadev	Study of Recruitment And Selection
20	Jogdand Ashatai Kacharu	Causes of Attrition Amongst the Local and Outside Workers
21	Kadam Atmaram Yuvraj	Training Need Identification
22	Kadam Dnyaneshwar Dadahari	Wage and Salary Administration & Management
23	Kadam Maruti Rangnath	Resume Management in Recruitment Process
24	Kande Mohan Rajendra	Survey of Corporate Customers for Various Telecom Products & Services
25	Kedar Parmeshwar Navnath	A Study on Customer Satisfaction
26	Khatke Dasu Sonaji	Prospective Market Potential for Corporate Accounts Offered by Banks
27	Kode Priya Omprakash	Market Research on Advertising and Brand Image of Consumer Electronic Companies
28	Kudke Arjun Ashruba	Advertising & Trends in On-Line advertising
29	Mali Vishnu Sahebrao	Purchase System
30	Mhetre Akash Subhash	Real Estate Survey
31	Mohalkar Abhimanyu Laxman	To Explore Market Opportunities For New Product Launch

No.		
32	Morale Sandeep Bibhishan	Small and medium advertisement agencies
33	Mote Ganesh Babruwan	Assessment and Development of New Channels Of Distribution
34	Mule Sachin Annasaheb	Analysis of Customer Relationship Management     Beed
35	Pandit Nilesh Vijay	THE RESIDENCE OF THE PROPERTY
36	Parikh Abhishek Omprakash	COLINTRY brandley in the context. Of "Tourism Industry"
37	Patekar Amol Subhash	Market Survey & Agency Development  COUNTRY branding in the context Of "Tourism Industry"  E-marketing and online selling of the products/services
38	Pawar Datta Shahadey	Market Research Of Set Top Boxes
39	Pawar Sambhaji Dnyandeo	Merchandise Planning
40	Pimperkar Santosh Narhari	Market Analysis on Oral Health Care Products with respected to
		Electronic Toothbrush
41	Pokale Sharad Sarjerao	Market Analysis and New Channel Development
42	Rakh Sharad Sudhakar	Customer's Expectations and Feedback Analysis
43	Syed Furkan Saleem	Branding Market Analysis
44	Tavaskar Shubham Balkrishna	Promotional Strategies Of Credit Analysis
45	Thorat Rahul Sarjerao	Sales Promotion Activities
46	Tibole Madhuri Manikrao	Awareness of ERP among SSI
47	Tidke Rishikesh Dilip	Inventory Control and Management Systems
48	Trimukhe Mukund Rameshrao	Perception Mapping of Competitors Product in the Mind of
		Customers
49	Wadmare Hitoupdesh Ganesh	Customers Investment Preferences
50	Wadmare Shubham	Sales Promotion & Customer Overview for Carrier
	Bhaskarrao	
51	Ostwal Akash Sureshlal	Analysis of Customer Feedback for The Study
52	Ostwal Divya Sureshlal	Market Potential Survey
53	Pathan Talebkha Banekha	Market Assessment Study
54	Raut Manoj Babasaheb	Co-operative Milk Marketing Federation Limited
55	Raut Rameshwar Shrirang	Evaluation of Contractors and Transporters
56	Raut Rupali Dattatray	Study of New Product Launching Activity
57	Takik Ramesh Hiraman	Study of Stores Management & Analysis of Customer Feedback
58	Takik Vishnu Shamsudar	Market Potential Survey Total Polymer Consumption of Home Appliances
59	Tandale Rushikesh Fulchand	Logistics and Supply Chain Management
60	Tandale Rushikesh Fulchand	A Study of Effectiveness s of Distribution Channel
61	Veer Manisha Ramchandra	A Study of Effectiveness 3 of Platfordion Chamer

V. S. S. R'S. Mrs. K. S. K. Alles

Navgan Shikshan Sanstha Rajuri (N)

#### Mrs. Kesharbai Sonajirao Kshirsagar Alias kaku Arts, Science & Commerce College Beed (M.S.)

Student Project List 2022-2023 Compulsory.
Class: B.A. Second Year "Environmental Science"

Sr. No.	Class: B.A. Second Yes	PROJECT NAME
1.	NAGALWAR SHUBHAM ASHOKRAO	Ecosystem
2.	SHAIKH AMER ATAULLAH	Ecosystem
3.	SHAIKH SOHEL SHAIKH ATAULLA	Ecosystem
4.	GHOLAP RUSHIKESH SHESHRAO	Ecosystem
5.	GHUMRE SANJAY BHIMRAO	Ecosystem
6.	SHAIKH FAISAL SADEQUE	Ecosystem
7.	JADHAV KESHAV MADHAV	Ecosystem
8.	TANDALE HRUTWIK RAMDAS	Green revolution
9.	KARANDE KUMAR SHRIRAM	Green revolution
10.	INGOLE PRATIKSHA CHANDRAKANT	Green revolution
11.	DHAKANE HARIOM MADHUKAR	Green revolution
12.	DOKE KRUSHNA BIBISHAN	Green revolution
13.	MISALE SAGAR ANIL	Green revolution
14.	AMTE AMRUTA SUGRIV	Green revolution
15.	RAUT SHUBHAM KIRAN	Air Pollution
16.	HUMBE KRUSHNA BHAGWAN	Air Pollution
17.	MOTE SHANKAR SADASHIV	Air Pollution
18.	SURVASE TEJAS BHASKAR	Air Pollution
19.	GHOLAP ABHISHEK DHONDIRAM	Air Pollution
20.	NAGARGOJE DEVAYANI RAVINDRA	Air Pollution
21.	RAUT SUVARNA DATTATRYA	Climate Change
22.	JADHAV MANASI NAGNATH	Climate Change
23.	CHAVAN AKANKSHA ANKUSH	Climate Change
24.	GAIKWAD ANJALI ARUN	Climate Change
25.	MISAL VITTHAL RAM	Climate Change
26.	PAWAR KRUSHNA BABURAO	Climate Change
27.	KHANDE DIKSHA MACHINDRA	Climate Change
28.	PATHAN KASHISH MAJEDKHAN	Climate Change
29.	KAJALE AMRUTA RAJENDRA	Climate Change
30.	GANGAWANE INDRAJIT EKNATH	Global warming
31.	GORE SUDARSHAN ADINATH	Global warming
32.	VAHEKAR ANIKET NARAYAN	Global warming
33.	MANMONDE PRANITA SANJAY	Global warming
34.	GAIKWAD SAGAR SATISH	Global warming
35.	GHADSING POONAM SHAHADEV	Global warming
36.	AHIRE ANKITA BABASAHEB	Global warming
37.	CHAURE MOHINI HARINAND	Global warming
38.	KALSANE RAHUL BABU	Solar Energy

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39.	KOKATE ANUPAMA RAMDAS	Solar Energy	Beed
40.	DOKE SWATI BANSI	Solar Energy Solar Energy	431122
41.	KADAM USHA ANNASAHEB	Solar Energy	322M STANA
42.	KHILLARE GANESH GOPAL	Solar Energy	32N 5 2012
43.	NIKALIE PIYUSH VIJAY	Solar Energy	
44.	DALVI DHANANJAY BALU	Solar Energy	
45.	CHAVAN NUTAN ANURATH	Solar Energy	
46.	YEOLE SHUBHAM BHARAT	Solar Energy	
47.	DHENGLE PRATIK MAHADEV		
48.	SURWASE RAVIRAJ TULSHIRAM	Renewable Energy Renewable Energy	
49.	MEHETRE VAIBHAV GANESH	Renewable Energy	
50.	GORE LAKHAN RAM	Renewable Energy	
51.		Renewable Energy	
52.	GAIKWAD AKASH VACHISHTH	Renewable Energy	
53.	KOTULE KRUSHNA RAJENDRA	Renewable Energy	
54.	LANDGE AJINKYA MAHADEV	Renewable Energy	
55.	MANDAVE SONABHAU ANNA		
56.	ZODGE RAVIRAJ SHANKAR  NAWALE PAVAN CHANDRASHEKHAR	Soil Pollution Soil Pollution	
57.	RAUT BHAGYESH GANESH	Soil Pollution	
58.	AUTE SAURABH PRAKASH	Soil Pollution	
59.	SAPKAL NIKITA LAXMAN	Soil Pollution	
60.	SOLANKAR MAHESH RAMESH	Soil Pollution	
61.	RAUT PANDHARINATH HARIBHAU	Soil Pollution	
62.	SAPKAL BHIM ANKUSH	Soil Pollution	
63.	BAGBAN HUMERA BEGUM MUSA	Soil Pollution	
64.	HALEEMA FATEMA MOHD RAFEEQUE	Energy Conservation	
65.	PINJARI ARBAZ TAYYAB	Energy Conservation	
66.	BHOSALE NIKITA KUNDLIK	Energy Conservation	
67.	BAHIRWAL KESHAV BABURAO	Energy Conservation	
68.	BANDE PAVAN VASANT	Energy Conservation	
69.	WAGHMARE ANIKET VILAS	Energy Conservation	
70.	TANDALE KAVERI SUDAM	Energy Conservation	
71.	AMBHORE RAHUL RAMRAO	Energy Conservation	
72.	MOMIN MOHAMMED FARHAN ABDUL NAEEM	Energy Conservation	
73.	DAKE PUJA DILIP	Solar Energy	
74.	KALE SUJIT ANKUSH	Solar Energy	1
75.	PAWAR GANESH SUBRAV	Solar Energy	1
76.	PAWAR MUKESH SAKHARAM	Solar Energy	
77.	DONGAR MEENA BHIMA	Solar Energy	
78.	SURYAVANSHI SUMIT GURUNATH	Food Chain	1
79.	ASHTEKAR ABHISHEK RAJESH	Food Chain	1
80.	KHANDARE SUSHANT HANUMANT	Food Chain	
81.	RAUT PRAMOD VITTHAL (NEW)	Food Chain	1
82.	KADAM MONIKA LAKUL (NEW)	Food Chain	
			and a

Principal

N.S.S.R.(N.) Mrs.Kesharbai

Sonajirao Kshirsagar Alias Kaku

Arts, Science and Commerce

Co!lege, Beed.

