

Table 1: Threshold Score and range to the weightage obtained in each CO to assess the attainment

Percent age	Score	from	to	from	to	from	to	from	to	from	to	from	to
		For 5 marks question		For 6 marks question		For 8 marks question		For 10 marks question		For 12 marks question		For 16 marks question	
Less than 40%	0	0	1.9995	0	2.3994	0	3.1992	0	3.999	0	4.7988	0	6.3984
40-49.99	1	2	2.4995	2.4	2.9994	3.2	3.9992	4	4.999	4.8	5.9988	6.4	7.9984
50-59.99	2	2.5	2.9995	3	3.5994	4	4.7992	5	5.999	6	7.1988	8	9.5984
60-74.99	3	3	3.7495	3.6	4.4994	4.8	5.9992	6	7.499	7.2	8.9988	9.6	11.9984
75-100	4	3.75	5	4.5	6	6	8	7.5	10	9	12	12	16

Table 2: Score attainment of Course Outcome across Bachelor of Science Bio-Technology (Odd Semesters)

Score in each subject against COs				
Semester	CO1	CO2	CO3	CO4
B.Sc Bio-Technology (Semester-I)	2.857	2.714	2.286	2.7142
B.Sc Bio-Technology (Semester-III)	2.08	3.25	3.66	3.33
B.Sc Bio-Technology (Semester-V)	3.9	3.7	3.2	3.1

### **B.Sc. Bio-Technology Sem -I**

Table 3: Score attainment of Course Outcome across Bachelor of Science (Bio-Technology Semester-I)

Score in each subject against Cos				
Course Code	CO1	CO2	CO3	CO4
Punjabi compulsory, Basic punjabi and PHC (BBTL-1421, BBTL-1031, BBTL-1431)	4	4	4	3.5
Communication skills in English (BBTL-1102)	3.5	4	3.5	2
Cell Biology (BBTM-1483)	3.5	2	2.5	3
Botany I (BBTM-1074)	2.5	3.5	3	4
Biochemistry I (BBTM-1085)	2	2.5	2	2
Chemistry I (BBTM-1087)	1	1	0	2
General Microbiology I (BBTM-1346)	3.5	2	1	2.5
<b>Average CO Attainment</b>	<b>2.857</b>	<b>2.714</b>	<b>2.286</b>	<b>2.714</b>

