



SRI VENKATESWARA COLLEGE OF ENGINEERING (Autonomous)

Karakambadi Road, Opposite LIC Training Centre, Tirupati – 517 507.
Accredited by NBA (B.Tech – CSE, ECE,EEE,Mech., Civil and IT) & NAAC with 'A' Grade
Approved by AICTE, New Delhi permanently affiliated to JNTUA, Ananthapuramu.

CO ATTAINMENT TOOLS:

Assessment Tools for CO attainment:

- A. Direct assessment tools :** 40% Internal Examinations and Assignments
60% End Examinations.
- B. Indirect assessment tools:** Course End Surveys

CO ATTAINMENT =80% of Direct Assessment Tools + 20% Indirect Assessment Tools

CO Attainment Process:

Direct Assessment Tools: The description of evaluation process for CO attainment through Direct Assessment Tool is explained below:

- **Mid Semester Examination Evaluation:**

For theory subjects, during the semester, there shall be two mid semester examinations. The Internal marks shall be evaluated for 40 marks of which 30 marks for mid semester examinations and 10 marks for assignment. The syllabus of the first mid examination covers 40 % of the total course content. The second mid examination is conducted before the end semester examination with the remaining 60% syllabus.

- **End Examination:**

End examination of theory subjects shall have the following pattern

- There shall be 6 questions and all questions are compulsory.
- Question 1 shall contain 5 compulsory short answer questions for a total of 10 marks, each question carries 2 marks. There shall be 1 short answer question from each unit.
- In each of the questions from 2 to 11, there shall be either or type questions of 10 marks each. Student shall answer any one of them.
- The questions from 2 to 11 shall be set by covering one unit of the syllabus for each question.

Complete syllabus is covered in this examination. Major weightage of marks is given to this component.

- **Practical Subjects:**

For practical courses, there shall be a continuous evaluation during the semester for 40 marks (Internal) and End examination shall be for 60 marks. Day-to-day work in the laboratory shall be evaluated for 30 marks by the concerned laboratory faculty based on the regularity, viva, observation & record and 10 marks for internal exam.

- **Summer Internship / Mini Project:**

There shall be one mini project at the end of VI semester. This is to be registered during VI Semester taken up during the summer vacation, for a period of four weeks duration. A report/dissertation certified in the prescribed format by the concerned Supervisor and HOD shall be submitted to the Department. The viva voce shall be conducted by a committee consisting of Head of the Department, project supervisor and a senior faculty member of the department constituted by the Principal/Controller of Examinations and it should be evaluated for 100 marks. There shall be no internal marks for mini project. The mini project shall be evaluated at the end of the VII Semester.

- **Project Work:**

- **Procedure and Evaluation of Project Stage – I:**



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It shall be evaluated for 50 marks. A student shall acquire 2 credits, when he/she secures 40% or more marks for the total of 50 marks. It will be evaluated at the end of VII semester by PEC.

- **Procedure and Evaluation of Project Stage – II:**

Project work shall start in VII Semester and continue in the VIII Semester. The evaluation of project is as follows.

Out of 200 marks for the Project stage-II, 60 marks for Internal Evaluation and 140 marks for the end semester examination (viva-voce) shall be awarded.

- **Technical Seminars:**

The technical Seminar evaluated for 40 marks, is based on the report and presentation shall be evaluated by the departmental committee consisting of Head of the Department, technical seminar supervisor and a senior faculty member.

Indirect Assessment Tool: Course End Survey.

- **Process:** At the end of semester feedback is collected through offline and calculate the weighted average as mentioned below:

$$CES = \frac{G \times 3 + A \times 2 + S \times 1}{T}$$

G: Total Number of Students gave **GOOD**.

A: Total Number of Students gave **Moderate**.

S: Total Number of Students gave **Satisfactory**.

T: Total Number of Students.

Step1: Direct Assessment:

- **Measurement of Course attainment levels for Internal Examinations (Mid Semester Examination and Assignments):**

$$\text{Assignment Level} = \left(\frac{\text{No. of students secured more than 60\%}}{\text{No. of Students attempted}} \times 0.03 \right)$$

$$\% \text{ Assignment} = \left(\frac{\text{No. of students secured more than 60\%}}{\text{No. of Students attempted}} \times 100 \right)$$

$$\text{Course Level} = \left(\frac{\text{No. of students secured more than 60\%}}{\text{No. of Students attempted}} \times 0.03 \right)$$

$$\% \text{ Course} = \left(\frac{\text{No. of students secured more than 60\%}}{\text{No. of Students attempted}} \times 100 \right)$$

- **Measurement of Course attainment levels for End Examinations:**

$$\text{Course Level} = \left(\frac{\text{No. of students secured more than 60\%}}{\text{No. of Students attempted}} \times 0.03 \right)$$

$$\% \text{ Course} = \left(\frac{\text{No. of students secured more than 60\%}}{\text{No. of Students attempted}} \times 100 \right)$$

Overall Direct Assessment includes both Mid Semester and End Examinations

Direct Assessment = 40% of Internal Semester Examination + 60% End Examinations.