Director
Board of Examination & Evaluation
Dr.Babasaheb Ambedkar
Marathwada University,
Chhatrapati Sambhajinagar

#### Navgan Shikshan Sanstha Rajuri (N)

#### Mrs. Kesharbai Sonajirao Kshirsagar Alias kaku Arts, & Commerce College Beed (M.S.)

Student Project List 2022-2023 Compulsory.

Class: B.Com. Second Year "Environmental science"

Climate Change

Climate Change

Climate Change

Sr. No. Sandara N. Class: B.Com. Second Year "Environment		
Sr. No	Student Name	Project Name
1.	RAHADE KARTIK UDDHAV	Solid Waste Management
2.	DONGARE POOJA DILIP	Solid Waste Management
3.	SHINDE SURAJ SHAM	Solid Waste Management
4.	BHOPALE VAISHNAVI MAHADEV	Solid Waste Management
5.	HUMBE MAHENDRA VITTHAL	Solid Waste Management
6.	VETAL ABHISHEK RAJU	Solid Waste Management
7.	RAUT VAISHNAVI CHANDRAKANT	Solid Waste Management
8.	SUTWANE SIDDHARTH RAMESHRAO	Noise Pollution
9.	KUDKE VAISHNAVI SUNIL	Noise Pollution
10.	YEDE SMITA VIKRAM	Noise Pollution
11.	KOTHULE VAIBHAV BALU	Noise Pollution
12.	DHAKNE SNEHA BALASAHEB	Noise Pollution
13.	GHUMRE VAIBHAV VIKRAM	Noise Pollution
14.	NAWALE POOJA BALU	Noise Pollution
15.	NAWALE SAKSHI RAMESH	Noise Pollution
16.	AUTE SAMIKSHA BHAGWAT	Green Revolution
17.	VEER SAKSHI ASHOK	Green Revolution
18.	JADHAV YOGESHWARI LALAJI	Green Revolution
19.	RAUT APEKSHA ASHOK	Green Revolution
20.	SHAIKH AYESHA SIRAJ	Green Revolution
21.	YEDE DNYANESHVAR KESHAV	Green Revolution
22.	PINGALE DNYANESHWARI KONDIBA	Green Revolution
23.	AKHADE AUGUST RAMDAS	Green Revolution
24.	SHAIKH BUSHRA HARUN	Water Pollution
25.	DODKE SUMIT SANTOSH	Water Pollution
26.	MAGAR NISHANT SANDIPAN	Water Pollution
27.	KAWADE PRATIK SUNIL	Water Pollution
28.	KULTHE PRATIKSHA RAJENDRA	Water Pollution
29.	SAWASE AMRUTA SURESH	Water Pollution
30.	CHAVAN SHITAL PANDIT	Global Warming
31.	GOLE KAVITA RAVINDRA	Global Warming
32.	JAMKAR ROHAN ANGAD	Global Warming
33.	VEER ADITYA DHONDIRAM	Global Warming
34.	GHODKE ARTI EKNATH	Global Warming
35.	KAPLE ANJALI SHRIRAM	Climate Change
		chinate change

36.

37.

38.

KAPLE SAKSHI BALIRAM

KAPLE VAISHNAVI VITTHAL

**ROKADE JYOTI NARAYAN** 

		(8)
39,	GORE AISHWARYA VISHNU	Climate Change
40.		
41.	KAPLE NEHA SHAHADEO	Pollution Pollution
42.	KAPLE SANDHYA ATMARAM	Pollution
43.	KHETRE TRUPTI ASARAM	Pollution
44.	JAWALE RUSHIKESH BHARAT	Pollution
45.	FARTADE JYOTIRAM RAMA	Pollution
46.	PAWAR GAYATRI VILASRAO	Pollution
47.	SOLUNKE HARICHANDRA BIBHISHAN	Solar Energy
48.	KADAM SATESH SUNDAR	Solar Energy
49.	VEER TUSHAR MAHENDRA	Solar Energy
50.	KALE AKANKSHA BALASAHEB	Solar Energy
51.	KADAM RANI GANESH	Solar Energy
52.	VEER KOMAL ASHOKRAO	Solar Energy
53.	GHADGE RATNMALA NARAYAN	Solar Energy
54.	KADAM SAGAR HARIDAS	Air Pollution
55.	POPALE ISHWAR TULSIDAS	Air Pollution
56.	GADE SWAPANIL SUGRIV	Air Pollution
57.	THORAT SUDARSHAN SHIVAJI	Air Pollution
58.	SURWASE PRATIKSHA HANUMAN	Air Pollution
59.	UJGARE ADITYA SATISH	Air Pollution
60.	KANADE SHANKAR VISHWANATH	Air Pollution
61.	DHOPATE AKANKSHA GAUTAM	Ecosystem
62.	CHAVAN ANANT VISHWAS	Ecosystem
63.	SHELKE NIKHIL BALASAHEB	Ecosystem
64.	RAUT ADITYA ASHOK	Ecosystem
65.	SANAP GANESH HARISHCHANDRA	Ecosystem
66.	KADAM NAKUL CHANDRAKANT	Ecosystem
67.	MANIYAR DANISH MAHEMOOD	Noisa Pollution
68.	PANKHADE GAURAV RAJENDRA	Noisa Pollution
69.	GADE MUKUND NARAYAN	Noisa Pollution
70.	BONGANE MANTESH BHAGWAT	Noisa Pollution
71.	CHOPDE AKANKSHA ASHOKRAO	Noisa Pollution
72.	VEER ROHAN BALU	Noisa Pollution
73.	KUTE ASHWINI BANDU	Soil Pollution
74.	AGAM SHUBHAM ATMARAM	Soil Pollution
75.	SUPEKAR RAMHARI ASHRUBA	Soil Pollution
76.	DAHIFALE PRATIKSHA SHIVNATH	Soil Pollution
77.	RAUT TANUJA SANJAY	Soil Pollution
78.	SHINDE ANIKET ROHIDAS	Soil Pollution
79.	JADHAV AKASH RAOSAHEB	Noise Pollution
80.	LOKHANDE CHAITANYA ASHOK	Noise Pollution
81.	RAUT DIPAK DINKAR	Noise Pollution
82.	GAIKWAD NIKITA ARUN	Noise Pollution
83.	SORTE KOMAL MAHADEV	Noise Pollution



N.S.S.R.(N.) Mrs.Kesharbai Sonajirao Kshirsagar Alias Kaku Arts, Science and Commerce Co!lege, Beed. Director : Soard of Examination & Evaluation Dr.Babasaheb Ambedkar Marathwada University, Chhatrapati Sambhajinagar

#### Navgan Shikshan Sanstha Rajuri (N)

#### Mrs. Kesharbai Sonajirao Kshirsagar Alias kaku Arts Scienc & Commerce College Beed (M.S.)

Student Project List 2022-2023 Compulsory

Class: R Sc Second Year Faring mental science

	Class: B.Sc. Second Y	'ear' En Vironmental 36
Sr. No	STUDENT NAME	PROJECT NAME
1.	GANGE ABHISHEK ANURATH	Solar Energy
2.	NAWALE PRITI BHIMRAO	Solar Energy
3.	SHINDE DIVYASHREE AJAY	Solar Energy
4.	RAUT ABHISHEK LAXMAN	Solar Energy
5.	PAWAR ABHISHEK BALBHIM	Solar Energy
6.	SHINDE ADITYA ABHIMAN	Solar Energy
7.	PARDESHI VYANKTESHSING SACHINSHING	Solar Energy
8.	GOLANDE AMRUTA KACHARU	Solar Energy
9.	BHANDARE PRATIKSHA BHIMRAO	Pollution
10.	DAFAL NIKITA SHIVAJI	Pollution
11.	MISALE SAURABH ANIL	Pollution
12.	WAKHARE ARTI GANESH	Pollution
13.	GURAV MAYURI MAHADEV	Pollution
14.	SHINDE VISHAL RAMCHANDRA	Pollution
15.	KATKHADE SHRADDHA NAVNATH	Pollution
16.		Nuclear Energy
17.	The second secon	Nuclear Energy
18.	THE PARTY OF THE P	Nuclear Energy
19.	TARABLIA CAMULADANA	Nuclear Energy
20.	WARREST AUGUS ANT DALLI	Nuclear Energy
21.	A SULOW	Nuclear Energy
22.	ACUADE	Nuclear Energy
23.	THE PARTITION AND A STATE OF THE PARTITION OF THE PARTITI	Food Chain
24.	TO A LANGUA CA MULAUADI	Food Chain
25.	TO THE PARTY OF TH	Food Chain
26.		Food Chain
27.	THE PART OF THE PA	Food Chain
28.	THE TAXABLE WALLAC	Ecosystem
29		Ecosystem
30		Ecosystem
31		Ecosystem
32		Ecosystem
33		Ecosystem
34		Ecosystem
35		Liquid Waste Management
36	5. PANGARKAR NANDINI SANTOSH	Liquid Waste Management
37	7. TAWARE KRUSHNA ABHIMAN	Liquid Waste Management
38		Liquid Waste Management
39	9. GAIKWAD SANTOSHI RUSHIKESH	Liquid Waste Management

