



Rural Foundation Nandurbar Sanchalit Ph.No.- (02567)252820

# SENIOR SCIENCE COLLEGE, AKKALKUWA,

Tal. Akkalkuwa Dist. Nandurbar - 425415

Email- [rfnsseniorscienceakk@gmail.com](mailto:rfnsseniorscienceakk@gmail.com)

Affiliated to Kavayitri Bahinabai Chaudhari North Maharashtra University, Jalgoan

REF No.

Date-

## Declaration

This is to be declared that, reports of the supporting documents and data, etc., submitted in this file is verified and is correct as per the records. This declaration is for the purpose of NAAC accreditation of HEI for 2<sup>nd</sup> Cycle period 2018-19 to 2022-23.



Principal

Rural Foundation Nandurbar Sanchalit  
Senior Science College  
Akkalkuwa, Dist. Nandurbar

## **Evaluation Process to measure Attainment of COs, PSOs and POs**

### **Evaluation of Attainment of Course Outcomes (COs)**

Overall attainment of the COs is evaluated by the respective department. The method of evaluation of the COs is as follows.

1. Overall attainment of COs is measured directly in terms of performance of students in semester end examination conducted by the university.
2. After the declaration of university examination results, every department prepares programme wise and course wise result analysis report.
3. As per the pre-defined benchmarks, departments evaluate overall attainment level for all COs for each course. For example;
  - a. if, for a given course, 50% of enrolled students have scored  $\geq 50\%$  marks in final examination then overall attainment level of COs is said to be LEVEL-1 (lowest level rated with weight 1)
  - b. if, for a given course, 60% of enrolled students have scored  $\geq 50\%$  marks in final examination then overall attainment level of COs is said to be LEVEL-2 (with weight 2)
  - c. if, for a given course, 70% of enrolled students have scored  $\geq 50\%$  marks in final examination then overall attainment level of COs is said to be LEVEL-3 (highest level with weight 3).

### **Evaluation of Attainment of Programme Specific Outcomes (PSOs)**

Overall attainment of PSOs of a given programme is evaluated on the basis of attainment of the respective PSOs at department level. The departments evaluate attainment of PSOs on the basis of “Level of Attainment” of all corresponding COs and the overall performance of students in class tests, seminars, quizzes, home assignments, project assignments, semester end common test and students’ feedback on teaching, learning & evaluation.

### **Evaluation of Programme Outcomes (POs) Attainment**

The POs are the qualities that a graduates must have acquired at the time of completion of their programme. Thus at the end of each program, evaluation of attainment of POs is done from the COs and PSOs attainment of all subjects. Other key parameters considered for evaluation of attainment of POs are percentage of students due for degree, percentage of merits in university merit list, other achievements of the students and students’ feedback.

### **Review on attainment of COs, PSOs and POs**

Quantitative reports on overall attainment of COs and PSOs of all programmes are collected by IQAC so as to prepare attainment of corresponding POs.

Result analysis of semester end university examinations is discussed in Council of Heads, Staff Council and College Development Committee meetings. According to suggestions of authorities of the said committees IQAC initiated the action for further improvement

## Year 2020-21

### Evaluation Report about Attainment of Course Outcomes (Cos) and programme Outcomes (Pos)

1. The department evaluates attainment of Cos by direct assessment and PSOs by indirect assessment of student's performance.
2. Direct assessment includes semester and examination conducted by the university
3. Indirect assessment includes class tests mid semester examination, assignment, project assignment laboratory assignment viva voce and students feedback
4. The degree of attainment of CO/Pos are expressed in terms of attainment.

The benchmarks defined for measurement of attainment levels are

Level of Attainment (LOA) of Cos	Benchmark for attainment
LOA-1	50% of enrolled students have scored $\geq 50\%$ marks in final Examination
LOA-2	60% of enrolled students have scored $\geq 50\%$ marks in final Examination
LOA-3	70% of enrolled students have scored $\geq 50\%$ marks in final Examination

### Programme Name: B Sc

### Course Name: B Sc SEM-I Chemistry

#### Result Analysis of Semester End Examination

A- No. of Students those who have scored  $\geq 75\%$  marks

B- No. of Students those who have scored  $\geq 60\%$  marks but  $< 75\%$  marks

C- No. of Students those who have scored  $\geq 50\%$  marks but  $< 60\%$  marks

Paper	Appear	Pass	Percentage	A	B	C	D	E
I	52	45	86.53	37	6	2	-	-
II	52	42	80.76	36	3	3	-	-
Total	104	87	83.64	73	9	5	-	-

$$A+B+C=73+9+5=87$$

Therefore % of students those have scored  $\geq 50\%$  in final examination is  
 $= 87 \times 100 / 104 = 83.64\%$