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Step2: Indirect Assessment:

Tools: Course End Survey

Process: Collect the feedback and calculate the weighted average as mentioned below

$$CES = \frac{G \times 3 + A \times 2 + S \times 1}{T}$$

G: Total Number of Students gave **GOOD**.

A: Total Number of Students gave **Moderate**.

S: Total Number of Students gave **Satisfactory**.

T: Total Number of Students.

Step3: Overall Course Outcome Attainment including Direct and Indirect Survey:

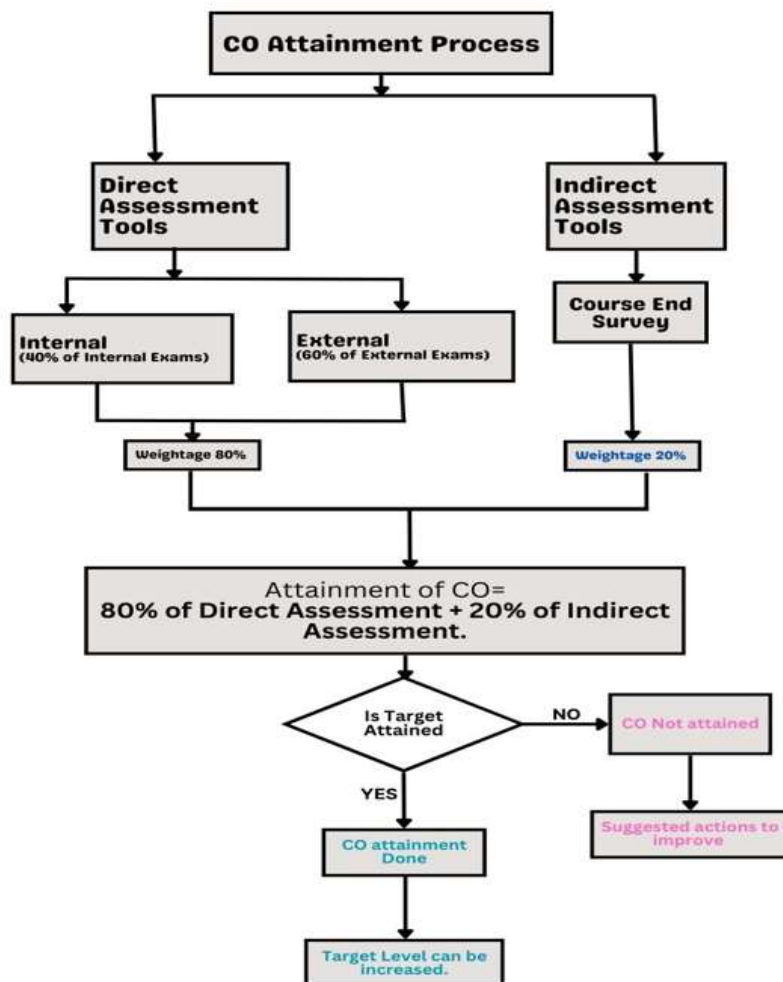
CO ATTAINMENT = 80% of Direct Assessment Tools + 20% Indirect Assessment Tools



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CO ATTAINMENT PROCESS





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Sample CO Attainment

Course: Python Programming

Course Name:	Python Programming	
Course Code:	IT20APC301	C215
L:T:P	3-0-0	
Year/Semester	II-I B.Tech	
Credits:	3	
Batch:	2020-2024	

CO mapping with Internal Question Paper, External Question Paper and Assignments:

COURSE OUTCOMES		Mid 1	Mid 2	Assignment	External Examination
C215.1	Apply the features of Python language in various applications.	Q1,Q2,Q3		1	Q1a,Q2,Q3
C215.2	Apply Python programs using functions and modules to increase code readability and maintainability.	Q4,Q5,Q6		2	Q1b,Q4,Q5
C215.3	Illustrate appropriate core data structures such as lists, tuples, dictionaries, and sets.		Q1,Q2	3	Q1c,Q6,Q7
C215.4	Analyze the importance of exception handling for building robust and error-free Python programs.		Q3,Q4	4	Q1d,Q8,Q9
C215.5	Summarize OOP principles such as classes, objects, inheritance, polymorphism, and encapsulation.		Q5,Q6	5	Q1e,Q10,Q11