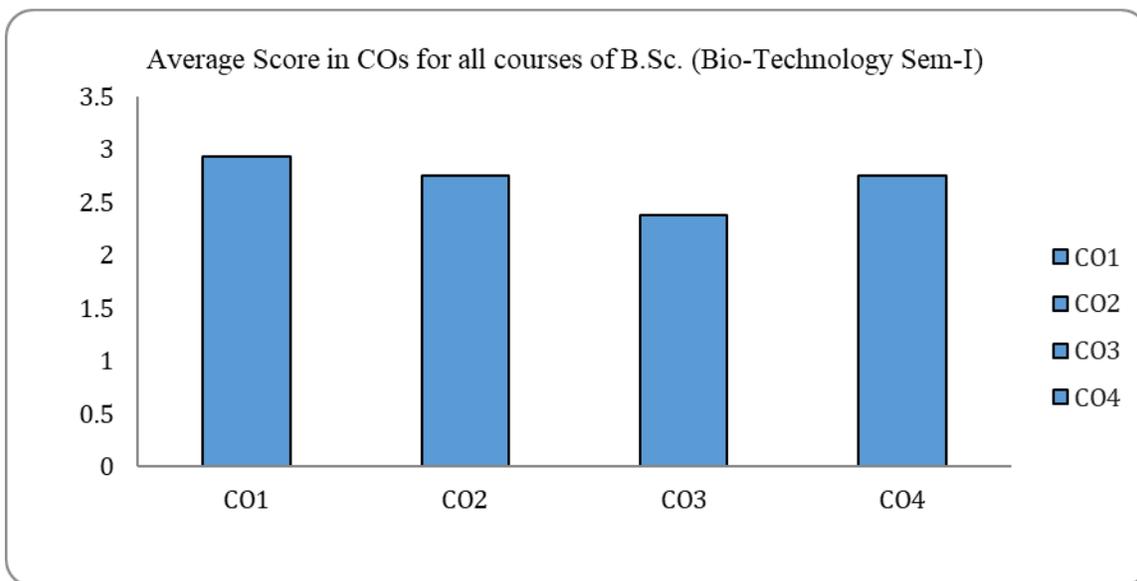
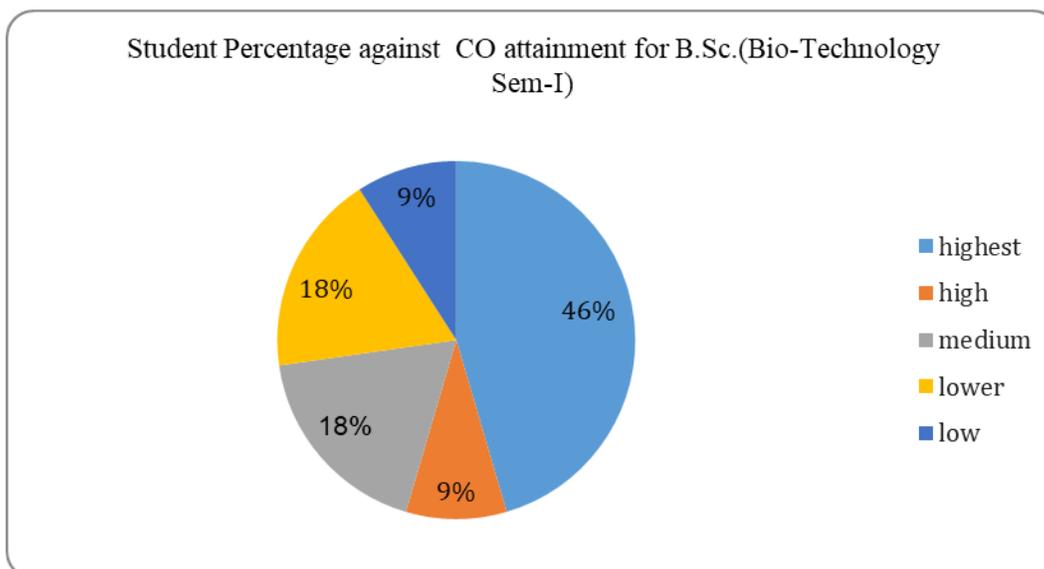


Table 4: Student Percentage attaining CO between different range levels depending on weightage for Bachelor of Science Bio-Technology (Sem 1)

Number of students obtaining marks for each CO between	Average	
75% to 100%	5	highest
60% to 75%	1	high
50% to 60%	2	medium
40% to 50%	2	lower
below 40%	1	low



### B.Sc. Bio-Technology Sem -III

Table 5: Score attainment of Course Outcome across Bachelor of Science (Bio-Technology Semester-III)

Score in each subject against COs				
Course Code	CO1	CO2	CO3	CO4
Fundamentals of Biotechnology (BBTM-3061)	2.5	3.5	3.5	2.5
Immunology I (BBTM-3062)	2	3	2.5	3
Chemistry II (BBTM-3083)	4	4	3.5	2.5
Botany II (BBTM-3074)	0	0	5	4
Biochemistry III (BBTM-3085)	0	5.5	5.5	5
Molecular biology (BBTM-3066)	4	3.5	2	3
	2.0833	3.25	3.6667	3.333333333