**Course Name: B Sc SEM-II Chemistry****Result Analysis of Semester End Examination**

A-No. of Students those who have scored  $\geq 75\%$  marks

B- No. of Students those who have scored  $\geq 60\%$  marks but  $< 75\%$  marks

C- No. of Students those who have scored  $\geq 50\%$  marks but  $< 60\%$  marks

Paper	Appear	Pass	Percentage	A	B	C	D	E
I	52	40	76.92	32	5	3	-	-
II	52	39	75	34	3	2	-	-
Total	104	79	75.96	66	8	5	-	-

$$A+B+C=66+8+5=79$$

Therefore % of students those have scored  $\geq 50\%$  in final examination is =  
 $79 \times 100 / 104 = 75.96\%$

**Course Name: B Sc SEM-III Chemistry****Result Analysis of Semester End Examination**

A-No. of Students those who have scored  $\geq 75\%$  marks

B-No. of Students those who have scored  $\geq 60\%$  marks but  $< 75\%$  marks

C-No. of Students those who have scored  $\geq 50\%$  marks but  $< 60\%$  marks

Paper	Appear	Pass	Percentage	A	B	C	D	E
I	54	50	92.59	24	6	5	-	-
II	54	51	94.44	29	7	2	-	-
Total	108	101	93.51	53	13	7	-	-

$$A+B+C=53+13+7=73$$

Therefore % of students those have scored  $\geq 50\%$  in final examination is =  
 $101 \times 100 / 108 = 93.51\%$

**Course Name: B Sc SEM-IV Chemistry****Result Analysis of Semester End Examination**

A-No. of Students those who have scored  $\geq 75\%$  marks

B-No. of Students those who have scored  $\geq 60\%$  marks but  $< 75\%$  marks

C-No. of Students those who have scored  $\geq 50\%$  marks but  $< 60\%$  marks

Paper	Appear	Pass	Percentage	A	B	C	D	E
I	54	51	94.44	48	2	1	-	-
II	54	51	94.44	46	4	1	-	-
Total	108	102	94.44	94	6	2	-	-

$$A+B+C= 94+6+2=102$$

Therefore % of students those have scored  $\geq 50\%$  in final examination is =  
 $102 \times 100 / 108 = 94.44\%$

**Course Name: B Sc SEM-V Chemistry****Result Analysis of Semester End Examination**

A-No. of Students those who have scored  $\geq 75\%$  marks

B-No. of Students those who have scored  $\geq 60\%$  marks but  $< 75\%$  marks

C-No. of Students those who have scored  $\geq 50\%$  marks but  $< 60\%$  marks

Paper	Appear	Pass	Percentage	A	B	C	D	E
I	56	50	89.28	46	2	2	-	-
II	56	51	91.07	47	3	-	-	-
III	56	52	92.85	42	4	6	-	-
IV	56	54	96.42	43	6	7	-	-
V	56	54	96.42	41	4	8	-	-
VI	56	56	100	41	7	8	-	-
Total	336	317	94.34	260	26	31	-	-

$$A+B+C= 260+26+31=317$$

Therefore % of students those have scored  $\geq 50\%$  in final examination is  
 $= 317 \times 100 / 336 = 94.34\%$

**Course Name: B Sc SEM-VI Chemistry****Result Analysis of Semester End Examination**

A-No. of Students those who have scored  $\geq 75\%$  marks

B-No. of Students those who have scored  $\geq 60\%$  marks but  $< 75\%$  marks

C-No. of Students those who have scored  $\geq 50\%$  marks but  $< 60\%$  marks

Paper	Appear	Pass	Percentage	A	B	C	D	E
I	56	56	100	50	5	1	-	-
II	56	56	100	42	10	4	-	-
III	56	56	100	42	10	4	-	-
IV	56	56	100	48	5	3	-	-
V	56	56	100	49	5	2	-	-
VI	56	56	100	43	11	2	-	-
Total	336	336	100	274	46	16	-	-

$$A+B+C= 274+46+16=336$$

Therefore % of students those have scored  $\geq 50\%$  in final examination is  
 $= 336 \times 100 / 336 = 100\%$