	40	PHANDELWAL MANUELLA MANUE	Liquid Waste Management
	40.	KHANDELWAL MANISHA KAILAS	Liquid Waste Management
	41.	SAUNDARMAL ABHUEET DATTATRAY	Liquid waste wanage bent Beed
	42.	HIRE DISHA	Liquid Waste Management431122
	43.	THORAT KAMINI BABANRAO	Air Pollution Air Pollution
	44.	GHOGARE SHRIRAM SANTOSH	
	45.	JOGDAND SARITA BHAIRAVNATH	Air Pollution
	46.	KHOSE VIDHYA BHAGVAT	Air Pollution
	47.	AKHADE SAGAR SATISH	Air Pollution
	48.	SALUNKE KANCHAN SUDAM	Air Pollution
	49.	KHUTALE YUVRAJ BARIKRAO	Air Pollution
	50.	KANDE JYOTI LAXMAN	Air Pollution
	51.	AHIRE ANKITA RAVINDRA	Solar Energy
	52.	KAKDE MOHINI MAHADEV	Solar Energy
	53.		Solar Energy
	54.		Food Chain
	55.		Food Chain
	56.		Food Chain
	57		Food Chain
	58		Food Chain
	59		Food Chain
	60		Food Chain
	61	7.000	Food Chain
	62	SALUNKE RUTUJA LAXMAN	Climate Change
	63	BHOSALE AVINASH RAMESH	Climate Change
	64	4. GHODKE YOGITA RAMNARAYAN	Climate Change
	65	5. GHODKE SNEHA MAHADEV	Climate Change Climate Change
	66	6. KATE GANESH BHARAT	Climate Change
	6	7. KATE ANIKET HANUMAN	
	6	8. UJGARE KRANTI BHAGWAT	Soil pollution Soil pollution
	6	9. ROHITE AKASH SHANKAR	Soil pollution
	7	0. KURHE MADHURI BHAGWAT	Soil pollution
	7	JADHAV DIGAMBAR SIDHESHWAR	Soil pollution
	7	2. SATPUTE GANESH VITTHAL	
	7	3. GHUGE RUTUJA BALU	Ecosystem Ecosystem
	7	4. AGHAV ARTI ARJUN	
	7	5. AKHADE SAURABH ASARAM	Ecosystem
	7	6. KATE ISHWAR BHAGWAT	Ecosystem
	7	77. SHINGARE SHUBHAM SANDESH	Ecosystem
	7	78. PAWAR ASHWINI HANUMANT	Ecosystem
		79. SHENDGE MAHESH JALINDAR	Ecosystem
		SO. JADHAV DHANRAJ BHAGWAN	Ecosystem Soar Engrav
		81. KHEMADE ADITYA SUNIL	Soar Energy
-		82. MALEKAR KOMAL TABAJI	Soar Energy
1		83. SHIRSAT ROHINI TUKARAM	Soar Energy
		84. KHEDKAR VISHAL ASHOK	Soar Energy
		85. BUDHNAR RUTUJA MACHINDRA	Soar Energy
L		86. AMTE PRATIBHA MACHHINDRA	Soar Energy

		Chemical Energy
87.	WAYBAT MADHUBALA SHUKHADEV	Chemical Energy
88.	KATE ROHIT KISAN	Chemical Energy
89.	KUTE NITIN BABASAHEB	Chemical Energy 48
	GADALE ANKUSH JANAK	Chemical Energy
90.		Chemical Energy
91.	CHAVAN SHRUTI LAXMAN	
92.	WAYBAT RAJASHRI DNYANESHWAR	Impact to Corona Virus Impact to Corona Virus
93.	THOKE PRATIKSHA KAILASH	
94.	KACHHAWAYTHAKUR ABHISHEK DHONDUSINHA	Impact to Corona Virus
95.	MAGAR ANAND SANJAY	Impact to Corona Virus
96.	CHAVAN PALLAVI MACCHINDRA	Impact to Corona Virus
97.	SUKALE SWAPNIL GANESH	Impact to Corona Virus
98.	THAPDE VAISHNAVI VINAYAK	Impact to Corona Virus
99.	SHAIKH MOHAMAD ASRAR AHEMAD MOHAMAD MAZHER	Impact to Corona Virus
	DHASE KOMAL RAJENDRA	Air Pollution
100.	BAHIRWAL AKASH RADHAKISAN	Air Pollution
101.	PANDIT POOJA ANANT	Air Pollution
102.	WAKHARE AJAY GANESH	Air Pollution
103.	YELAPURE ADITYA SUKHADEO	Air Pollution
104.	NIRMAL ARTI DIPAK	Noise Pollution
105.	THE A DE MANIECH MICHNII	Noise Pollution
106.	THE STREET STATE OF THE STATE O	Noise Pollution
107.	THE TANGUET VESHAV	Nuclear Energy
108.	DAIAVTA CLIDECH	Nuclear Energy
109		Nuclear Energy
110	TO A LEGIL KALL AS	Nuclear Energy
111	- LEDE KADANI KAJI AS	Nuclear Energy
112	THE STATE OF THE S	Nuclear Energy
113	T CALIDARI SUDHAKAR	Nuclear Energy
114	THE SADANANDAN	Nuclear Energy
110	CANACHIDSHAHA	Nuclear Energy
11	TOTAL A CONTRACTOR AND A TRACTOR AND A TRACT	Nuclear Energy
11	TO THE PARTY OF TH	Nuclear Energy
11	AKASH BACHINATH	Energy Conservation
12	- ADESH CANGARAM	Energy Conservation
12	OS SHARDA NAVNATH	Energy Conservation
12	2. AKHADE RAMESHWAR NAVNATH	Energy Conservation
12	THE STATE OF THE S	Energy Conservation  Energy Conservation
12	TO THE STATE OF TH	
12	THE CANADA THE ADAMA	Energy Conservation
12	TOTAL POLIT PALL	Soar Energy
	7. MANE PRADNYA SHAM	Soar Energy
12	28. BAHIRWAL SUDHAKAR RAJABHAU	Renewable Energy
12	29. DHASE PAVAN ANKUSH	Renewable Energy
	30. SOLANKE APARNA VISHNU	Renewable Energy
13	31. DIPALI MITTHU SALUNKE	Renewable Energy
1:	32. SONWANE POOJA VASHISHTH	Renewable Energy
1:	33. KHANDE DNYANESHWARI SANDIPAN	Renewable Energy

and the same of	134.	PAWAR PRAVIEW BANDU	Renewable Energy
e grandents	135	TANGADE SNEHAL DADARAD	Solid waste Management
opinion in the	136	GANWAD AKANKSHA RAIKUMAR	Solid waste Management   Beed
ministration.	137.	GARUD ANIXET GANESH	Solid waste Management / 131122
<u>Laboration</u>	138	NAGARGOR PRATIKSHA JANARDHAN	Solid waste Management
-	139	SANAP HEMANT BHASKAR	Solid waste Management
graphic to	140	BARDADE ANIALI BHAUSAHEB	Ecosystem
ages (Asset)	141.	GHOLVE SHUBHANGI SURYAPRAKASH	Ecosystem
Appetition) first	142.	SURWASE PRATIKSHA BHARAT	Ecosystem
profit vident i	143.	KALE SANKET KISHOR	Ecosystem
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-	153.	PAWAR VIKAS RAMESH	Solar Energy
-	154.	RAUT ANIALI BABASAHEB	Solar Energy
-	155.	WANIARE PRADNYANAND PREMCHAND	Solar Energy
-	156.	GANGAVANE HRUSHIKESH RAVI	Solar Energy
_	157.	TUPE ADITYA HANUMANT	Ecosystem
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-	159.	GHULE SONALI UDDHAV	Ecosystem
-	160.	DEVKATE VANITA NARAYAN	Ecosystem
-	161	GHODKE NEHA ANKUSH	Ecosystem
-	162.	RAUT DIPALI BHAGAWAN	Ecosystem
	163.	KALE RUDRANATH SURYAKANT	Ecosystem
-	164.	WAGHMARE ONKAR SHIVHAR	Soil Pollution
-	165.	WANVE VAIBHAV CHANDRAKANT	Soil Pollution
-	166.	PHAD VAISHNAVI RAVINDRA	Soil Pollution
-	167.	SANAP NIKHIL BABASAHEB	Soil Pollution
-	168.	GAVHANE AARTI VITTHAL	Soil Pollution
-	169.	GHODKE PRITI SIDHESHWAR	Soil Pollution
-	170.	KOKANE VAISHNAVI RAJENDRA	Energy Conservation
-	171.	SALVE SAURABH RAJENDRA	Energy Conservation
-	172.	SHAIKH AYESHA SHAIKH FAHIM	Energy Conservation
-	173.	SYEDA FATEMA SYED LAEEQUE	Energy Conservation



Principal

N.S.S.R.(N.) Mrs.Kesharbal

Sonajirao Kshirsagar Alias Kaku

Arts, Science and Commerce

College, Beed.