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Question-wise Distribution of marks obtained in Mid Semester Examination and Assignments:

S.N o.	Reg. No.	Test 1						Test 2						Assignments				
		Q. 1	Q. 2	Q. 3	Q. 4	Q. 5	Q. 6	Q. 1	Q. 2	Q. 3	Q. 4	Q. 5	Q. 6	A1	A2	A3	A4	A5
Max. Marks		10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10
60% Marks		6	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6
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2	20BF1A0502	10		8		7	7	7		8		6		10	10	10	10	10
3	20BF1A0503	10		7		8	7	6		6		6		10	10	10	10	10
4	20BF1A0504	8		8			8	6		6			6	10	10	10	10	10
5	20BF1A0505		9		8		8		9		8		7	10	10	10	10	10
6	20BF1A0506		8		8		8		7		8			10	10	10	10	10
7	20BF1A0507	7		6			6	5		4			4	10	10	10	10	10
8	20BF1A0508	10			9	9	9	6			6	6		10	10	10	10	10
9	20BF1A0509	10		8		9	8	8		6		8		10	10	10	10	10
10	20BF1A0510	9			9		9	7			7		6	10	10	10	10	10
11	20BF1A0511		9		10		10		8		8		9	10	10	10	10	10
12	20BF1A0512		6	7		6	7		4	3		3		10	10	10	10	10
13	20BF1A0513	9			9	9	9	9			9			10	10	10	10	10
14	20BF1A0514	9			9	9	9	3			3	2		10	10	10	10	10
15	20BF1A0515	10			9	10	9	7			8	7		10	10	10	10	10
16	20BF1A0516	10			9		9	10			9		9	10	10	10	10	10
17	20BF1A0517	8			7		7	4					3	10	10	10	10	10
18	20BF1A0518	8			9		9	7			7		10	10	10	10	10	10
19	20BF1A0519			7			7		4	4			4	10	10	10	10	10
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22	20BF1A0522	0	0	9	0	0	9	0	0	0	0	0	0	10	10	10	10	10
23	20BF1A0523	6		6		5	6	3		3		3		10	10	10	10	10
24	20BF1A0524		6		6	5	6		2		3	3		10	10	10	10	10
25	20BF1A0525	9			8		8	7			7		8	10	10	10	10	10



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142	20BF1A0 5E2	10		10			10	10				10	8	10	10	10	10	10
143	20BF1A0 5E3		9		9	9	9		9		9			10	10	10	10	10
144	20BF1A0 5E4		4		8	7			9		9			10	10	10	10	10
145	20BF1A0 5E5	9			10		10	9			9		9	10	10	10	10	10
146	20BF1A0 5E6		9		6		6		9					10	10	10	10	10
147	20BF1A0 5E7	9			9		9	9			6			10	10	10	10	10
148	20BF1A0 5E8		8		7				9		3			10	10	10	10	10
149	20BF1A0 5E9		9		9		5		9		9			10	10	10	10	10
150	20BF1A0 5F0		8		8	8	8		8		8			10	10	10	10	10
151	20BF1A0 5F1	5	0	0	5	0	6				1		6	10	10	10	10	10
152	20BF1A0 5F2		9		9		9		9		9			10	10	10	10	10
153	20BF1A0 5F3		9		9	9	9		9		9	9		10	10	10	10	10
154	20BF1A0 5F4		8		9				8		3			10	10	10	10	10
155	20BF1A0 5F5	9		9			9	9		9				10	10	10	10	10
156	20BF1A0 5F6		9		9		9		9		9		3	10	10	10	10	10
157	20BF1A0 5F7		9		10		10		9		9		9	10	10	10	10	10
158	20BF1A0 5F8		9		9		9		9		7			10	10	10	10	10
159	20BF1A0 5F9		9		9	9	9		9		9	3		10	10	10	10	10
160	20BF1A0 5G0	10		9			9	10		9			5	10	10	10	10	10
161	20BF1A0 5G1		9		9	9			9		9			10	10	10	10	10
162	20BF1A0 5G2		9		10		10		9		9		9	10	10	10	10	10
163	20BF1A0 5G3	9			10	10		9			8	9		10	10	10	10	10
164	20BF1A0 5G4		9		9		10		9		9			10	10	10	10	10
165	20BF1A0 5G5		9		9	9	9		9		9		2	10	10	10	10	10
166	20BF1A0 5G6		9		9		9		9		10			10	10	10	10	10
167	20BF1A0 5G7	10			8		8	8			8		8	10	10	10	10	10
168	20BF1A0 5G8		9		9	9	9		9		9		2	10	10	10	10	10
169	20BF1A0 5G9	9		9			10	9		9				10	10	10	10	10
170	20BF1A0 5H0	9			9		9	9			9		9	10	10	10	10	10