### Attainment table for the Academic Session 2020-21

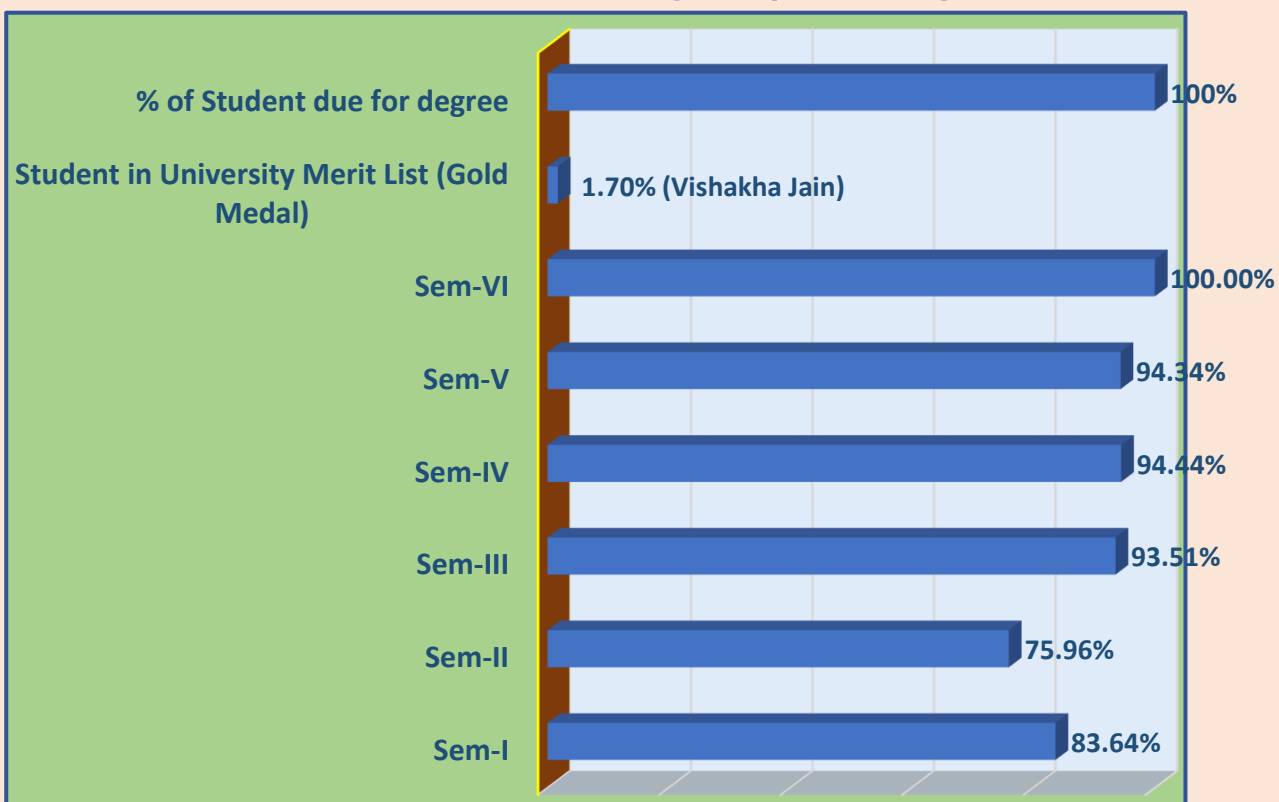
Subject	Course	% of enrolled students those have scored $\geq 50\%$ marks in the final examination(A+B+C) $\times 100$ / Appeared students	Cos Attainment Level as per benchmarks
BSc Chemistry	Sem-I	83.64	Level 3
	Sem-II	75.96	Level 3
	Sem-III	93.51	Level 3
	Sem-IV	94.44	Level 3
	Sem-V	94.34	Level 3
	Sem-VI	100	Level 3



*Patil*  
**Head**  
Department of Chemistry  
RFNS, Senior Science College,  
Akkalkuwa Dist-Nandurbar

**Evaluation of Attainment of COs, PSOs and POs Through result Analysis  
(2020-21)**

**Department of Chemistry  
Result Analysis (2020-21)**



*Patil*  
**Head**  
Department of Chemistry  
RFNS, Senior Science College,  
Akkalkuwa Dist-Nandurbar

## Botany Department

### Evaluation Report about Attainment of Course Outcomes (Cos) and programme Outcomes (Pos)

1. The department evaluates attainment of Cos by direct assessment and PSOs by indirect assessment of student's performance.
2. Direct assessment includes semester and examination conducted by the university
3. Indirect assessment includes class tests mid semester examination, assignment, project assignment laboratory assignment viva voce and students feedback
4. The degree of attainment of CO/Pos are expressed in terms of attainment.