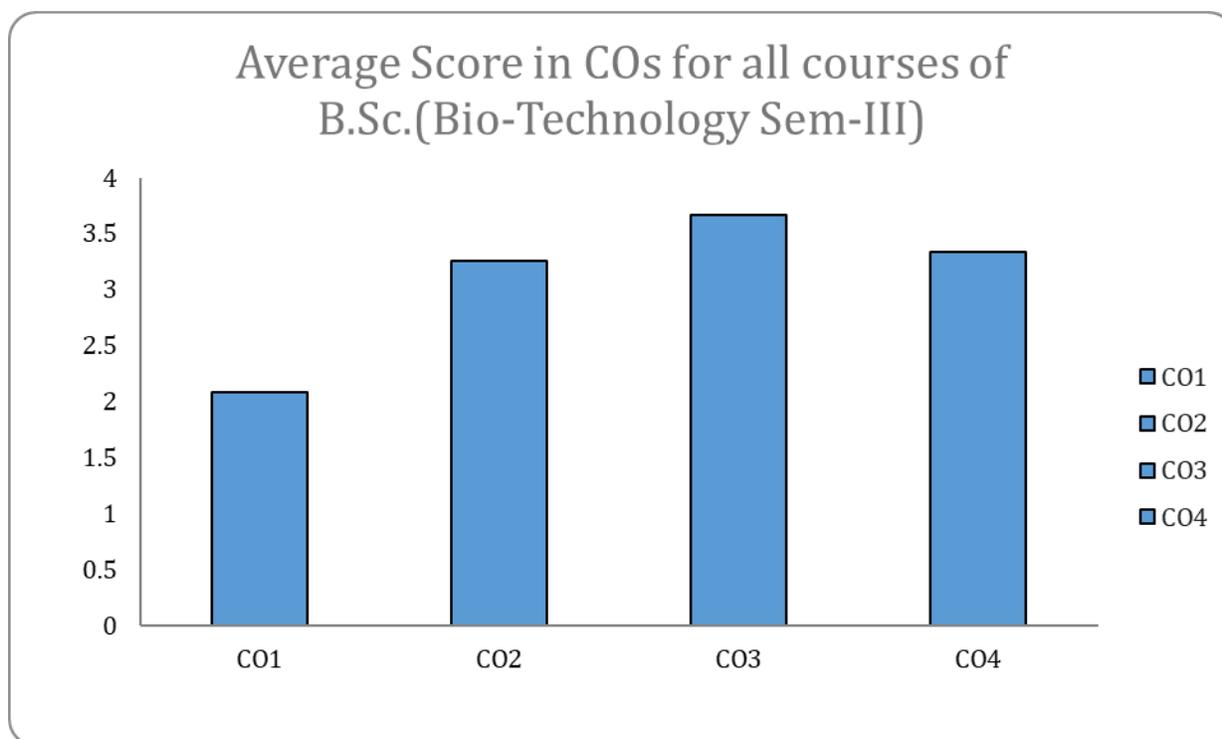
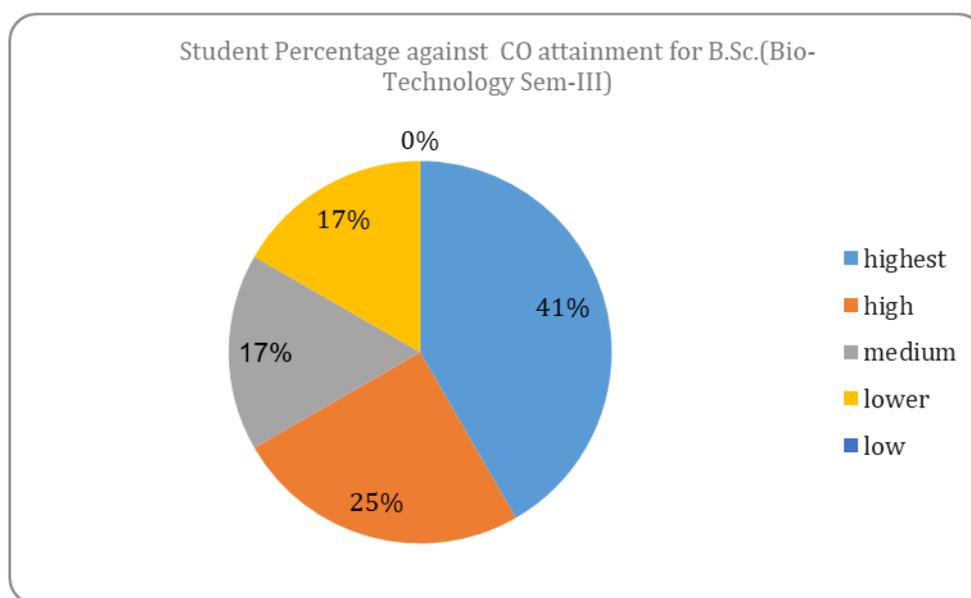


