



Sinhgad Technical Education Society's
SINHGAD INSTITUTE OF MANAGEMENT
(Affiliated to Savitribai Phule Pune University, Approved by AICTE
& Accredited by NAAC)
S.No. 44/1, Vadgaon (Bk.), Off Sinhgad Road, Pune 411 041
Telefax : (020) 24356592 E-mail : director_siom@sinhgad.edu Website : www.sinhgad.edu

Sample file for CO-PO Attainment

Programme:	MCA
Semester:	MCA I Sem II
Course Code:	IT21
Course Title:	Python Programming



Dr.Chandrani Singh,
Director –MCA, SIOM



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Evaluation Criteria

Sr. No.	CCE	Evaluation Criteria	Evaluation Marks	CO Score mapped				
1	CCE I	Home Assignment	30	CO1 : 15	CO2 : 15	CO3 : 0	CO4 : 0	CO5 : 0
2	CCE II	Mid Term Exam	50	CO1 : 0	CO2 : 0	CO3 : 25	CO4 : 25	CO5 : 0
3	CCE III	End Term Exam	70	CO1 : 10	CO2 : 10	CO3 : 10	CO4 : 20	CO5 : 20
4	CCE IV	SGA	50	CO1 : 10	CO2 : 10	CO3 : 10	CO4 : 10	CO5 : 10



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Course Title: IT 21 Python Programming Internal Evaluation CCE

Level	Range
Level 1	40 % students scoring above 50 marks in Internal Evaluation.
Level 2	50 % students scoring above 50 marks in Internal Evaluation.
Level 3	60 % students scoring above 50 marks in Internal Evaluation.

Sr. No.	CCE	Evaluation Criteria	Evaluation Marks	CO Score mapped				
1	CCE I	Home Assignment	30	CO1 : 15	CO2 : 15	CO3 : 0	CO4 : 0	CO5 : 0
2	CCE II	Mid Term Exam	50	CO1 : 0	CO2 : 0	CO3 : 25	CO4 : 25	CO5 : 0
3	CCE III	End Term Exam	70	CO1 : 10	CO2 : 10	CO3 : 10	CO4 : 20	CO5 : 20
4	CCE IV	SGA	50	CO1 : 10	CO2 : 10	CO3 : 10	CO4 : 10	CO5 : 10



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CCE No.	CO1	CO2	CO3	CO4	CO5	Total
CCE I	15	15	0	0	0	30
CCE II	10	20	20	0	0	50
CCE III	10	10	10	20	20	70
CCE IV	10	10	10	10	10	50
Weightage	45	55	40	30	30	200

Scale : Marks as per respective % wrt levels

	CO 1	CO 2	CO 3	CO 4	CO 5
Marks Range	Marks				
40% Marks	18	22	16	12	12
50% Marks	22.5	27.5	20	15	15
60% Marks	27	33	24	18	18



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Scale	No. of Students				
	CO1	CO2	CO3	CO4	CO5
0% - 39% marks	0	0	0	0	0
40% - 49% marks	1	0	5	5	5
50% - 59% marks	7	10	10	10	10
60% & above marks	258	256	251	251	251
Total	266	266	266	266	266

% Students achieved target	265	266	261	261	261
CO Level Attained: CCE	3	3	3	3	3
Average	3				



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CO Attainment Internal

Roll No.	CO1	CO2	CO3	CO4	CO5
21101	3	3	3	3	3
21102	3	3	3	3	3
21103	3	3	3	3	3
21104	3	3	3	3	3
21105	3	3	3	3	3
21106	3	3	3	3	3
21107	3	3	3	3	3
21108	3	3	3	3	3
21109	3	3	3	3	3
21110	3	3	3	3	3
21111	3	3	3	3	3



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Roll No.	CO1	CO2	CO3	CO4	CO5
21112	3	3	3	3	3
21113	3	3	3	3	3
21114	3	3	3	3	3
21115	3	3	3	3	3
21116	3	3	3	3	3
21117	3	3	3	3	3
21118	3	3	3	3	3
21119	3	3	3	3	3
21120	3	3	3	3	3
21121	3	3	3	3	3
21122	3	3	3	3	3
21123	3	3	3	3	3
21124	3	3	3	3	3
21125	3	3	3	3	3
21126	3	3	3	3	3
21127	3	3	3	3	3