The benchmarks defined for measurement of attainment levels are

Level of Attainment (LOA) of Cos	Benchmark for attainment
LOA-1	50% of enrolled students have scored $\geq 50\%$ marks in final Examination
LOA-2	60% of enrolled students have scored $\geq 50\%$ marks in final Examination
LOA-3	70% of enrolled students have scored $\geq 50\%$ marks in final Examination

### Course Name Botany SEM-I

#### Result Analysis of Semester End Examination

A-No. of Students those who have scored  $\geq 75\%$  marks

B-No. of Students those who have scored  $\geq 60\%$  marks but  $< 75\%$  marks

C-No. of Students those who have scored  $\geq 50\%$  marks but  $< 60\%$  marks

Paper	Appear	Pass	Percentage	A	B	C	D	E
I	52	50	96.15	48	2		-	-
II	52	50	96.15	49	1		-	-
Total	104	100	96.15	97	3		-	-

$$A+B+C= 97+3+0=97+3+0=100$$

Therefore % of students those have scored  $\geq 50\%$  in final examination is  $= 100 \times 100 / 104 = 96.15\%$



**Course Name Botany SEM- II****Result Analysis of Semester End Examination**

A-No. of Students those who have scored  $\geq 75\%$  marks

B-No. of Students those who have scored  $\geq 60\%$  marks but  $< 75\%$  marks

C-No. of Students those who have scored  $\geq 50\%$  marks but  $< 60\%$  marks

Paper	Appear	Pass	Percentage	A	B	C	D	E
I	52	52	100	51	1	-	-	-
II	52	52	100	52	-	-	-	-
Total	104	104	100	103	1	-	-	-

$$A+B+C= 103+1+0=104$$

Therefore % of students those have scored  $\geq 50\%$  in final examination is  $= 104 \times 100 / 104 = 100\%$

**Course Name Botany SEM-III****Result Analysis of Semester End Examination**

A-No. of Students those who have scored  $\geq 75\%$  marks

B-No. of Students those who have scored  $\geq 60\%$  marks but  $< 75\%$  marks

C-No. of Students those who have scored  $\geq 50\%$  marks but  $< 60\%$  marks

Paper	Appear	Pass	Percentage	A	B	C	D	E
I	54	54	100	52	2		-	-
II	54	54	100	53	1		-	-
Total	108	108	100	105	3		-	-

$$A+B+C= 105+3+0=108$$

Therefore % of students those have scored  $\geq 50\%$  in final examination is  $= 108 \times 100 / 108 = 100\%$

## Course Name Botany SEM-IV

### Result Analysis of Semester End Examination

A-No. of Students those who have scored  $\geq 75\%$  marks

B-No. of Students those who have scored  $\geq 60\%$  marks but  $< 75\%$  marks

C-No. of Students those who have scored  $\geq 50\%$  marks but  $< 60\%$  marks

Paper	Appear	Pass	Percentage	A	B	C	D	E
I	54	54	100	52	2		-	-
II	54	54	100	49	1	4	-	-
Total	108	108	100	101	3	4	-	-


$$A+B+C= 101+3+4=108$$

Therefore % of students those have scored  $\geq 50\%$  in final examination is  $= 108 \times 100 / 108 = 100\%$