Table 6: Student Percentage attaining CO between different range levels depending on weightage for Bachelor of Science Bio-Technology (Sem 3)

Number of students obtaining marks for each CO between	Average	
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75% to 100%	5	highest
60% to 75%	3	high
50% to 60%	2	medium
40% to 50%	2	lower
below 40%	0	low



### **B.Sc. Bio-Technology Sem -V**

Table 7: Score attainment of Course Outcome across Bachelor of Science (Bio-Technology Semester-V)

Score in each subject against COs				
Course Code	CO1	CO2	CO3	CO4
Industrial biotechnology II (BBTM-5066)	4	4	3.5	2.5
Bioprocess engineering I (BBTM-5064)	4	4	3	3.5
Plant Biotechnology I (BBTM-5062)	4	4	3.5	3
Biochemical and biophysical techniques I (BBTM 5065)	3.5	3.5	3.5	3.5
rDNA Technology I (BBTM-5061)	4	3	2.5	3
Animal Biotechnology I (BBTM-5063)	4	4	3.5	4
<b>Average</b>	<b>3.9</b>	<b>3.7</b>	<b>3.2</b>	<b>3.1</b>

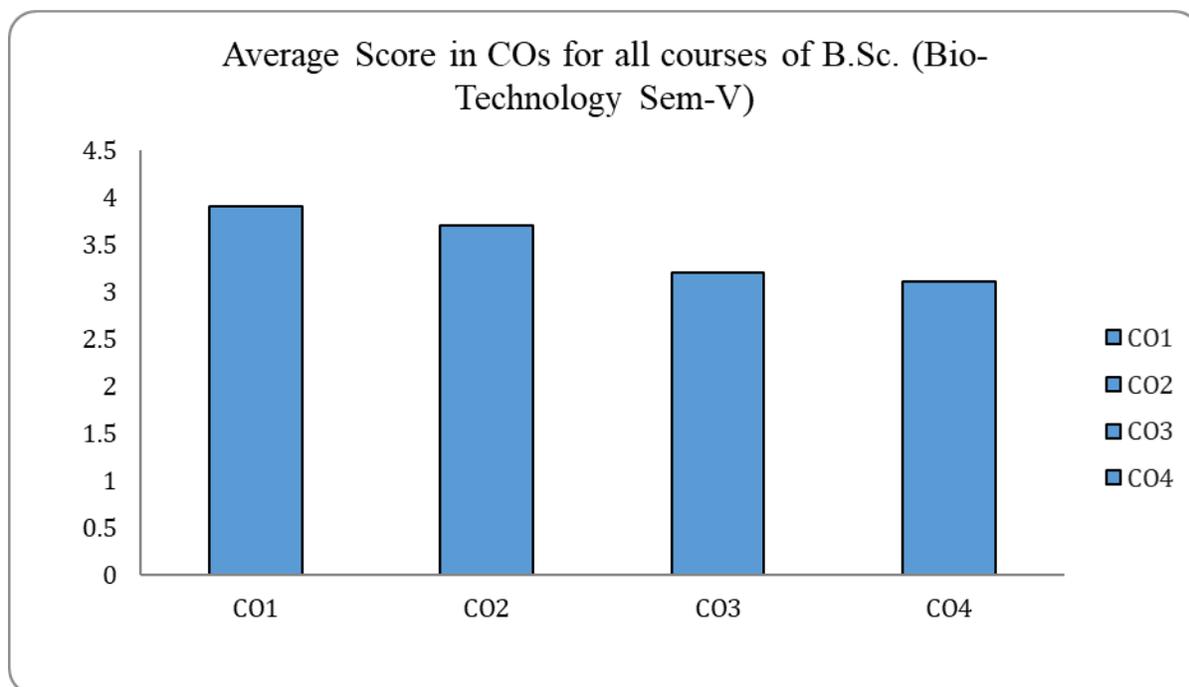
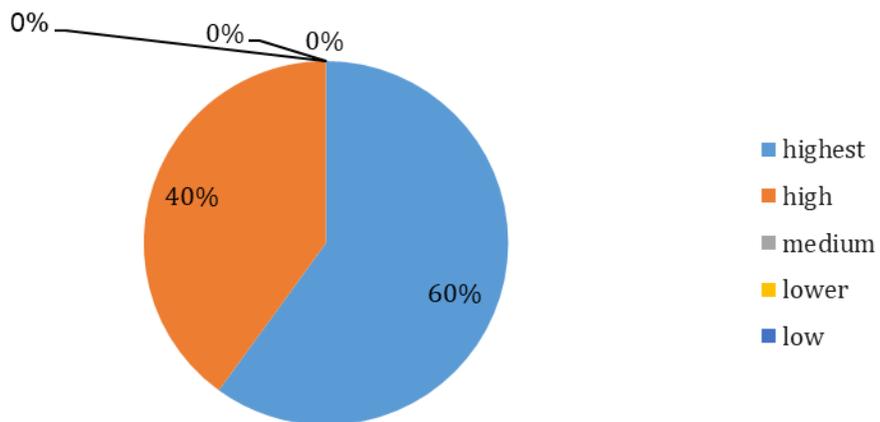


