



## AVANTHI INSTITUTE OF ENGINEERING AND TECHNOLOGY

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### 2.6.2: CO-PO Attainment method:

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### 2.6.2 Attainment of programme outcomes and course outcomes are evaluated by the institution.

**PO.1.Engineering knowledge:** Apply the knowledge of mathematics, science, engineering fundamentals, and an engineering specialization to the solution of complex engineering problems.

**PO.2.Problem analysis:** Identify, formulate, research literature, and analyze complex engineering problems reaching substantiated conclusions using first principles of mathematics, natural sciences, and engineering sciences.

**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.Modern tool usage:** Create, select, and apply appropriate techniques, resources, and modern engineering and IT tools including prediction and modeling to complex engineering activities with an understanding of the limitations.

**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.

**PO.10. Communication:** Communicate effectively on complex engineering activities with the engineering community and with society at large, such as, being able to comprehend and write effective reports and design documentation, make effective presentations, and give and receive clear instructions.

**PO.11. 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.

  
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**PO.12. Life-long learning:** Recognize the need for, and have the preparation and ability to engage in independent and life-long learning in the broadest context of technological change.

### PROGRAM SPECIFIC OUTCOMES:

PSO 1: Design, implement, test and evaluate a computer system, component or algorithm to meet desired needs and to solve a computational problem.

PSO 2: Ability to analyze, design and implement hardware and software component

### Attainment Procedure:

The evaluation of Program Outcomes (POs) and Course Outcomes (COs) is a critical component of educational assessment. It helps determine the extent to which students have achieved the intended learning outcomes and provides valuable insights into the effectiveness of the curriculum and instructional methods. In this response, we will explain how the attainment of POs and COs is evaluated, along with the use of evidence to support the evaluation process. Evaluation of POs involves assessing the overall achievement of the desired program-level outcomes. By evaluating students' work directly, we can assess the extent to which POs are being achieved.


For the Attainment of CO's, PO's and PSO's The Avanthi Institute Of Engineering and Technology has defined and considered CO's for each course which are framed in JNTUH curriculum. A correlation is established between CO's PO's and PSO's with 3 scale that is 1 to 3 as follows.

1. for Low
2. for Medium
3. for High

For mapping CO's, PO's, PSO's for all the courses, matrices are merged to form a program level

CO-PO-PSO matrices. There are two methods for assessments and evaluating the attainments levels. Those are

1. Direct Assessment
2. Indirect Assessment

  
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The Avanthi Institute of Engineering and Technology follows direct Assessment for CO, PO attainments by considering internal and external Examinations. CO attainment is calculated based on the performance of the students using various assessment tools such as CIE and SEE.

For levels for attainment the Institute has considered upon the Percentage of students in program who have got 60% above in CIE and 40% or E grade in SEE

% of students score greater than or equal to set target	CO Attainment Level
60% above	Level 3
50-60%	Level 2
40-50%	Level 1

For division of marks by the University and weightage arrived at the attainment of CO's are Explained through the following table

Type of Course	Internal Marks CIE (mid/assignment)	External Marks SEE	Total Marks	Final Attainment Level
Theory	25	75	100	0.25 (Internal attainment) 0.75 (External attainment)
Laboratory	25	75	100	0.25 (Internal attainment) 0.75 (External attainment)
seminar	100	--	100	CIE
Industry oriented Mini project	--	100	100	SEE
Major Project	25	75	100	0.25 (Internal attainment) 0.75 (External attainment)

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For direct assessment measures, evidence includes the quality of students' projects, portfolios, or performance assessments. The evidence demonstrates students' ability to meet the specific criteria and standards set for each PO. In the case of indirect assessment methods, evidence includes survey responses, interview transcripts, and feedback from stakeholders.

The evaluation of COs focuses on the assessment of specific learning outcomes for individual courses. Like with POs, direct assessment measures are commonly used to evaluate COs. These measures include exams, assignments, presentations, and laboratory work. The assessments are designed to measure students' understanding and mastery of the specific learning outcomes outlined for each course.

Evidence for the evaluation of COs includes student work samples, exam scores, and assessment results. For example, students' Mid and assignments exams are analyzed to determine the extent to which they have met the specific learning outcomes.

The evaluation of POs and COs is crucial for assessing the achievement of intended learning outcomes in educational programs and courses. Direct assessment measures, such as mid exams and assignments, provide evidence of student performance and attainment.