### Attainment table for the Academic Session 2020-21

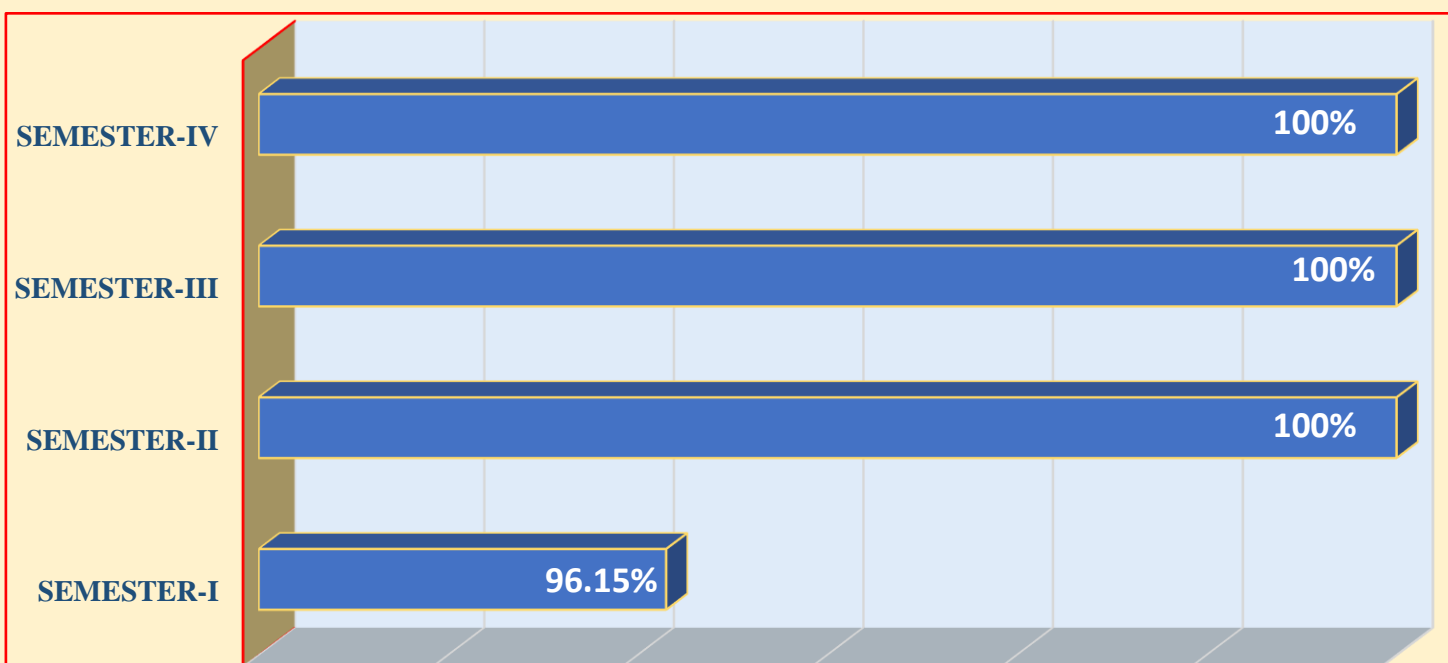
Subject	Course	% of enrolled students those have scored $\geq 50\%$ marks in the final examination $(A+B+C) \times 100 /$ Appeared students	Cos Attainment Level as per benchmarks
BSc Botany	Sem-I	96.15	Level 3
	Sem-II	100	Level 3
	Sem-III	100	Level 3
	Sem-IV	100	Level 3




  
Dr. Vinod R. Jogdand  
Head, Department of Botany  
RFNS, Senior Science College  
Akkalkuwa Dist. Nandurbar

**Evaluation of Attainment of COs, PSOs and POs Through result Analysis  
(2020-21)**

**Department of Botany  
Result Analysis (2020-21)**



  
**Dr. Vinod R. Jogdand**  
Head, Department of Botany  
RFNS, Senior Science College  
Akkalkuwa Dist. Nandurbar

## Zoology Department

### Evaluation Report about Attainment of Course Outcomes (Cos) and programme Outcomes (Pos)

1. The department evaluates attainment of Cos by direct assessment and PSOs by indirect assessment of student's performance.
2. Direct assessment includes semester and examination conducted by the university
3. Indirect assessment includes class tests mid semester examination, assignment, project assignment laboratory assignment viva voce and students feedback
4. The degree of attainment of CO/Pos are expressed in terms of attainment.

The benchmarks defined for measurement of attainment levels are

Level of Attainment (LOA) of Cos	Benchmark for attainment
LOA-1	50% of enrolled students have scored $\geq 50\%$ marks in final Examination
LOA-2	60% of enrolled students have scored $\geq 50\%$ marks in final Examination
LOA-3	70% of enrolled students have scored $\geq 50\%$ marks in final Examination

### Course Name Zoology SEM-I

#### Result Analysis of Semester End Examination

A-No. of Students those who have scored  $\geq 75\%$  marks

B-No. of Students those who have scored  $\geq 60\%$  marks but  $< 75\%$  marks

C-No. of Students those who have scored  $\geq 50\%$  marks but  $< 60\%$  marks

Paper	Appear	Pass	Percentage	A	B	C	D	E
I	52	48	86.53	45	3	-	-	-
II	52	48	86.53	41	4	3	-	-
Total	104	96	86.53	86	7	3	-	-

$$A+B+C = 86+7+3=96$$

Therefore % of students those have scored  $\geq 50\%$  in final examination is  
 $= 96 \times 100 / 104 = \mathbf{86.53\%}$

**Course Name Zoology SEM-II****Result Analysis of Semester End Examination**

A-No. of Students those who have scored  $\geq 75\%$  marks

B-No. of Students those who have scored  $\geq 60\%$  marks but  $< 75\%$  marks

C-No. of Students those who have scored  $\geq 50\%$  marks but  $< 60\%$  marks

Paper	Appear	Pass	Percentage	A	B	C	D	E
I	52	52	100	50	2	-	-	-
II	52	52	100	45	5	2	-	-
Total	104	104	100	95	7	2	-	-

$$A+B+C= 95+7+2=104$$

Therefore % of students those have scored  $\geq 50\%$  in final examination is  $= 104 \times 100 / 104 = 100\%$