Table 8: Student Percentage attaining CO between different range levels depending on weightage for Bachelor of Science Bio-Technology (Sem 5)

Number of students obtaining marks for each CO between	Average	
75% to 100%	3	highest
60% to 75%	2	high
50% to 60%	0	medium
40% to 50%	0	lower
below 40%	0	low

Student Percentage against CO attainment for B.Sc.(Bio-Technology Sem-V)



## CO PO attainment of BSc Bio-Technology (even semester)

Table 1: Score attainment of Course Outcome across Bachelor of Science Bio-Technology (Even Semesters)

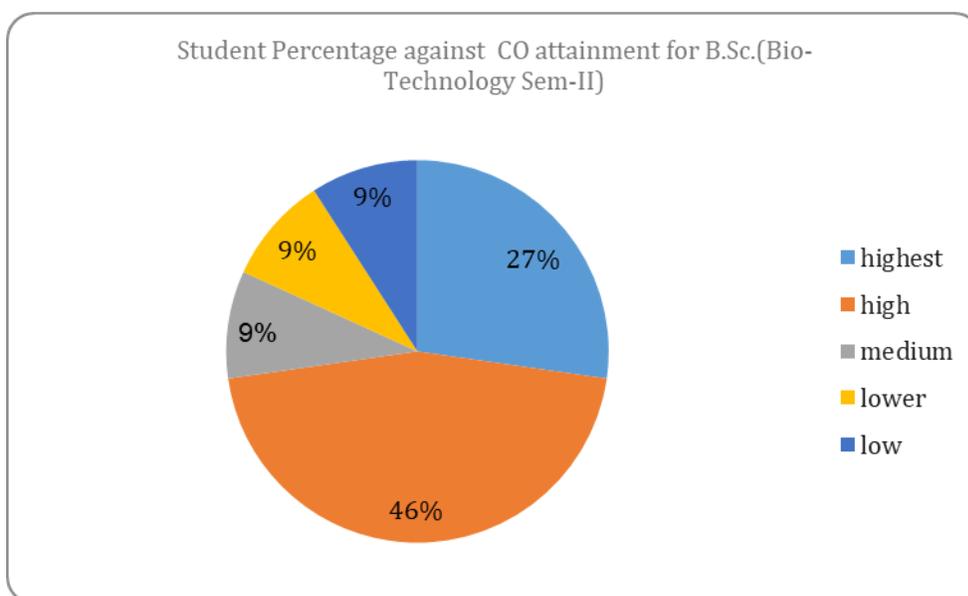
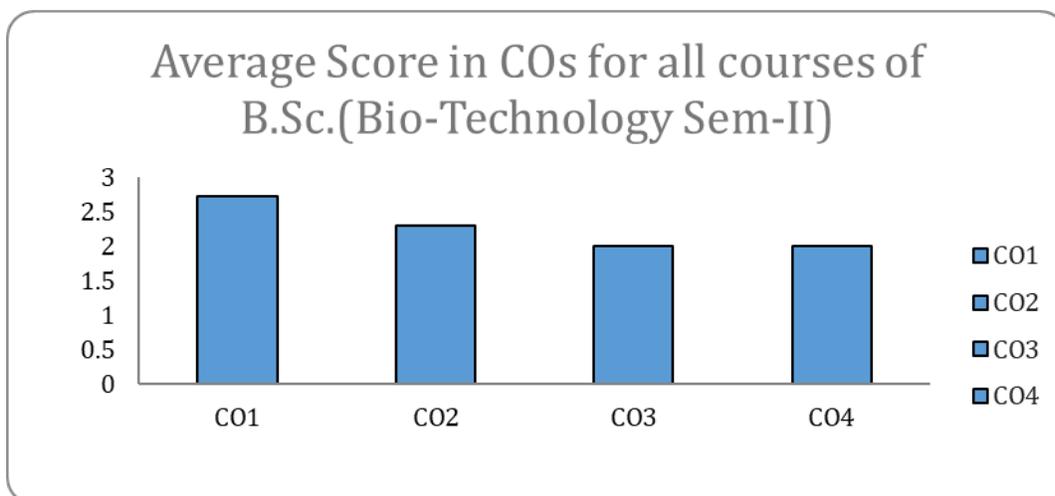
Score in each subject against COs				
Course Code	CO1	CO2	CO3	CO4
B.Sc Bio-Technology (Semester-II)	2.714	2.286	2	2
B.Sc Bio-Technology (Semester-IV)	2.9167	3.75	2.4167	3.3333
B.Sc Bio-Technology (Semester-VI)	4	3.7	3.7	3.2

Table 2: Score attainment of Course Outcome across Bachelor of Science (Bio-Technology Semester-II)

Score in each subject against COs				
Course Code	CO1	CO2	CO3	CO4
Punjabi compulsory, Basic punjabi and PHC (BBTL-2421, BBTL-2031, BBTL-2431)	3.5	3.5	3	4
Communication skills in English (BBTM-2102)	1	1	0	1
Zoology I (BBTM-2484)	3.5	1	3	0
Genetics (BBTM-2065)	2	2.5	2	2
Biochemistry II (BBTM-2086)	2	2.5	2	3.5
Biostatistics (BBTL-2333)	3	2.5	0	0
General Microbiology II (BBTM-2347)	4	3	4	3.5
<b>Average CO Attainment</b>	<b>2.714</b>	<b>2.286</b>	<b>2</b>	<b>2</b>

Table 3: Student Percentage attaining CO between different range levels depending on weightage for Bachelor of Science Bio-Technology (Sem 2)

Number of students obtaining marks for each CO between	Average	
75% to 100%	3	highest
60% to 75%	5	high
50% to 60%	1	medium
40% to 50%	1	lower
below 40%	1	low