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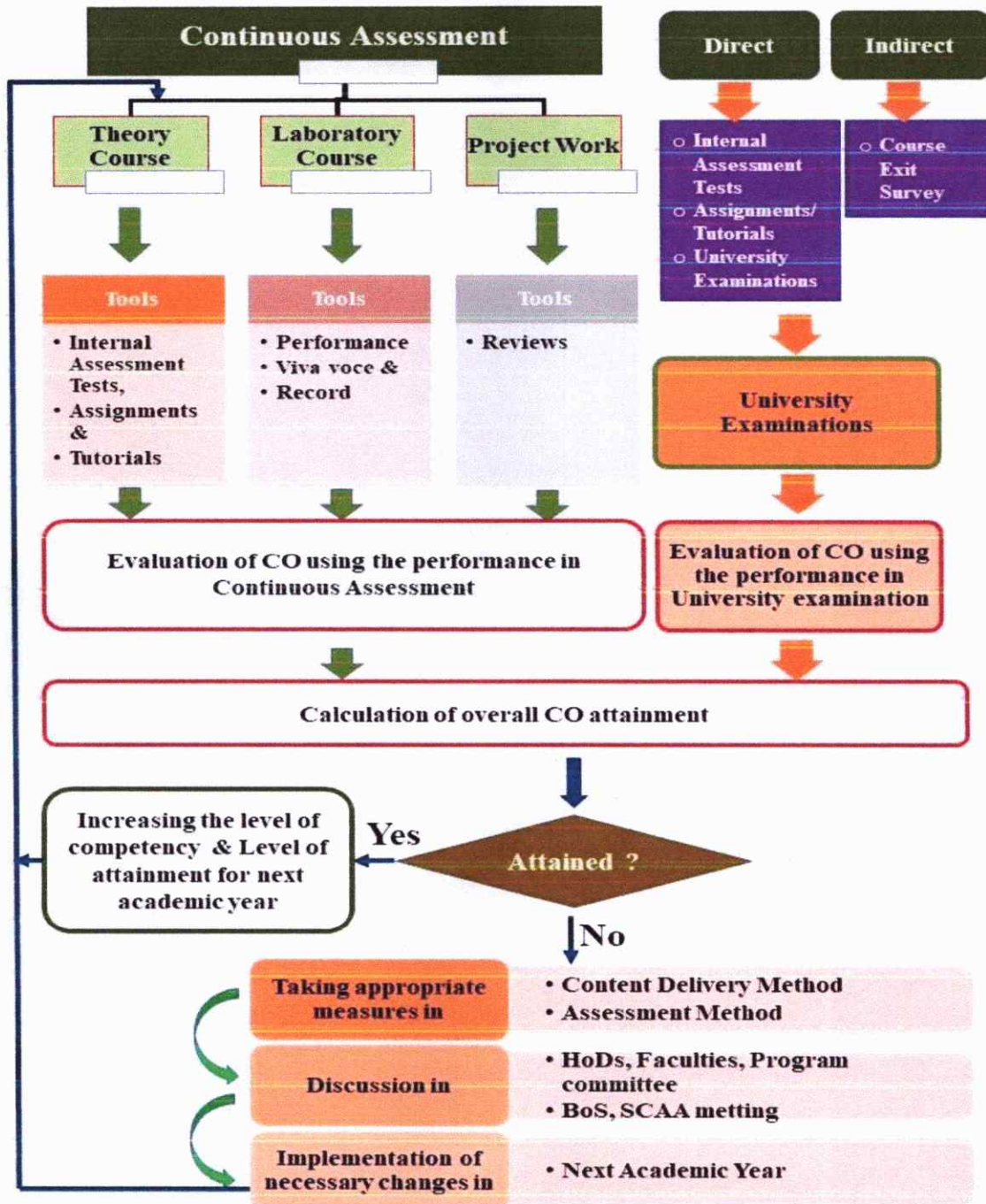
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## CO ATTAINMENT (THEORY)



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### Theory courses:

For each theory course, faculty member calculates the course outcome attainment using University Examination and Internal Assessment Test. The attainment level will be calculated based on the average performance levels of both University Examination and Internal Assessment Test. The evaluation process of Internal Assessment Tests/Assignments/Tutorial is counted for 25% and the remaining 75% will be given for university examination. Based on the level of CO attainment, the faculty member will decide whether to increase the competency level or change the content delivery method, assessment methods to improve attainment level for the course..

