

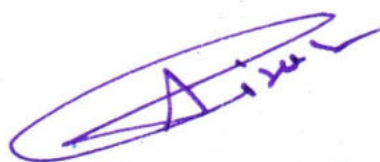
Analysis and the Action Taken On the CO-PO Attainment

for
Bachelor of Technology
(Four Years UG Program)
on
the basis of
CO-PO-PSO Attainments
for the Batches
2018-22, 2019-23 and Partial Datasets of 2020-24 (6/8),
2021-25 (4/8) and 2022-26(2/8)



(Approved in 9th Meeting of BOM on 6th Oct'2023 vide Agenda 9.4.7.2)

By
Internal Quality Assurance Cell
Quantum University, Roorkee



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CO Attainment Matrix for Session 2019-23

**Table-1: CO Attainment for Batch 2019-23
(1st Semester)**

Semester	Course ID.	Outcome attainment of Batch 2019-23 (Covid)
I	MA3101	1.887
I	PH3101	1.933
I	EG3102	2.591
I	CS3101	2.142
I	MB3101	1.552
I	ME3101	2.115
I	PH3140	2.271
I	EG3140	2.355
I	CS3140	2.751
I	CE3101	2.591
I	ME3140	2.515
I	VP3101	2.751
I	ME3102	2.514
I	ME3103	2.458
I	CE3101	2.756
I	PH3140	2.771
I	EG3140	2.635
I	CS3140	2.831
I	CS3143	2.698
I	CS3150	2.794
I	CE3101	2.794
I	ME3140	2.339


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Table-2: CO Attainment for Batch 2019-23 (1st Semester)

Semester	Course ID.	Outcome attainment of Batch 2019-23 (Covid)
II	MA3201	2.515
II	CS3201	1.933
II	PS3101	2.591
II	CY3205	2.142
II	EC3101	1.552
II	MB3201	2.075
II	CS3240	2.271
II	EC3140	2.751
II	VP3201	2.794
II	CE3101	2.906
II	PS3101	2.756
II	CY3205	2.756
II	EG3209	2.509
II	EC3101	2.591
II	MB3201	2.509
II	CS3240	2.429
II	CS3223	2.216
II	CS3224	2.564
II	CS3242	1.370
II	CS3243	2.555
II	CS3244	2.621
II	EC3140	1.708
II	ME3141	2.681
II	CE3101	2.243

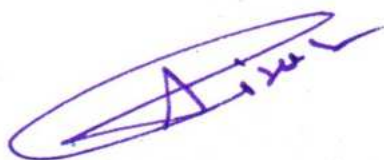

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Table-3: CO Attainment for Batch 2019-23 (IIIrd Semester)

Semester	Course ID.	Outcome attainment of Batch 2019-23 (Covid)
III	CS3301	2.794
III	CS3302	2.906
III	EC3306	2.756
III	CS3304	2.756
III	CS3305	2.766
III	CS3340	2.509
III	EC3341	2.492
III	CS3342	2.630
III	CS3343	2.443
III	CS3344	2.715
III	CS3351	2.030
III	VP3301	2.034
III	CS3321	2.719
III	CS3322	2.492
III	CS3352	2.528
III	CS3343	2.182
III	CS3344	2.485
III	CS3347	2.846
III	CS3348	2.776
III	CS3349	1.503
III	CS3351	1.766
III	VP3301	2.233
III	CS3321	2.790
III	CS3322	2.585
III	CS3352	2.794


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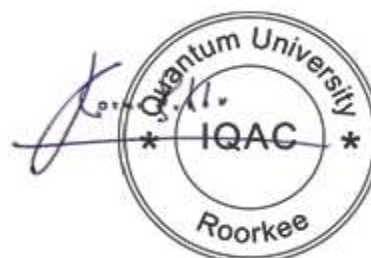


Table-4: CO Attainment for Batch 2019-23 (IVth Semester)

Semester	Course ID.	Outcome attainment of Batch 2019-23 (Covid)
IV	CS3401	2.850
IV	CS3402	2.075
IV	CS3403	2.925
IV	CS3404	2.232
IV	CS3440	2.120
IV	CS3441	2.586
IV	CS3442	2.708
IV	CS3443	2.884
IV	CS3445	2.753
IV	CS3421	2.775
IV	CS3422	2.543
IV	CS3451	2.756
IV	VP3401	2.771
IV	CS3452	2.635
IV	CS3448	2.481
IV	CS3421	2.528
IV	CS3422	2.182
IV	CS3451	2.458
IV	VP3401	2.511
IV	CS3452	2.495


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Table-5 : CO Attainment for Batch 2019-23 (Vth Semester)

Semester	Course ID.	Outcome attainment of Batch 2019-23 (Covid)
V	CS3501	2.526
V	CS3502	2.656
V	CS3504	2.568
V	CS3505	2.637
V	CS3540	2.425
V	CS3541	2.753
V	CS3542	1.627
V	CS3543	1.495
V	CS3521	2.283
V	CS3522	1.736
V	CS3552	1.385
V	CS3553	1.306
V	VP3501	2.460
V	CS3551	2.747
V	CS3548	2.633
V	CS3549	2.696
V	CS3521	2.482
V	CS3522	2.479
V	CS3552	2.469
V	CS3553	2.594
V	CS3551	2.088
V	CS3552	2.431
V	VP3501	2.216
V	CS3553	2.556

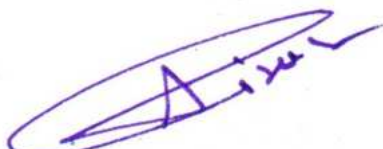

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Table-6 : CO Attainment for Batch 2018-22 (VIth Semester)

Semester	Course ID.	Outcome attainment of Batch 2019-23 (Covid)
VI	CS3601	2.749
VI	CS3603	1.924
VI	CS3604	2.830
VI	CS3654	2.680
VI	VP3601	2.680
VI	CS3622	2.762
VI	CS3640	2.513
VI	CS3641	2.657
VI	CS3643	2.290
VI	CS3645	2.318
VI	CS3648	2.778
VI	CS3649	2.456
VI	CS3652	2.256
VI	CS3653	2.762
VI	CS3654	2.513
VI	CS3623	2.657
VI	CS3624	2.848
VI	CS3625	2.629
VI	CS3640	2.336
VI	CS3641	2.374
VI	CS3642	2.374
VI	CS3643	2.850
VI	CS3645	2.794
VI	CS3647	2.681
VI	CS3648	2.749
VI	CS3649	1.924
VI	CS3651	2.830
VI	CS3652	2.680
VI	CS3653	2.680
VI	CS3654	2.762

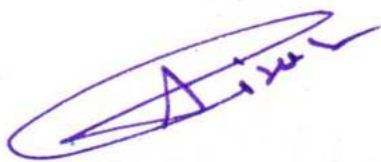

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Table-7 : CO Attainment for Batch 2019-23 (VIIth Semester)

Semester	Course ID.	Outcome attainment of Batch 2019-23 (Covid)
VII	CS3701	1.887
VII	CS3702	1.933
VII	CS3703	2.591
VII	CS3704	2.142
VII	CS3705	2.116
VII	CS3706	1.678
VII	CS3721	2.528
VII	CS3722	2.675
VII	CS3740	2.191
VII	CS3741	2.525
VII	CS3742	2.582
VII	CS3751	2.378
VII	CS3714	2.575
VII	CS3715	2.644
VII	CS3716	2.700
VII	CS3717	2.865
VII	CS3718	2.330
VII	CS3721	2.773
VII	CS3722	2.762
VII	CS3723	2.513
VII	CS3724	2.657
VII	CS3732	2.848
VII	CS3740	2.629
VII	CS3741	2.428
VII	CS3742	1.887
VII	CS3748	1.933
VII	CS3751	2.591


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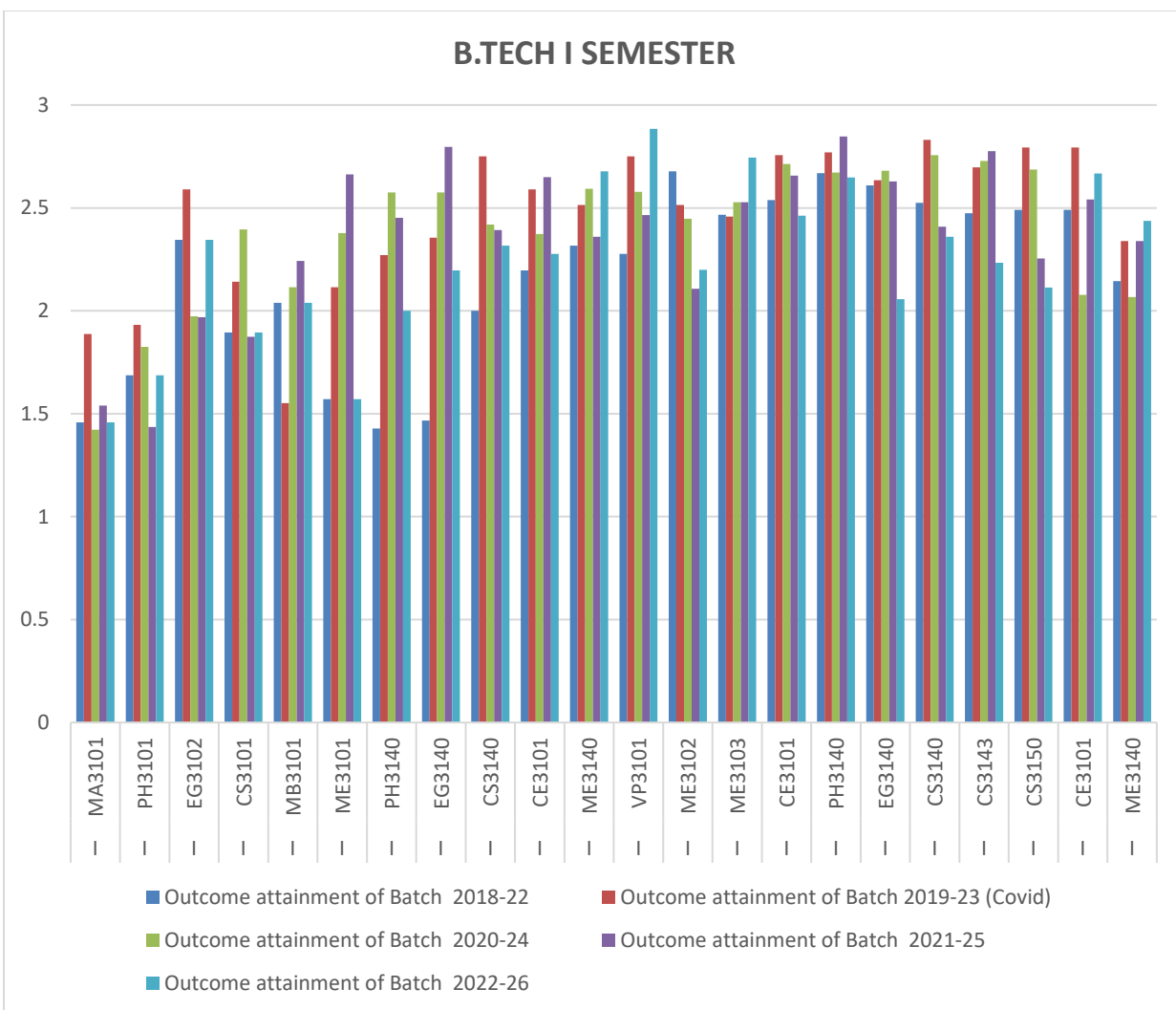


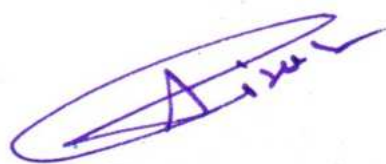
**Batch Wise Comparison of Course Outcome Attainments
for
B.Tech. (Computer Science and Engineering)
Table-8 : 1st Year (Semester I)**

Semester	Course ID.	Outcome attainment of Batch 2018-22	Outcome attainment of Batch 2019-23 (Covid)	Outcome attainment of Batch 2020-24	Outcome attainment of Batch 2021-25	Outcome attainment of Batch 2022-26
I	MA3101	1.459	1.887	1.422	1.540	1.459
I	PH3101	1.688	1.933	1.825	1.436	1.688
I	EG3102	2.345	2.591	1.974	1.969	2.345
I	CS3101	1.895	2.142	2.395	1.874	1.895
I	MB3101	2.039	1.552	2.115	2.243	2.039
I	ME3101	1.571	2.115	2.378	2.663	1.571
I	PH3140	1.428	2.271	2.575	2.453	2.000
I	EG3140	1.467	2.355	2.575	2.797	2.196
I	CS3140	2.000	2.751	2.419	2.393	2.317
I	CE3101	2.196	2.591	2.373	2.650	2.277
I	ME3140	2.317	2.515	2.593	2.360	2.678
I	VP3101	2.277	2.751	2.579	2.466	2.884
I	ME3102	2.678	2.514	2.447	2.108	2.200
I	ME3103	2.468	2.458	2.528	2.528	2.745
I	CE3101	2.538	2.756	2.713	2.657	2.463
I	PH3140	2.669	2.771	2.672	2.848	2.649
I	EG3140	2.610	2.635	2.681	2.629	2.057
I	CS3140	2.524	2.831	2.756	2.408	2.360
I	CS3143	2.474	2.698	2.728	2.775	2.234
I	CS3150	2.491	2.794	2.686	2.254	2.114
I	CE3101	2.490	2.794	2.078	2.542	2.667
I	ME3140	2.144	2.339	2.067	2.339	2.437