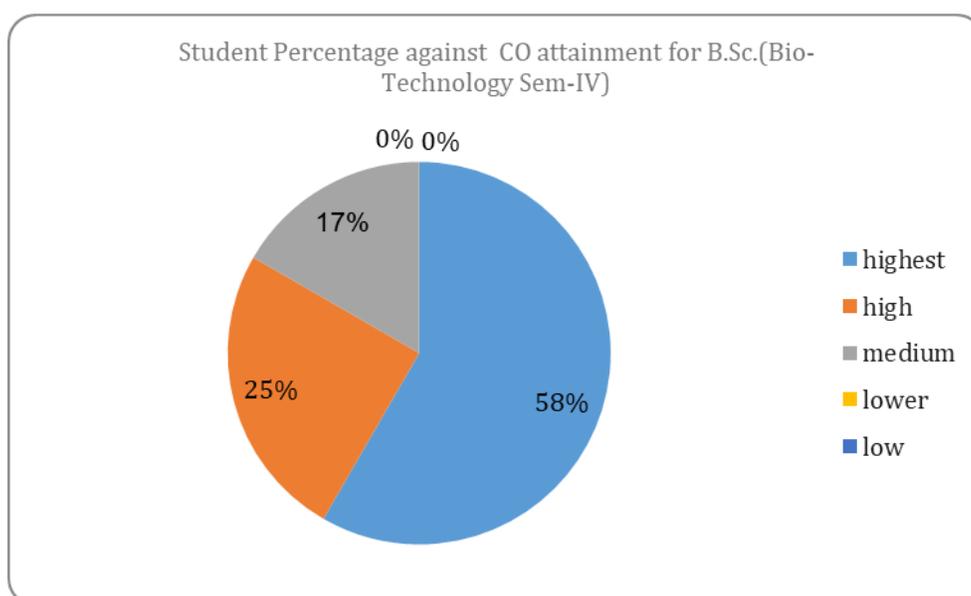
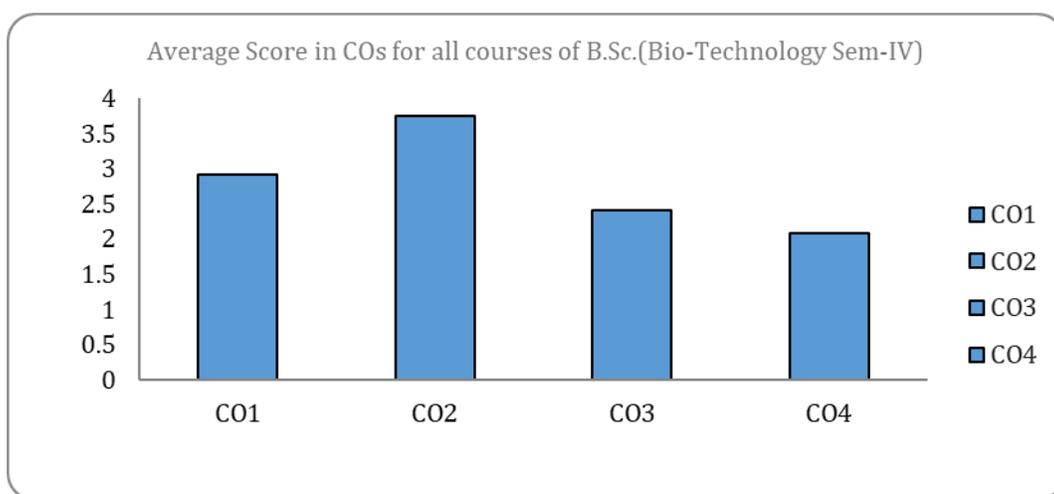
## BSc Bio-Technology Sem-IV

Table 4: Score attainment of Course Outcome across Bachelor of Science (Bio-Technology Semester-4)