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Roll No.	CO1	CO2	CO3	CO4	CO5
21128	3	3	3	3	3
21129	3	3	3	3	3
21130	3	3	3	3	3
21131	3	3	3	3	3
21132	3	3	3	3	3
21133	3	3	3	3	3
21134	3	3	3	3	3
21135	3	3	3	3	3
21136	3	3	3	3	3
21137	3	3	3	3	3
21138	3	3	3	3	3
21139	3	3	3	3	3
21140	3	3	3	3	3
21141	3	3	3	3	3
21142	3	3	3	3	3
21143	3	3	3	3	3



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Roll No.	CO1	CO2	CO3	CO4	CO5
21144	3	3	3	3	3
21145	3	3	3	3	3
21146	3	3	3	3	3
21147	3	3	3	3	3
21148	3	3	3	3	3
21149	3	3	3	3	3
21150	3	3	3	3	3
21151	3	3	3	3	3
21152	3	3	3	3	3
21153	3	3	3	3	3
21154	3	3	3	3	3
21155	3	3	3	3	3
21156	3	3	3	3	3
21157	3	3	3	3	3
21158	3	3	3	3	3
21159	3	3	3	3	3



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Roll No.	CO1	CO2	CO3	CO4	CO5
21160	3	3	3	3	3
21161	3	3	3	3	3
21162	3	3	3	3	3
21163	3	3	3	3	3
21164	3	3	3	3	3
21165	3	3	3	3	3
21166	3	3	3	3	3
21167	3	3	3	3	3
21168	3	3	3	3	3
21201	3	3	2	2	2
21202	3	3	3	3	3
21203	3	3	3	3	3
21204	3	3	3	3	3
21205	3	3	1	1	1
21206	3	3	3	3	3
21207	3	3	3	3	3



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Roll No.	CO1	CO2	CO3	CO4	CO5
21208	3	3	3	3	3
21209	3	3	3	3	3
21210	3	3	3	3	3
21211	3	3	3	3	3
21212	3	3	3	3	3
21213	3	3	3	3	3
21214	3	3	3	3	3
21215	3	3	2	2	2
21216	3	3	3	3	3
21217	3	2	2	2	2
21218	3	3	3	3	3
21219	3	3	3	3	3
21220	3	3	3	3	3
21221	3	3	3	3	3
21222	3	3	3	3	3
21223	2	2	1	1	1



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Roll No.	CO1	CO2	CO3	CO4	CO5
21224	2	2	2	2	2
21225	3	3	3	3	3
21226	3	3	3	3	3
21227	3	3	3	3	3
21228	3	3	3	3	3
21229	3	3	3	3	3
21230	3	3	3	3	3
21231	2	2	3	3	3
21232	2	2	1	1	1
21233	3	3	3	3	3
21234	3	3	3	3	3
21235	3	3	2	2	2
21236	3	3	3	3	3
21237	3	3	3	3	3
21238	3	3	3	3	3
21239	3	3	3	3	3



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Roll No.	CO1	CO2	CO3	CO4	CO5
21240	3	3	3	3	3
21241	3	3	3	3	3
21242	3	2	2	2	2
21243	3	3	3	3	3
21244	3	3	3	3	3
21245	3	3	3	3	3
21246	3	3	3	3	3
21247	3	3	3	3	3
21248	3	3	3	3	3
21249	2	2	2	2	2
21250	3	3	3	3	3
21251	3	3	3	3	3
21252	3	3	3	3	3
21253	3	3	3	3	3
21254	3	3	3	3	3
21255	3	3	1	1	1



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Roll No.	CO1	CO2	CO3	CO4	CO5
21256	3	3	3	3	3
21257	3	3	3	3	3
21258	3	3	3	3	3
21259	3	3	2	2	2
21260	3	3	3	3	3
21261	3	3	3	3	3
21262	2	2	1	1	1
21263	2	2	2	2	2
21264	3	3	2	2	2
21265	3	3	3	3	3
21266	3	3	3	3	3
21267	3	3	3	3	3
21268	3	3	3	3	3
21301	3	3	3	3	3
21302	3	3	3	3	3
21303	3	3	3	3	3



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Roll No.	CO1	CO2	CO3	CO4	CO5
21304	3	3	3	3	3
21305	3	3	3	3	3
21306	3	3	3	3	3
21307	3	3	3	3	3
21308	3	3	3	3	3
21309	3	3	3	3	3
21310	3	3	3	3	3
21311	AB	AB	AB	AB	AB
21312	3	3	3	3	3
21313	3	3	3	3	3
21314	3	3	3	3	3
21315	3	3	3	3	3
21316	3	3	3	3	3
21317	3	3	3	3	3
21318	3	3	3	3	3
21319	3	3	3	3	3