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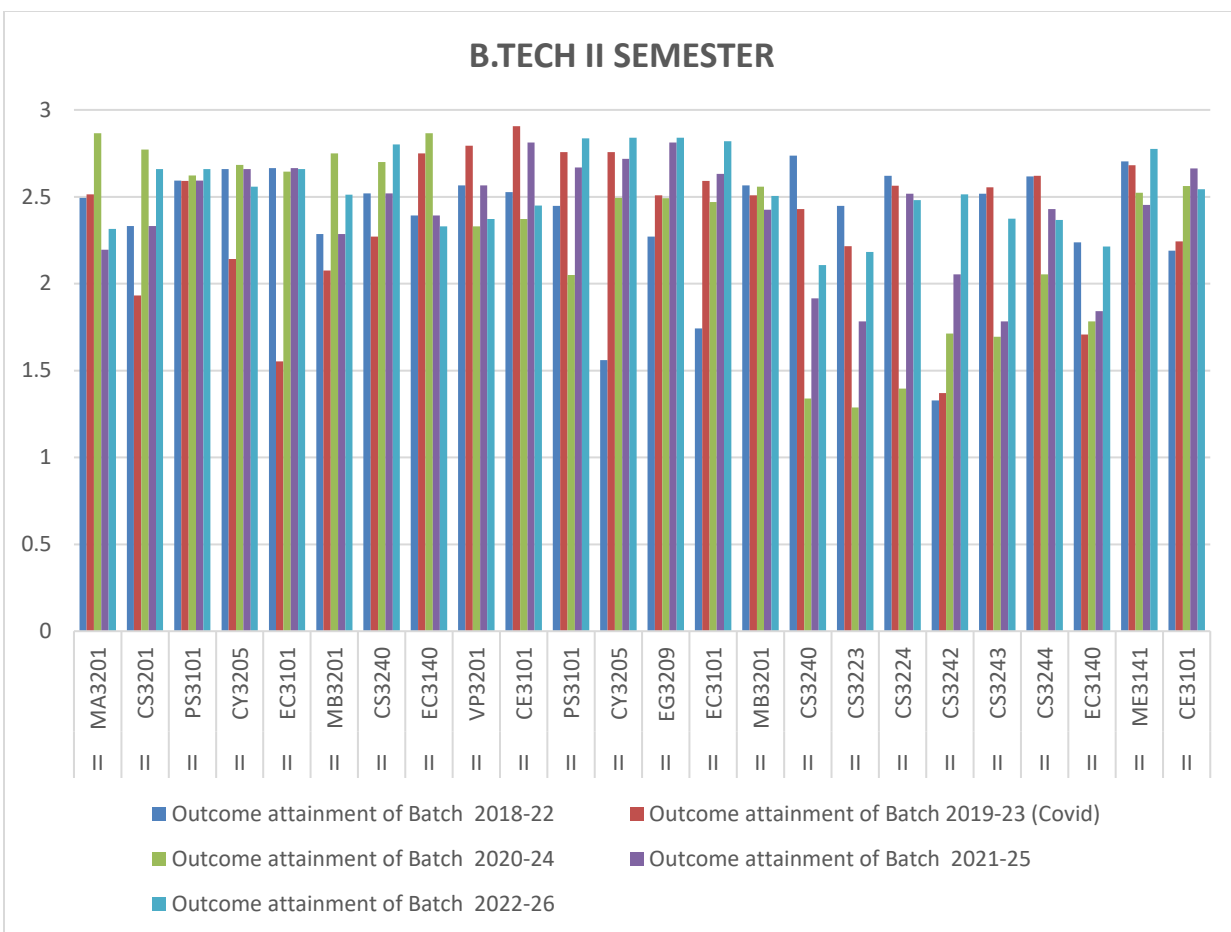
B.Tech. (Computer Science and Engineering) (Four Years UG Program)

Table-9: 1st Year (Semester II)

Semester	Course ID.	Outcome attainment of Batch 2018-22	Outcome attainment of Batch 2019-23 (Covid)	Outcome attainment of Batch 2020-24	Outcome attainment of Batch 2021-25	Outcome attainment of Batch 2022-26
II	MA3201	2.494	2.515	2.865	2.196	2.316
II	CS3201	2.332	1.933	2.771	2.332	2.659
II	PS3101	2.593	2.591	2.623	2.593	2.659
II	CY3205	2.659	2.142	2.684	2.659	2.559
II	EC3101	2.666	1.552	2.644	2.666	2.659
II	MB3201	2.285	2.075	2.749	2.285	2.512
II	CS3240	2.520	2.271	2.700	2.520	2.801
II	EC3140	2.392	2.751	2.865	2.392	2.330
II	VP3201	2.565	2.794	2.330	2.565	2.372
II	CE3101	2.528	2.906	2.372	2.813	2.450
II	PS3101	2.448	2.756	2.050	2.668	2.837
II	CY3205	1.560	2.756	2.494	2.719	2.841
II	EG3209	2.271	2.509	2.492	2.813	2.841
II	EC3101	1.742	2.591	2.469	2.633	2.820
II	MB3201	2.565	2.509	2.558	2.425	2.505
II	CS3240	2.738	2.429	1.340	1.916	2.108
II	CS3223	2.448	2.216	1.287	1.783	2.183
II	CS3224	2.621	2.564	1.396	2.518	2.481
II	CS3242	1.328	1.370	1.714	2.054	2.514
II	CS3243	2.518	2.555	1.695	1.783	2.374
II	CS3244	2.617	2.621	2.054	2.429	2.367
II	EC3140	2.238	1.708	1.783	1.841	2.213
II	ME3141	2.703	2.681	2.524	2.453	2.775
II	CE3101	2.189	2.243	2.561	2.663	2.543


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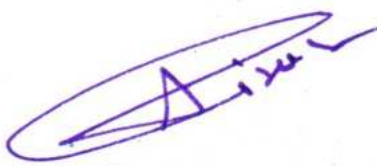



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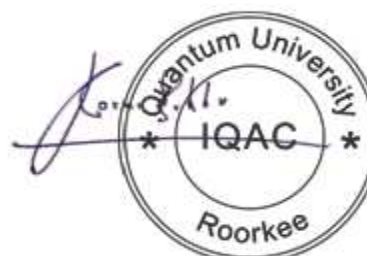


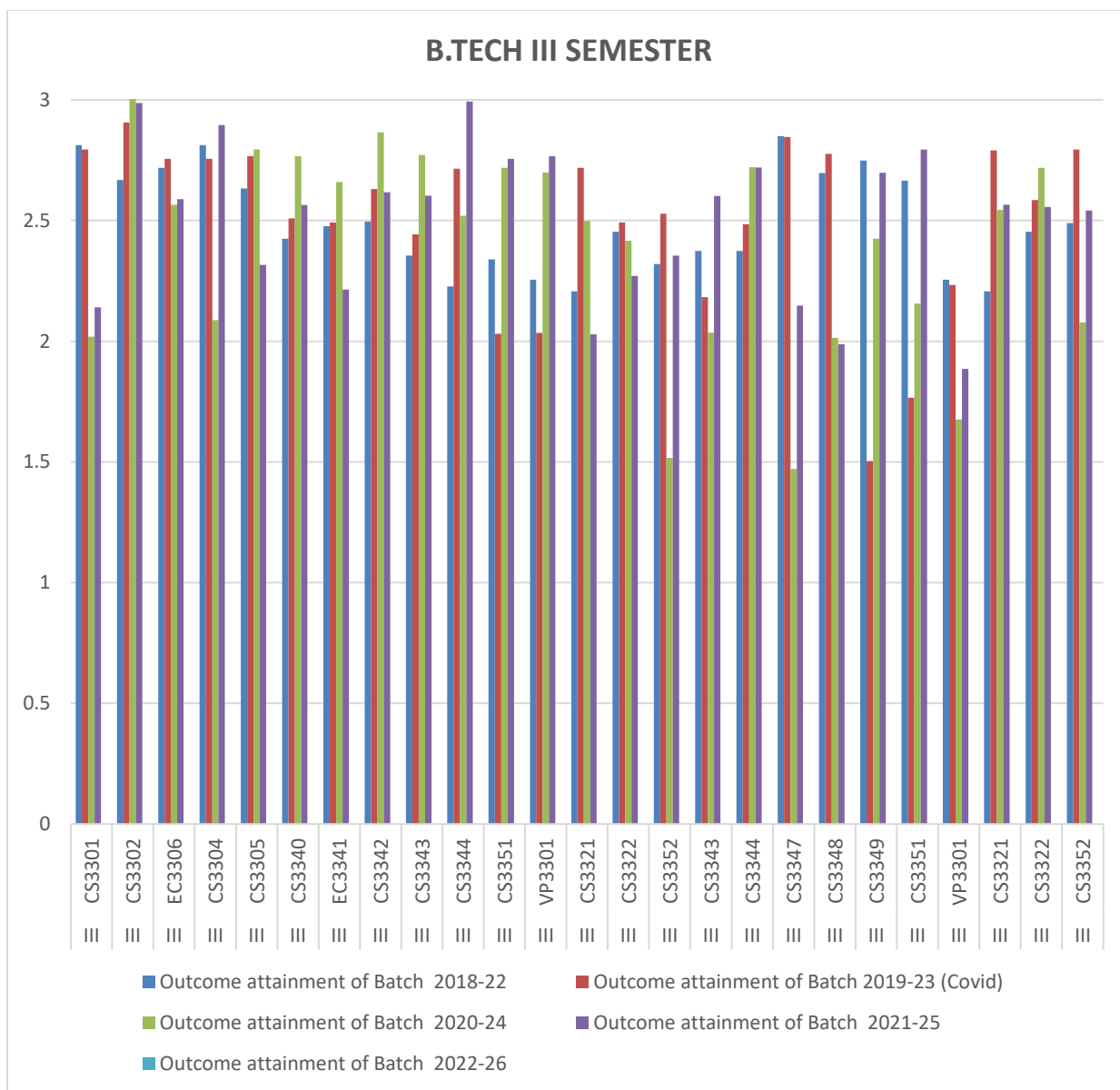
B.Tech. (Computer Science and Engineering)**Table-10 : 2nd Year (Semester III)**

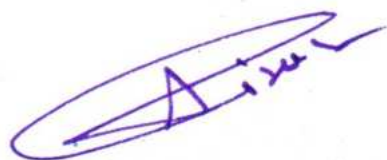
Semester	Course ID.	Outcome attainment of Batch 2018-22	Outcome attainment of Batch 2019-23 (Covid)	Outcome attainment of Batch 2020-24	Outcome attainment of Batch 2021-25
III	CS3301	2.813	2.794	2.019	2.141
III	CS3302	2.668	2.906	28879.000	2.987
III	EC3306	2.719	2.756	2.565	2.589
III	CS3304	2.813	2.756	2.087	2.896
III	CS3305	2.633	2.766	2.795	2.316
III	CS3340	2.425	2.509	2.766	2.564
III	EC3341	2.476	2.492	2.659	2.214
III	CS3342	2.495	2.630	2.865	2.617
III	CS3343	2.355	2.443	2.771	2.603
III	CS3344	2.227	2.715	2.519	2.993
III	CS3351	2.339	2.030	2.719	2.756
III	VP3301	2.255	2.034	2.699	2.766
III	CS3321	2.206	2.719	2.499	2.028
III	CS3322	2.454	2.492	2.416	2.271
III	CS3352	2.320	2.528	1.516	2.355
III	CS3343	2.374	2.182	2.036	2.601
III	CS3344	2.374	2.485	2.721	2.719
III	CS3347	2.850	2.846	1.471	2.147
III	CS3348	2.697	2.776	2.014	1.987
III	CS3349	2.748	1.503	2.424	2.698
III	CS3351	2.665	1.766	2.156	2.794
III	VP3301	2.255	2.233	1.675	1.885
III	CS3321	2.206	2.790	2.544	2.565
III	CS3322	2.454	2.585	2.719	2.556
III	CS3352	2.490	2.794	2.078	2.542



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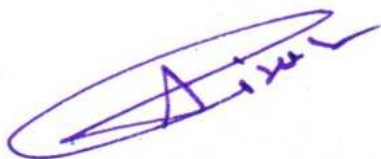

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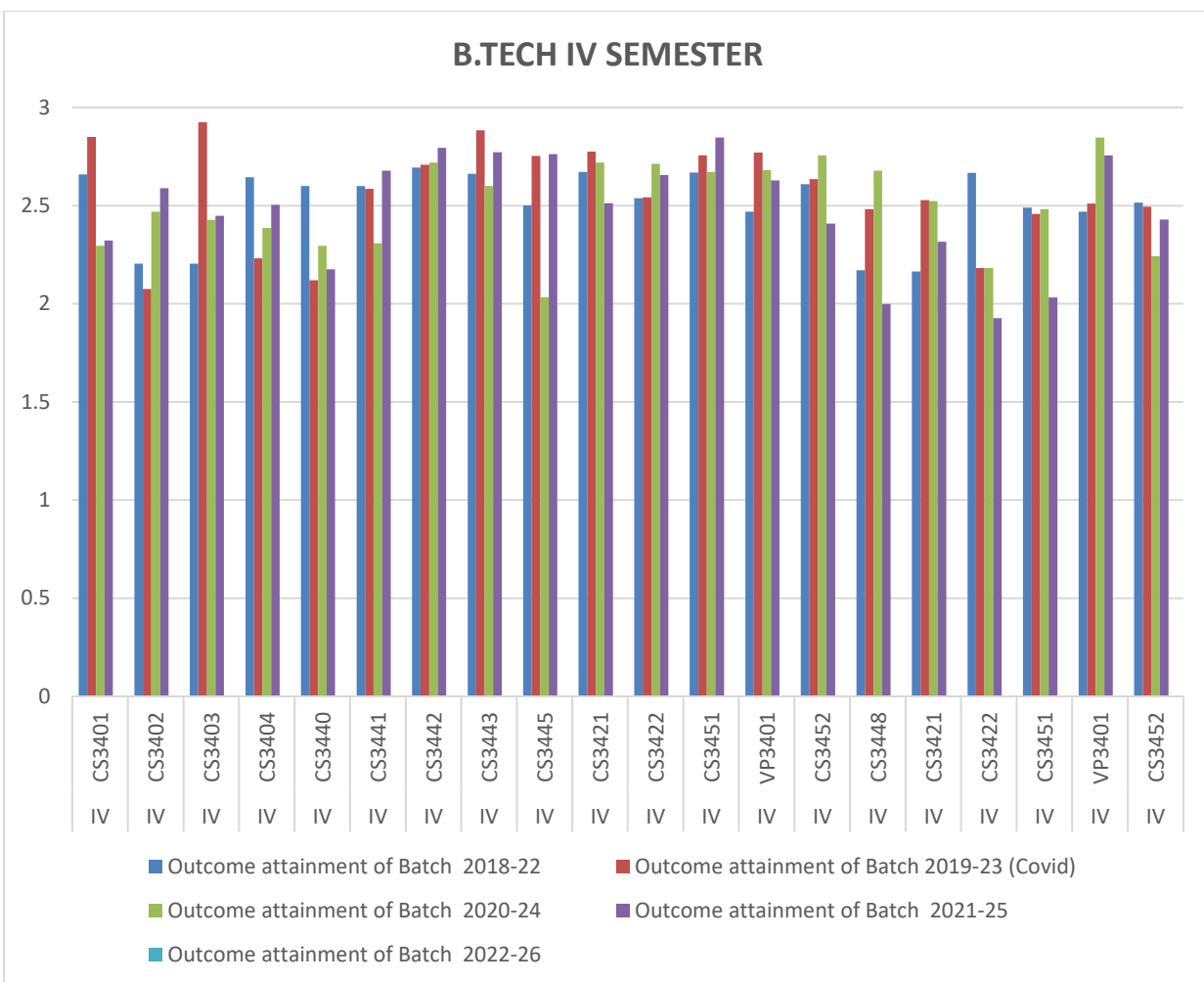
B.Tech. (Computer Science and Engineering) (Four Years UG Program)