Director
Board of Examination & Evaluation
Dr.Babasaheb Ambedkar
Marathwada University:
Canatrapati Sambhajinagar

#### Mrs. K.S.K. College, Beed.

DEPARTMENT OF Chemistry

### CERTIFICATE



This is to certify that Shri/Smt. Ku. Cairi Namrata Sudhakar
of Class BSC TY Roll No
has satisfactorily performed the practicals prescribed by the
Dr. B.A.M.U. Aurangabad.
In Subject chemistry Paper No. AVIII
during the academic year 2020 -2021
Exam Seat No. NAF 662759

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#### Mrs. K.S.K. College, Beed.

DEPARTMENT OF chemistr



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555555	of Class B.SC Roll No. 112.
	has satisfactorily performed the practicals prescribed by the
10000	Dr. B.A.M.U. Aurangabad.
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Professor

#### Mrs. K.S.K. College, Beed.

DEPARTMENT OF chemistry

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Bramhadatta
of Class B. sc. III ys Roll No. 97
has satisfactorily performed the practicals prescribed by the
Dr. B.A.M.U. Aurangabad.
In Subject chemistry Paper No. XVIII
during the academic year 20 \9 -20 20
Exam Seat No. NAF661798

**Professor in Charge** 

**Head of the Department** 

Mrs. K.S.K. College, Bood.

Mrs. K.S.K. College, Beed.

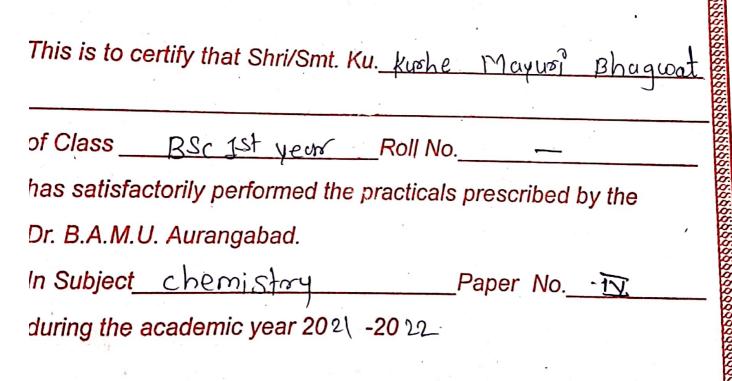
DEPARTMENT OF chemisty

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of Class Bc TT Roll No. XV
has satisfactorily performed the practicals prescribed by the
Dr. B.A.M.U. Aurangabad.
In Subject chemishy Paper No. 700)
during the academic year 2022-2023
Exam Seat No. NAF 46217
Professor in Charge Head of the Department

# Mrs. K.S.K. College, Beed.

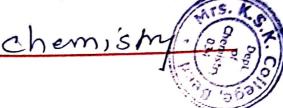
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Exam Seat No. NAA-12473

Professor in Charge

Mrs. K.S.K. College, Beed.



## <u>CERTIFICATE</u>

DEPARTMENT OF chemism
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of Class B.Sc III year Roll No
This is to certify that Shri/Smt. Ku. Ptiyanka Shankat  Katande  of Class B.Sc III year Roll No.  has satisfactorily performed the practicals prescribed by the  Dr. B.A.M.U. Aurangabad.  In Subject Chemistry Paper No. Auring the academic year 2020 -2021
Dr. B.A.M.U. Aurangabad.
In Subject Chemistry Paper No. 7011
during the academic year 2020 -2021
Exam Seat No. <u>NAF661735</u>
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#### Mrs. K.S.K. College, Beed.

DEPARTMENT OF chemish

### CERTIFICATE

This is to certify that Shri/Smt. Ku. Thokal Sakshi
SantoSh.
of Class B-SC TE Roll No. 1/2
has satisfactorily performed the practicals prescribed by the
Dr. B.A.M.U. Aurangabad.
In Subject Chemiston Paper No. 12 471
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Head of the De

#### Mrs. K.S.K. College, Beed.

DEPARTMENT OF chemistry



### **CERTIFICATE**

This is to certify that Shri/Smt. Ku. Nisgraandh Shreya Bharat
of Class BSc Ind year Roll No
has satisfactorily performed the practicals prescribed by the
Dr. B.A.M.U. Aurangabad.
In Subject Chemistry Paper No. 17 & ATI
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Professor in Charge

Head of the Department

Department of Chemistry K.S.K. College, Beed.

#### Mrs. K.S.K. College, Beed.

DEPARTMENT OF Physics

### **CERTIFICATE**

This is to certify that Shri/Smt. Ku
This is to certify that Skri/Smt. Ku
of Class Bsc TILE TegE Roll No
has satisfactorily performed the practicals prescribed by the
Dr. B.A.M.U. Aurangabad.
In Subject physics Paper No. XVII + XXI
during the academic year 2020 -2021
Exam Seat No. 2018015200494121

Professor in Charge

# Mrs. K.S.K. College, Beed.

DEPARTMENT OF physics

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of Class Boc I yer Ro	II No. 15	
has satisfactorily performed the pract		y the
Dr. B.A.M.U. Aurangabad.		
In Subject physics	Paper No	3+6
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Professor in Charge

#### Mrs. K.S.K. College, Beed.

DEPARTMENT OF Physics

## <u>CERTIFICATE</u>

This is to certify that Shri/Smt. Ku	te sudomhan
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of Class <u>g.sc</u> 1 <sup>st</sup> Roll I	Vo
has satisfactorily performed the practice	als prescribed by the
Dr. B.A.M.U. Aurangabad.	
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Professor in Charge	Ticad olyalo Doparament

### Mrs. K.S.K. College, Beed.

DEPARTMENT OF Physics

## **CERTIFICATE**

This is to certify that Shri/Smt. Ku	andve Rutuja Sandipan
of Class B.Sc T Roll	
has satisfactorily performed the practic	als prescribed by the Dr.
B.A.M.U. Aurangabad.	
In Subjectphysics	Paper
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Professor in Charge	Head of the Department

#### Mrs. K.S.K. College, Beed.

DEPARTMENT OF Physics

#### CERTIFICATE

This is to certify that Shri/Smt.	Ku. Sorita Bhairaynath
Togdand.	·
of Class Rscand	Roll No. 41
has satisfactorily performed the	e practicals prescribed by the
Dr. B.A.M.U. Aurangabad.	
In Subject Physics	Paper No. x - ¥:XIV
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Professor in Charge

#### Mrs. K.S.K. College, Beed.

DEPARTMENT OF Physics

### CERTIFICATE

This is to certify that Shri/Smt. Ku
Khadakika E sayali laxmikant.
of Class BSC III Year Roll No. XVIII - XXII
has satisfactorily performed the practicals prescribed by the
Dr. B.A.M.U. Aurangabad.
In Subject Physics Paper No
during the academic year 2020 -2011
Exam Seat No. NAF 662894.

**Professor in Charge** 

## Mrs. K.S.K. College, Beed.

DEPARTMENT OF Physics

## **CERTIFICATE**

This is to certify that Shri/Srht. Ku
Kulkarni Dhanshri Ganesh.
of Class BSC TILYY Roll No. XVII + 7XI
has satisfactorily performed the practicals prescribed by the
Dr. B.A.M.U. Aurangabad.
In SubjectPhysicsPaper No
during the academic year 2020 -2021
Exam Seat No. NAF 662921

Professor in Charge

#### Mrs. K.S.K. College, Beed.

DEPARTMENT OF Physics

### CERTIFICATE

This is to certify that Shri/Smt. Ku. Chavan Shruti
Lazeman
of Class B.sc First year Roll No. 18
has satisfactorily performed the practicals prescribed by the
Dr. B.A.M.U. Aurangabad.
In Subject Physics Paper No. III. + IV
during the academic year 20 22-20 28
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# Mrs. K.S.K. College, Beed.

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**Professor in Charge** 

#### Mrs. K.S.K. College, Beed.

DEPARTMENT OF Physics

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Professor in Charge

#### Mrs. K.S.K. College, Beed.

DEPARTMENT OF Physics

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of Class B.SC Ist year Roll No
has satisfactorily performed the practicals prescribed by the
Dr. B.A.M.U. Aurangabad.
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**Professor in Charge** 

#### Mrs. K.S.K. College, Beed.

DEPARTMENT OF PHYSICS

### CERTIFICATE

This is to certify that Shri/Smt.	Ku. Yevale	Jaya	
Balasaheb			
of Class 85C. F.Y.	Roll No	119	A
has satisfactorily performed the	practicals pre	escribed by	the
Dr. B.A.M.U. Aurangabad.		-111	+11
In Subject PHYSICS	Pap	per No	&II
during the academic year 20 2	1-2022		

Exam Seat No. 2021015200265193

**Professor in Charge** 

Mrs. K.S.K. College, Beed.