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Roll No.	CO1	CO2	CO3	CO4	CO5
21320	3	3	3	3	3
21321	AB	AB	AB	AB	AB
21322	3	3	3	3	3
21323	3	3	3	3	3
21324	AB	AB	AB	AB	AB
21325	3	3	3	3	3
21326	3	3	3	3	3
21327	3	3	3	3	3
21328	3	3	3	3	3
21329	3	3	3	3	3
21330	3	3	3	3	3
21331	AB	AB	AB	AB	AB
21332	3	3	3	3	3
21333	3	3	3	3	3
21334	3	3	3	3	3
21335	3	3	3	3	3



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Roll No.	CO1	CO2	CO3	CO4	CO5
21336	AB	AB	AB	AB	AB
21337	3	3	3	3	3
21338	3	3	3	3	3
21339	3	3	3	3	3
21340	3	3	3	3	3
21341	3	3	3	3	3
21342	3	3	3	3	3
21343	3	3	3	3	3
21344	3	3	3	3	3
21345	3	3	3	3	3
21346	3	3	3	3	3
21347	3	3	3	3	3
21348	AB	AB	AB	AB	AB
21349	3	3	3	3	3
21350	3	3	3	3	3
21351	3	3	3	3	3



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Roll No.	CO1	CO2	CO3	CO4	CO5
21352	3	3	3	3	3
21353	3	3	3	3	3
21354	3	3	3	3	3
21355	3	3	3	3	3
21356	3	3	3	3	3
21357	3	3	3	3	3
21358	3	3	3	3	3
21359	3	3	3	3	3
21360	3	3	3	3	3
21361	3	3	3	3	3
21362	3	3	3	3	3
21363	3	3	3	3	3
21364	3	3	3	3	3
21365	3	3	3	3	3
21366	3	3	3	3	3
21367	3	3	3	3	3



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Roll No.	CO1	CO2	CO3	CO4	CO5
21368	3	3	3	3	3
21401	3	3	3	3	3
21402	3	3	3	3	3
21403	3	3	3	3	3
21404	3	3	3	3	3
21405	3	3	3	3	3
21406	3	3	3	3	3
21407	3	3	3	3	3
21408	3	3	3	3	3
21409	3	3	3	3	3
21410	3	3	3	3	3
21411	3	3	3	3	3
21412	3	3	3	3	3
21413	3	3	3	3	3
21414	3	3	3	3	3
21415	3	3	3	3	3



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Roll No.	CO1	CO2	CO3	CO4	CO5
21416	3	3	3	3	3
21417	3	3	3	3	3
21418	3	3	3	3	3
21419	3	3	3	3	3
21420	3	3	3	3	3
21421	3	3	3	3	3
21422	3	3	3	3	3
21423	3	3	3	3	3
21424	3	3	3	3	3
21425	3	3	3	3	3
21426	3	3	3	3	3
21427	3	3	3	3	3
21428	3	3	3	3	3
21429	3	3	3	3	3
21430	3	3	3	3	3
21431	3	3	3	3	3



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21432	3	3	3	3	3
21433	3	3	3	3	3
21434	3	3	3	3	3
21435	3	3	3	3	3
21436	3	3	3	3	3
21437	3	3	3	3	3
21438	3	3	3	3	3
21439	3	3	3	3	3
21440	3	3	3	3	3
21441	3	3	3	3	3
21442	3	3	3	3	3
21443	3	3	3	3	3
21444	3	3	3	3	3
21445	3	3	3	3	3
21446	3	3	3	3	3
21447	3	3	3	3	3



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21448	3	3	3	3	3
21449	3	3	3	3	3
21450	3	3	3	3	3
21451	3	3	3	3	3
21452	3	3	3	3	3
21453	3	3	3	3	3
21454	3	3	3	3	3
21455	3	3	3	3	3
21456	3	3	3	3	3
21457	3	3	3	3	3
21458	3	3	3	3	3
21459	3	3	3	3	3
21460	3	3	3	3	3
21461	3	3	3	3	3
21462	3	3	3	3	3
21463	3	3	3	3	3



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Roll No.	CO1	CO2	CO3	CO4	CO5
21464	3	3	3	3	3
21465	3	3	3	3	3
21466	3	3	3	3	3
21467	3	3	3	3	3
21468	1	2	3	3	3

Course Name : IT 21: Python Programming
External Evaluation (ESE)

Level	Range
Level 1	40 % students scoring above 40 marks in External Evaluation.
Level 2	50 % students scoring above 40 marks in External Evaluation.
Level 3	60 % students scoring above 40 marks in External Evaluation.