Table-11 : 2nd Year (Semester IV)

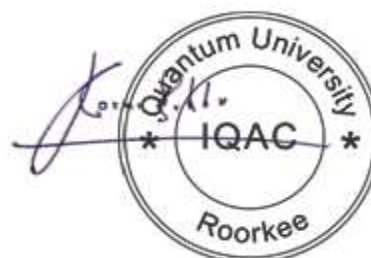
Semester	Course ID.	Outcome attainment of Batch 2018-22	Outcome attainment of Batch 2019-23 (Covid)	Outcome attainment of Batch 2020-24	Outcome attainment of Batch 2021-25
IV	CS3401	2.659	2.850	2.295	2.323
IV	CS3402	2.204	2.075	2.470	2.589
IV	CS3403	2.204	2.925	2.428	2.449
IV	CS3404	2.645	2.232	2.386	2.505
IV	CS3440	2.599	2.120	2.295	2.176
IV	CS3441	2.599	2.586	2.309	2.678
IV	CS3442	2.693	2.708	2.719	2.794
IV	CS3443	2.662	2.884	2.600	2.773
IV	CS3445	2.501	2.753	2.034	2.762
IV	CS3421	2.671	2.775	2.719	2.513
IV	CS3422	2.538	2.543	2.713	2.657
IV	CS3451	2.669	2.756	2.672	2.848
IV	VP3401	2.469	2.771	2.681	2.629
IV	CS3452	2.610	2.635	2.756	2.408
IV	CS3448	2.171	2.481	2.678	1.999
IV	CS3421	2.165	2.528	2.524	2.316
IV	CS3422	2.667	2.182	2.183	1.928
IV	CS3451	2.490	2.458	2.481	2.032
IV	VP3401	2.469	2.511	2.848	2.756
IV	CS3452	2.515	2.495	2.243	2.429


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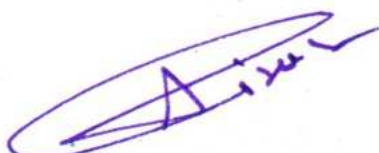



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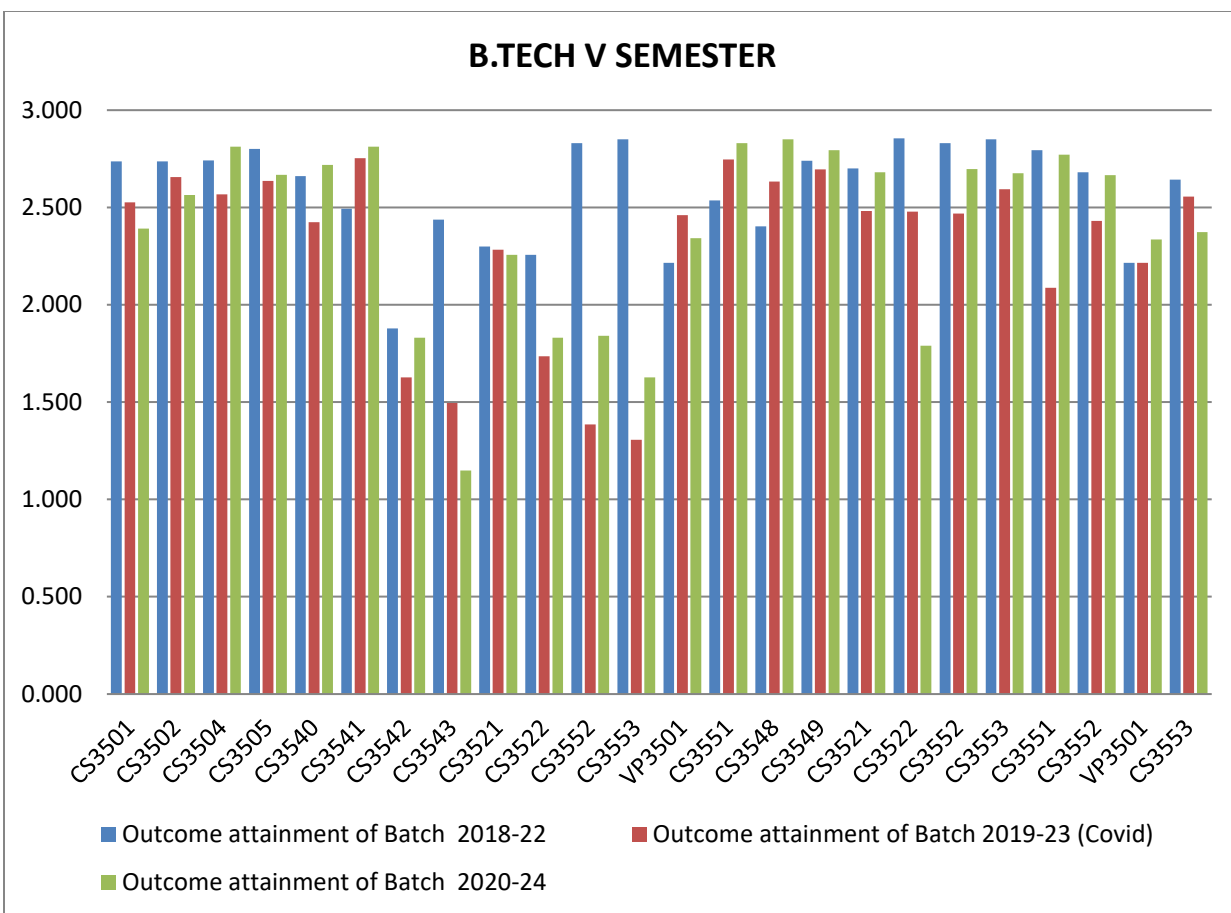
B.Tech. (Computer Science and Engineering)**Table-12: 3rd Year (Semester V)**

Semester	Course ID.	Outcome attainment of Batch 2018-22	Outcome attainment of Batch 2019-23 (Covid)	Outcome attainment of Batch 2020-24
V	CS3501	2.738	2.526	2.392
V	CS3502	2.738	2.656	2.565
V	CS3504	2.742	2.568	2.813
V	CS3505	2.801	2.637	2.668
V	CS3540	2.661	2.425	2.719
V	CS3541	2.494	2.753	2.813
V	CS3542	1.879	1.627	1.831
V	CS3543	2.438	1.495	1.149
V	CS3521	2.299	2.283	2.256
V	CS3522	2.256	1.736	1.831
V	CS3552	2.831	1.385	1.841
V	CS3553	2.850	1.306	1.627
V	VP3501	2.216	2.460	2.342
V	CS3551	2.537	2.747	2.831
V	CS3548	2.404	2.633	2.850
V	CS3549	2.741	2.696	2.794
V	CS3521	2.700	2.482	2.681
V	CS3522	2.856	2.479	1.790
V	CS3552	2.831	2.469	2.697
V	CS3553	2.850	2.594	2.676
V	CS3551	2.794	2.088	2.772
V	CS3552	2.681	2.431	2.666
V	VP3501	2.216	2.216	2.336
V	CS3553	2.643	2.556	2.374

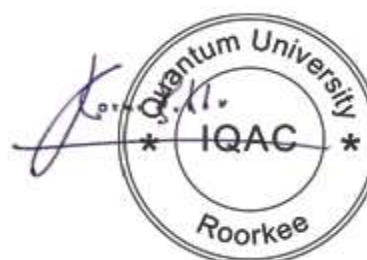


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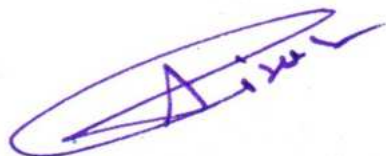

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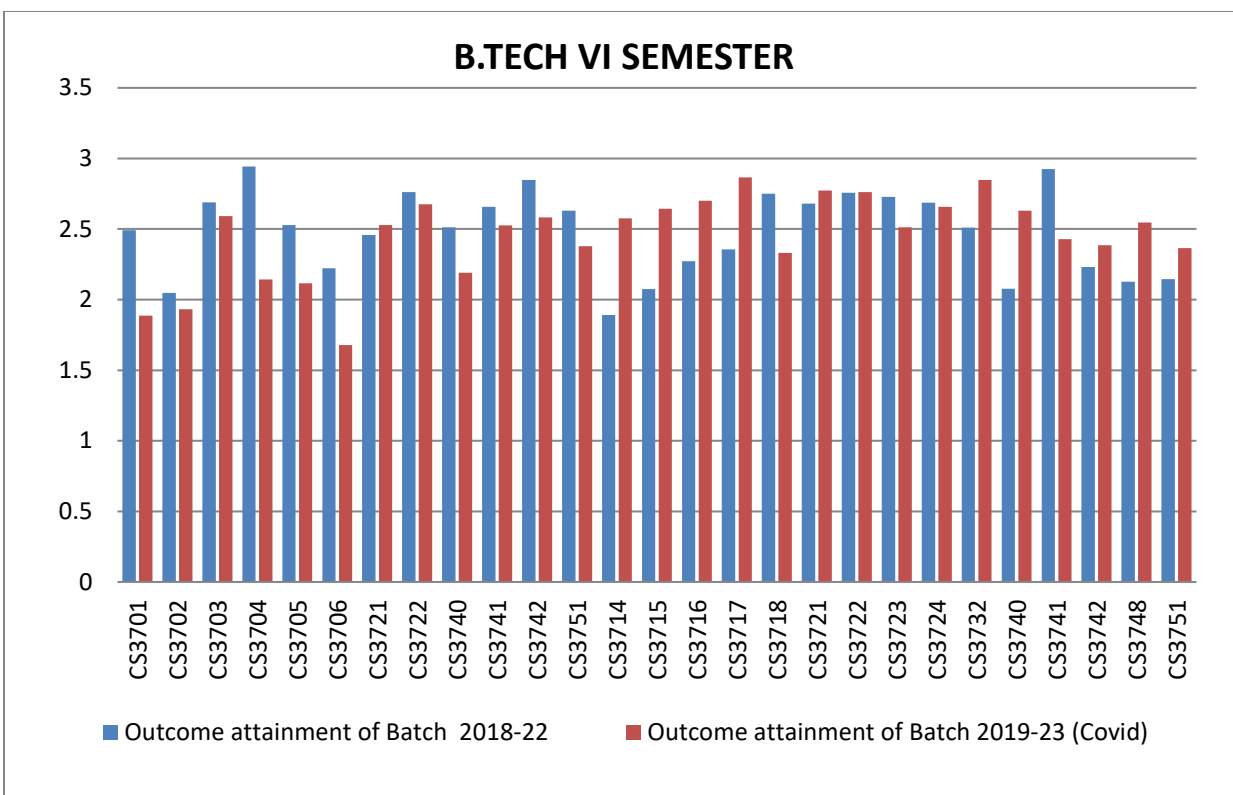
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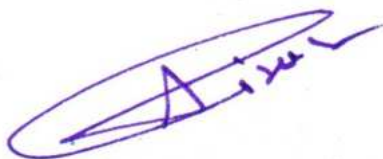
Table-13 : 3rd Year (Semester VI)

Semester	Course ID.	Outcome attainment of Batch 2018-22	Outcome attainment of Batch 2019-23 (Covid)
VI	CS3601	2.129	2.749
VI	CS3603	2.981	1.924
VI	CS3604	2.775	2.830
VI	CS3654	2.807	2.680
VI	VP3601	2.440	2.680
VI	CS3622	2.625	2.762
VI	CS3640	2.163	2.513
VI	CS3641	2.956	2.657
VI	CS3643	2.540	2.290
VI	CS3645	2.635	2.318
VI	CS3648	2.831	2.778
VI	CS3649	2.698	2.456
VI	CS3652	2.794	2.256
VI	CS3653	1.899	2.762
VI	CS3654	1.149	2.513
VI	CS3623	2.794	2.657
VI	CS3624	1.899	2.848
VI	CS3625	1.149	2.629
VI	CS3640	2.256	2.336
VI	CS3641	1.831	2.374
VI	CS3642	1.841	2.374
VI	CS3643	1.627	2.850
VI	CS3645	2.537	2.794
VI	CS3647	1.875	2.681
VI	CS3648	2.243	2.438
VI	CS3649	1.783	2.299
VI	CS3651	1.484	2.256
VI	CS3652	1.471	2.537
VI	CS3653	2.014	1.841
VI	CS3654	2.244	1.916


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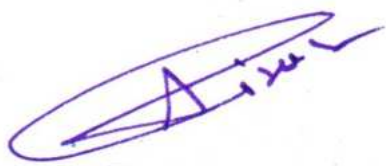



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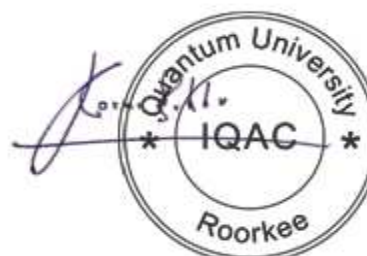