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171	20BF1A0 5H1	7	0	0	7	0	8	0	0	0	0	0	0	10	10	10	10	10
172	20BF1A0 5H2		7		5		7		9		9	9		10	10	10	10	10
173	20BF1A0 5H3	6	0	6	0	0	7	5			7		8	10	10	10	10	10
174	20BF1A0 5H4		8		8		8		8		2			10	10	10	10	10
175	20BF1A0 5H5	9		9		9	9	9		10				10	10	10	10	10
176	20BF1A0 5H6	6			6		7	8			3			10	10	10	10	10
177	20BF1A0 5H7		9		9		9		9		9			10	10	10	10	10
178	20BF1A0 5H8		8	8			8		8	2				10	10	10	10	10
179	20BF1A0 5H9	9			8	9	8	9			8			10	10	10	10	10
180	20BF1A0 5I0		6		7		6		9		9			10	10	10	10	10
181	20BF1A0 5I1	9		9		9	9	9		4				10	10	10	10	10
182	20BF1A0 5I2	9					0	4						10	10	10	10	10
183	20BF1A0 5I3	7			8		6	7						10	10	10	10	10
184	20BF1A0 5I4		10		10	10	10		10		10	10		10	10	10	10	10
185	20BF1A0 5I5		9		5		5		9		9			10	10	10	10	10
186	20BF1A0 5I6		9		8		7		9		9			10	10	10	10	10
187	20BF1A0 5I7	0		0			0	8						10	10	10	10	10
188	20BF1A0 5I8		8		8		10		8		8		8	10	10	10	10	10
189	20BF1A0 5I9	9			9		9	9			9			10	10	10	10	10
190	20BF1A0 5J0	9			9		10	9			9			10	10	10	10	10
191	20BF1A0 5J1		8		8		8		8					10	10	10	10	10
192	20BF1A0 5J2		8		8	8	8		8		8			10	10	10	10	10
193	20BF1A0 5J3		8		8		8		8		3			10	10	10	10	10
194	21BF5A0 501	5		5			5	8		3				10	10	10	10	10
195	21BF5A0 502		9		9		9		9		9			10	10	10	10	10
196	21BF5A0 503	8		8		7	8	8		7				10	10	10	10	10
197	21BF5A0 504		9		9		9		9		9			10	10	10	10	10
198	21BF5A0 505		9		9		10		9		9			10	10	10	10	10
199	21BF5A0 506	9			9		10	9			9		2	10	10	10	10	10



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200	21BF5A0 507	4		3			3	6		5				10	10	10	10	10
201	21BF5A0 508	9			9		9	9			8			10	10	10	10	10
202	21BF5A0 509	7			7		7	9			5			10	10	10	10	10
203	21BF5A0 510		9		9		9		9		6			10	10	10	10	10
204	21BF5A0 511		9		7		5		8				7	10	10	10	10	10
205	21BF5A0 512	8			7	7	7	6			4			10	10	10	10	10
206	21BF5A0 513	9					0	6						10	10	10	10	10
207	21BF5A0 514	9			9	9	9	9			8	3		10	10	10	10	10
208	21BF5A0 515		9		9		9		9		9		6	10	10	10	10	10
209	21BF5A0 516	9			7		7	6		1				10	10	10	10	10
210	21BF5A0 517	7			5		4	8			6			10	10	10	10	10
211	21BF5A0 518	8			8		8	9					5	10	10	10	10	10
Number of students attempted question		211	103	73	145	63	196	123	91	56	127	43	86	211	211	211	211	211
Number of students scoring more than 60%		101	86	57	125	44	176	104	82	40	105	27	63	211	211	211	211	211
% CO Assessment		82.8	83.5	78.1	86.2	69.8	89.8	84.6	90.1	71.4	82.7	62.8	73.3	100.0	100.0	100.0	100.0	100.0
CO Assessment level		2.48	2.50	2.34	2.59	2.10	2.69	2.54	2.70	2.14	2.48	1.88	2.20	3.00	3.00	3.00	3.00	3.00



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Question-wise Distribution of Marks obtained in End Examinations:

S.No .	Reg. No.	Short Answers					Essay Answers									
		1a	1b	1c	1d	1e	Q.2	Q.3	Q.4	Q.5	Q.6	Q.7	Q.8	Q.9	Q.10	Q.11
Max. Marks		2	2	2	2	2	10	10	10	10	10	10	10	10	10	10
60% Marks		1	1	1	1	1	6	6	6	6	6	6	6	6	6	6
1	2215305001	2	2	1	0.5	0.5		7	7		5	5	0	5		2
2	2215305002	2	2	2	1	2	10		10		9		10	8	9	
3	2215305003	2	2	2	1	1	10		9		9	9		8	9	
4	2215305004	1	1	2	1	2		9	10		9		10		10	
5	2215305005	2	0	2	0.5	0.5	8		7		9		7		0	
6	2215305006	0		0		0		3	1		3			0		0
7	2215305007	2	2	2	1	1		7	10		10			8	9	
8	2215305008	2	2	2	1	2	10	8	10		10		10		9	
9	2215305009	0	0	0.5	0	0		0.5		0	0	0		0		
10	2215305010	2	2	1	1	1	10		10		10		10		10	
11	2215305011	2	2	2	1	1	10			8		10		9	9	
12	2215305012	2	2	2	1	2	10		9	9	9		10		9	6
13	2215305013	2	1	2	1	1	5	8	4		5			6	8	
14	2215305014	2	1	2	1	2	10		10		10		10		10	
15	2215305015	2	2	2	1.5	1.5	10		10		10		10		10	6
16	2215305016	2	2	2	1	1	9	5	7		8			9	10	7
17	2215305017	2	2	2	1	2	9		7		8		9		10	
18	2215305018	2	2	2	1	2	9		10		10		10		9	
19	2215305019	2	2	2	1	1	8		7		5		8		8	
20	2215305020	2	2	2	1	0	1	8	5		5	2	6	2	5	4
21	2215305021				0	0	3		0		0			0		
22	2215305022	2	2	2	1	1	7		10		8		8		8	
23	2215305023	1	1	1	1	1	8	5		7	9			8	10	
24	2215305024	2	1	1	0	1	5		1		4		8		4	
25	2215305025	2	2	2	0	1	6		8		1	10	9		8	
26	2215305026	2	2	1	1	1	9		7	10	6		8		8	
27	2215305027	2	2	2	1	2	10		10		8		10		9	
28	2215305028	2	0	0	1	1	3		6		4		4	4	2	6
29	2215305029	1	2	2	0	1	7		7		6		6			5
30	2215305030	2	2	2	1	1	8		9		10		9			8
31	2215305031	2	2	1	1	2	9		8		10		9		10	
32	2215305032	2	2	2	1	1	6		10		8			8		9
33	2215305033	2	2	2	1	1	7			6	7		8			9
34	2215305034	2	2	2	1	1	10		10		9		10		10	
35	2215305035	1	2	2	1	1	7		5		9			9	8	
36	2215305036	2	2	2	1	1	10		10		10			8	8	
37	2215305037	2	2	2	1	2	8		9	7	10		10		10	
38	2215305038	1	2	2	1	1		7	10		8			8		6