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Que. No.	Q.1	Q.2	Q.3	Q.4	Q.5	Total
ESE	CO1	CO2	CO3	CO4	CO5	
Weightage	10	10	10	10	10	50

Scale : Marks as per respective % wrt levels

Marks Range	Marks				
40 % marks	4	4	4	4	4
50 % marks	5	5	5	5	5
60 % marks	6	6	6	6	6



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Scale	No. of Students				
	CO1	CO2	CO3	CO4	CO5
0% - 39% marks	130	130	130	130	130
40% - 49% marks	37	37	37	37	37
50% - 59% marks	57	57	57	57	57
60% & above marks	39	39	39	39	39
Total	263	263	263	263	263

% of Students obtained more than 50%	50.5703	50.57	50.57	50.57	50.57
CO Level Attained :ESE	2	2	2	2	2
Average	2				



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Co-wise Level Attained

Roll No.	CO1	CO2	CO3	CO4	CO5
21101	0	0	0	0	0
21102	0	0	0	0	0
21103	3	3	3	3	3
21104	3	3	3	3	3
21105	2	2	2	2	2
21106	0	0	0	0	0
21107	0	0	0	0	0
21108	1	1	1	1	1
21109	0	0	0	0	0
21110	AB	AB	AB	AB	AB



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Roll No.	CO1	CO2	CO3	CO4	CO5
21111	1	1	1	1	1
21112	0	0	0	0	0
21113	3	3	3	3	3
21114	1	1	1	1	1
21115	1	1	1	1	1
21116	0	0	0	0	0
21117	0	0	0	0	0
21118	2	2	2	2	2
21119	0	0	0	0	0
21120	1	1	1	1	1
21121	3	3	3	3	3
21122	0	0	0	0	0
21123	3	3	3	3	3
21124	0	0	0	0	0
21125	3	3	3	3	3
21126	3	3	3	3	3



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Roll No.	CO1	CO2	CO3	CO4	CO5
21127	AB	AB	AB	AB	AB
21128	2	2	2	2	2
21129	2	2	2	2	2
21130	0	0	0	0	0
21131	0	0	0	0	0
21132	0	0	0	0	0
21133	1	1	1	1	1
21134	0	0	0	0	0
21135	0	0	0	0	0
21136	0	0	0	0	0
21137	0	0	0	0	0
21138	0	0	0	0	0
21139	0	0	0	0	0
21140	2	2	2	2	2
21141	2	2	2	2	2
21142	0	0	0	0	0



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Roll No.	CO1	CO2	CO3	CO4	CO5
21143	0	0	0	0	0
21144	0	0	0	0	0
21145	0	0	0	0	0
21146	0	0	0	0	0
21147	0	0	0	0	0
21148	0	0	0	0	0
21149	0	0	0	0	0
21150	0	0	0	0	0
21151	0	0	0	0	0
21152	3	3	3	3	3
21153	2	2	2	2	2
21154	0	0	0	0	0
21155	2	2	2	2	2
21156	2	2	2	2	2
21157	3	3	3	3	3
21158	3	3	3	3	3



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Roll No.	CO1	CO2	CO3	CO4	CO5
21159	3	3	3	3	3
21160	0	0	0	0	0
21161	0	0	0	0	0
21162	3	3	3	3	3
21163	2	2	2	2	2
21164	1	1	1	1	1
21165	1	1	1	1	1
21166	0	0	0	0	0
21167	1	1	1	1	1
21168	2	2	2	2	2
21201	0	0	0	0	0
21202	2	2	2	2	2
21203	1	1	1	1	1
21204	1	1	1	1	1
21205	AB	AB	AB	AB	AB
21206	1	1	1	1	1



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Roll No.	CO1	CO2	CO3	CO4	CO5
21207	2	2	2	2	2
21208	1	1	1	1	1
21209	2	2	2	2	2
21210	0	0	0	0	0
21211	0	0	0	0	0
21212	0	0	0	0	0
21213	1	1	1	1	1
21214	2	2	2	2	2
21215	2	2	2	2	2
21216	3	3	3	3	3
21217	0	0	0	0	0
21218	0	0	0	0	0
21219	0	0	0	0	0
21220	0	0	0	0	0
21221	1	1	1	1	1
21222	2	2	2	2	2