CO Attainment	Assessment Tool	weightage	Frequency
	Internal Assessment Tests	25%	Twice in a Semester
	University Examination	75%	Once in a Semester

### Laboratory Courses:

For laboratory courses, the course outcome will be calculated based on performance, viva-voce, record work and model practical examination with the weightage of 25% for Continuous Internal Assessment and 75 % weightage for University Practical Examination. Based on the CO attainment level, the faculty member will decide whether to increase the competency level or enhance the practical knowledge of the students in order to improve attainment level for the laboratory course.

CO Attainment	Assessment Tool	weightage	Frequency
	Continuous Internal Assessment	25%	Every Week
	University Practical Examination	75%	Once in a Semester

### Project Work Assessment:

For project work, Continuous Internal Assessment is based on the performance in the three reviews. The Course Attainment is calculated based on the three reviews and project Viva voce.

- Project review is conducted every month to review the progress of the project and the second review will be conducted in the presence of an industry expert.
- Suggestions are given to the students for their continuous update and improvement.
- Evaluation of each review is based on the parameters discussed in teaching learning process.

The faculty member will decide the competency level and attainment level for project work considering the average performance level of the students

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Assessment Tool		weightage	Frequency
Continuous Assessment	Reviews	25%	Every Month
University Assessment	Viva-Voce	75%	Once in a Semester

### CO Attainment Calculation:

The course outcomes for all the courses are calculated in terms of percentage using the formula.

$$\text{COx in \%} = \frac{\text{Marks obtained by the students in COx}}{\text{Maximum Marks allotted in COx}} \times 100$$

Where, x= [1 to N], N= Number of COs.

### Overall CO Attainment:

The Overall Attainment for a course is sum of 25% of Internal Assessment Test Attainment Level and 75% of University Attainment Level.

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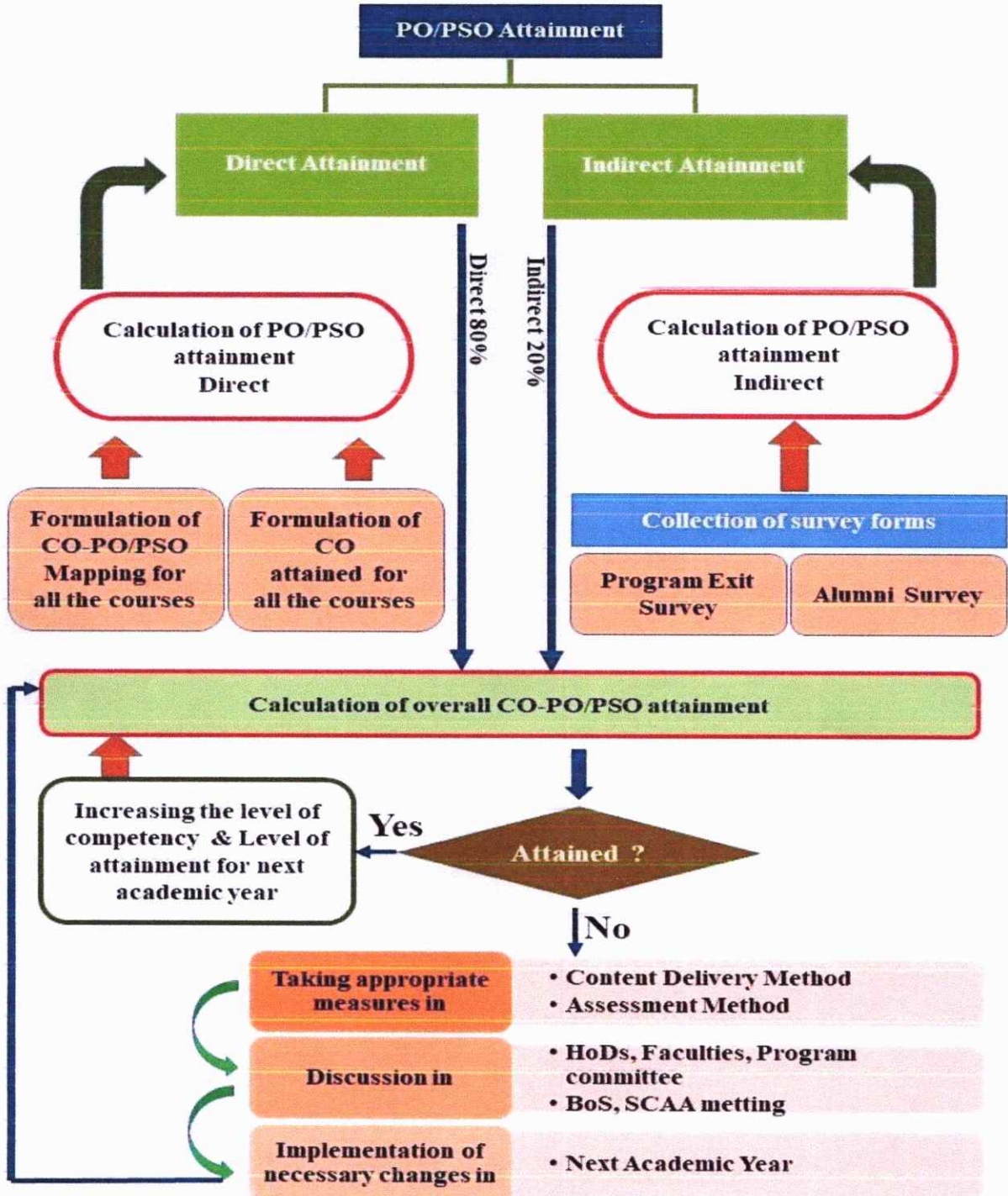
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Evaluation of attainment of POs and PSOs is based on direct and indirect assessment tools. Direct assessment of POs and PSOs is based on students' performance in Continuous Assessments and University Examination. Indirect assessment is based on Program Exit Survey, Alumni Survey and Course Exit Survey (Theory and Practical).