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39	2215305039	2	2	2	2	1	9		10		6		9		10	8
40	2215305040	2	2	2	1	1	9			10		9	9		10	
41	2215305041	0	0	2	1	1	7		3		3	6	3		8	2
42	2215305042	2	2	2	1	2	7	9	10		9			9	8	9
43	2215305043	2	2	2	1	1	10		10		10		10		9	
44	2215305044	2	2	2	1	1	7	6	10		10		10		8	5
45	2215305045	2	2	2	1	1	10		10		7	5	4	8	10	
46	2215305046	2	2	2	1	1		6	8		10			8		
47	2215305047	2	2	2	1	1	8		10		10		9		10	
48	2215305048	2	2	1	0	1	8			4	7			8	6	
49	2215305049	2	2	1	1	1		7	10		6			8	3	
50	2215305050	2	2	2	0.5	0.5	7		4		7		8		1	
51	2215305051	0.5	0	0	1	1	6.5		4		6			3		3
52	2215305052	0.5	0	1	0	0	2			1	0			2	1.5	
53	2215305053	2	1	2	1	1	7		8	7		7		7	8	
54	2215305054	2	2	2	1	1	8		10		9		10		10	
55	2215305055	1	2	2	1	1	8	8	10		7	7	8	7	9	4
56	2215305056	1	2	1	1	2	9		10			10	8		9	
57	2215305057	2	2	2	1	1		9		9	7			6	2	
58	2215305058	2	2	2	1	1	7		8		10		10		9	4
59	2215305059	2	2	2	1	1		6	9			7	2			2
60	2215305060	2	2	2	0	1		6	5		7			6	2	
61	2215305061	2	2	2	1	1	10		10		8		6			5
62	2215305062	2	2	2	1	1		8	10		8		8			1
63	2215305063	0	2	2	1	1	8		4			5		2		0
64	2215305064	2	2	1	1	1	10		10		10		9		9	
65	2215305065	2	2	2	1	1	9		8		9		8		9	
66	2215305066							2	1		2			0		2
67	2215305067	0	0	0	0	1	5			1	3				1	
68	2215305068	2	2	1	1	1	6		5		10		8		9	
69	2215305069	2	2	2	1	2	8	9	10		9		8	4	9	
70	2215305070	2	1	2	1			10	9		6			6		0
71	2215305071	2	2	2	1	1		6		10		7	9			9
72	2215305072	2	2	2	1	1	7		5			7	8		9	
73	2215305073	2	2	2	1	2	9		9		10			9	9	
74	2215305074	2	2	2	1	1	10		9			10	9		10	
75	2215305075	2	2	2	1	1	10		8		10			9	8	
76	2215305076	2	2	2	1	2	9			5	10		5		7	7
77	2215305077	2	2	2	1	1	7	6	10	5	10		10		10	
78	2215305078	2	2	2	0	2		4	7		4			6		4
79	2215305079	2	1	1	1	1	5	4	5		3			0	6	
80	2215305080	2	2	0	1	0	7		7		10		8		10	



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81	2215305081	1	2	2	0	1	9		5		4			3		0
82	2215305082	2	2	2	1	1	9		9		10		9		9	
83	2215305083	2	2	2	1	1	10			10		10		9	9	
84	2215305084	2	2	2	1	2	9			7	10		9			8
85	2215305085	2	2	2	1	2	10			10	8		8		10	
86	2215305086	2	2	2	1	1	10			10	10			8	9	
87	2215305087	1	1	2	1	2	8		9			10	9			8
88	2215305088	2	2	2	2	2	10		10		10		9		10	
89	2215305089	1	2	2	1	1	10		7		7			5	9	
90	2215305090	0	1	2	1	1	9		7		9			8		4
91	2215305091	0	2	2	0	0	9		7		6		2	4		2
92	2215305092	2	2	2	1	1	7			3	10		10		9	0
93	2215305093	2	2	2	1	1	9		10		10		9		10	
94	2215305094	2	2	2	1	1	8		9		9			8		6
95	2215305095	2	2	2	2	2	10		10		9		9		10	
96	2215305096	0	0	0	1	1	3	3	2		6		4			4
97	2215305097	2	2	1	0	1	8			5	9		9			1
98	2215305098	0		1	0		3		8		2					
99	2215305099	0.5	0		0.5	0	3		4		3			0	1	
100	2215305100	2	2	1	0	1		9	1		8		7		5	
101	2215305101				1	0		2	1		4		0		4	
102	2215305102	1	1	2	1	1	10	5	9		10			8	9	
103	2215305103	2	2	1	1	1	8		3		10		8		2	4
104	2215305104	2	2	1	1	1	8		10		8			5		2
105	2215305105	2	1	2	1	1	9	2	3		9		8			6
106	2215305106	0	2	2	1	2	10		10		8			5	8	
107	2215305107	2	2	2	0	1		4	8			6	2		8	
108	2215305108	2	2	2	1	2	10		10		10		9		9	
109	2215305109	2	2	2	1	1	10	7	8	6		10	9		9	
110	2215305110	1		0	1	1	4		4		8			3	6	
111	2215305111	1	0	1	0	1	7			0	10		8		8	5
112	2215305112	0	1	2	1	1	8		8		9		8	8	8	
113	2215305113	2	2	2	1	1	9		8		9			9	10	
114	2215305114	2	2	2	1	2	6		8			9	8		8	
115	2215305115	0	1	0	1	1	9		5		4		0			0
116	2215305116							2	0							
117	2215305117	2	2	2	1	0	5		8			8		2		4
118	2215305118	2	1	2	1	2	10		10		10		10		10	
119	2215305119	0	2	0	1	1	5		5		6		9			6
120	2215305120	2	2	2	1	2	10		10	8	8		10		10	
121	2215305121	2	1	2	1	2	10	10	10		10		9		10	
122	2215305122	2	2	2	1	1	9		10	6	9		8	9	9	6