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Roll No.	CO1	CO2	CO3	CO4	CO5
21223	0	0	0	0	0
21224	0	0	0	0	0
21225	0	0	0	0	0
21226	0	0	0	0	0
21227	1	1	1	1	1
21228	2	2	2	2	2
21229	0	0	0	0	0
21230	1	1	1	1	1
21231	0	0	0	0	0
21232	AB	AB	AB	AB	AB
21233	2	2	2	2	2
21234	3	3	3	3	3
21235	0	0	0	0	0
21236	2	2	2	2	2
21237	0	0	0	0	0
21238	0	0	0	0	0



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Roll No.	CO1	CO2	CO3	CO4	CO5
21239	2	2	2	2	2
21240	2	2	2	2	2
21241	1	1	1	1	1
21242	1	1	1	1	1
21243	0	0	0	0	0
21244	0	0	0	0	0
21245	0	0	0	0	0
21246	2	2	2	2	2
21247	0	0	0	0	0
21248	1	1	1	1	1
21249	0	0	0	0	0
21250	2	2	2	2	2
21251	0	0	0	0	0
21252	3	3	3	3	3
21253	0	0	0	0	0
21254	2	2	2	2	2



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Roll No.	CO1	CO2	CO3	CO4	CO5
21255	0	0	0	0	0
21256	3	3	3	3	3
21257	0	0	0	0	0
21258	3	3	3	3	3
21259	2	2	2	2	2
21260	0	0	0	0	0
21261	2	2	2	2	2
21262	0	0	0	0	0
21263	0	0	0	0	0
21264	0	0	0	0	0
21265	3	3	3	3	3
21266	3	3	3	3	3
21267	0	0	0	0	0
21268	2	2	2	2	2
21301	0	0	0	0	0
21302	2	2	2	2	2



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Roll No.	CO1	CO2	CO3	CO4	CO5
21303	0	0	0	0	0
21304	1	1	1	1	1
21305	2	2	2	2	2
21306	AB	AB	AB	AB	AB
21307	0	0	0	0	0
21308	0	0	0	0	0
21309	0	0	0	0	0
21310	1	1	1	1	1
21311	AB	AB	AB	AB	AB
21312	0	0	0	0	0
21313	3	3	3	3	3
21314	2	2	2	2	2
21315	1	1	1	1	1
21316	0	0	0	0	0
21317	0	0	0	0	0
21318	2	2	2	2	2



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Roll No.	CO1	CO2	CO3	CO4	CO5
21319	0	0	0	0	0
21320	0	0	0	0	0
21321	0	0	0	0	0
21322	0	0	0	0	0
21323	3	3	3	3	3
21324	0	0	0	0	0
21325	1	1	1	1	1
21326	1	1	1	1	1
21327	3	3	3	3	3
21328	0	0	0	0	0
21329	3	3	3	3	3
21330	0	0	0	0	0
21331	AB	AB	AB	AB	AB
21332	0	0	0	0	0
21333	0	0	0	0	0
21334	0	0	0	0	0



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Roll No.	CO1	CO2	CO3	CO4	CO5
21335	0	0	0	0	0
21336	AB	AB	AB	AB	AB
21337	0	0	0	0	0
21338	0	0	0	0	0
21339	0	0	0	0	0
21340	1	1	1	1	1
21341	0	0	0	0	0
21342	2	2	2	2	2
21343	3	3	3	3	3
21344	1	1	1	1	1
21345	3	3	3	3	3
21346	2	2	2	2	2
21347	0	0	0	0	0
21348	AB	AB	AB	AB	AB
21349	3	3	3	3	3
21350	2	2	2	2	2



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Roll No.	CO1	CO2	CO3	CO4	CO5
21351	2	2	2	2	2
21352	0	0	0	0	0
21353	2	2	2	2	2
21354	1	1	1	1	1
21355	0	0	0	0	0
21356	0	0	0	0	0
21357	0	0	0	0	0
21358	0	0	0	0	0
21359	2	2	2	2	2
21360	3	3	3	3	3
21361	0	0	0	0	0
21362	3	3	3	3	3
21363	0	0	0	0	0
21364	3	3	3	3	3
21365	0	0	0	0	0
21366	2	2	2	2	2



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Roll No.	CO1	CO2	CO3	CO4	CO5
21367	0	0	0	0	0
21368	2	2	2	2	2
21401	0	0	0	0	0
21402	0	0	0	0	0
21403	0	0	0	0	0
21404	3	3	3	3	3
21405	2	2	2	2	2
21406	0	0	0	0	0
21407	3	3	3	3	3
21408	2	2	2	2	2
21409	0	0	0	0	0
21410	0	0	0	0	0
21411	0	0	0	0	0
21412	0	0	0	0	0
21413	2	2	2	2	2
21414	1	1	1	1	1