DEPARTMENT OF Physics

# CERTIFICATE

This is to certify that Shri/Smt. Ku. Jagtap Abhishek
of Class Bscst Roll No 39
has satisfactorily performed the practicals prescribed by the  Dr. B.A.M.U. Aurangabad.  Paper No. 11 + VI  Paper No. 11 + VI
In SubjectPhysicsPaper NoPaper No
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Professor in Charge

#### Mrs. K.S.K. College, Beed.

DEPARTMENT OF Physics

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Dr. B.A.M.	U. Aurangabad.	,		
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Professor in Charge

### Mrs. K.S.K. College, Beed.

DEPARTMENT OF PHA physics

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This is to certify that Shri/Smt. Ku. She	ete Bharti
Bhagwat	
of Class B.Sc. III rd 408. Roll N	o. <u> </u>
has satisfactorily performed the practical	
Dr. B.A.M.U. Aurangabad.	
In Subject physics	Paper No. XVII - XXI
during the academic year 2019 -2020	
Exam Seat No. NAF663253	
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Professor in Charge	Head of the Department

#### Mrs. K.S.K. College, Beed.

DEPARTMENT OF physics

### **CERTIFICATE**

This is to ce	rtify that Shri/Sm	t. Ku. Dak	e Pallavi	Vishnu
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of Class	3.Sc 2nd year	Roll N	lo. <u>26</u>	
has satisfact	torily performed t	he practica	ls prescribed	d by the
Dr. B.A.M.U.	Aurangabad.			
In Subject	Physics		_Paper No.	X + XIV
during the ac	cademic year 20	19 -2020		
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**Professor in Charge** 

### Mrs. K.S.K. College, Beed.

DEPARTMENT OF Physics

### **CERTIFICATE**

This is to	certify tha	t Shri/Smt.	Ku.	Kshirsagar	Rutura	Chandrash-
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of Class <u>β. Sc. π<sup>nd</sup> yr.</u> Roll No. <u>gg</u>

has satisfactorily performed the practicals prescribed by the

Dr. B.A.M.U. Aurangabad.

In Subject Physics. Paper No. <u>[x] + xill</u>

during the academic year 20 19 -20 20

Exam Seat No. 2018 015 20049 2153

**Professor in Charge** 

#### Mrs. K.S.K. College, Beed.

DEPARTMENT OF Physics

#### CERTIFICATE

This is to certify that Shri/Smt. Ku. Ghadke yagila
Ramnarayan.
of Class B.S.C. Trad year Roll No
has satisfactorily performed the practicals prescribed by the
Dr. B.A.M.U. Aurangabad.
In Subject physics Paper No. X - TIV
during the academic year 2022 -20 23
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Exam Seat No. 2021615 200264344

Professor in Charge

#### Mrs. K.S.K. College, Beed.

DEPARTMENT OF Physics

## CERTIFICATE

This is to certify that Shri/Smt. Ku. Vidhya Bhagvat khose
of Class <u>R.Scnd.y</u> Roll No. <u>83</u> has satisfactorily performed the practicals prescribed by the
Dr. B.A.M.U. Aurangabad.  In SubjectphysicsPaper NoX-XIII  during the academic year 2022 -2023

Exam Seat No. 202101520026-5146

Professor in Charge

#### Mrs. K.S.K. College, Beed.

DEPARTMENT OF Physics

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This is to certify that Shri/Smt. Ku. Gaikwad Akanksha
Rajkumar
of Class BSC 15+ year Roll No. 143
has satisfactorily performed the practicals prescribed by the
Dr. B.A.M.U. Aurangabad.
In Subject Physics Paper No. 111+VI
In SubjectPhysicsPaper NoPaper No
during the academic year 2070 -207

**Professor in Charge** 

DABASAHEB AMBEDKAR MARATHWADA IIII

# Mrs. K.S.K. College, Beed.

DEPARTMENT OF Microbiology

This is to certify that Shri/Smt. Ku. Tambe Priyanka
n i lambe Priyanka
Rajendoa
of Class Msc II Year Roll No
has satisfactorily performed the practicals prescribed by the
Dr. B.A.M.U. Aurangabad.
In Subject Microbiology Paper No
during the academic year 2021 -2023
" " "
Exam Seat No. GVC301229
Que
Head Head
Dpt. of Microbiology
Head of the Management

## Mrs. K.S.K. College, Beed.

DEPARTMENT OF\_\_\_\_

## CERTIFICATE

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This is to certify that Shri/Sint. Ku. Pakhate RuPali
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of Class M SC I Year Roll No
has satisfactorily performed the practicals prescribed by the
Dr. B.A.M.U. Aurangabad.
In Subject Micromony Paper No
during the academic year 2022-2023
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Exam Seat No. GNC301220

Professor in Charge

Head Of Microbiologyment

## Mrs. K.S.K. College, Beed.

DEPARTMENT OF Microbiology

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of Class MSc IIndy	Roll No
has satisfactorily performed the	practicals prescribed by the
Dr. B.A.M.U. Aurangabad.	
In Subject Microbiology	Paper No
during the academic year 2020	
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	-2021 -VC301250

Head of the Dep

Professor in Charge

## Mrs. K.S.K. College, Beed.

DEPARTMENT OF Miczobiology

This is to certify that Shri/Sint. Ku. Muzalwaz Tegal
Shantanu
of Class M. sc. s.y Roll No
has satisfactorily performed the practicals prescribed by the
Dr. B.A.M.U. Aurangabad.
In Subject Microbiology Paper No
during the academic year 2022 -2023
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Head - Head
Dpt. of Microbiology
Professor in Charge Head of the Department

### Mrs. K.S.K. College, Beed.

DEPARTMENT OF MICROBIOLOGY

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This is to certify that Shri/Smt. I	Ku
ROMAN VIKAS NANABHAL	Ů
of Class Misc IInd year.	Roll No
has satisfactorily performed the	practicals prescribed by the
Dr. B.A.M.U. Aurangabad.	
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during the academic year 20 21	-2022.
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Professor in Charge

### Mrs. K.S.K. College, Beed.

DEPARTMENT OF Microbiology

## CERTIFICATE

This is to certify that Shrl/Smt. Ku	Saugli Rayindra
Kulkarni.	
of Class MSc (2nd yr) Sem-III F	Roll No
has satisfactorily performed the pra	acticals prescribed by the
Dr. B.A.M.U. Aurangabad.	
In Subject Mirrobiology	Paper No
during the academic year 2021 -20	022
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	Que.

ssor in Charge

#### Mrs. Kesharbai Sonajirao Kshirsagar

Alias Kaku Arts, Science & Commerce College, Beed

## DEPARTMENT OF MICROBIOLOGY Certificate

This is certify that Mr. Ruturaj Premraj Hadule of class M.Sc. First Year (II Semester ) Seat No.

has satisfactorily completed the practical work as laid down in the regulation of **Dr. Babasaheb Ambedkar Marathwada University Aurangabad.** During academic year **2018-2019** in subject of **Recent Trends In Virology** Paper No. V

Date:-

Practical Incharge

Head Head

Department of Microbiology

Examiner



## NavaganShikshanSansthaRajuri's(N) MRS. KESHARBAI SONAJIRAO KSHIRSAGAR ALIAS KAKU

Arts, Science and Commerce Collage, Beed.
ISO 9001-2015 Certified & NAAC Accredited A Grade

#### Department of Microbiology

#### CERTIFICATE

THIS IS CERTIFY THAT FOLLOWING STUDENT

HAVE SUCCESSFULLY COMPLETED Journal Of Microbiology

Using The Academic Year 2019-2020 In The Partial Fulfillment Towards The Complication Of M.Sc. Microbiology First Year(Sem- Ist)

SEAT NO: - CVAIDIZZI

DIVISION: -\_\_\_

DATE: - / /20

GRADE:-

Practical Incharge

Examiner

**Head Of Department** 

## Mrs. K.S.K. College, Beed.

DEPARTMENT OF Microbiology

## CERTIFICATE

This is to certify that Shri/Smt. K	a. Nisargandh shreya
Bhorat	
of Class M.sc I Year	_Roll No
has satisfactorily performed the	practicals prescribed by the
Dr. B.A.M.U. Aurangabad.	
In Subject Microbiology	Paper No
	-2022

Exam Seat No. GVA101254

Professor in Charge

Navgan Shikshan Santha Rajuri's(N)

#### MRS.KESHARBAI SONAJIRAO KSHIRSAGAR ALIAS KAKU

Arts, Science and Commerce College, Beed.
ISO 9001-2015 Certified & NAAC Accredited A Grade

#### CERTIFICATE

This is to certify that Miss. Babras Neha Prakashrao of M.Sc microbiology First Year, has satisfaction performed the entire practical of semester I Paper No. I entitled Biostatistics, Computer Application & Research Methodology during the academic year 2018-2019

Seat No.:- CVA101196

Date: - 03/12/2018

Place:- BEED

Practical Incharge

Head of Department

Microbblood

Dpt. of Microbiology Mrs. K.S.K. College Been

Examiner out 2 / 2018

#### Mrs. K.S.K. College, Beed.

DEPARTMENT OF Zoology

This is to certify that Shri/Smt. Ku. (nholap Sandhya
Balkrishna
of Class Biscittle rd year Roll No. 37
has satisfactorily performed the practicals prescribed by the
Dr. B.A.M.U. Aurangabad.
In Subject 20010gy Paper No. XVIII + XXII
during the academic year 2018 -2019
E O AND HOUSE CONTRACT
Exam Seat No. NAF 661649

#### Mrs. K.S.K. College, Beed.

DEPARTMENT OF 2001037

This is to certify that Shri/Smt. Ku. kshirsquar Mina Nogerh
of Class Bsc IInd Roll No. 74
has satisfactorily performed the practicals prescribed by the Dr.
B.A.M.U. Aurangabad.
In Subject Zoology Paper
No.
during the academic year 2019 -2019
Exam Seat No. NAD 463 794 1769
Exam Seat No. NAD403 194
Professor in Charge Head of the Department

#### Mrs. K.S.K. College, Beed.

DEPARTMENT OF Zoology.