**Course Name Zoology SEM-III****Result Analysis of Semester End Examination**

A-No. of Students those who have scored  $\geq 75\%$  marks

B-No. of Students those who have scored  $\geq 60\%$  marks but  $< 75\%$  marks

C-No. of Students those who have scored  $\geq 50\%$  marks but  $< 60\%$  marks

Paper	Appear	Pass	Percentage	A	B	C	D	E
I	15	15	100	15		-	-	-
II	15	15	100	12	3	-	-	-
Total	30	30	100	27	3	-	-	-

$$A+B+C= 27+3+0=30$$

Therefore % of students those have scored  $\geq 50\%$  in final examination is  $= 30 \times 100 / 30 = 100\%$

## Course Name Zoology SEM-IV

### Result Analysis of Semester End Examination

A-No. of Students those who have scored  $\geq 75\%$  marks

B-No. of Students those who have scored  $\geq 60\%$  marks but  $< 75\%$  marks

C-No. of Students those who have scored  $\geq 50\%$  marks but  $< 60\%$  marks

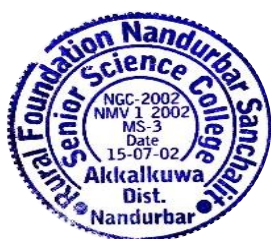
Paper	Appear	Pass	Percentage	A	B	C	D	E
I	15	11	73.33	10	1	-	-	-
II	15	12	80	9	2	1	-	-
Total	30	23	76.66	19	3	-	-	-


$$A+B+C= 19+3+1=23$$

Therefore % of students those have scored  $\geq 50\%$  in final examination is  $= 23 \times 100 / 30 = 76.66\%$

Attainment table for the Academic Session 2020-21

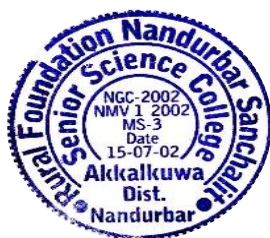
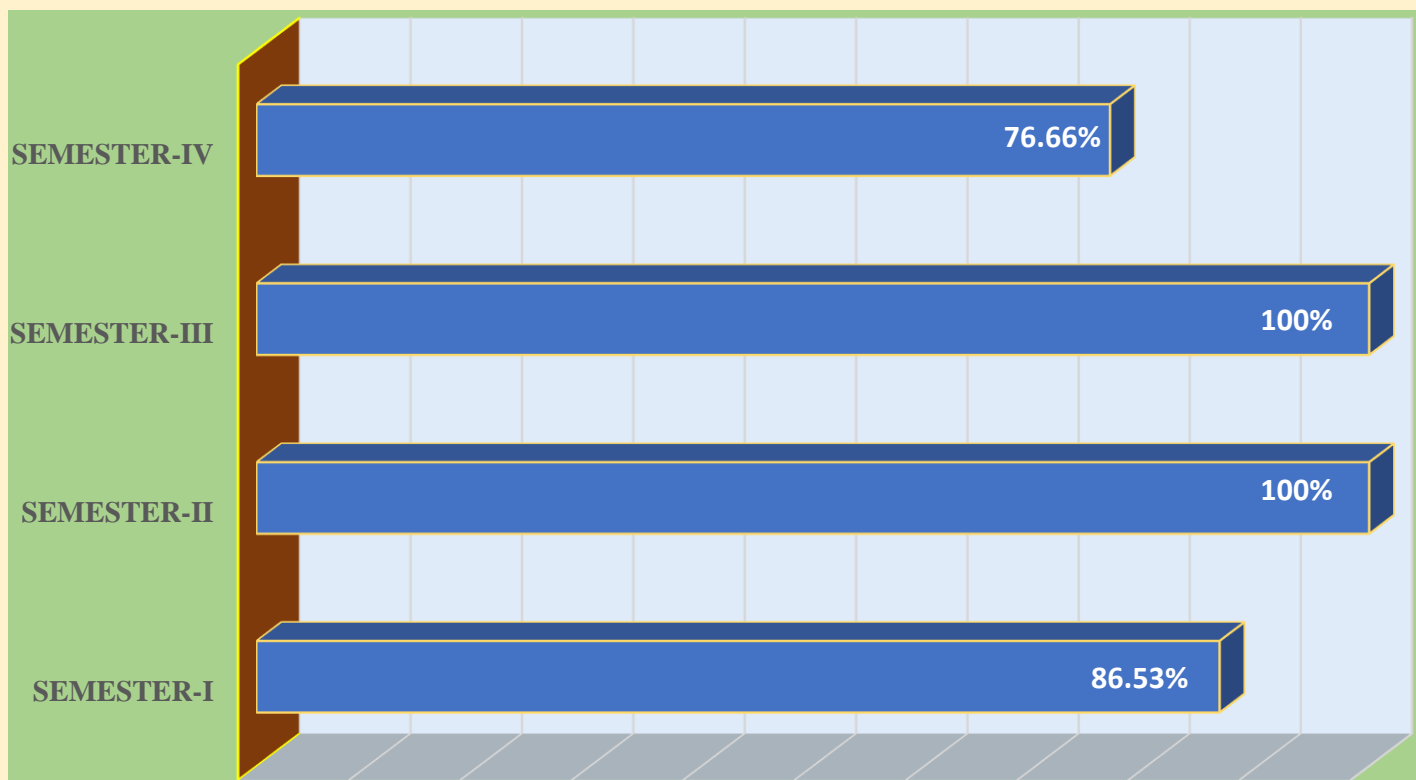
Subject	Course	% of enrolled students those have scored $\geq 50\%$ marks in the final examination $(A+B+C) \times 100 / \text{Appeared students}$	Cos Attainment Level as per benchmarks
BSc Zoology	Sem-I	86.53	Level 3
	Sem-II	100	Level 3
	Sem-III	100	Level 3
	Sem-IV	76.66	Level 3