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123	2215305123	0	0			1	8	3	5						0	
124	2215305124				1	0		3	0		9			3		6
125	2215305125	2	2	2	2	2	10			9	9			9	8	
126	2215305126	1	2	2	2	2	10			8	10		9		10	6
127	2215305127	0	2	1	0	0	3		7		8		5			1
128	2215305128	2		1	1		8		2		4		8			5
129	2215305129	2	2	2	1	1	10		10		10			8	9	
130	2215305130	2	2	2	1	1	10			8	9		9		10	
131	2215305131	2	2	2	1	1	8		10		9			8	9	
132	2215305132	2	2	2	1	1	7		10		7		6	2	8	5
133	2215305133	2	1	2	1	1	9		7			10	9			6
134	2215305134	2	2	2	1	2	10			9	10			8	8	
135	2215305135	2	1	2	1	0	9		7		9		7			6
136	2215305136				1	1		5	6		10	1		7		
137	2215305137	2	2	2	1	1	9		7		10		8		9	6
138	2215305138	2	2	2	1	1	10		9		10			9	9	
139	2215305139	2	2	2	1	1	9		7		9		1	3	9	6
140	2215305140	0	1	1	1	1	9		7		5	1	1	1	0	0
141	2215305141	1	2	2	1	1	10	6	7		8			5		6
142	2215305142	1	2	2	1	1	9		9		6		6			6
143	2215305143	1	1	1	0	0	9		5		7		1			6
144	2215305144	2	2	2	1	1		6		8	7		4		8	6
145	2215305145	1	1	1	1	1	10		10		8			8	9	
146	2215305146	2	2	2	1	1	10			9	10		9		10	
147	2215305147	2	2	2	0	1		8	10		10		9		9	
148	2215305148	2	2	2	1	1	10		7		4			9		6
149	2215305149	2	2	2	1	1		9	10		10			8	8	
150	2215305150	2	2	2	1	1		8	10			10		8		6
151	2215305151	2	1	1	1	1	9				8			7	7	
152	2215305152	1	0	2	1	1	9		5		9		5		8	3
153	2215305153	2	0	2	1	1		2	1		6		8			6
154	2215305154	1	1	1	1	1	6		5		3			2	1	
155	2215305155	1	2	1	2	2	9		9		9		9	7	9	6
156	2215305156	2	2	2	1	1	7		1		9		9		8	
157	2215305157		2	1	0	0	4		4		8		0		2	
158	2215305158	0	2	1	1	1	9			4		5	1			
159	2215305159	2	2	1	1	1	10		7		9		9			6
160	2215305160	2	2	2	1	1	10		7		9			8		5
161	2215305161	2	2	2	2	2	8	4	8		8			8		4
162	2215305162	2	2	2	2	2	9		8	9	8		8		8	
163	2215305163	2	2	2	2	2	7		7		7			4	6	3
164	2215305164	2	1	2	1	1	7	6			7			2	6	



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165	2215305165	2	2	2	2	2	9		8			8	9		9	
166	2215305166	0	0	0	0	0	4	4	4		4		1		0	
167	2215305167	2	2	2	2	2	10		10		9	8		8	9	
168	2215305168	2	2	2	1	1	8	3	8		7		3	4		3
169	2215305169	0	2	2	2	2	8		7		5			8	8	
170	2215305170	2	2	1	1	1		6	5	2	7			8	4	
171	2215305171	2	2	2	2	2	8		6		7			3		3
172	2215305172	2	2	2	2	2	10		8		7		9		9	
173	2215305173	0	0	0	1	0	4		3			1		1		1
174	2215305174	2	2	2	2	2		6	9		5	8	8			8
175	2215305175	2	2	2	2	2	10		10		10		9		8	
176	2215305176	1	2	1	1	2	5		2	1	3			1		4
177	2215305177	2	2	2	2	2	10		8		8	10	6	6	7	7
178	2215305178		2	2			6		3		8					
179	2215305179	2	2	2	2	2	8		8		8		9	6	8	4
180	2215305180	2	2	2	2	2	9		8			8	6		8	
181	2215305181	2	2	2	2	2	10		9		9			8	9	
182	2215305182	2	2	2	2	2	10		4	7	7		9		9	6
183	2215305183	2	2	2	2	2	8		8		7		8		8	6
184	2215305184	2	2	2	2	2		10	9		8			9		9
185	2215305185	2	2	2	2	2	8		6		8		2	9	8	6
186	2215305186	2	2	2	2	2	8	4	8		8			9	8	
187	2215305187	2	2	2	2	2	8		8		7			8	6	
188	2215305188	2	2	2	2	2		8	7		6			6		8
189	2215305189	1	2	2	2	2		7		8	7	6	6		8	
190	2215305190	2	2	2	2	2	8	7	6		7		8		7	6
191	2215305191	2	2	2	2	2	8		8		8		9	8	9	
192	2215305192	2	2	2	2	2	7	4	7		7		8		2	
193	2215305193						8	8	3	3	3	3				7
194	2215305194	0	2	2	2	2	8	4	7		6		8			6
195	2215305195	2	2	2	2	2	8		4		7		8		8	4
196	2215305196	2	2	2	2	2	7		7	6	7	7		8		6
197	2215305197	2	2	2	2	2	10		10		8			9	9	9
198	2215305198	2	2	2	2	2	10		9		9		9		9	
199	2215305199	2	2	2	2	2	10			5	9		9		9	
200	2215305200	2	2	2	2	2	10	6	9		8		9		9	6
201	2215305201	2	2	2	2	2	9		6		7		6	7	8	
202	2215305202	1	1	2	1	1	7		6		7		4		4	
203	2215305203	2	2	2	2	2	8		8		8		8	6	8	
204	2215305204	2	2	2	2	2	9		8		8		8			8
205	2215305205	2	2	2	2	2	7		8		7		8		8	
206	2215305206	2	2	2	2	2	8		6		6		3		3	