This is to cert	ify that Shri/Smt. K	u. Girom	Angad	Lakshman
of Class	B.sc. III year	_Roll No	39	
has satisfacto	rily performed the	practicals pre	escribed by	y the Dr.
B.A.M.U. Aura				
In Subject	2001097	Pap	per XVIII	& XXII
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Professor in	Charge	Hea	d of the D	epartment

#### Mrs. K.S.K. College, Beed.

DEPARTMENT OF 2001097

### **CERTIFICATE**

This is to certify that Shri/Smt. Ku
Sutar Dhiraj Dhananjay
of Class
has satisfactorily performed the practicals prescribed by the
Dr. B.A.M.U. Aurangabad.
In Subject Fishery science - I Paper No. XVIII + XXII
during the academic year 2019 -2020
Exam Seat No. NAF 66 2097

Professor in Charge

### Mrs. K.S.K. College, Beed.

DEPARTMENT OF ZOOLOGY

#### **CERTIFICATE**

This is to certify that Shri/Smt. Ku. Galdher Kshirijq
5 h ivaji
of Class Bsc(T.Y) Roll No. 36
has satisfactorily performed the practicals prescribed by the
Dr. B.A.M.U. Aurangabad.
In Subject 2001097 Paper No. XVIII + XXII
during the academic year 2019 -2020
Exam Seat No. NAF661597

Professor in Charge

### Mrs. K.S.K. College, Beed.

DEPARTMENT OF Zoology.

#### **CERTIFICATE**

This is to certify that Shri/Smt. Ku. Arkade Prajakta Arus
of Class B.sc TT year Roll No. 2
has satisfactorily performed the practicals prescribed by the
Dr. B.A.M.U. Aurangabad.
In Subject Zoo (09) Paper No. XXI
during the academic year 20\3 -2020
Exam Seat No. NAD 46718

Professor in Charge

#### Mrs. K.S.K. College, Beed.

DEPARTMENT OF Zoology

### **CERTIFICATE**

This is to certify that Shri/Smt. Ku. Kadam pallavi		
Gorakh.		
of Class B.Sc.Ty. Roll No. 68		
has satisfactorily performed the practicals prescribed by the		
Dr. B.A.M.U. Aurangabad.		
In Subject 200 og y Paper No. Paper No.		
during the academic year 20 19 -2020		
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#### Mrs. K.S.K. College, Beed.

DEPARTMENT OF 201097

Surwase krushna pavnath This is to certify that Shri/Smt. Ku
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has satisfactorily performed the practicals prescribed by the
Dr. B.A.M.U. Aurangabad.
In Subject 2001097 (Fishery science-I) Paper No. XVIII + XXII
during the academic year 2019 -2020
Exam Seat No. MAF - 662092
Professor in Charge Head of the Department

### Mrs. K.S.K. College, Beed.

DEPARTMENT OF Zoology

This is to certify that Shri/Smt. Ku. Maske Sonali Bramhadatta		
of Class 8 SC: III Y Roll No. 97		
has satisfactorily performed the practicals prescribed by the		
Dr. B.A.M.U. Aurangabad.		
In Subject 200/097 Paper No. XVIII + XXII		
during the academic year 2019 -2020		
Exam Seat No. NAF 66 17 98		
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Professor in Charge Head of the Department		

#### Mrs. K.S.K. College, Beed.

DEPARTMENT OF Zoology

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This is to certify that Shri/Smt. Ku. Nate Hatshada Dilip		
of Class B.5c. That ye Roll No		
has satisfactorily performed the practicals prescribed by the Dr. B.A.M.U. Aurangabad.		
In Subject 20010gy Paper No. TX 4 XIII during the academic year 2020 -2021		
Exam Seat No. NAD 465412		

Professor in Charge

#### Mrs. K.S.K. College, Beed.

DEPARTMENT OF Zoology.

#### **CERTIFICATE**

This is to certify that Shri/Smt. Ku. Devale Athaova			
- Sakha Jam			
of Class BSc 2nd year Roll No. 30			
has satisfactorily performed the practicals prescribed by the			
Dr. B.A.M.U. Aurangabad.			
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#### Mrs. K.S.K. College, Beed.

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of Class Bsc II year Roll No. 63			
has satisfactorily performed the practicals prescribed by the			
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In Subject z∞logy Paper No. X+XIV			
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Professor in Charge

#### Mrs. K.S.K. College, Beed.

DEPARTMENT OF Zoology

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Professor in Charge

#### Mrs. K.S.K. College, Beed.

DEPARTMENT OF Zoology

#### **CERTIFICATE**

This is to certify that Shri/Smt. Ku. Anuzadha Bhazat			
Devkar			
of Class Msc. 1 st Roll No. 04			
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In Subject Genetics Paper No. 200 - 452			
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**Professor in Charge** 

#### Mrs. K.S.K. College, Beed.

DEPARTMENT OF Zoology

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Jogdand		
of Class Miscizoology second Roll No.		
of Class M·sc·zoology second Roll NoRoll No		
Dr. B.A.M.U. Aurangabad.		
In Subject Quantitative Biology Paper No. 200 - 502		
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Professor in Charge Head of the Department		

#### Mrs. K.S.K. College, Beed.

DEPARTMENT OF Zoology

### **CERTIFICATE**

This is to certify that Shri/Smt. Ku. komal Devrao				
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of Class M. T. I year zoology Roll No. 13'				
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Dr. B.A.M.U. Aurangabad.				
In Subject Helminthology -II Paper No. 200-431				
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**Professor in Charge** 

#### Mrs. K.S.K. College, Beed.

DEPARTMENT OF Zoology

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of Class M.sc. 1st Roll N	0. 04		
has satisfactorily performed the practicals prescribed by the Dr.			
B.A.M.U. Aurangabad.			
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Professor in Charge	Head of the Department		

#### Mrs. K.S.K. College, Beed.

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of Class M.ac . I' Roll No	-
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B.A.M.U. Aurangabad.	
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**Professor in Charge** 

### Mrs. K.S.K. College, Beed.

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Hyrkyde
of Class M. Se II24 ym Roll No.
has satisfactorily performed the practicals prescribed by the
Dr. B.A.M.U. Aurangabad.
In Subject Fishery Science I Paper No. 200543
during the academic year 2021 -2022
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Professor in Charge

## Mrs. K.S.K. College, Beed.

DEPARTMENT OF 7001097

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of Class MSC IT 2nd sem Roll No.
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Dr. B.A.M.U. Aurangabad.
In Subject Biophysics Paper No. 200-212
during the academic year 20 21 -20 22
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Professor in Charge Head of the Department

#### Mrs. K.S.K. College, Beed.

DEPARTMENT OF Zoology

#### **CERTIFICATE**

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of Class M.J. Tyear zoology Roll No. 13'
has satisfactorily performed the practicals prescribed by the
Dr. B.A.M.U. Aurangabad.
In Subject cell Biology & Paper No. 200-413
during the academic year 2018 -2019
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Professor in Charge

### Mrs. K.S.K. College, Beed.

DEPARTMENT OF Zoology

#### **CERTIFICATE**

This is to certify that Shri/Smt. Ku. Smita Bharat
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of Class MSc Istyeer / # sem Roll No.
has satisfactorily performed the practicals prescribed by the
Dr. B.A.M.U. Aurangabad.
In Subject Biophysics Paper No. 212-Zo
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Professor in Charge

#### Mrs. K.S.K. College, Beed.

DEPARTMENT OF	Zoology
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This is to certify that Shri/Smt. Ku. Patait Aditi Jagannath
of Class B.sc. F.Y. Roll No. 207
has satisfactorily performed the practicals prescribed by the
Dr. B.A.M.U. Aurangabad.
In SubjectPaper NoP
during the academic year 20 19 -20 20
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#### Mrs. K.S.K. College, Beed.

DEPARTMENT OF 2001847

#### **CERTIFICATE**

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HANUMAN
of Class M.Sc ZOO I Roll No
has satisfactorily performed the practicals prescribed by the
Dr. B.A.M.U. Aurangabad.
In Subject 20010gy Biophysis Paper No. 212
during the academic year 2024 -2022
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Professor in Charge

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The experiments entered in this journal have been satisfactorily performed by

Master/Miss Palwankar Arvind Abhimanyu
studying in Evolution & Animal behaviour
1985. K.S.K. College Beed School/ College
Class MSCII Z00/09 J Sem-III Roll No.
during the academic year 2019-2020
Seat NO. (2C 301108
Teacher's signature HOO Principal's signature
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### Mrs. K.S.K. College, Beed.