  
Dr. M Zuber Shaikh  
Head, Department of Zoology  
RFNS, Senior Science College,  
Akkalkuwa, Dist. Nandurbar (M.S.)

**Evaluation of Attainment of COs, PSOs and POs Through result Analysis  
(2020-21)**

**Department of Zoology  
Result Analysis (2020-21)**



  
**Dr. M Zuber Shaikh**  
Head, Department of Zoology  
RFNS, Senior Science College,  
Akkalkuwa, Dist. Nandurbar (M.S.)

## Geography Department

### Evaluation Report about Attainment of Course Outcomes (Cos) and programme Outcomes (Pos)

1. The department evaluates attainment of Cos by direct assessment and PSOs by indirect assessment of student's performance.
2. Direct assessment includes semester and examination conducted by the university
3. Indirect assessment includes class tests mid semester examination, assignment, project assignment laboratory assignment viva voce and students feedback
4. The degree of attainment of CO/Pos are expressed in terms of attainment.

The benchmarks defined for measurement of attainment levels are

Level of Attainment (LOA) of Cos	Benchmark for attainment
LOA-1	50% of enrolled students have scored $\geq 50\%$ marks in final Examination
LOA-2	60% of enrolled students have scored $\geq 50\%$ marks in final Examination
LOA-3	70% of enrolled students have scored $\geq 50\%$ marks in final Examination

### Course Name Geography SEM-I

#### Result Analysis of Semester End Examination

A-No. of Students those who have scored  $\geq 75\%$  marks

B-No. of Students those who have scored  $\geq 60\%$  marks but  $< 75\%$  marks

C-No. of Students those who have scored  $\geq 50\%$  marks but  $< 60\%$  marks

Paper	Appear	Pass	Percentage	A	B	C	D	E
I	52	52	100	48	4		-	-
II	52	51	98.07	44	4	3	-	-
Total	104	103	99.03	92	8	3	-	-

$$A+B+C= 92+8+3=103$$

Therefore % of students those have scored  $\geq 50\%$  in final examination is  $= 103 \times 100 / 104 = 99.03\%$



### **Course Name Geography SEM-II**

#### **Result Analysis of Semester End Examination**

A-No. of Students those who have scored  $\geq 75\%$  marks

B-No. of Students those who have scored  $\geq 60\%$  marks but  $< 75\%$  marks

C-No. of Students those who have scored  $\geq 50\%$  marks but  $< 60\%$  marks

Paper	Appear	Pass	Percentage	A	B	C	D	E
I	66	63	95.45	54	6	3	-	-
II	66	63	95.45	55	5	3	-	-
Total	132	126	95.45	109	11	6	-	-

$$A+B+C= 109+11+6=126$$

Therefore % of students those have scored  $\geq 50\%$  in final examination is  $=$   
 $126 \times 100 / 132 = \mathbf{95.45\%}$

### **Course Name Geography SEM-III**

#### **Result Analysis of Semester End Examination**

A-No. of Students those who have scored  $\geq 75\%$  marks

B-No. of Students those who have scored  $\geq 60\%$  marks but  $< 75\%$  marks

C-No. of Students those who have scored  $\geq 50\%$  marks but  $< 60\%$  marks

Paper	Appear	Pass	Percentage	A	B	C	D	E
I	39	39	100	36	3	-	-	-
II	39	39	100	33	6	-	-	-
Total	78	78	100	69	9	-	-	-

$$A+B+C= 69+9+0=78$$

Therefore % of students those have scored  $\geq 50\%$  in final examination is  $=$   
 $78 \times 100 / 78 = \mathbf{100\%}$

### Course Name Geography SEM-IV

#### Result Analysis of Semester End Examination

A-No. of Students those who have scored  $\geq 75\%$  marks

B-No. of Students those who have scored  $\geq 60\%$  marks but  $< 75\%$  marks

C-No. of Students those who have scored  $\geq 50\%$  marks but  $< 60\%$  marks

Paper	Appear	Pass	Percentage	A	B	C	D	E
I	39	39	100	37	2	-	-	-
II	39	39	100	36	3	-	-	-
Total	78	78	100	73	5	-	-	-

$$A+B+C = 73+5=78$$

Therefore % of students those have scored  $\geq 50\%$  in final examination is  $= 78 \times 100 / 78 = 100\%$

#### Attainment table for the Academic Session 2020-21

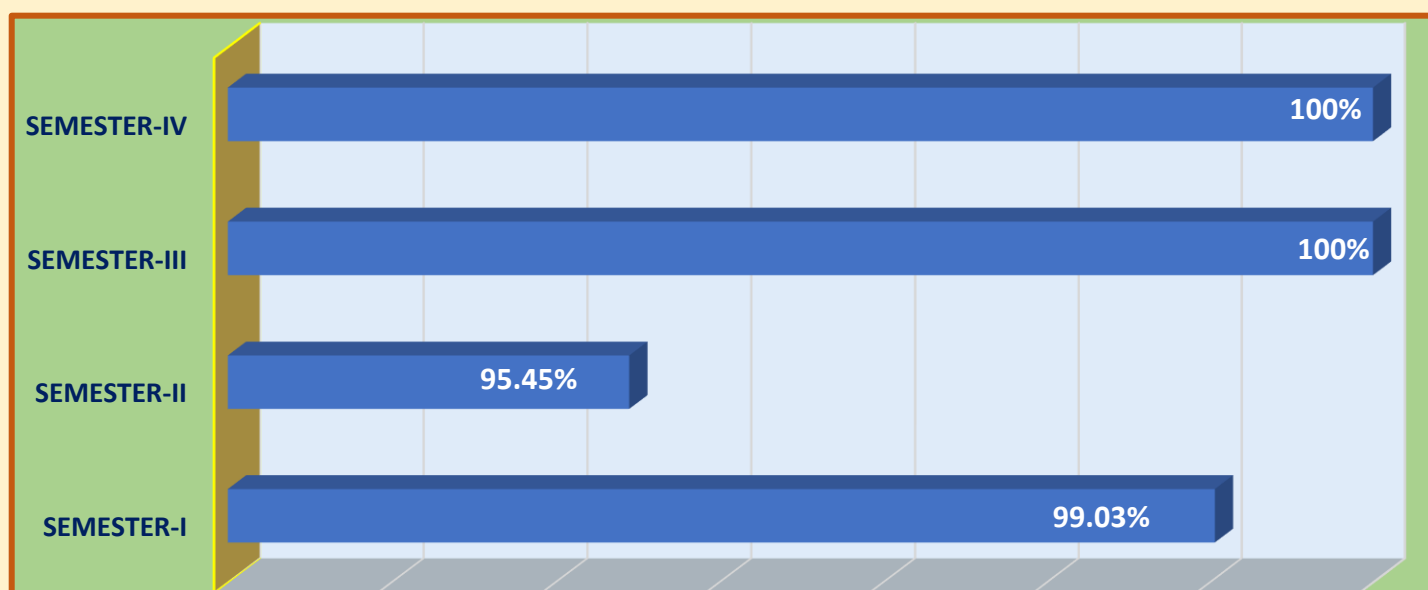
Subject	Course	% of enrolled students those have scored $\geq 50\%$ marks in the final examination $(A+B+C) \times 100 / \text{Appeared students}$	Cos Attainment Level as per benchmarks
BSc Geography	Sem-I	99.03	Level 3
	Sem-II	95.45	Level 3
	Sem-III	100	Level 3
	Sem-IV	100	Level 3



*Grede*  
Head  
Department of Geography  
RFNS, Senior Science College  
Akkalkuwa Dist. Nandurbar

**Evaluation of Attainment of COs, PSOs and POs Through result Analysis  
(2020-21)**

**Department of Geography  
Result Analysis (2020-21)**



  
**Head**  
**Department of Geography**  
**RFNS, Senior Science College**  
**Akkalkuwa Dist. Nandurbar**