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207	2215305207	2	2	2	2	2	7	4		8	6	4	6		6	
208	2215305208	2	2	2	2	2	7		8	8	6		9		6	3
209	2215305209	2	2	2	2	2		8			6			7	6	
210	2215305210	2	2	2	2	2	7	4	8	4	6		8			7
211	2215305211	2	2	2	2	2	9			8	7			4	7	
Number of students attempted question		202	200	202	205	204	178	63	179	45	188	38	130	96	148	90
Number of students scoring more than 60%		178	185	190	179	184	159	38	136	30	158	27	106	63	125	48
% CO Assessment		88	93	94	87	90	89	60	76	67	84	71	82	66	84	53
CO Assessment level		2.64	2.78	2.82	2.62	2.71	2.68	1.81	2.28	2.00	2.52	2.13	2.45	1.97	2.53	1.60



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INDIRECT TOOLS:

Course End Survey:
$$CES = \frac{G \times 3 + A \times 2 + S \times 1}{T}$$

G: Total Number of Students gave **GOOD**.

A: Total Number of Students gave **Moderate**.

S: Total Number of Students gave **Satisfactory**.

T: Total Number of Students.

Course Name	COs	COURSE OUTCOMES	Good (3)	Average (2)	Satisfactory (1)	TOTAL NO	INDIRECT LEVEL
Python Programming (IT20APC301)	C215.1	Apply the features of Python language in various applications.	156	45	9	210	2.70
	C215.2	Apply Python programs using functions and modules to increase code readability and maintainability.	175	27	8	210	2.80
	C215.3	Illustrate appropriate core data structures such as lists, tuples, dictionaries, and sets.	169	30	11	210	2.75
	C215.4	Analyze the importance of exception handling for building robust and error-free Python programs.	175	27	8	210	2.80
	C215.5	Summarize OOP principles such as classes, objects, inheritance, polymorphism, and encapsulation.	155	37	18	210	2.65



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CO ATTAINMENT:

Mapping of COs				Assign ment	Intern al Evalu ation	Mapping of COs			Externa l Evaluati on	Direct Attainm ent levels	Indirect Attainm ent Level (CES)	CO Attain ed	% CO Attain ed
CO	Mapping of Mid I & Mid II Term Examination					Mapping of End Term Examination							
C215 .1	2.48	2.50	2.34	3.00	2.58	2.6 5	2.6 8	1.8 1	2.38	2.46	2.70	2.51	83.61
C215 .2	2.59	2.10	2.69	3.00	2.59	2.7 8	2.2 8	2.0 2	2.36	2.45	2.80	2.52	84.08
C215 .3	2.54	2.70		3.00	2.75	2.8 2	2.5 2	2.1 3	2.49	2.59	2.75	2.63	87.51
C215 .4	2.14	2.48		3.00	2.54	2.6 2	2.4 5	1.9 5	2.34	2.42	2.80	2.50	83.19
C215 .5	1.88	2.20		3.00	2.36	2.7 1	2.5 4	1.6 0	2.28	2.31	2.65	2.38	79.35

CO Attainment Analysis:

Based on the above CO attainment it was found that all CO's has reached the target level of 60%. therefore, all CO's are attained.

ACTION SUGGESTED:

For the forth coming batch target level can be increased.


Incharge


Signature of HOD