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Roll No.	CO1	CO2	CO3	CO4	CO5
21415	2	2	2	2	2
21416	0	0	0	0	0
21417	1	1	1	1	1
21418	0	0	0	0	0
21419	0	0	0	0	0
21420	2	2	2	2	2
21421	2	2	2	2	2
21422	0	0	0	0	0
21423	3	3	3	3	3
21424	3	3	3	3	3
21425	1	1	1	1	1
21426	2	2	2	2	2
21427	0	0	0	0	0
21428	0	0	0	0	0
21429	2	2	2	2	2
21430	2	2	2	2	2



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Roll No.	CO1	CO2	CO3	CO4	CO5
21431	3	3	3	3	3
21432	0	0	0	0	0
21433	0	0	0	0	0
21434	1	1	1	1	1
21435	0	0	0	0	0
21436	0	0	0	0	0
21437	0	0	0	0	0
21438	2	2	2	2	2
21439	2	2	2	2	2
21440	3	3	3	3	3
21441	0	0	0	0	0
21442	2	2	2	2	2
21443	0	0	0	0	0
21444	1	1	1	1	1
21445	0	0	0	0	0
21446	0	0	0	0	0



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Roll No.	CO1	CO2	CO3	CO4	CO5
21447	1	1	1	1	1
21448	0	0	0	0	0
21449	1	1	1	1	1
21450	0	0	0	0	0
21451	0	0	0	0	0
21452	1	1	1	1	1
21453	0	0	0	0	0
21454	0	0	0	0	0
21455	0	0	0	0	0
21456	0	0	0	0	0
21457	2	2	2	2	2
21458	3	3	3	3	3
21459	2	2	2	2	2
21460	3	3	3	3	3
21461	2	2	2	2	2
21462	2	2	2	2	2



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Roll No.	CO1	CO2	CO3	CO4	CO5
21463	3	3	3	3	3
21464	1	1	1	1	1
21465	0	0	0	0	0
21466	0	0	0	0	0
21467	2	2	2	2	2
21468	3	3	3	3	3



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CO From Internal and External Evaluation with Defined Weightages

Evaluation	Level Attained	Weightage	Value
External (ESE)	2	66%	1.32
Internal (CCE)	3	34%	1.02
TOTAL			2.34



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PO Attainment

Sr. No.	PO	PO attainment
1	PO1	2.64
2	PO2	2.57
3	PO3	2.61
4	PO4	2.54
5	PO5	2.64
6	PO6	2.55
7	PO7	2.61
8	PO8	2.61
9	PO9	2.61
10	PO10	2.57
11	PO11	2.62
12	PO12	2.63