DEPARTMENT OF Zoology

### **CERTIFICATE**

This is to certify that Shri/Smt. Ku. Maske Sneha
Bramhadalta
of Class BSC TSt year Roll No.
has satisfactorily performed the practicals prescribed by the
Dr. B.A.M.U. Aurangabad.
In Subject 200 logy Paper No. TT + VI
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Professor in Charge

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DR BAMULO Auxangabad Adoption Date His is 5-19  M.Sc. Practical Texam May All March 1 April 2019  Mos. K.S.K. College Beed 1999 april 2019  M.Sc. It (IT Sem) (1992 VI) Practical based on 405 ) [D.S]  Paper No Brid (1998) (1
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### Dr. BAMU-Awangabad

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Department of Computer Science Practice 1 Examination OCT/NOV 2022
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Dept. OF Computer Science Practical Examination oct/Nov 2022
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Dr. BAMU Aurangabad

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Dept OF Computer Science
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Practical Examination March /April 2023
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Dr. BAIID Aurangabard
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Department of Computer Science
B.SC.F.Y. CIT SEM! Time: 09:00 am To 01:00
Paper no comp 121 & MP221 Morning Session (CED, OS, DE, Cprog.)

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Department of Computer Science
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Department OF Computer Science
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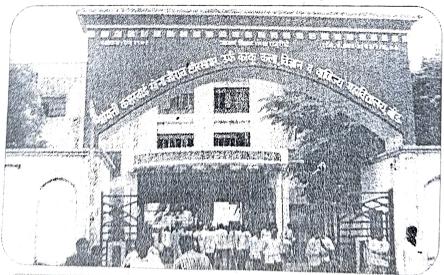


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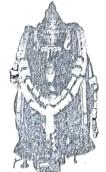


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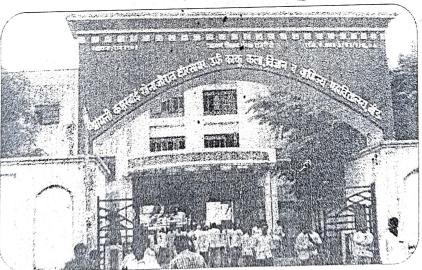


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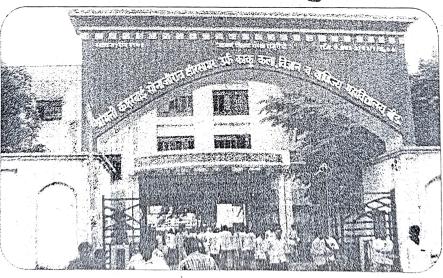
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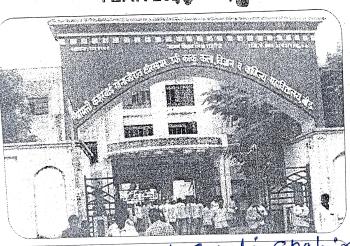
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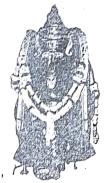
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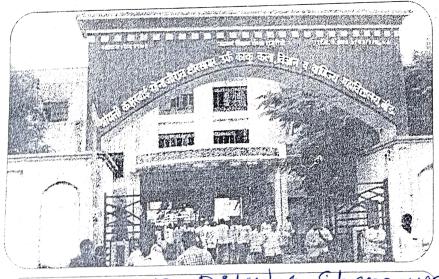


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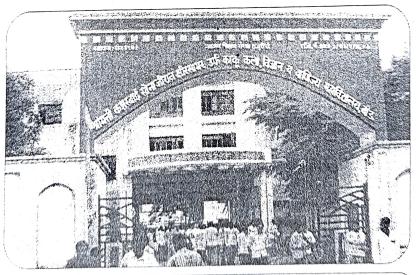
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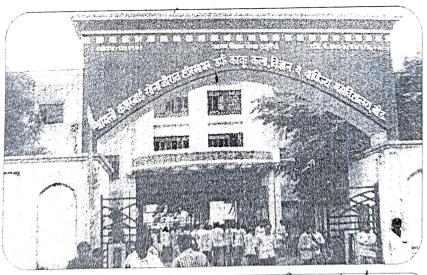
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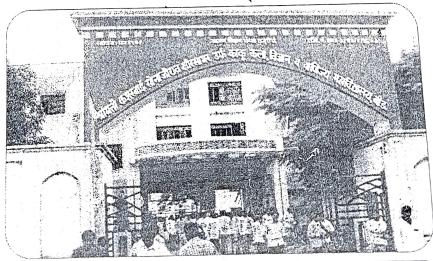
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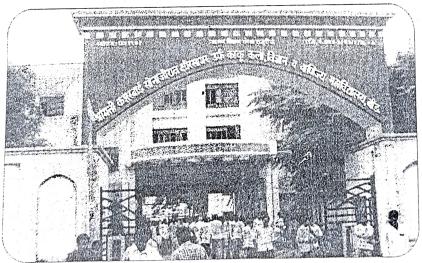


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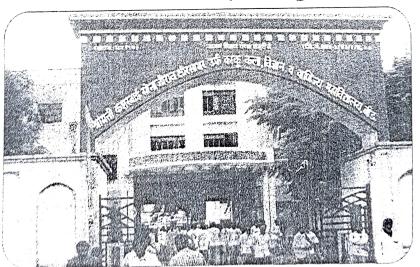
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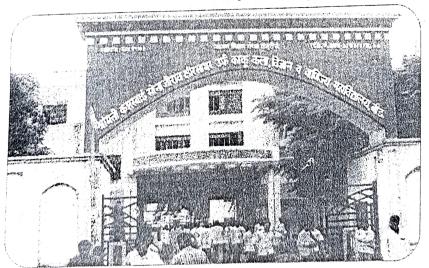
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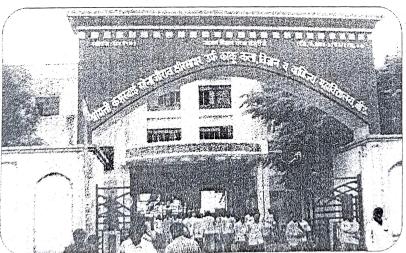
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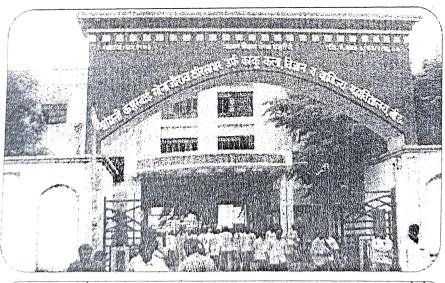
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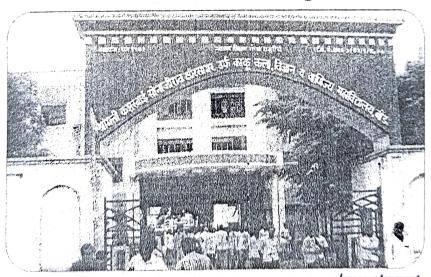
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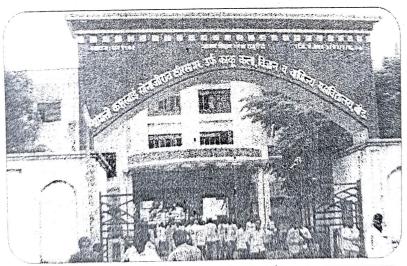
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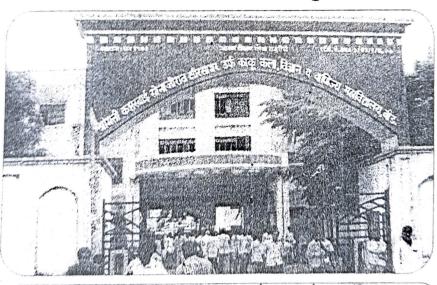
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Exam. Seat No. NBF604010

# Mrs. K. S. K. College, Beed.

Department of Geography

## CERTIFICATE

Date

## Mrs. K. S. K. College, Beed.

Department of Geography

## CERTIFICATE

# Mrs. K. S. K. College, Beed.

Date	Examined by Cope	Date / C Date	Lecture in Charge C NNN Head of the Department		during the academic year 20 -20	In Subject GROSTAPHY Paper, No.	prescribed by the Dr. B. A. M. U. Aurangabagy	Class & Tyde Roll No has satisfactorily performed the practicals	This is to certify that Shri/Smt./Ku. Panneshwar Machukar upale		CERTIFICATE		Department of Geography
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### prescribed by the Dr. B. A. M. U. Aurangabad In Subject Geography Paper No. Class B.A. S.Y Roll No. This is to certify that Shri/Smt./Ku. KIRAN SANTOSH KUDKE. Lecture in Charge Exam. Seat No. Examined by Mrs. K. S. K. College, Beed. Department of Geography CERTIFICATE has satisfactorily performed the practicals Date Head of the Department

# Mrs. K. S. K. College, Beed.

Department of Geography

# CERTIFICATE

This is to certify that Shri/Sht./Ku. Sonwane Akanksha Bhagwanrao  Class BA II year Roll No. has satisfactorily performed the practicals
1. b. Aurangahad
In Subject Geography Paper No.
during the academic year 20 to -20 th
Exam. Seat No. MBD 411462
Lecture in Charge Head of the Department
Date Date
Examined by
Date

#### Certificate

This is to Certifi that work in corporated in the Research Project "CANNED MUSHROOM" Submitted for the degree of master of Botany in department of Botany by Kale Kunal Kishorrao carried out by the candidate under my supervision and guidance. Such material obtained from other sources has been duly acknowledged in the Research Project.