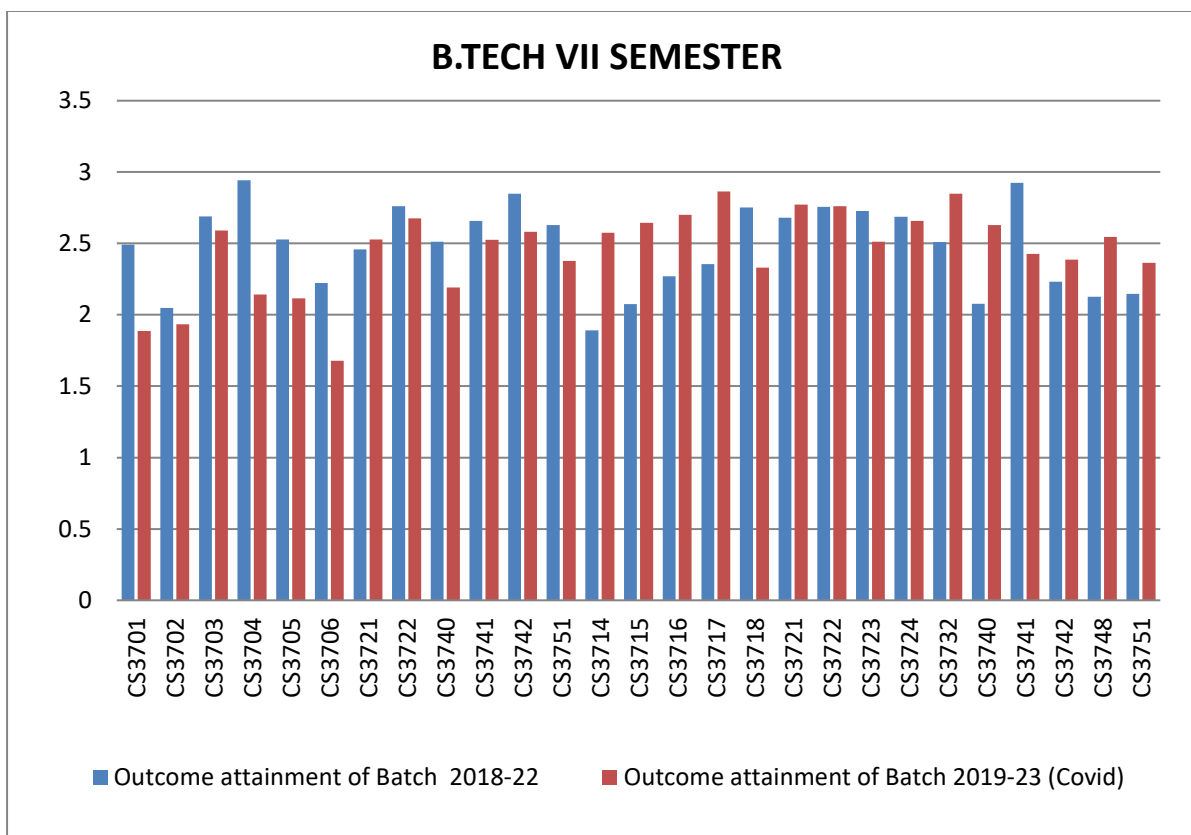
B.Tech. (Computer Science and Engineering)**Table-14 : 4th Year (Semester VII)**

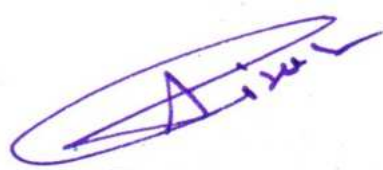
Semester	Course ID.	Outcome attainment of Batch 2018-22	Outcome attainment of Batch 2019-23 (Covid)
VII	CS3701	2.491	1.887
VII	CS3702	2.047	1.933
VII	CS3703	2.690	2.591
VII	CS3704	2.942	2.142
VII	CS3705	2.528	2.116
VII	CS3706	2.223	1.678
VII	CS3721	2.458	2.528
VII	CS3722	2.762	2.675
VII	CS3740	2.513	2.191
VII	CS3741	2.657	2.525
VII	CS3742	2.848	2.582
VII	CS3751	2.629	2.378
VII	CS3714	1.892	2.575
VII	CS3715	2.075	2.644
VII	CS3716	2.271	2.700
VII	CS3717	2.355	2.865
VII	CS3718	2.751	2.330
VII	CS3721	2.681	2.773
VII	CS3722	2.756	2.762
VII	CS3723	2.728	2.513
VII	CS3724	2.686	2.657
VII	CS3732	2.511	2.848
VII	CS3740	2.078	2.629
VII	CS3741	2.925	2.428
VII	CS3742	2.232	2.386
VII	CS3748	2.126	2.546
VII	CS3751	2.146	2.365

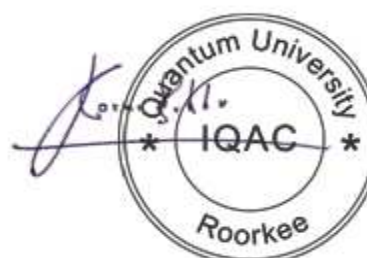


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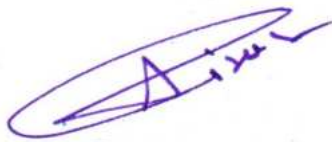

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PO-PSO Attainment for B.Tech. (Computer Science and Engineering)

Table-15 : PO-PSO Attainment Mapping for Batch 2019-23 (On the basis of Curriculum Design)

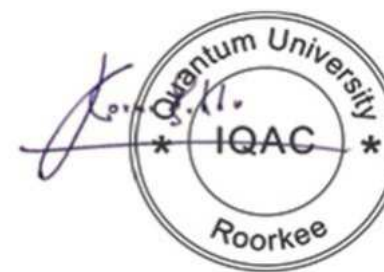
Seme ster	Course ID.	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO1 0	PO1 1	PO1 2	PSO 1	PSO 2	PSO 3	PSO 4	CO Attai ned (AV G)
I	MA3102	2.5	1.75	2	2.5	1.75	1.75	1.75	1.25	2.25	2	2	2	2	2	2.25	2.25	1.887
I	PH3101	3	2	2	2	2	2	2	2	2	2	2	2	3	2	2	3	1.932
I	EG3102	2.25	1.75	2	2	1.75	1.75	1.75	1	1.75	1.75	2	2	2	2	2	1.75	2.590
I	CS3101	3	3	3	2.5	2	2	2	1.5	3	3	3	3	2.5	2.5	2.25	2	2.142
I	ME3102	3	2.25	1.75	2.25	2.25	2.25	1.75	2.25	1.75	1.75	1.75	1.75	3	1.25	1.75	3	1.552
I	CE3101	2.25	2.25	2.25	1.75	1.5	2.25	1.5	2.25	2.25	2.25	2.25	2.25	2	1.75	1.75	1.75	2.115
I	EG3140	0.75	1.5	1.5	2.25	0.75	1.5	0.75	0.75	1.5	2.25	1.5	1.5	1.25	0.75	1.5	1.5	2.271
I	CS3140	2.25	2.25	2.25	1.75	1.5	2.25	1.5	2.25	2.25	2.25	2.25	2.25	2	1.75	1.75	1.75	2.355
I	CE3101	2	2	2	2	2.25	2	3	2	2	2.25	3	2	2	2.25	2	2	2.751
I	VP3101	2.2	2	2	2.2	2	2.2	2.6	2	2	2	2.8	2.4	2	1.8	2.2	2.2	2.591
I	ME3140	2.6	2.4	2.4	2.4	2.8	2.2	2.2	2	2	2.2	2.2	3	2	2.2	2.2	2.2	2.515
II	CS3203	3	2.2	2	2.2	2.4	2.2	2	2.2	2.2	2	2	2	2.8	2	2	2.8	1.933
II	CS3204	2.2	2	2	2.2	2	2.4	2.6	2	2	2	2.8	2	2	1.8	2.2	2.2	2.591
II	CS3205	2.6	2.4	2.4	2.4	2.8	2.2	2.2	2	2	2.2	2.2	3	2	2.2	2.2	2.2	2.142
II	CS3206	2.4	2.2	2.4	2.4	2.8	2	2	2	2.2	2.2	2	3	2	2.2	2.2	2.4	1.552
II	PS3101	2.4	2.4	2.2	2.4	2.6	2.6	2	2.2	2	2.4	2.6	2.6	2	2.4	2.4	2.4	2.075
II	CY3205	2.6	2.4	2.2	2.2	2.8	2.2	2.2	2	2	2.4	2	3	2	2.4	2.4	2.6	2.271
II	MB3201	2	1.5	2.75	2	2.5	1.5	2	2	2.5	1.75	1.5	2.75	1.5	2.5	1.5	2.5	2.751
II	CS3240	2.4	2.6	2.4	1.4	1.8	1.8	2.6	2.4	1.8	2.6	2.6	2	2.6	2	2.6	2.4	2.794


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II	CS3242	2.67	2.33	3	2.33	2	1.67	2	2	3	2.67	3	2.67	2.67	2.33	2.33	2.33	2.906
II	CS3243	2.67	3	2	2.33	2	2	2	2	2.33	2	2	2	2.33	2.67	2	2	2.756
II	CS3244	2.67	2.67	2	2	2	2	2.33	2	2.33	2	2	2	2.33	2.67	2	2	2.756
II	ME3141	2	1.5	2.75	2	2.5	1.5	2	2	2.5	1.75	1.5	2.75	1.5	2.5	1.5	2.5	2.509
II	VP3201	2.2	2	2	2.2	2	2.2	2.6	2	2	2	2.8	2.4	2	2	2.2	2.2	2.591
III	CS3301	2.75	2.5	2.25	2.5	1.75	1.75	2.5	2.25	2	2	2.5	3	2	2	1.5	2.5	2.794
III	CS3307	2.75	2.5	2.25	2.5	1.75	1.75	2.5	2.25	2	2	1.5	3	2	2	1.5	2	2.906
III	EC3306	3	1.5	2.75	2.5	2.5	3	2.5	2	2.5	2	1.5	3	3	2.75	1.5	2	2.756
III	CS3304	2.75	1.5	2.75	2	1.5	3	2.5	2	2.5	2	1.5	3	2	1.5	3	2	2.756
III	CS3305	2.5	2	2.5	2	2.5	2	2.5	2	2.5	2	1.5	3	2.5	2	2.5	2	2.766
III	CS3321	2	1.5	2.75	2	2.5	1.5	2	2	2.5	1.75	1.5	2.75	1.5	2.5	1.5	2.5	2.509
III	CS3322	2.4	2.6	2.4	1.4	1.8	1.8	2.6	2.4	1.8	2.6	2.6	2	2.6	2	2.6	2.4	2.492
III	CS3340	3	2	2.33	2	3	2	2	2.33	2	2.67	2.33	3	3	3	2	2.33	2.630
III	EC3341	2	2	2.33	2	1.33	2.67	2.67	2.33	1.67	2.33	2.67	2.33	2	2.33	2	2	2.443
III	CS3342	3	3	3	2.33	2	2.33	2	1.33	3	3	3	3	2.67	2.33	2.33	2	2.715
III	CS3343	2.67	3	2.67	1.67	1.67	2	2	1.67	2.33	2.33	2.33	2	3	2.67	1.33	2	2.030
III	CS3344	2.4	2.6	2.4	1.4	2.4	2.6	2.4	1.4	1.8	2.6	2.6	2	2.6	2.4	2.6	2.4	2.034
III	CS3351	3	2	3	2.67	2.33	3	3	1.67	2.33	3	3	2.33	2.67	3	2.33	2.33	2.719
III	VP3301	2.4	2.6	2.4	1.4	1.8	1.8	2.6	2.4	2	2.6	2.6	2	2.6	2	2.6	2.4	2.492
III	CS3352	3	1.33	3	2.67	2.33	3	3	1.67	3	3	3	2.33	2.67	2.33	2.33	2.33	2.528
IV	CS3401	2.4	2.6	2.4	1.4	2.4	2.6	2.4	1.4	1.8	2.6	2.6	2	2.6	2.4	2.6	2.4	2.850
IV	CS3402	2.8	2	2	2	2	1.6	2.2	1.8	1.8	2	2.6	2.4	2.2	2.4	2	2	2.075
IV	CS3403	2.5	2.5	2	2.75	2.5	1.25	2.75	2.75	2	2.5	2.5	2.5	2.75	2	2.5	2.5	2.925
IV	CS3404	2.6	2.2	2.4	2	2.2	1.6	2.6	1.8	2.6	2.6	2	2.6	2.8	2	2.6	2.4	2.232
IV	CS3440	2	1.5	1.75	1.5	1.75	1.25	2	1.5	2	2	2	2	2	1.5	0.75	2	2.120
IV	CS3441	2.25	1.25	2	1.25	2	1.5	1.25	2	1.5	1.5	1.5	1.5	2.25	2.25	1.25	2	2.586
IV	VP3401	2	2.2	2.75	2	2.5	1.5	2	2	2.5	2.6	1.5	2.75	1.5	2.5	1.5	2.5	2.708


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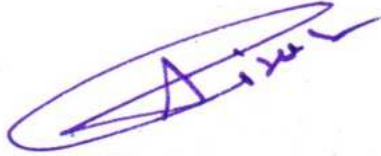