Score in each subject against COs				
Course Code	CO1	CO2	CO3	CO4
Industrial Biotechnology-I (BBTM-4061)	3.5	3.5	2.5	3
Immunology II (BBTM-4062)	2	3	3	1
Biochemistry IV (BBTM-4083)	0	4	0	5
Skill development in Biotechnology (BBTM-4064)	6	5	5	0
Fundamentals in Bioinformatics (BBTM-4065)	2	3	0	0
Zoology II (BBTM-4486)	4	4	4	3.5
	2.9167	3.75	2.4167	2.083333333

Table 5: Student Percentage attaining CO between different range levels depending on weightage for Bachelor of Science Bio-Technology (Sem 4)

Number of students obtaining marks for each CO between	Average	
75% to 100%	7	highest
60% to 75%	3	high
50% to 60%	2	medium
40% to 50%	0	lower
below 40%	0	low



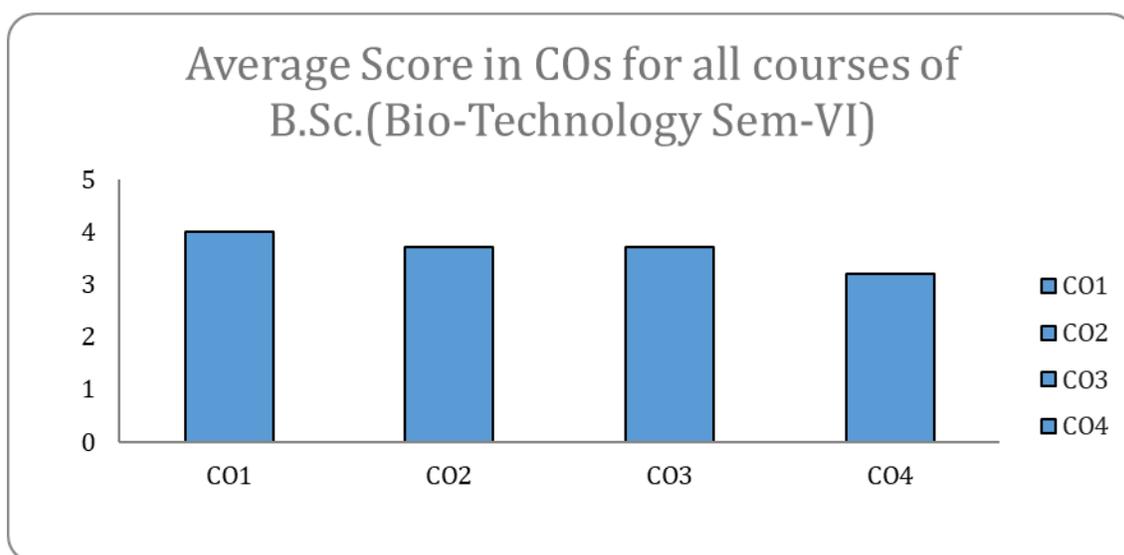
## BSc Bio-Technology Sem VI

Table 6: Score attainment of Course Outcome across Bachelor of Science (Bio-Technology Semester-6)

Score in each subject against COs				
Course Code	CO1	CO2	CO3	CO4
Chemistry-III (BBTM-6085)	4	3	4	3
Bioprocess engineering II (BBTM-6064)	4	4	4	3.5
Plant Biotechnology II (BBTM-6063)	4	4	3	3
Biochemical and biophysical techniques II (BBTM-6066)	4	3.5	3.5	2.5
rDNA Technology II (BBTM-6061)	4	4	4	4
Animal Biotechnology II (BBTM-6062)	4	3	3.5	3.5
Average	4	3.7	3.7	3.2

Table 7: Student Percentage attaining CO between different range levels depending on weightage for Bachelor of Science Bio-Technology (Sem 6)

Number of students obtaining marks for each CO between	Average	
75% to 100%	3	highest
60% to 75%	2	high
50% to 60%	0	medium
40% to 50%	0	lower
below 40%	0	low



Student Percentage against CO attainment for B.Sc.(Bio-Technology Sem-VI)