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Director –MCA, SIOM

Attainment of CO-PO for all Courses for the Batch MCA 2021-2023

Sem.	Sub. Code	Sub.	Level attained (External)	Level attained (Internal)	CO Attained	Target Level (2) Achieved (Y/N)	A(PO1)	PO1	A(PO2)	PO2	A(PO3)	PO3	A(PO4)	PO4	A(PO5)	PO5	A(PO6)	PO6	A(PO7)	PO7	A(PO8)	PO8	A(PO9)	PO9	A(PO10)	PO10	A(PO11)	PO11	A(PO12)	PO12
Sem I	IT11	Java Programming	3	3	3	Y	2.64	2.82	2.57	2.785	2.61	2.805	2.54	2.77	2.64	2.82	2.55	2.775	2.61	2.805	2.61	2.805	2.61	2.805	2.57	2.785	2.62	2.81	2.63	2.815
	IT12	Data Structure and Algorithms	3	3	3	Y	2.64	2.82	2.57	2.785	2.61	2.805	2.54	2.77	2.64	2.82	2.55	2.775	2.61	2.805	2.61	2.805	2.61	2.805	2.57	2.785	2.62	2.81	2.63	2.815
	IT13	Object Oriented Software Engineering	3	3	3	Y	2.64	2.82	2.57	2.785	2.61	2.805	2.54	2.77	2.64	2.82	2.55	2.775	2.61	2.805	2.61	2.805	2.61	2.805	2.57	2.785	2.62	2.81	2.63	2.815
	IT14	Operating System Concepts	3	3	3	Y	2.64	2.82	2.57	2.785	2.61	2.805	2.54	2.77	2.64	2.82	2.55	2.775	2.61	2.805	2.61	2.805	2.61	2.805	2.57	2.785	2.62	2.81	2.63	2.815
	IT15	Network Technologies	3	3	3	Y	2.64	2.82	2.57	2.785	2.61	2.805	2.54	2.77	2.64	2.82	2.55	2.775	2.61	2.805	2.61	2.805	2.61	2.805	2.57	2.785	2.62	2.81	2.63	2.815
	OC11	Open Course 1	0.2	NA	0.2	N	2.64	1.42	2.57	1.385	2.61	1.405	2.54	1.37	2.64	1.42	2.55	1.375	2.61	1.405	2.61	1.405	2.61	1.405	2.57	1.385	2.62	1.41	2.63	1.415
	OC12	Open Course 2	1.6	NA	1.6	N	2.64	2.12	2.57	2.085	2.61	2.105	2.54	2.07	2.64	2.12	2.55	2.075	2.61	2.105	2.61	2.105	2.61	2.105	2.57	2.085	2.62	2.11	2.63	2.115
	IT11L	Practical	3	3	3	Y	2.64	2.82	2.57	2.785	2.61	2.805	2.54	2.77	2.64	2.82	2.55	2.775	2.61	2.805	2.61	2.805	2.61	2.805	2.57	2.785	2.62	2.81	2.63	2.815
	ITC11	Mini Project	3	3	3	Y	2.64	2.82	2.57	2.785	2.61	2.805	2.54	2.77	2.64	2.82	2.55	2.775	2.61	2.805	2.61	2.805	2.61	2.805	2.57	2.785	2.62	2.81	2.63	2.815
SS11	Soft Skills	1.2	NA	1.2	N	2.64	1.92	2.57	1.885	2.61	1.905	2.54	1.87	2.64	1.92	2.55	1.875	2.61	1.905	2.61	1.905	2.61	1.905	2.57	1.885	2.62	1.91	2.63	1.915	
Sem II	IT21	Python Programming	2	3	2.4	Y	2.64	2.52	2.57	2.485	2.61	2.505	2.54	2.47	2.64	2.52	2.55	2.475	2.61	2.505	2.61	2.505	2.61	2.505	2.57	2.485	2.62	2.51	2.63	2.515
	IT22	Software Project Management	3	3	3	Y	2.64	2.82	2.57	2.785	2.61	2.805	2.54	2.77	2.64	2.82	2.55	2.775	2.61	2.805	2.61	2.805	2.61	2.805	2.57	2.785	2.62	2.81	2.63	2.815
	MT21	Optimization Techniques	3	3	3	Y	2.64	2.82	2.57	2.785	2.61	2.805	2.54	2.77	2.64	2.82	2.55	2.775	2.61	2.805	2.61	2.805	2.61	2.805	2.57	2.785	2.62	2.81	2.63	2.815
	IT23	Advanced Internet Technology	1.5	3	2.01	Y	2.64	2.325	2.57	2.29	2.61	2.31	2.54	2.275	2.64	2.325	2.55	2.28	2.61	2.31	2.61	2.31	2.61	2.31	2.57	2.29	2.62	2.315	2.63	2.32
	IT24	Advanced DBMS	3	3	3	Y	2.64	2.82	2.57	2.785	2.61	2.805	2.54	2.77	2.64	2.82	2.55	2.775	2.61	2.805	2.61	2.805	2.61	2.805	2.57	2.785	2.62	2.81	2.63	2.815
	OC21	Open Course 3	1.7	NA	1.7	N	2.64	2.17	2.57	2.135	2.61	2.155	2.54	2.12	2.64	2.17	2.55	2.125	2.61	2.155	2.61	2.155	2.61	2.155	2.57	2.135	2.62	2.16	2.63	2.165