I further declared that to the best of my knowledge and belief this work has not been submitted to this of any other college for the award of degree.

Date: - 22/05/2023

Plac: - Beed.

Dr. Santosh M. Talekar

HOD
Department of Botany
KSK College, Beed.

Guide.

Dr. Babasaheb Marathwada University, Aurangahad

#### CERTIFICATE

This is certified that the project report entitled

"Multipurpose Solar Sprayer" is a bonafied work of

Mr. Gaikwad Prashant Fulchandrao, who carried

out the work at Department of Botany, KSK

College, Beed. He has workedunder my guidance and the

project report partially fulfills the requirements for M.Sc.

Botany, Department of Botany, KSK College, Beed

Date: phy 2023

Place: Beed

Dr. Santosh M. Talekar

Head

(Dpartment Of Botany)

KSK College, Beed

. 0100 401312

#### Certificate

This is to Certifi that work in corporated in the Research Project "Genetic Improvement of Chickpea (Cicer arietinum L.) By Mutation Breeding" Submitted for the degree of master of Botany in department of Botany by Jadhav Hanuman Vaijenath carried out by the candidate under my supervision and guidance. Such material obtained from other sources has been duly acknowledged in the Research Project.

I further declared that to the best of my knowledge and belief this work has not been submitted to this of any other college for the award of degree.

Date :- 22(05/2023

Plac :- Beed.

Dr. Santosh M. Talekar

HOD
Department of Botany
KSK College, Beed.

# Certificate

This is to Certifi that work in corporated in the Research Project "STUDIES ON GENUS ALTERNARIA" Submitted for the degree of master of Botany in department of Botany by Siddhi Satish Raka carried out by the candidate under my supervision and guidance. Such material obtained from other sources has been duly acknowledged in the Research Project.

I further declared that to the best of my knowledge and belief this work has not been submitted to this of any other college for the award of degree.

Date: Mos ress

Plac :- Beed.

Guide.

Dr. Santosh M. Talekar

HOD
Department of Botany
KSK College, Beed.

## DR. BABASAHEB AMBEDKAR MARATHWADA UNIVERSITY, AURANGABAD.



#### CERTIFICATE

This is certified that work embodies in the project entitled. "Importance And Scope Of Fruit And Vegetables Preservation in India" being submitted by Mr. Dattatray Laxman Khandekar Dr. Babasaheb Ambedkar Marathwada University, Aurangabad award of Master Degree in botony project work carried out by him under my guidance and supervision, and has fulfilled the requirement fo the submission of this project to my knowledge, has reached requisite standard.

The result contatained in the project have not been submitted in part of in full to and other university or institude for the award of any degree or diploma.

Place: Beed

Date: @ 13/07/2022

(Dr. Santosh M. Talekar)

**Project Guide** 

**External Examinar** 

#### DR. BABASAHEB AMBEDKAR MARATHWADA UNIVERSITY, AURANGABAD



#### **CERTIFICATE**

This is certified that work embodies in the project entitled. "STUDIES ON WATERMELON DISEASES" being submitted by Mr. Dinesh Vishnu Jadhav Dr. Babasaheb Ambedkar Marathwada University, Aurangabad award of Master Degree in botony project work carried out by him under my guidance and supervision, and has fulfilled the requirement fo the submission of this project to my knowledge, has reached requisite standard.

The result contatained in the project have not been submitted in part of in full to and other university or institude for the award of any degee or diploma.

Date: 13107/2002

(Dr. Santosh M. Talekar)

Project Guide

External Examinar

This is to certify that work embodied in the project entitled, "WILD FLOWERS OF INDIA" being submitted by SHUBHANGI SHIVAJI KALE to the Dr.Babasaheb Ambedkar Marathwada University, Aurangabad award of master degree in botany project work carried out by him under my guidance and supervision and has fulfilled the requirements for the submission of this project to my knowledge, has reached requisite Standard.

The result contatained in this project thave not been submitted in part or in full to and other University or Institute for the award of any degree diploma.

Place :- Beed

Date: 06/06/2022

(Dr. Santosh M. Talekar)
Project Guide

**External Examinar** 



Class	M.Sc.	Ind
		-

Year 2019 - 20

This is to certify that the work entered in this Journal is the work of

Shri / Kumari Claveriya Tarannum Shaikh Zuber
of M.sc. II division [A] Roll No.
Uni. Exam No. <u>Coc-301080</u> has satisfactorily completed the
required number of practical and worked for the 1st term / 2nd term /
both the terms of the year 20 19 20 20 in the college laboratory
as laid down by the university.

Head of the Department

External

Internal Examiner Subject teacher

Date: / /20

Department of Botany



Class	M.Sc.	II.Ym

Year 2019 - 20

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Head of the Department External Examiner Internal Examiner Subject teacher

Date:

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Botany



Class M.Sc BOT Ist yr

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both the terms of the year 20 22 20 13 in the college laboratory				
as laid down by the	university.			

Head of the Department

External Examiner

Internal Examiner Subject teacher

Date: /

/20

Department of



Class	M.Sc BOT Ist	H	r	
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Year 2022 - 23

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of	division		
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both the terms of	the year 20 22	20 in the co	llege laboratory
as laid down by t	he university.		

Head of the Department

External Examiner

Internal Examiner Subject teacher

Date: / / 20 Department of

Class M.Sc. Botany II yr.

Year 2022 - 23

This is to certify that the work entered in this Journal is the work of

Shri / Kumari Akanksha Mahade	eo Dolas.
ofRoll No. 20	21015200593447
Uni. Exam No. GOD401310 has	s satisfactorily completed the
required number of practical and worke	d for the 1st term / 2nd term /
both the terms of the year 20 22 20 23 in	the school / college laboratory
as laid down by the university.	

Head of the Department

External Examiner

Internal Examiner Subject teacher

Date: 22/5/20 Department of Botany

This is to certify that work embodied in the project entitled. "LIFE CYCLE OF TULSI" Being submitted by Mr./Ms PRIYANKA GOVARDHAN GAVLI so the Dr. Babsaheb Ambedkar Marathwada University, award of master degree in botany project work carried out by him under mu guidance and supervision, and has fulfilled the requirements for the submission of this project to my knowledge has reached requisite standard.

The result contained in this project has not been submitted in part or in full to and other university of institute for the award of any degree or diploma.

Place: Beed

Date: 08/05/2019

Dr. Santosh M. Talekar

External Examiner



Year I year

This is to certify that the work entered in this Journal is the work of

Shri / Ku	imari <u>Bar</u>	sode R	ohit C	Rajabhau.
of	division	-	Roll No.	G00401306
Uni. Exan	n No	has sa	atisfactorily	completed the
required r	number of practica	l and worked for	or the 1st te	erm / 2nd term /
both the to	erms of the year 2	0 22 2023	_ in the co	ollege laboratory
as laid do	wn by the universi	ity.		

Head of the Department

Examiner

Internal Examiner Subject teacher

Date: W1 05/2023 Department of Botany



The experiments
entered in this Journal have been
satisfactorily performed by

Master/Miss _	Mehetre	Vivek	Sonjay
Studying in —	MSC	丑	Jeen Mrs
K.S.K	College. 1	3000	School/College
Class M.sc T	Tyv Div.		Roll No. (100401316
During the aca	demic year	20	22,23

Examiner's signature

Teacher's signature

Principal's signature

Date 22 05 23

School/College stamp

Class MSC 15t year

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of \_\_\_\_\_ division \_\_\_\_\_ Roll No. \_\_\_\_

Uni. Exam No. GOB201273 has satisfactorily completed the required number of practical and worked for the 1st term / 2nd term / both the terms of the year 20222 in the school / college laboratory

Head of the Department External

Internal Examiner Subject teacher

Date : 20 20 Department of

as laid down by the university.

Class N.Sc.	Yea	Tst	(II nd sem)	
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Shri / Kumari division	Vaishravi B	lasaheb		
of division	F	Roll No	_	
Uni. Exam No. 608 201265 has satisfactorily completed the				
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both the terms of the year 20 22 20 23 in the college laboratory				
as laid down by the university.				
Head of the Department	External Examiner		rnal Examiner oject teacher	

Date: 20/05/1202) Department of Botang.

lyo

Year 2019 - 20

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Shri / Kumari Judhav	Rohini Harri
of M.SC. Indy division	CA Roll No.
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both the terms of the year 20 19	2020 in the college laboratory
as laid down by the university.	

Head of the Department

External Examiner

Internal Examiner Subject teacher

Date:

/ /20

Department of Botany

Class BSC T.Y.

Year 2019 - 20

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Head of the Department

External Examiner Internal Examiner Subject teacher

Date: / /20 Department of

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of division	Roll No81			
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required number of practical and worked for the 1st term / 2nd term /				
both the terms of the year 20_20_3	20 in the college laboratory			
as laid down by the university.				
Head of the Department Start Exam	O. bis at tacabar			
Date: / /20 Depart	tment of			

Date: