



V.S.R GOVERNMENT DEGREE & P.G COLLEGE
MOVVA-521 135 KRISHNA DISTRICT, ANDHRA PRADESH
NAAC Accredited With “A” Grade (3.01 CGPA)
ISO 9001:2015, 14001:2015, 5001:2011 Certified Institution
(Affiliated to Krishna University)



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CO-PO ATTAINMENT

Attainment of the COs is measured directly and indirectly. Direct attainment displays the student's knowledge and skills from their performance in all the relevant assessment tools like internal exams, assignments, quiz, seminars and Sem End examinations.

Indirect methods such as Course End Surveys and Programme End Surveys ask the students to reflect on their learning. This feedback helps us to identify areas where we need to improve and also guide them in their future learning strategies and academic choices.

Internal assessment contributes 20% and Sem End Examinations assessment contributes 80% to the total attainment of a CO. After measuring CO attainment for a course, CO-PO mapping table will give Program Outcome attainment levels.

DEPARTMENT OF CHEMISTRY

Programme : B.Sc. BTBC (Botany, Bio Technology ,Chemistry)

Academic Year 2020-21 to 2023

CO-PO Mapping , CO Attainment Table, PO Attainment., and Action Taken Report is provided for one Programme BTBC.

KRISHNA University			COs are given equal weightage in all the TWO Internal Tests (CIE) /Semester End Examinations (SEE)													
SEMESTER - 1 EXAMINATION 2020-21 (BTBC)			Benchmark for CO (0.75*Average CO Mark)	CIE	SEE											
Question Paper OBE ANALYSIS				16	30	Target	Attainment Level									
Course Name : INORGANIC AND PHYSICAL CHEMISTRY			No. of Students Above Bechmark	8	8	>=60%	3									
Course Code : 1003CHE 15		Max Marks :100	CO Attainment %	100	100	>=50%	2									
	CIE	SEE	Attainment Level	3	3	>=40%	1									
Question	All Questions	All Questions	Final CO Attainment Level	3												
Blooms Level	L3	L3,L4,L5														
Course Outcome	CO 1, 2, 3, 4, 5	CO 1, 2, 3, 4, 5		CIE	SEE	FINAL	PO1	PO2	P03	P04	P05	P06	P07	P08	P09	PSO1
	Max Marks	25	75	CO1	3	3	3	3	3	3					1	
1	2029223044004	24	31	CO2	3	3	3	3	3					2		
2	2029223044005	24	56	CO3	3	3	3	3	3					1		
3	2029223044006	20	40	CO4	3	3	3	3	3					2		
4	2029223044009	25	47	CO5	3	3	3	3	3					2		
5	2029223044011	20	41				3	3						1.6		
6	2029223044013	23	35				3	3		PO ATTAINMENT LEVEL = 2.53						
7	2029223044017	25	67													
8	2029223044019	25	52													

KRISHNA University			COs are given equal weightage in all the TWO Internal Tests (CIE) /Semester End Examinations (SEE)													
SEMESTER - 2 EXAMINATION 2020-21(BTBC)			Benchmark for CO (0.75*Average CO Mark)	CIE	SEE											
Question Paper OBE ANALYSIS				16	30	Target		Attainment Level								
Course Name : ORGANIC CHEMISTRY AND GENERAL CHEMISTRY			No. of Students Above Bechmark	8	7	>=60%		3								
Course Code : 200CHE20			Max Marks :100	CO Attainment %	100	88	>=50%		2							
			Attainment Level	3	3	>=40%		1								
Question	All Questions	All Questions	Final CO Attainment Level	3												
Blooms Level	L3	L3,L4,L5														
Course Outcome	CO 1, 2, 3, 4, 5	CO 1, 2, 3, 4, 5	CO1	CIE	SEE	FINAL	PO1	PO2	P03	P04	P05	P06	P07	P08	P09	
Max Marks	25	75	CO2	3	3	3	2	3	1			3			3	
1 2029223044004	23	0	CO3	3	3	3	3	1	1			3			3	
2 2029223044005	25	38	CO4	3	3	3	1	1	1			3			3	
3 2029223044006	25	43	CO5	3	3	3	3	1	1			3			3	
4 2029223044009	25	39	CO-PO Mapping				2	2	1			3			3	
5 2029223044011	17	30	PO Attainment				2	2	1			3			3	
6 2029223044013	23	33	PO ATTAINMENT LEVEL = 2.2													
7 2029223044017	24	32														
8 2029223044019	25	32														

KRISHNA University			COs are given equal weightage in all the TWO Internal Tests (CIE) /Semester End Examinations (SEE)													
SEMESTER - 3 EXAMINATION 2020-21(BTBC)			Benchmark for CO (0.75*Average CO Mark)	CIE	SEE											
Question Paper OBE ANALYSIS				16	30											
Course Name : ORGANIC CHEMISTRY AND SPECTRUSCOPY			No. of Students Above Bechmark	8	7											
Course Code : 3003CHE 15		Max Marks :100	CO Attainment %	100	88											
		CIE	SEE	Attainment Level	3	3										
Question		All Questions	All Questions	Final CO Attainment Level	3											
Blooms Level		L3	L3,L4,L5													
Course Outcome		CO 1, 2, 3, 4, 5	CO 1, 2, 3, 4, 5		CIE	SEE	FINAL	PO1	PO2	P03	P04	P05	P06	P07	P08	P09
	Max Marks	25	75	CO1	3	3	3	2	3	2			3	3		
1	2029223044004	20	0	CO2	3	3	3	3	1	2			3	3		
2	2029223044005	20	41	CO3	3	3	3	1	1	2			3	3		
3	2029223044006	21	41	CO4	3	3	3	3	1	2			3	3		
4	2029223044009	25	59	CO-PO Mapping				2	2	2			3	3		
5	2029223044011	22	30	PO Attainment				2	2	2			3	3		
6	2029223044013	24	32													
7	2029223044017	23	39													
8	2029223044019	23	47													

Target	Attainment Level
>=60%	3
>=50%	2
>=40%	1

PO ATTAINMENT LEVEL = 2.4

KRISHNA University			COs are given equal weightage in all the TWO Internal Tests (CIE) /Semester End Examinations (SEE)														
SEMESTER - 4 EXAMINATION 2020-21 (BTBC)			Benchmark for CO (0.75*Average CO Mark)	CIE	SEE												
Question Paper OBE ANALYSIS				15	30	Target		Attainment Level									
Course Name :INORGANIC ORGANIC AND PHYSICAL CHEMISTRY			No. of Students Above Bechmark	7	6	>=60%		3									
Course Code : 4003CHE 15 A			Max Marks :100	CO Attainment %	88	75	>=50%		2								
			Attainment Level	3	3	>=40%		1									
Question	All Questions	All Questions	Final CO Attainment Level	3													
Blooms Level	L3	L3,L4,L5															
Course Outcome	CO 1, 2, 3, 4, 5	CO 1, 2, 3, 4, 5	CO1	CIE	SEE	FINAL	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9		
			CO2	3	3	3	2	3	2	2		3	3				
1	2029223044004	12	32	3	3	3	3	1	2	2		3	3				
2	2029223044005	22	44	3	3	3	1	1	2	2		3	3				
3	2029223044006	18	49	3	3	3	3	1	2	2		3	3				
4	2029223044009	25	36		3	3	3	2	2	2		3	3				
5	2029223044011	21	5	3				#REF!			PO ATTAINMENT LEVEL = 3						
6	2029223044013	23	5														
7	2029223044017	22	36														
8	2029223044019	21	30														

KRISHNA University			COs are given equal weightage in all the two Internal Tests (CIE) /Semester End Examinations (SEE)														
SEMESTER - 4 EXAMINATION 2020-21 (BTBC)			Benchmark for CO (0.75*Average CO Mark)	CIE	SEE												
Question Paper OBE ANALYSIS				16	30	Target	Attainment Level										
Course Name : INORGANIC AND PHYSICAL CHEMISTRY			No. of Students Above Bechmark	8	4	>=60%	3										
Course Code : 4003CHE15B		Max Marks :100	CO Attainment %	100	50	>=50%	2										
		CIE	SEE	Attainment Level	3	1	>=40%	1									
Question	All Questions	All Questions	Final CO Attainment Level	2													
Blooms Level	L3	L3,L4,L5															
Course Outcome	CO 1, 2, 3, 4, 5	CO 1, 2, 3, 4, 5		CIE	SEE	FINAL	PO1	PO2	P03	P04	P05	P06	P07	P08	P09		
1	2029223044004	16	18	CO1	3	1	2	2	3	2		2	2	2			
2	29223044005	23	13	CO3	3	1	2	1	1	2		2	2	2			
3	29223044006	23	33	CO4	3	1	2	3	1	2		2	2	2			
4	29223044009	25	40	CO5	3	1	2	2	1	2		2	2	2			
5	29223044011	17	35	CO-PO Mapping				2	1	2		2	2	2	2		
6	29223044013	21	30	PO Attainment				2	2	2		PO ATTAINMENT LEVE			2		
7	29223044017	24	14														
8	29223044019	24	12														

KRISHNA University			COs are given equal weightage in all the two Internal Tests (CIE) /Semester End Examinations (SEE)													
SEMESTER - 6 EXAMINATION 2020-21 (BTBC)			Benchmark for CO (0.75*Average CO Mark)	CIE	SEE											
Question Paper OBE ANALYSIS				15	30	Target	Attainment Level									
Course Name : ANALYTICAL METHODS IN CHEMISTRY 6B			No. of Students Above Bechmark	6	8	>=60%	3									
Course Code 6003CHE20 6B Max Marks :100			CO Attainment %	75	100	>=50%	2									
			Attainment Level	3	3	>=40%	1									
Question			All Questions	All Questions	Final CO Attainment Level	3										
Blooms Level			L3	L3,L4,L5												
Course Outcome			CO 1, 2, 3, 4, 5	CO 1, 2, 3, 4, 5	CIE	SEE	FINAL	PO1	PO2	P03	P04	P05	P06	P07	P08	P09
			Max Marks	25	75	CO1	3	3	3	2	3			2	2	
1	2029223044004		14	36	CO2	3	3	3	3	1			2	2		
2	2029223044005		22	35	CO3	3	3	3	1	1			2	6		
3	2029223044006		20	45	CO4	3	3	3	3	1			2	2		
4	2029223044009		24	45	CO5	3	3	3	2	1			2	2		
5	2029223044011		10	30	CO-PO Mapping				2	1			2	2		
6	2029223044013		22	30	PO Attainment				3	3			2	2		
7	2029223044017		22	36												
8	2029223044019		23	32												

KRISHNA University			COs are given equal weightage in all the two Internal Tests (CIE) /Semester End Examinations (SEE)													
SEMESTER - 6 EXAMINATION 2020-21 (BTBC)			Benchmark for CO (0.75*Average CO Mark)	CIE	SEE											
Question Paper OBE ANALYSIS				15	30	Target	Attainment Level									
Course Name : ANALYTICAL METHODS IN CHEMISTRY 7B			No. of Students Above Bechmark	6	7	>=60%	3									
Course Code : 6003CHE20 7B Max Marks :100			CO Attainment %	75	88	>=50%	2									
			Attainment Level	3	3	>=40%	1									
Question			All Questions	All Questions	Final CO Attainment Level	3										
Blooms Level			L3	L3,L4,L5												
Course Outcome			CO 1, 2, 3, 4, 5	CO 1, 2, 3, 4, 5	CIE	SEE	FINAL	PO1	PO2	PO3	P04	P05	P06	P07	P08	P09
			Max Marks	25	75	CO1	3	3	3	2	3	2			2	
1	2029223044004		10	18	CO2	3	3	3	3	1	2			2		
2	2029223044005		23	57	CO3	3	3	3	1	1	2			2		
3	2029223044006		20	47	CO4	3	3	3	3	1	2			2		
4	2029223044009		24	41	CO5	3	3	3	2	1	2			2		
5	2029223044011		10	30	CO-PO Mapping				2	1	2			2		
6	2029223044013		24	39	PO Attainment				3	3	2			2		
7	2029223044017		23	49												
8	2029223044019		23	47												

CO ATTAINMENT LEVEL FOR SEM I 2020-21 BTBC

Cos	CO Attainment Level(INTERNAL)	CO Attainment Level(EXTERNAL)	DIRECT CO Attainment Level =INTERNAL 25%+External 75%	Indirect CO AL	Total CO ATL Direct COATL=80%+20%Indirect ATL
CO 1	3	3	$0.75+2.25=3$	3	$2.4+0.6 =3$
CO2	3	3	$0.75+2.25=3$	3	$2.4+0.6 =3$
CO3	3	3	$0.75+2.25=3$	3	$2.4+0.6 =3$
CO4	3	3	$0.75+2.25=3$	3	$2.4+0.6 =3$
CO5	3	3	$0.75+2.25=3$	3	$2.4+0.6 =3$

FINAL CO ATL =3

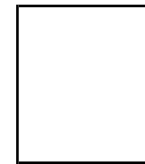
CO ATTAINMENT LEVEL FOR SEM II 2020-21 BTBC

Cos	CO Attainment Level(INTERNAL)	CO Attainment Level(EXTERNAL)	DIRECT CO Attainment Level =INTERNAL	Indirect CO AL	Total CO ATL Direct COATL=80%+20%Indirect ATL
CO 1	3	3	$0.75+2.25=3$	3	$2.4+0.6 =3$
CO2	3	3	$0.75+2.25=3$	3	$2.4+0.6 =3$
CO3	3	3	$0.75+2.25=3$	3	$2.4+0.6 =3$
CO4	3	3	$0.75+2.25=3$	3	$2.4+0.6 =3$
CO5	3	3	$0.75+2.25=3$	3	$2.4+0.6 =3$

FINAL CO ATL =3

CO ATTAINMENT LEVEL FOR SEM III 2020-21 BTBC

Cos	CO Attainment Level (INTERNAL)	CO Attainment Level (EXTERNAL)	DIRECT CO Attainment Level =INTERNAL 25%+External 75%	Indirect CO AL	Total CO ATL Direct COATL=80%+20%Indirect ATL
CO 1	3	3	$0.75+2.25=3$	3	$2.4+0.6=3$
CO2	3	3	$0.75+2.25=3$	3	$2.4+0.6=3$
CO3	3	3	$0.75+2.25=3$	3	$2.4+0.6=3$
CO4	3	3	$0.75+2.25=3$	3	$2.4+0.6=3$
CO5	3	3	$0.75+2.25=3$	3	$2.4+0.6=3$



FINAL CO ATL =3

CO ATTAINMENT LEVEL FOR SEM IV 2020-21 BTBC

Cos	CO Attainment Level (INTERNAL)	CO Attainment Level (EXTERNAL)	DIRECT CO Attainment Level =INTERNAL	Indirect CO AL	Total CO ATL Direct COATL=80%+20%Indirect ATL
CO 1	3	3	$0.75+2.25=3$	3	$2.4+0.6=3$
CO2	3	3	$0.75+2.25=3$	3	$2.4+0.6=3$
CO3	3	3	$0.75+2.25=3$	3	$2.4+0.6=3$
CO4	3	3	$0.75+2.25=3$	3	$2.4+0.6=3$
CO5	3	3	$0.75+2.25=3$	3	$2.4+0.6=3$

FINAL CO ATL =3

CO ATTAINMENT LEVEL FOR SEM IV PAPER V 2020-21 BTBC

Cos	CO Attainment Level(INTERNAL)	CO Attainment Level(EXTERNAL)	DIRECT CO Attainment Level =INTERNAL 25%+External 75%	Indirect CO AL	Total CO ATL Direct COATL=80%+20%Indirect ATL
CO 1	3	1	$0.75+0.75=1.5$	3	$1.2+0.6=1.8$
CO2	3	1	$0.75+0.75=1.5$	3	$1.2+0.6=1.8$
CO3	3	1	$0.75+0.75=1.5$	3	$1.2+0.6=1.8$
CO4	3	1	$0.75+0.75=1.5$	3	$1.2+0.6=1.8$
CO5	3	1	$0.75+0.75=1.5$	3	$1.2+0.6=1.8$

FINAL CO ATL =1.8

CO ATTAINMENT LEVEL FOR SEM VI 6B 2020-21 BTBC

Cos	CO Attainment Level(INTERNAL)	CO Attainment Level(EXTERNAL)	DIRECT CO Attainment Level =INTERNAL	Indirect CO AL	Total CO ATL Direct COATL=80%+20%Indirect ATL
CO 1	3	3	$0.75+2.25=3$	3	$2.4+0.6 =3$
CO2	3	3	$0.75+2.25=3$	3	$2.4+0.6 =3$
CO3	3	3	$0.75+2.25=3$	3	$2.4+0.6 =3$
CO4	3	3	$0.75+2.25=3$	3	$2.4+0.6 =3$
CO5	3	3	$0.75+2.25=3$	3	$2.4+0.6 =3$

FINAL CO ATL =3

CO ATTAINMENT LEVEL FOR SEM VI 7B 2020-21 BTBC

Cos	CO Attainment Level(INTERNAL)	CO Attainment Level(EXTERNAL)	DIRECT CO Attainment Level =INTERNAL 25%+External 75%	Indirect CO AL	Total CO ATL Direct COATL=80%+20%Indirect ATL
CO 1	3	3	$0.75+2.25=3$	3	$2.4+0.6 =3$
CO2	3	3	$0.75+2.25=3$	3	$2.4+0.6 =3$
CO3	3	3	$0.75+2.25=3$	3	$2.4+0.6 =3$
CO4	3	3	$0.75+2.25=3$	3	$2.4+0.6 =3$
CO5	3	3	$0.75+2.25=3$	3	$2.4+0.6 =3$

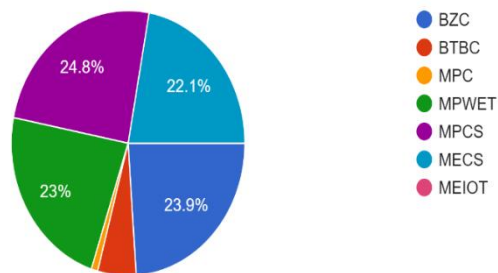
FINAL CO ATL =3

INDIRECT ASSESSMENT

The feedback of the students on the Indirect Assessment methods of Course Exit Survey and Programme Exit Survey is provided.

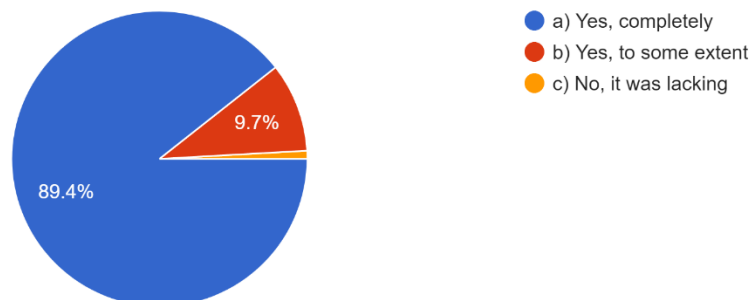
Group/studied at UG Level

113 responses



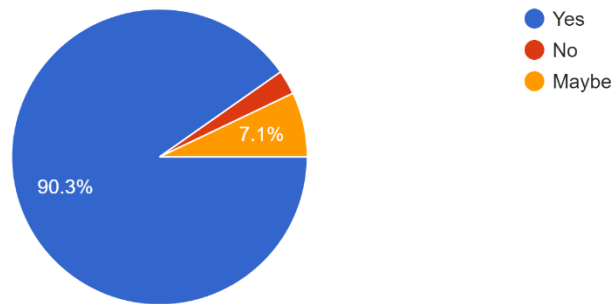
4. Did the curriculum effectively cover all the important aspects of your chosen group?

113 responses



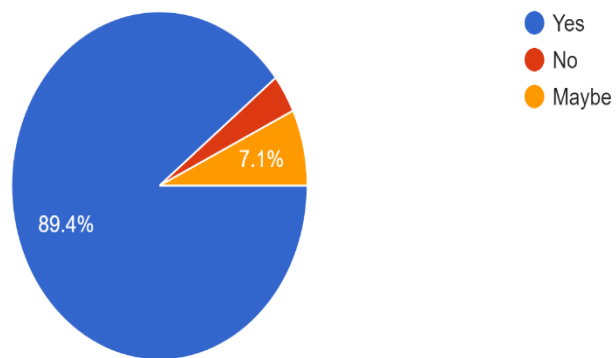
6. Were there enough opportunities for internships or industry exposure during your studies?

113 responses



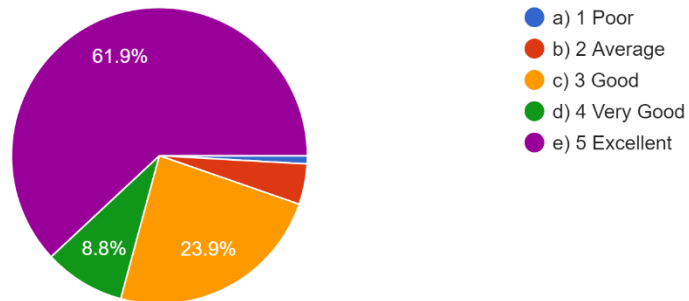
8. . Were you encouraged to participate in extracurricular activities related to your field of study?

113 responses



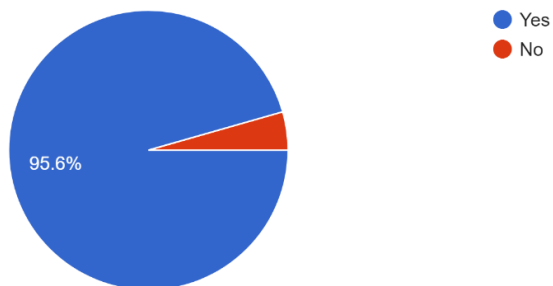
10. . How effective were the assessment methods used in your program (exams, assignments, projects, seminars, etc.)? Rate on a scale of 1 to 5,

113 responses



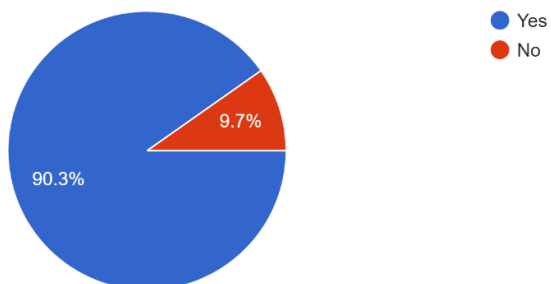
12.. Have you received career guidance or counseling to help you in deciding your future path?

113 responses



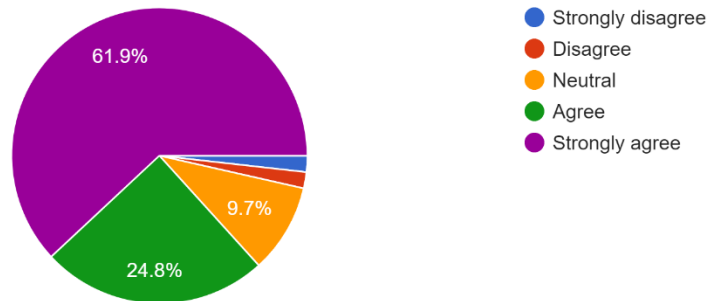
11. Have you had the opportunity to participate in any field trips or excursions related to your program?

113 responses



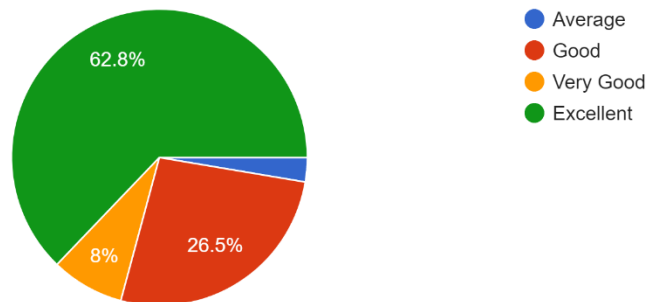
13.. Has the program helped you develop important skills such as critical thinking and problem-solving?

113 responses



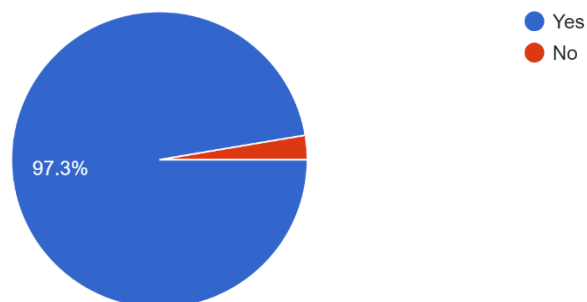
14. How well does the department foster a sense of community and collaboration among students?

113 responses



15. Would you recommend the B.Sc. program of your choice to others who are interested in this field?

113 responses



Analysis of the Feedback

The programs offered by our institute have a good balance between theoretical knowledge and practical skills. The students were satisfied with the assessment methods and the internships provided. To make curriculum more effective, Add-On courses will be started and conducted. More activities are planned for better results and holistic development. The initiatives implemented reflect a commitment to continually improving the education and skill development opportunities provided.




PRINCIPAL
VSR GOVT. DEGREE & PG. COLLEGE
MORVA