	OC22	Open Course 4	2	NA	2	Y	2.64	2.32	2.57	2.285	2.61	2.305	2.54	2.27	2.64	2.32	2.55	2.275	2.61	2.305	2.61	2.305	2.61	2.305	2.57	2.285	2.62	2.31	2.63	2.315
	IT21L	Practical	0	0	0	N	2.64	1.32	2.57	1.285	2.61	1.305	2.54	1.27	2.64	1.32	2.55	1.275	2.61	1.305	2.61	1.305	2.61	1.305	2.57	1.285	2.62	1.31	2.63	1.315
	ITC21	Mini Project	0	0	0	N	2.64	1.32	2.57	1.285	2.61	1.305	2.54	1.27	2.64	1.32	2.55	1.275	2.61	1.305	2.61	1.305	2.61	1.305	2.57	1.285	2.62	1.31	2.63	1.315
SS21	Soft Skills - II	2.4	NA	2.4	Y	2.64	2.52	2.57	2.485	2.61	2.505	2.54	2.47	2.64	2.52	2.55	2.475	2.61	2.505	2.61	2.505	2.61	2.505	2.57	2.485	2.62	2.51	2.63	2.515	
Sem III	IT31	Mobile Application Development	3	3	3	Y	2.64	2.82	2.57	2.785	2.61	2.805	2.54	2.77	2.64	2.82	2.55	2.775	2.61	2.805	2.61	2.805	2.61	2.805	2.57	2.785	2.62	2.81	2.63	2.815
	IT32	Data Warehousing and Data Mining	0	3	1.02	N	2.64	1.83	2.57	1.795	2.61	1.815	2.54	1.78	2.64	1.83	2.55	1.785	2.61	1.815	2.61	1.815	2.61	1.815	2.57	1.795	2.62	1.82	2.63	1.825
	IT33	Software Testing and Quality Assurance	3	3	3	Y	2.64	2.82	2.57	2.785	2.61	2.805	2.54	2.77	2.64	2.82	2.55	2.775	2.61	2.805	2.61	2.805	2.61	2.805	2.57	2.785	2.62	2.81	2.63	2.815
	IT34	& Artificial Intelligence - ML, DL	3	3	3	Y	2.64	2.82	2.57	2.785	2.61	2.805	2.54	2.77	2.64	2.82	2.55	2.775	2.61	2.805	2.61	2.805	2.61	2.805	2.57	2.785	2.62	2.81	2.63	2.815
	IT35	Cloud Computing	3	3	3	Y	2.64	2.82	2.57	2.785	2.61	2.805	2.54	2.77	2.64	2.82	2.55	2.775	2.61	2.805	2.61	2.805	2.61	2.805	2.57	2.785	2.62	2.81	2.63	2.815
	OC31	Open Course 5	2	NA	2	Y	2.64	2.32	2.57	2.285	2.61	2.305	2.54	2.27	2.64	2.32	2.55	2.275	2.61	2.305	2.61	2.305	2.61	2.305	2.57	2.285	2.62	2.31	2.63	2.315
	OC32	Open Course 6	2	NA	2	Y	2.64	2.32	2.57	2.285	2.61	2.305	2.54	2.27	2.64	2.32	2.55	2.275	2.61	2.305	2.61	2.305	2.61	2.305	2.57	2.285	2.62	2.31	2.63	2.315
	IT31L	Practical	3	3	3	Y	2.64	2.82	2.57	2.785	2.61	2.805	2.54	2.77	2.64	2.82	2.55	2.775	2.61	2.805	2.61	2.805	2.61	2.805	2.57	2.785	2.62	2.81	2.63	2.815
	ITC31	Mini Project	3	2	2.6	Y	2.64	2.62	2.57	2.585	2.61	2.605	2.54	2.57	2.64	2.62	2.55	2.575	2.61	2.605	2.61	2.605	2.61	2.605	2.57	2.585	2.62	2.61	2.63	2.615
SS31	Soft Skill-III	2.4	NA	2.4	Y	2.64	2.52	2.57	2.485	2.61	2.505	2.54	2.47	2.64	2.52	2.55	2.475	2.61	2.505	2.61	2.505	2.61	2.505	2.57	2.485	2.62	2.51	2.63	2.515	
Sem IV	IT41	DevOps	3	3	3	Y	2.64	2.82	2.57	2.785	2.61	2.805	2.54	2.77	2.64	2.82	2.55	2.775	2.61	2.805	2.61	2.805	2.61	2.805	2.57	2.785	2.62	2.81	2.63	2.815
	BM41	PPM and OB	3	3	3	Y	2.64	2.82	2.57	2.785	2.61	2.805	2.54	2.77	2.64	2.82	2.55	2.775	2.61	2.805	2.61	2.805	2.61	2.805	2.57	2.785	2.62	2.81	2.63	2.815
	ITC41	Project	3	3	3	Y	2.64	2.82	2.57	2.785	2.61	2.805	2.54	2.77	2.64	2.82	2.55	2.775	2.61	2.805	2.61	2.805	2.61	2.805	2.57	2.785	2.62	2.81	2.63	2.815
							2.4947		2.4597		2.4797		2.4447		2.4947		2.4497		2.4797		2.4797		2.4797		2.4597		2.4847		2.4897	



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