IV	CS3442	2.67	2.33	3	3	2	2.33	3	3	2.33	3	3	3	3	2	3	2	2.884
IV	CS3443	3	3	2	3	2.67	2	3	1.67	1.33	2	1.67	3	3	2.33	2	2	2.753
IV	CS3445	2	2	2	3	2.67	2	2	3	2.67	2	2	2	3	3	2.67	2	2.775
IV	CS3421	2.5	1.75	2.5	0.5	2	2	1.75	1.5	1.5	1.75	2.25	2	2.25	2.25	2.25	2.25	2.543
IV	CS3422	2.75	2.25	2.25	2.5	2.25	2	1.75	2.75	2.5	1.75	1.75	2.25	2.75	2.5	2.25	2.5	2.756
IV	CS3451	3	3	2	3	2.67	2	2	3	2	3	1.67	3	3	2.33	2	2	2.771
IV	CS3452	2	2	2	3	2.67	2	2	3	2	3	2	2	3	2.33	2	2	2.635
V	CS3501	2.6	2.4	2.4	2.4	2.2	2.2	1.8	2.6	2.4	2.4	2	2.4	2.4	2.4	2.2	2.4	2.526
V	CS3502	2.6	2.2	2.4	2.4	2.2	2.2	1.8	2.6	2.4	2.4	2.2	2.2	1.8	2.4	2.2	2.4	2.656
V	CS3504	2.2	2.2	2.2	2.4	2.2	2.2	2.2	2.6	2.4	2.2	2.2	2.2	1.8	2.4	2.2	2.4	2.568
V	CS3505	2.5	2.5	2	2.75	2.5	1.25	2.75	2.5	2	2.25	2.25	2.25	2.25	2.25	2.75	2.5	2.637
V	CS3540	2	2	2.33	2.33	2.33	2	2	1.67	2.67	1.67	2	2.67	2.33	2.67	2	2	2.425
V	CS3541	3	2	2.33	2.33	2.33	1	2	3	2.67	1.67	2	3	2.33	2.67	2	2	2.753
V	CS3542	2	1.5	2.75	2	2.5	1.5	2	2	2.5	2.25	2.75	2.25	1.5	2.5	2	2.5	1.627
V	VP3501	2	2	2	3	2.67	2	2	3	2.67	2	2	2	3	3	2.67	2	2.762
V	CS3543	2.33	1.67	2.33	2.33	1.67	2	1.67	2.33	1.33	2.33	2.33	1.67	2	2.33	2	2.33	1.495
V	CS3521	2	1.5	2.75	2	2.5	1.5	2	2	2.5	2.25	2.75	2.25	1.5	2.5	1.5	2.25	2.283
V	CS3522	2.5	1.75	2.5	1.75	2	2	1.75	1.5	1.5	1.75	2.25	2	2.25	2.25	2.25	2.25	1.736
V	CS3551	2.33	1.67	2.33	2.33	2	2	1.67	2.33	1.33	2.33	2.33	2	2	2.33	2	2.33	1.385
V	CS3552	2.33	1.67	2.33	2.33	2	2	1.67	2.33	2.33	2.33	2	2	2	2.33	2.33	2	1.306
V	CS3553	2.33	1.67	2.33	1.67	2.33	2.33	1.67	2.33	2.33	2.33	2.33	1.67	2.33	2.33	2.33	2	2.460
VI	CS3601	2.25	2.5	2.5	2.75	2.5	2.75	2.75	2.75	2.75	2.25	2.25	2.25	2.75	2.75	2.5	2.75	2.749
VI	CS3603	2.5	2	1.75	1.75	2.5	1.5	2.5	1.5	1.5	1.25	2.25	2.5	2.25	2	1.25	1.25	1.924
VI	CS3604	2.6	1.8	2.4	2	2	2	1.8	2.4	2	2	2	1.8	1.8	2.2	2.2	2.4	2.830
VI	CS3609	2.6	1.8	2.4	2	2.6	1.8	2.4	2	2	2	2	1.8	1.8	2.2	2.2	2.4	2.680
VI	CS3622	2.6	1.8	2.6	2.2	2	2	2.2	2.4	2.2	2	2	2.6	1.8	2.2	2.2	2.4	2.680
VI	VP3601	2	2	2	3	2.67	2	2	3	2.67	2	2	2	3	3	2.67	2	2.762


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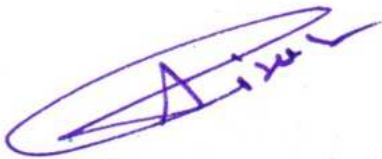


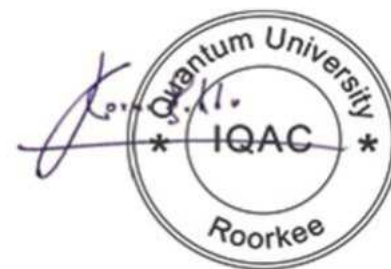
VI	CS3610	2.4	2.5	2	2.55	2.5	1.25	2.75	2.75	2	2.5	2.5	2.5	2.75	2	2.5	2.5	2.513
VI	CS3621	2.6	2.2	2.4	2	2.2	1.6	2.6	1.8	2.6	2.6	2	2.6	2.8	2	2.6	2.4	2.657
VI	CS3640	3	2.33	1.67	2.33	2.33	1	2.33	1.67	2.33	2	2.67	2.67	3	2.33	1.67	2.33	2.290
VI	CS3641	2.33	2.33	2	2.33	2.33	2.33	2.33	2	2.33	2	2.67	2.67	2.33	2.33	2	2.33	2.318
VI	CS3642	2.33	2.33	2	2.33	2.33	2	2.33	2.33	2.33	2	2.67	2.67	2.33	2.33	2	2.33	2.778
VI	CS3643	2.33	2.67	2.33	3	2.67	3	2.67	2.33	2.67	2.33	3	2.67	2.67	2.33	3	2.33	2.456
VI	CS3645	3	2.67	2.67	3	2.67	2.67	2	2.67	2.67	2	2.67	3	3	2.67	2.67	2	2.256
VI	CS3648	3	2.67	3	2.33	2.33	2.67	2.67	2.67	2.33	2.67	2.67	3	2.67	2.33	3	2.67	2.762
VI	CS3649	2.33	2.33	2.33	2.67	2.33	3	2.67	2.67	2.33	2.67	2.67	3	2.67	2.33	3	2.67	2.513
VI	CS3651	2.33	2.33	2.33	2.67	2.33	3	2.67	2.67	2.33	2.67	2.67	3	2.67	2.33	3	2.67	2.657
VI	CS3652	2.33	2.33	2.33	3	2.67	3	2.67	2.67	2.33	2.67	2.67	2.33	3	2.67	3	2.67	2.848
VI	CS3653	2.33	2.33	2.33	3	2.67	3	2.67	3	2.67	3	2.67	2.33	3	2.67	3	2.67	2.629
VI	CS3654	2.33	2.33	2.33	2.67	2.33	3	2.67	2.67	2.33	2.67	2.67	3	2.67	2.33	3	2.33	2.408
VII	CS3701	2.6	2	2.6	2.6	2	2.6	2.2	2.6	2.4	2.2	2	2.6	2.6	2.2	2.2	2.4	1.887
VII	CS3702	2.6	1.8	2.6	2.2	2.6	2.2	2.6	2.4	2.6	2.2	2.6	2.6	2.2	2.6	2.2	2.4	1.933
VII	CS3703	2.6	2	2.6	2.6	2	2.6	2.2	2.6	2.4	2.2	2	2.6	2.6	2.2	2.2	2.4	2.591
VII	CS3704	2.6	2	2.6	2.6	2	2.6	2.2	2	2.6	2.6	2	2.6	2.2	2.6	2.4	2.4	2.142
VII	CS3705	2.6	2	2.8	2	2	2.6	2.2	2.6	2	2.2	2.4	2.6	2.8	2.4	2.4	2.4	2.116
VII	CS3706	2.6	2	2.8	2	2	2.6	2.2	2.6	2	2.8	2.4	2.6	2.8	2.4	2.4	2.8	1.678
VII	CS3721	2.6	2	2.8	2	2	2.6	2.2	2.6	2	2.8	2.4	2.6	2.8	2.4	2.4	3	2.528
VII	CS3722	2.6	1.8	2.6	2.2	2.6	2.2	2.6	2.4	2.6	2.2	2.6	2.6	2.2	2.6	2.2	2.4	2.675
VII	CS3740	2.33	2.33	2.33	3	2.33	3	2.67	3	2.33	2.67	2.67	3	2.67	2.33	3	2.67	2.191
VII	CS3741	2.33	2.33	2.33	3	2.33	2.33	1.67	2.67	2	2	2.33	2.33	2.67	3	2.67	1.67	2.525
VII	CS3742	1.67	1.67	1.67	2	2	2.67	2.67	1.33	1.33	2.67	3	2	2	2.33	2.67	2	2.582
VII	CS3722	2.4	2.2	2.4	2.4	2.8	2	2	2	2.2	2.2	2	3	2	2.2	2.2	2.4	2.378
VII	CS3721	3	2.25	1.75	2.25	2.25	2.25	1.75	2.25	1.75	1.75	1.75	1.75	3	1.25	1.75	3	2.575
VII	CS3751	1.5	1.5	1.75	2	1.75	2.5	2.25	1.25	1.25	2	2.75	1.75	1.75	2	1.75	1.75	2.644


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VIII	CS3801	1.5	1.5	1.75	2	1.75	2.5	2.25	1.25	1.25	2	2.75	1.75	1.75	2	2	2	2.753
VIII	CS3802	1.5	1.5	1.75	2	1.75	2.5	2.25	1.25	1.25	2	2.75	1.75	1.75	2	1	2	1.887
VIII	CS3803	2.6	2	2.8	2	2	2.6	2.2	2.6	2	2.2	2.4	2.6	2.8	2.4	2.4	2.4	1.933
VIII	CS3804	2.6	2	2.8	2	2	2.6	2.8	2.6	2	2.2	2.8	2.6	2.8	2.4	2.4	2.4	2.591
VIII	CS3805	2.6	1.8	2.6	2.2	2.6	2.2	2.6	2.4	2.6	2.2	2.6	2.6	2.2	2.6	2.2	2.4	2.142
VIII	CS3806	2.6	2	2.8	2	2	2.8	2	2.2	2.8	2.6	2	2.6	2.8	2.4	2.4	2	1.552
VIII	CS3807	s	2.33	2.33	2.67	2.33	3	2.67	2.67	2.33	2.67	2.67	3	2.67	2.33	3	2.33	2.680
VIII	CS3821	1.5	1.5	1.75	2	1.75	2.5	2.25	1.25	1.25	2	2.75	1.75	1.75	2	2	2.5	2.425


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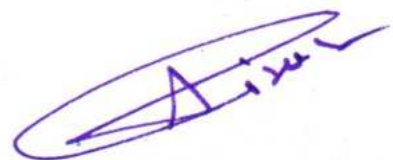


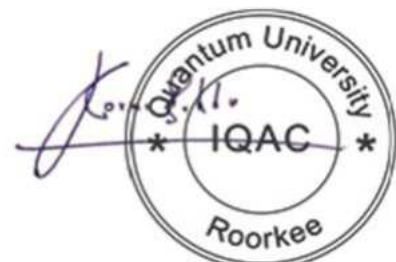
Attainment on the Basis of Mapping/ Weightage of PO-PSOs

PO-PSO for B.Tech. (Computer Science and Engineering)

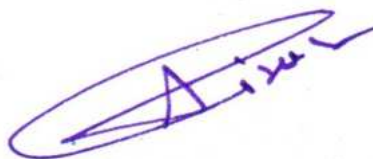
Table-16 : PO-PSO Attainment Calculation for Batch 2019-23

Semester	Course ID.	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12	PSO1	PSO2	PSO3	PSO4
I	MA3102	1.57	1.1	1.26	1.57	1.1	1.1	1.1	0.79	1.42	1.26	1.26	1.26	1.26	1.26	1.42	1.42
I	PH3101	1.93	1.29	1.29	1.29	1.29	1.29	1.29	1.29	1.29	1.29	1.29	1.29	1.93	1.29	1.29	1.93
I	EG3102	1.94	1.51	1.73	1.73	1.51	1.51	1.51	0.86	1.51	1.51	1.73	1.73	1.73	1.73	1.73	1.51
I	CS3101	2.14	2.14	2.14	1.78	1.43	1.43	1.43	1.07	2.14	2.14	2.14	2.14	1.78	1.78	1.61	1.43
I	ME3102	1.55	1.16	0.91	1.16	1.16	1.16	0.91	1.16	0.91	0.91	0.91	0.91	1.55	0.65	0.91	1.55
I	CE3101	1.59	1.59	1.59	1.23	1.06	1.59	1.06	1.59	1.59	1.59	1.59	1.59	1.41	1.23	1.23	1.23
I	EG3140	0.57	1.14	1.14	1.7	0.57	1.14	0.57	0.57	1.14	1.7	1.14	1.14	0.95	0.57	1.14	1.14
I	CS3140	1.77	1.77	1.77	1.37	1.18	1.77	1.18	1.77	1.77	1.77	1.77	1.77	1.57	1.37	1.37	1.37
I	CE3101	1.83	1.83	1.83	1.83	2.06	1.83	2.75	1.83	1.83	2.06	2.75	1.83	1.83	2.06	1.83	1.83
I	VP3101	1.9	1.73	1.73	1.9	1.73	1.9	2.25	1.73	1.73	1.73	2.42	2.07	1.73	1.55	1.9	1.9
I	ME3140	2.18	2.01	2.01	2.01	2.35	1.84	1.84	1.68	1.68	1.84	1.84	2.51	1.68	1.84	1.84	1.84
II	CS3203	1.93	1.42	1.29	1.42	1.55	1.42	1.29	1.42	1.42	1.29	1.29	1.29	1.8	1.29	1.29	1.8
II	CS3204	1.9	1.73	1.73	1.9	1.73	2.07	2.25	1.73	1.73	1.73	2.42	1.73	1.73	1.55	1.9	1.9
II	CS3205	1.86	1.71	1.71	1.71	2	1.57	1.57	1.43	1.43	1.57	1.57	2.14	1.43	1.57	1.57	1.57
II	CS3206	1.24	1.14	1.24	1.24	1.45	1.03	1.03	1.03	1.14	1.14	1.03	1.55	1.03	1.14	1.14	1.24
II	PS3101	1.66	1.66	1.52	1.66	1.8	1.8	1.38	1.52	1.38	1.66	1.8	1.8	1.38	1.66	1.66	1.66
II	CY3205	1.97	1.82	1.67	1.67	2.12	1.67	1.67	1.51	1.51	1.82	1.51	2.27	1.51	1.82	1.82	1.97
II	MB3201	1.83	1.38	2.52	1.83	2.29	1.38	1.83	1.83	2.29	1.6	1.38	2.52	1.38	2.29	1.38	2.29
II	CS3240	2.24	2.42	2.24	1.3	1.68	1.68	2.42	2.24	1.68	2.42	2.42	1.86	2.42	1.86	2.42	2.24


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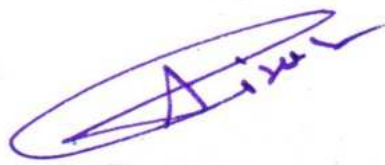


II	CS3242	2.59	2.26	2.91	2.26	1.94	1.62	1.94	1.94	2.91	2.59	2.91	2.59	2.59	2.26	2.26	2.26
II	CS3243	2.45	2.76	1.84	2.14	1.84	1.84	1.84	1.84	2.14	1.84	1.84	1.84	2.14	2.45	1.84	1.84
II	CS3244	2.45	2.45	1.84	1.84	1.84	1.84	2.14	1.84	2.14	1.84	1.84	1.84	2.14	2.45	1.84	1.84
II	ME3141	1.67	1.25	2.3	1.67	2.09	1.25	1.67	1.67	2.09	1.46	1.25	2.3	1.25	2.09	1.25	2.09
II	VP3201	1.9	1.73	1.73	1.9	1.73	1.9	2.25	1.73	1.73	1.73	2.42	2.07	1.73	1.73	1.9	1.9
III	CS3301	2.56	2.33	2.1	2.33	1.63	1.63	2.33	2.1	1.86	1.86	2.33	2.79	1.86	1.86	1.4	2.33
III	CS3307	2.66	2.42	2.18	2.42	1.7	1.7	2.42	2.18	1.94	1.94	1.45	2.91	1.94	1.94	1.45	1.94
III	EC3306	2.76	1.38	2.53	2.3	2.3	2.76	2.3	1.84	2.3	1.84	1.38	2.76	2.76	2.53	1.38	1.84
III	CS3304	2.53	1.38	2.53	1.84	1.38	2.76	2.3	1.84	2.3	1.84	1.38	2.76	1.84	1.38	2.76	1.84
III	CS3305	2.31	1.84	2.31	1.84	2.31	1.84	2.31	1.84	2.31	1.84	1.38	2.77	2.31	1.84	2.31	1.84
III	CS3321	1.67	1.25	2.3	1.67	2.09	1.25	1.67	1.67	2.09	1.46	1.25	2.3	1.25	2.09	1.25	2.09
III	CS3322	1.99	2.16	1.99	1.16	1.49	1.49	2.16	1.99	1.49	2.16	2.16	1.66	2.16	1.66	2.16	1.99
III	CS3340	2.63	1.75	2.04	1.75	2.63	1.75	1.75	2.04	1.75	2.34	2.04	2.63	2.63	2.63	1.75	2.04
III	EC3341	1.63	1.63	1.9	1.63	1.08	2.17	2.17	1.9	1.36	1.9	2.17	1.9	1.63	1.9	1.63	1.63
III	CS3342	2.72	2.72	2.72	2.11	1.81	2.11	1.81	1.2	2.72	2.72	2.72	2.72	2.42	2.11	2.11	1.81
III	CS3343	1.81	2.03	1.81	1.13	1.13	1.35	1.35	1.13	1.58	1.58	1.58	1.35	2.03	1.81	0.9	1.35
III	CS3344	1.63	1.76	1.63	0.95	1.63	1.76	1.63	0.95	1.22	1.76	1.76	1.36	1.76	1.63	1.76	1.63
III	CS3351	2.72	1.81	2.72	2.42	2.11	2.72	2.72	1.51	2.11	2.72	2.72	2.11	2.42	2.72	2.11	2.11
III	VP3301	1.99	2.16	1.99	1.16	1.49	1.49	2.16	1.99	1.66	2.16	2.16	1.66	2.16	1.66	2.16	1.99
III	CS3352	2.53	1.12	2.53	2.25	1.96	2.53	2.53	1.41	2.53	2.53	2.53	1.96	2.25	1.96	1.96	1.96
IV	CS3401	2.28	2.47	2.28	1.33	2.28	2.47	2.28	1.33	1.71	2.47	2.47	1.9	2.47	2.28	2.47	2.28
IV	CS3402	1.94	1.38	1.38	1.38	1.38	1.11	1.52	1.25	1.25	1.38	1.8	1.66	1.52	1.66	1.38	1.38
IV	CS3403	2.44	2.44	1.95	2.68	2.44	1.22	2.68	2.68	1.95	2.44	2.44	2.44	2.68	1.95	2.44	2.44
IV	CS3404	1.93	1.64	1.79	1.49	1.64	1.19	1.93	1.34	1.93	1.93	1.49	1.93	2.08	1.49	1.93	1.79
IV	CS3440	1.41	1.06	1.24	1.06	1.24	0.88	1.41	1.06	1.41	1.41	1.41	1.41	1.41	1.06	0.53	1.41


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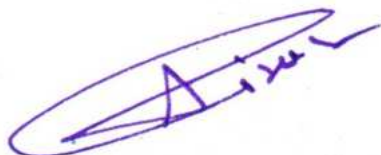


IV	CS3441	1.94	1.08	1.72	1.08	1.72	1.29	1.08	1.72	1.29	1.29	1.29	1.29	1.94	1.94	1.08	1.72
IV	VP3401	1.81	1.99	2.48	1.81	2.26	1.35	1.81	1.81	2.26	2.35	1.35	2.48	1.35	2.26	1.35	2.26
IV	CS3442	2.57	2.24	2.88	2.88	1.92	2.24	2.88	2.88	2.24	2.88	2.88	2.88	2.88	1.92	2.88	1.92
IV	CS3443	2.75	2.75	1.84	2.75	2.45	1.84	2.75	1.53	1.22	1.84	1.53	2.75	2.75	2.14	1.84	1.84
IV	CS3445	1.85	1.85	1.85	2.78	2.47	1.85	1.85	2.78	2.47	1.85	1.85	1.85	2.78	2.78	2.47	1.85
IV	CS3421	2.12	1.48	2.12	0.42	1.7	1.7	1.48	1.27	1.27	1.48	1.91	1.7	1.91	1.91	1.91	1.91
IV	CS3422	2.53	2.07	2.07	2.3	2.07	1.84	1.61	2.53	2.3	1.61	1.61	2.07	2.53	2.3	2.07	2.3
IV	CS3451	2.77	2.77	1.85	2.77	2.47	1.85	1.85	2.77	1.85	2.77	1.54	2.77	2.77	2.15	1.85	1.85
IV	CS3452	1.76	1.76	1.76	2.63	2.34	1.76	1.76	2.63	1.76	2.63	1.76	1.76	2.63	2.05	1.76	1.76
V	CS3501	2.19	2.02	2.02	2.02	1.85	1.85	1.52	2.19	2.02	2.02	1.68	2.02	2.02	2.02	1.85	2.02
V	CS3502	2.3	1.95	2.12	2.12	1.95	1.95	1.59	2.3	2.12	2.12	1.95	1.95	1.59	2.12	1.95	2.12
V	CS3504	1.88	1.88	1.88	2.05	1.88	1.88	1.88	2.23	2.05	1.88	1.88	1.88	1.54	2.05	1.88	2.05
V	CS3505	2.2	2.2	1.76	2.42	2.2	1.1	2.42	2.2	1.76	1.98	1.98	1.98	1.98	1.98	2.42	2.2
V	CS3540	1.62	1.62	1.88	1.88	1.88	1.62	1.62	1.35	2.16	1.35	1.62	2.16	1.88	2.16	1.62	1.62
V	CS3541	2.75	1.84	2.14	2.14	2.14	0.92	1.84	2.75	2.45	1.53	1.84	2.75	2.14	2.45	1.84	1.84
V	CS3542	1.08	0.81	1.49	1.08	1.36	0.81	1.08	1.08	1.36	1.22	1.49	1.22	0.81	1.36	1.08	1.36
V	VP3501	1.84	1.84	1.84	2.76	2.46	1.84	1.84	2.76	2.46	1.84	1.84	1.84	2.76	2.76	2.46	1.84
V	CS3543	1.16	0.83	1.16	1.16	0.83	1	0.83	1.16	0.66	1.16	1.16	0.83	1	1.16	1	1.16
V	CS3521	1.52	1.14	2.09	1.52	1.9	1.14	1.52	1.52	1.9	1.71	2.09	1.71	1.14	1.9	1.14	1.71
V	CS3522	1.45	1.01	1.45	1.01	1.16	1.16	1.01	0.87	0.87	1.01	1.3	1.16	1.3	1.3	1.3	1.3
V	CS3551	1.08	0.77	1.08	1.08	0.92	0.92	0.77	1.08	0.61	1.08	1.08	0.92	0.92	1.08	0.92	1.08
V	CS3552	1.01	0.73	1.01	1.01	0.87	0.87	0.73	1.01	1.01	1.01	0.87	0.87	0.87	1.01	1.01	0.87
V	CS3553	1.91	1.37	1.91	1.37	1.91	1.91	1.37	1.91	1.91	1.91	1.91	1.37	1.91	1.91	1.91	1.64
VI	CS3601	2.06	2.29	2.29	2.52	2.29	2.52	2.52	2.52	2.52	2.06	2.06	2.06	2.52	2.52	2.29	2.52
VI	CS3603	1.6	1.28	1.12	1.12	1.6	0.96	1.6	0.96	0.96	0.8	1.44	1.6	1.44	1.28	0.8	0.8


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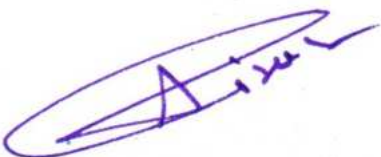


VI	CS3604	2.45	1.7	2.26	1.89	1.89	1.89	1.7	2.26	1.89	1.89	1.89	1.7	1.7	2.08	2.08	2.26
VI	CS3609	2.32	1.61	2.14	1.79	2.32	1.61	2.14	1.79	1.79	1.79	1.79	1.61	1.61	1.97	1.97	2.14
VI	CS3622	2.32	1.61	2.32	1.97	1.79	1.79	1.97	2.14	1.97	1.79	1.79	2.32	1.61	1.97	1.97	2.14
VI	VP3601	1.84	1.84	1.84	2.76	2.46	1.84	1.84	2.76	2.46	1.84	1.84	1.84	2.76	2.76	2.46	1.84
VI	CS3610	2.01	2.09	1.68	2.14	2.09	1.05	2.3	2.3	1.68	2.09	2.09	2.09	2.3	1.68	2.09	2.09
VI	CS3621	2.3	1.95	2.13	1.77	1.95	1.42	2.3	1.59	2.3	2.3	1.77	2.3	2.48	1.77	2.3	2.13
VI	CS3640	2.29	1.78	1.27	1.78	1.78	0.76	1.78	1.27	1.78	1.53	2.04	2.04	2.29	1.78	1.27	1.78
VI	CS3641	1.8	1.8	1.55	1.8	1.8	1.8	1.8	1.55	1.8	1.55	2.06	2.06	1.8	1.8	1.55	1.8
VI	CS3642	2.16	2.16	1.85	2.16	2.16	1.85	2.16	2.16	2.16	1.85	2.47	2.47	2.16	2.16	1.85	2.16
VI	CS3643	1.91	2.19	1.91	2.46	2.19	2.46	2.19	1.91	2.19	1.91	2.46	2.19	2.19	1.91	2.46	1.91
VI	CS3645	2.26	2.01	2.01	2.26	2.01	2.01	1.5	2.01	2.01	1.5	2.01	2.26	2.26	2.01	2.01	1.5
VI	CS3648	2.76	2.46	2.76	2.15	2.15	2.46	2.46	2.46	2.15	2.46	2.46	2.76	2.46	2.15	2.76	2.46
VI	CS3649	1.95	1.95	1.95	2.24	1.95	2.51	2.24	2.24	1.95	2.24	2.24	2.51	2.24	1.95	2.51	2.24
VI	CS3651	2.06	2.06	2.06	2.36	2.06	2.66	2.36	2.36	2.06	2.36	2.36	2.66	2.36	2.06	2.66	2.36
VI	CS3652	2.21	2.21	2.21	2.85	2.53	2.85	2.53	2.53	2.21	2.53	2.53	2.21	2.85	2.53	2.85	2.53
VI	CS3653	2.04	2.04	2.04	2.63	2.34	2.63	2.34	2.63	2.34	2.63	2.34	2.04	2.63	2.34	2.63	2.34
VI	CS3654	1.87	1.87	1.87	2.14	1.87	2.41	2.14	2.14	1.87	2.14	2.14	2.41	2.14	1.87	2.41	1.87
VII	CS3701	1.64	1.26	1.64	1.64	1.26	1.64	1.38	1.64	1.51	1.38	1.26	1.64	1.64	1.38	1.38	1.51
VII	CS3702	1.67	1.16	1.67	1.42	1.67	1.42	1.67	1.55	1.67	1.42	1.67	1.67	1.42	1.67	1.42	1.55
VII	CS3703	2.25	1.73	2.25	2.25	1.73	2.25	1.9	2.25	2.07	1.9	1.73	2.25	2.25	1.9	1.9	2.07
VII	CS3704	1.86	1.43	1.86	1.86	1.43	1.86	1.57	1.43	1.86	1.86	1.43	1.86	1.57	1.86	1.71	1.71
VII	CS3705	1.83	1.41	1.97	1.41	1.41	1.83	1.55	1.83	1.41	1.55	1.69	1.83	1.97	1.69	1.69	1.69
VII	CS3706	1.45	1.12	1.57	1.12	1.12	1.45	1.23	1.45	1.12	1.57	1.34	1.45	1.57	1.34	1.34	1.57
VII	CS3721	2.19	1.69	2.36	1.69	1.69	2.19	1.85	2.19	1.69	2.36	2.02	2.19	2.36	2.02	2.02	2.53
VII	CS3722	2.32	1.61	2.32	1.96	2.32	1.96	2.32	2.14	2.32	1.96	2.32	2.32	1.96	2.32	1.96	2.14


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VII	CS3740	1.7	1.7	1.7	2.19	1.7	2.19	1.95	2.19	1.7	1.95	1.95	2.19	1.95	1.7	2.19	1.95
VII	CS3741	1.96	1.96	1.96	2.53	1.96	1.96	1.41	2.25	1.68	1.68	1.96	1.96	2.25	2.53	2.25	1.41
VII	CS3742	1.44	1.44	1.44	1.72	1.72	2.3	2.3	1.14	1.14	2.3	2.58	1.72	1.72	2	2.3	1.72
VII	CS3722	1.9	1.74	1.9	1.9	2.22	1.59	1.59	1.59	1.74	1.74	1.59	2.38	1.59	1.74	1.74	1.9
VII	CS3721	2.58	1.93	1.5	1.93	1.93	1.93	1.5	1.93	1.5	1.5	1.5	1.5	2.58	1.07	1.5	2.58
VII	CS3751	1.32	1.32	1.54	1.76	1.54	2.2	1.98	1.1	1.1	1.76	2.42	1.54	1.54	1.76	1.54	1.54
VIII	CS3801	1.38	1.38	1.61	1.84	1.61	2.29	2.06	1.15	1.15	1.84	2.52	1.61	1.61	1.84	1.84	1.84
VIII	CS3802	0.94	0.94	1.1	1.26	1.1	1.57	1.42	0.79	0.79	1.26	1.73	1.1	1.1	1.26	0.63	1.26
VIII	CS3803	1.67	1.29	1.8	1.29	1.29	1.67	1.42	1.67	1.29	1.42	1.55	1.67	1.8	1.55	1.55	1.55
VIII	CS3804	2.25	1.73	2.42	1.73	1.73	2.25	2.42	2.25	1.73	1.9	2.42	2.25	2.42	2.07	2.07	2.07
VIII	CS3805	1.86	1.28	1.86	1.57	1.86	1.57	1.86	1.71	1.86	1.57	1.86	1.86	1.57	1.86	1.57	1.71
VIII	CS3806	1.35	1.03	1.45	1.03	1.03	1.45	1.03	1.14	1.45	1.35	1.03	1.35	1.45	1.24	1.24	1.03
VIII	CS3807	1.36	2.08	2.08	2.38	2.08	2.68	2.38	2.38	2.08	2.38	2.38	2.68	2.38	2.08	2.68	2.08
VIII	CS3821	1.21	1.21	1.41	1.62	1.41	2.02	1.82	1.01	1.01	1.62	2.22	1.41	1.41	1.62	1.62	2.02
	AVERAGE	1.96	1.71	1.88	1.82	1.79	1.74	1.82	1.76	1.76	1.82	1.86	1.95	1.92	1.85	1.79	1.83


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Indirect Attainment on the basis of Mapping done by Alumni of B.Tech. (Computer Science and Engineering)

Table-17
Calculations based on mapping score of 58 Alumnus

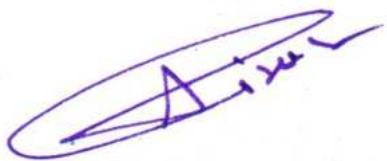
	Mapping by Alumni for PO1				Mapping by Alumni for PO2				Mapping by Alumni for PO3				Mapping by Alumni for PO4				Mapping by Alumni for PO5				Mapping by Alumni for PO6				Mapping by Alumni for PO7				Mapping by Alumni for PO8				Mapping by Alumni for PO9				Mapping by Alumni for PO10			
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AF OC 01	1	3	2	5	2	4	0	2	2	8	8	0	0	5	4	9	0	2	5	1	4	5	2	7	2	5	2	9	2	3	8	5	0	4	0	4	1	5	5	7
AF OC 02	2	8	6	4	1	6	8	3	3	5	9	1	0	3	7	8	1	6	8	3	0	4	5	9	3	5	0	0	1	5	0	2	0	0	0	8	2	0	5	1
AF OC	2	6	8	4	3	5	2	2	2	4	1	3	1	5	1	3	4	1	1	2	2	7	1	3	2	1	1	2	2	5	2	3	1	2	1	4	1	2	1	2


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03				2			5	5			7	5			8	4		5	0	9			8	1			8	2	6			0	1			0	5		0	0	7
AF OC 04			1	3				4			1	3		1	1	3		1	1	3			2	3			1	4				5			1	3		1	1	3	
	3	7	2	6	1	6	4	7	1	9	8	0	4	0	2	2	0	0	7	1	2	5	0	1	0	0	0	8	3	1	4	0	2	5	5	6	1	5	2	0	
AF OC 05				4		1	1	2		1		3				4				5			2	2			1	1	3		1	1	2			1	2			1	4
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AF OC 06		1	1	3			2	3		2		2		1	1	3		1	1	2			2	2			1	1	3				5				5		2	1	2
	1	0	5	2	1	7	0	0	3	2	7	6	4	0	2	2	2	5	5	6	2	5	5	6	2	0	5	1	0	1	1	6	1	2	4	1	0	0	0	8	
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	3	9	0	6	2	2	5	9	2	5	5	6	3	2	2	1	1	7	0	0	4	5	4	5	0	5	5	8	2	0	5	1	2	5	0	1	2	8	0	8	
AF OC 08		2	1	2			1	3			2	3		1	1	2				2	2		1	1	2			2	3			1	4		1	1	3		1	1	2
	2	0	3	3	3	9	5	1	2	5	0	1	4	3	4	7	2	5	5	6	3	4	6	5	0	5	0	3	1	0	0	7	1	0	6	1	1	8	4	5	
AF OC 09		1	1	2		1	1	2			2	2		1	1	2				4		2	1	2			1	3				5				4		1	1	3	
	2	7	4	5	2	4	7	5	1	8	0	9	3	4	5	6	1	1	7	9	0	0	0	8	0	6	8	4	2	2	2	2	3	4	5	6	1	0	6	1	

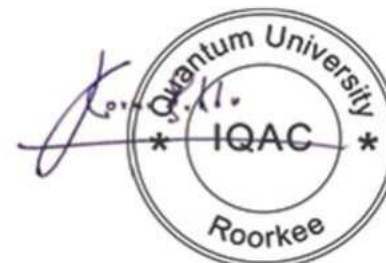
- 0- Not Mapped
- 1- Slighted Mapped
- 2-Moderately Mapped


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- **3- Highly Mapped**


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**Indirect Attainment on the basis of Observed Weight age in Program Outcome assigned by
Alumni of Bachelors of B.Tech. (Computer Science and Engineering)**

(Responses based on mapping score of 58 Alumnus)

Table-17 A

PO/AFOC Attainment Calculation for Batch 2020-23

Observed Weightage in Program Outcomes											Indirect Attainment Based on Feedback of Alumni	
Alumni Feedback	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	Avg. Value of feedback	Attainme nt
AFOC01	2.81	2.41	2.14	2.76	2.84	2.07	2.34	2.48	2.52	2.69	2.75	2
AFOC02	2.52	2.60	2.34	2.78	2.60	2.78	2.16	2.43	2.83	2.29	2.7	2
AFOC03	2.55	2.24	2.47	2.47	2.10	2.34	2.07	2.38	2.71	2.09	2.1	2
AFOC04	2.40	2.67	2.33	2.24	2.36	2.38	2.83	2.74	2.47	2.22	2.8	2
AFOC05	2.67	2.12	2.14	2.60	2.83	2.36	2.33	2.22	2.24	2.72	2.8	2
AFOC06	2.34	2.36	1.97	2.24	2.12	2.29	2.29	2.95	2.81	2.14	2.3	2
AFOC07	2.19	2.40	1.95	2.22	2.19	2.03	2.74	2.29	2.21	2.10	2.6	2
AFOC08	1.98	2.28	2.38	2.10	2.29	2.09	2.48	2.78	2.33	2.09	2.15	2
AFOC09	2.07	2.12	2.33	2.10	2.79	2.14	2.48	2.79	2.62	2.33	2.85	2
Average	2.39	2.36	2.23	2.39	2.46	2.28	2.41	2.56	2.52	2.30		

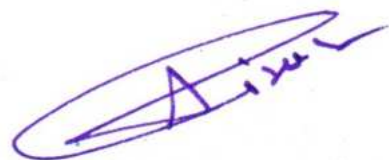
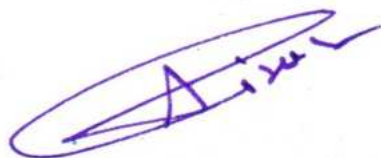

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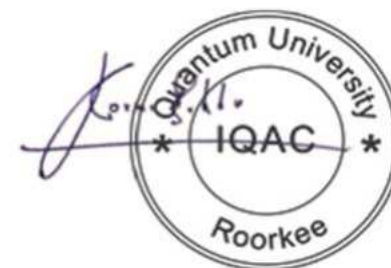


Table-18
PO/AFOC Attainment Calculation for Batch 2020-23

Feedback Weighted Mapping of Program Outcome towards Indirect Attainment

Alumni Feedback of Curriculum	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10
AFOC01	1.874	1.609	1.425	1.839	1.897	1.379	1.563	1.655	1.678	1.793
AFOC02	1.678	1.736	1.563	1.851	1.736	1.851	1.437	1.621	1.885	1.529
AFOC03	0.851	0.747	0.822	0.822	0.701	0.782	0.690	0.793	0.902	0.695
AFOC04	1.598	1.782	1.552	1.494	1.575	1.586	1.885	1.828	1.644	1.483
AFOC05	1.782	1.414	1.425	1.736	1.885	1.575	1.552	1.483	1.494	1.816
AFOC06	0.782	0.787	0.655	0.747	0.707	0.764	0.764	0.983	0.937	0.713
AFOC07	1.460	1.598	1.299	1.483	1.460	1.356	1.828	1.529	1.471	1.402
AFOC08	1.322	1.517	1.586	1.402	1.529	1.391	1.655	1.851	1.552	1.391
AFOC09	1.379	1.414	1.552	1.402	1.862	1.425	1.655	1.862	1.747	1.552
Indirect Attainment	1.414	1.400	1.320	1.420	1.483	1.345	1.448	1.511	1.479	1.375


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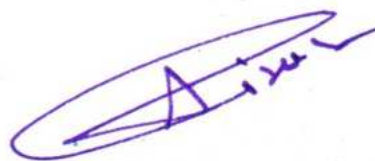


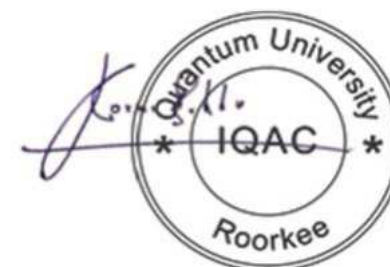
Indirect Attainment on the basis of Mapping done by Alumni of B.Tech. (Computer Science and Engineering)

Table-19

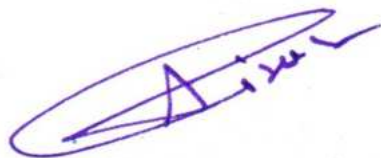
Calculations based on mapping score of 43 Employers

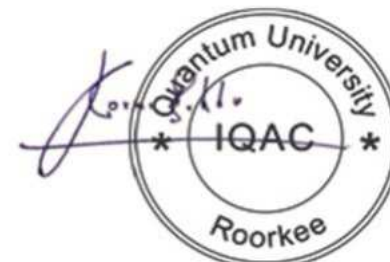
	Mapping by Alumni for PO1				Mapping by Alumni for PO2				Mapping by Alumni for PO3				Mapping by Alumni for PO4				Mapping by Alumni for PO5				Mapping by Alumni for PO6				Mapping by Alumni for PO7				Mapping by Alumni for PO8				Mapping by Alumni for PO9				Mapping by Alumni for PO10			
	0	1	2	3	0	1	2	3	0	1	2	3	0	1	2	3	0	1	2	3	0	1	2	3	0	1	2	3	0	1	2	3	0	1	2	3	0	1	2	3
EF OC 01	1	3	2	7	1	4	3	5	2	8	8	5	4	8	0	1	0	4	2	7	1	7	5	0	2	3	8	0	2	0	0	1	0	7	4	2	1	5	5	2
EF OC 02	2	4	6	1	1	6	8	8	2	4	5	2	4	7	1	1	1	8	0	4	2	9	2	0	3	5	0	5	1	5	2	5	0	0	0	3	2	4	4	3
EF OC 03	2	3	3	5	3	5	3	2	2	2	3	6	2	7	0	4	2	5	0	6	1	4	8	0	2	4	0	7	2	5	0	6	1	2	0	0	1	0	7	5
EF OC 04	2	2	7	2	1	4	0	8	1	1	7	4	4	2	0	7	0	0	7	6	2	2	2	7	0	0	0	3	3	1	5	4	2	5	5	1	1	8	2	2
EF OC	1	2	5	3	2	1	1	1	2	6	1	2	1	1	1	2	0	1	1	2	1	4	8	3	1	2	2	3	0	1	1	1	3	4	1	2	2	1	1	1


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EF OC 06			1	2				3			1	2		1	1	1			1	2				3				3				4			3		1	1	1	
	1	7	5	0	1	4	4	4	3	3	0	7	4	0	2	7	2	4	5	2	1	4	4	4	2	4	4	3	0	1	1	1	1	2	4	6	0	7	0	6
EF OC 07			1	1			1	2		1	1	2				3			1	1				3			1	2		1	1	1			2				3	
	3	6	8	6	2	5	4	2	2	0	0	1	0	2	4	7	2	7	5	9	0	7	2	4	3	5	5	0	2	0	5	6	2	5	7	9	2	4	6	1
EF OC 08			1	1			1	1		1	1	1				3				3		1	1	1			1	2		1	1	2			1	2			4	
	2	0	2	9	3	9	5	6	2	0	2	9	0	4	5	4	0	4	4	5	3	0	5	5	2	5	2	4	1	0	2	0	1	2	2	8	1	0	2	0
EF OC 09			1	1		1	1	1			1	2			1	2			1	2		1	1	1			1	1				3			3		1	1	2	
	2	1	1	9	2	4	2	5	1	6	5	1	1	5	2	5	2	4	2	5	0	5	3	5	4	7	4	8	2	2	2	7	3	2	4	4	1	0	0	2

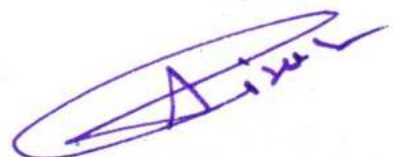

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**Indirect Attainment on the basis of Observed Weight age in Program Outcome assigned by
Employer of B.Tech. (Computer Science and Engineering)
(Responses based on mapping score of 43 Employers)**

**Table-20
PO/EFOC Attainment Calculation for Batch 2020-23**

Observed Weightage in Program Outcomes											Indirect Attainment	
Employer Feedback	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	Average Value of feedback (2022-23)	Indirect Attainment
EFOC01	2.74	2.67	2.07	2.12	2.77	2.26	2.30	2.16	2.12	2.58	3	3
EFOC02	2.53	2.47	2.56	2.14	2.33	2.16	1.86	2.65	2.77	2.35	2.71	2
EFOC03	2.65	2.49	2.70	2.30	2.16	2.33	1.98	2.16	2.60	2.77	2.86	2
EFOC04	2.14	2.51	2.72	1.93	2.14	2.72	2.77	2.40	2.28	2.28	2.14	2
EFOC05	2.72	1.93	2.23	2.21	2.26	2.56	2.79	2.00	2.26	2.07	2.43	2
EFOC06	2.26	2.65	2.42	1.98	2.33	2.65	2.58	2.93	2.74	1.98	2.71	2
EFOC07	2.09	2.30	2.16	2.81	2.19	2.63	2.21	2.05	2.47	2.53	2.71	2
EFOC08	2.12	2.02	2.12	2.70	2.72	1.98	2.35	2.19	2.56	2.88	2.57	2
EFOC09	2.09	1.93	2.30	2.42	2.40	2.00	2.07	2.72	2.60	2.23	3.14	3
Average	2.37	2.33	2.36	2.29	2.36	2.36	2.32	2.36	2.49	2.41		


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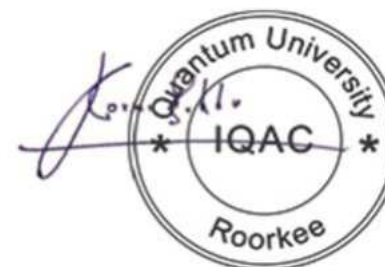
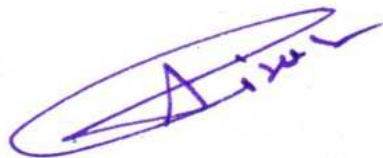


Table-21
PO/EFOC Attainment Calculation for Batch 2020-23

Feedback Weighted Mapping of Program Outcome towards Indirect Attainment

Employer's Feedback of Curriculum	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10
EFOC01	2.744	2.674	2.070	2.116	2.767	2.256	2.302	2.163	2.116	2.581
EFOC02	1.690	1.643	1.705	1.426	1.550	1.442	1.240	1.767	1.845	1.566
EFOC03	1.767	1.659	1.798	1.535	1.442	1.550	1.318	1.442	1.736	1.845
EFOC04	1.426	1.674	1.814	1.287	1.426	1.814	1.845	1.597	1.519	1.519
EFOC05	1.814	1.287	1.488	1.473	1.504	1.705	1.860	1.333	1.504	1.380
EFOC06	1.504	1.767	1.612	1.318	1.550	1.767	1.721	1.953	1.829	1.318
EFOC07	1.395	1.535	1.442	1.876	1.457	1.752	1.473	1.364	1.643	1.690
EFOC08	1.411	1.349	1.411	1.798	1.814	1.318	1.566	1.457	1.705	1.922
EFOC09	2.093	1.930	2.302	2.419	2.395	2.000	2.070	2.721	2.605	2.233
Indirect Attainment	1.761	1.724	1.738	1.694	1.767	1.734	1.711	1.755	1.834	1.784


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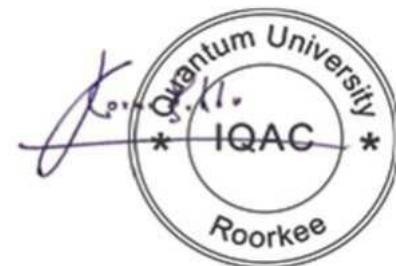
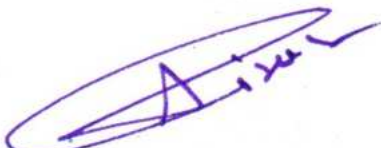


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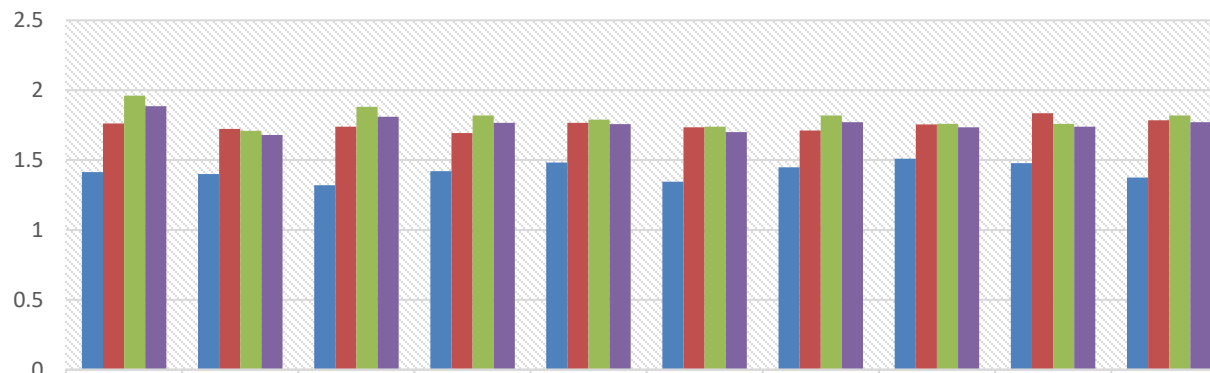
Actual Attainment based on Direct and Indirect Attainment for Batch 2020--23

Program Outcome	Indirect attainment based on feedback of Alumni	Indirect attainment based on feedback of Employer	Direct	Actual
PO1	1.414	1.761	1.96	1.885
PO2	1.400	1.724	1.71	1.680
PO3	1.320	1.738	1.88	1.810
PO4	1.420	1.694	1.82	1.767
PO5	1.483	1.767	1.79	1.757
PO6	1.345	1.734	1.74	1.700
PO7	1.448	1.711	1.82	1.772
PO8	1.511	1.755	1.76	1.735
PO9	1.479	1.834	1.76	1.739
PO10	1.375	1.784	1.82	1.772

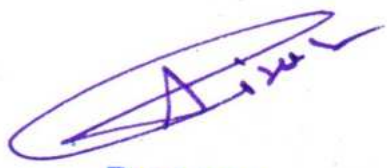

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Actual Attainment



	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10
Indirect attainment based on feedback of Alumni	1.414	1.4	1.32	1.42	1.483	1.345	1.448	1.511	1.479	1.375
Indirect attainment based on feedback of Employer	1.761	1.724	1.738	1.694	1.767	1.734	1.711	1.755	1.834	1.784
Direct	1.96	1.71	1.88	1.82	1.79	1.74	1.82	1.76	1.76	1.82
Actual	1.885	1.68	1.81	1.767	1.757	1.7	1.772	1.735	1.739	1.772


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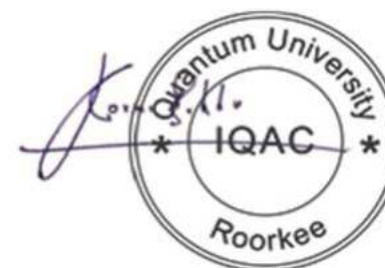
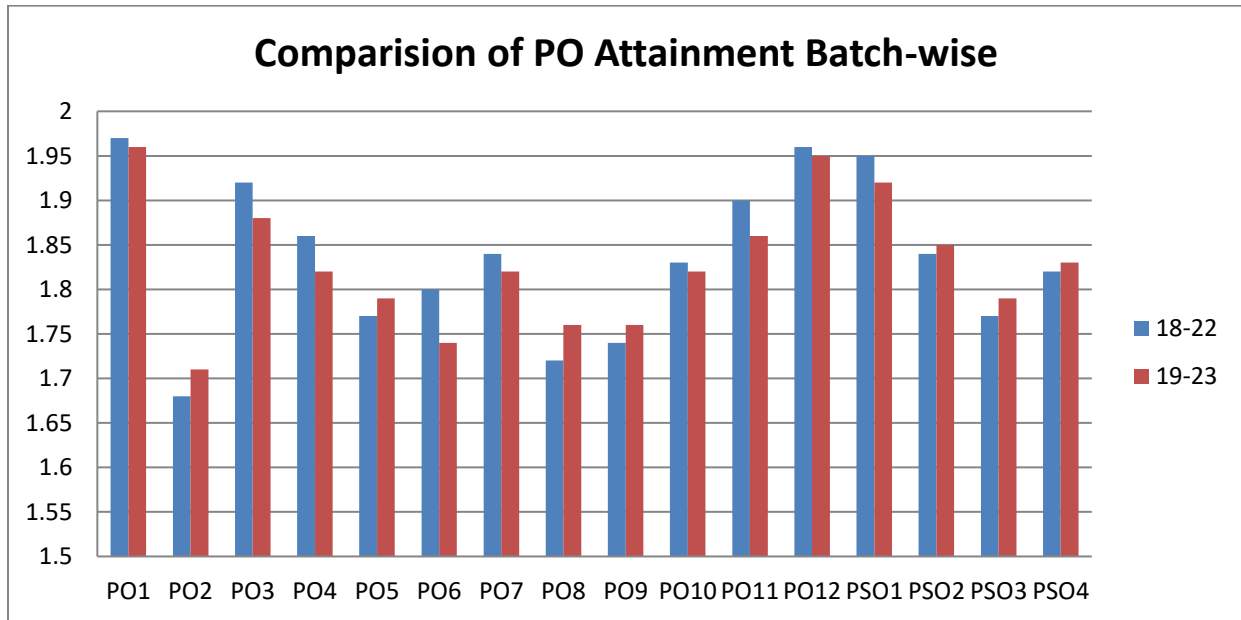


Table-23: Attainment Comparison of Previous Batches

Batch	PO-PSO Attainment for batch 2018-22	PO-PSO Attainment for batch 2019-23
PO1	1.97	1.96
PO2	1.68	1.71
PO3	1.92	1.88
PO4	1.86	1.82
PO5	1.77	1.79
PO6	1.8	1.74
PO7	1.84	1.82
PO8	1.72	1.76
PO9	1.74	1.76
PO10	1.83	1.82
PO11	1.9	1.86
PO12	1.96	1.95
PSO1	1.95	1.92
PSO2	1.84	1.85




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Analysis and Action Taken for session 2019-23

Based on the Comparison of Course and Program Outcome Attainments for
B.Tech. (Computer Science and Engineering)
(All Batches)

Analysis & Planning of Teaching Learning Strategies

The provided data represents the performance of a program across different batches (2019-23) based on various Program Outcomes (PO) and Program Specific Outcomes (PSO). Each numerical value associated with a PO or PSO is a measure of the outcome for the respective batch.

Program Outcomes (PO):

1. PO1 - PO12:

- a There is a general trend of improvement in most POs from 2019-23.
- b Notable improvements are observed in PO2, PO4, PO5, PO6, PO8, and PO9.
- c Some outcomes, such as PO7, show fluctuations but overall improvement.
- d PO11 and PO12 show an increase, but PO11 has a significant increase in 2019-23.

2. Observations:

- PO5 has an initial increase but a decrease in the latest batch.
- PO7 shows fluctuation but a noticeable increase in the latest batch.
- PO11 and PO12 have substantial increases over the three batches.

Program Specific Outcomes (PSO):

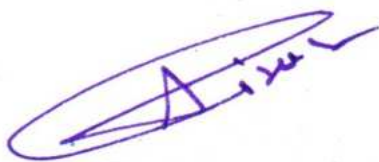
1. PSO1 - PSO4:

- Generally, there is an improvement in PSOs across batches.
- PSO1, PSO2, and PSO3 show consistent improvement.
- PSO4 has a noticeable increase, especially in 2019-23.

Overall Trends:

1. Improvement:

There is an overall positive trend in both POs and PSOs, indicating an improvement in the program outcomes over time.


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2. Varied Performance:

While some outcomes consistently improve, others may show fluctuations or unique patterns.

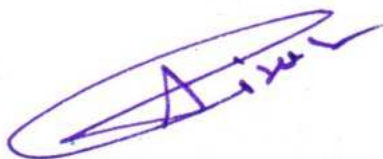
3. Consideration:

Further investigation is needed to understand the factors contributing to significant changes, especially in cases of substantial improvement or decline.

Analyzing Program Outcomes (PO) and Program Specific Outcomes (PSO) in a B.Tech. (Computer Science and Engineering) program involves a structured approach. Here are the some strategies, which are adopted in Session 22-23 to enhance the attainment

**Table 18: The Strategies adopted in B.Tech. (Computer Science and Engineering)
Program for the session 2022-2023**

Code	Recommendation by Super Specialty Groups of the Department on the basis of feedback and Attainment	Action taken during design of Syllabus for 2019-2023
ME3102	Some topics of this course already taught in first semester. Some advance C programming topics must be incorporated in place of these topics.	As per the recommendation some new topics like dangling pointer, function pointer have been introduced in syllabus.
CS3206	Experiments have not arranged in proper order of this course (based on theory syllabus).	As per the recommendations, Experiments have been arranged in proper order.
CS3543	Content of course should be updated based on latest technologies available & due to continuous development of new tools in software industry	New tools have introduced in syllabus as per recommendation.
CS3551	Experimental based learning is necessary in this course but syllabus designed based on theoretical concepts only.	Some topics incorporated based on Hadoop platform in Unit-II & Unit-IV & theoretical topics removed from these Units
CS3552	Content of the syllabus should be modified to show the relationship of Compiler with architecture of computer.	Content have been modified as per recommendation.
CS3806	Syllabus of Unit-I, Unit-II, Unit-II& Unit-IV should be updated based on latest trends & technologies.	Unit-I, Unit-II, Unit-II& Unit-IV have been modified as per latest trend & technologies.

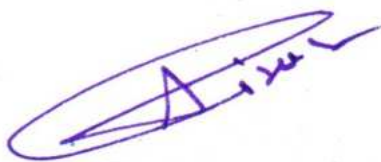

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Analysis and Action Taken

Based on Comparison of Program Outcome Attainments for B.Tech. (Computer Science and Engineering) for session 2023-24

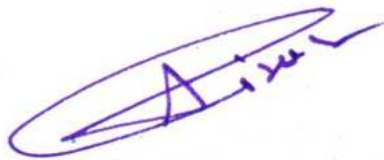
Program Outcome	Detail	Strategies adopted for Session 2023-24
PO-1	Engineering knowledge	Inclusion of Case Studies/Caselets, Value Added Courses, MOOC and Multidisciplinary Projects as regular part of curriculum
PO-2	Problem analysis	Application of problem solving approaches, dynamic coverage of subjective contents, Passion programs and participation in Inter and intra university events
PO-3	Design/development of solutions	Design solutions for complex engineering problems and design system components or processes that meet the specified needs with appropriate consideration for the public health and safety, and the cultural, societal, and environmental considerations
PO-4	Conduct investigations of complex problems	Use research-based knowledge and research methods including design of experiments, analysis and interpretation of data and synthesis of the information to provide valid conclusions.
PO-5	Activity perform	Class representation, learning event management via participation in University events like Dharohar, Abhivyakti, etc
PO-6	The engineer and society	Apply reasoning informed by the contextual knowledge to assess societal, health, safety, legal and cultural issues and the consequent responsibilities relevant to the professional engineering practice
PO-7	Environment and sustainability	Understand the impact of the professional engineering solutions in societal and environmental contexts, and demonstrate the knowledge of, and need for sustainable development
PO-8	Ethics	Apply ethical principles and commit to professional ethics and responsibilities and norms of the engineering practice
PO-9	Individual and team work	Function effectively as an individual, and as a member or leader in diverse teams, and in multidisciplinary settings.


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PO-10	Experiment communication Learning	Experiential Learning through Internships and Handling industry specific projects.
PO11	Project management and finance	Demonstrate knowledge and understanding of the engineering and management principles and apply these to one's own work, as a member and leader in a team, to manage projects and in multidisciplinary environments.
PO12	Knowledge Based Modified Syllabus	Revision in Syllabus based on feedback of faculty and students and recommendations of industry experts, and alumni, inclusion of online and offline Value added certification programs

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