### **Indirect Assessment:**

The following tools are used to assess the indirect assessment of attainment of COs, POs and PSOs.

S.no	Tools used for Assessment processes	2019-20	2020-21	2021-22	2022-23
POs, PSOs Indirect Assessment Tools					
1	Program Exit Survey	✓	✓	✓	✓
2	Alumni Survey				
CO Attainment Indirect Assessment Tool					
3	Course Exit Survey	✓	✓	✓	✓

### **Course Exit Survey (Theory & Practical):**

The course exit survey is process of collecting reviews on each course from the students at the end of each semester. It helps to improve the overall aspect of the course in future semesters. The survey covers the overall view about teaching and learning of the respective course. The survey form reveals the following attributes:

- \*Course Content- Quality of the content provided, incorporation of Outcome Based Education
- \*Course Delivery- Experience about the teaching methodologies, ICT tools, NPTEL resource utilization.
- \*Course Assessment- Methodology of evaluation, feedbacks on assignments and tutorials
- \*General suggestions for improvement.

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### Program Exit Survey:

It is a process of collecting satisfaction survey on the quality of education from the perspective of graduating students upon the completion of their program. The survey helps in identifying

- Perception on the overall quality of teaching, learning and mentoring. Opinion about the support provided by the programme in projects, modern tools and softwares.
- Support provided for extra-curricular and co-curricular activities
- Exposure to the competitive exams and personality development programmes.
- Improvement on facilities.
- 

### PO & PSO Attainment Calculation of PES:

#### Question Level Attainment:

Program Exit Survey (PES) Question Level Attainment	3	80% of the Students provided more than or equal to 3 Marks in Survey Question
	2	70% of the Students provided more than or equal to 3 Marks in Survey Question
	1	60% of the Students provided more than or equal to 3 Marks in Survey Question

### process for Indirect PO attainment.

PO Attainment	Tools	Process
Indirect	<ul style="list-style-type: none"><li>• Program Exit Survey</li></ul>	On completion of program, a feedback is obtained from each student about the entire program experience.
	<ul style="list-style-type: none"><li>• Alumni Survey</li></ul>	During the alumni meet, graduation day the alumni survey are collected from the graduates based on the various parameters.

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### CO & PO /PSO ATTAINMENT CALCULATION METHODOLOGY

The CO attainment calculation methodology is illustrated taking a typical course **Computer Networks (III –I sem)** of **COMPUTER SCIENCE ENGINEERING** as an example

#### Course Outcomes

CO1	Gain the knowledge of the basic computer network technology.													
CO2	Gain the knowledge of the functions of each layer in the OSI and TCP/IP reference Co.1 model.													
CO3	Obtain the skills of subnetting and routing mechanisms.													
CO-PO Mapping														
CO	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12	PSO1	PSO2
CO1	3	2	2	2	2							2	2	2
CO2	2	3	2	2	3							2	2	3
CO3	2	2	2	2	2							2	2	2
CO Avg	2.33	2.33	2	2	2.3							2	2	2.3

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Department:		COMPUTER SCIENCE AND ENGINEERING					
Course Outcome Attainment - Internal Assessments							
Branch & Section:		CSE		Exam:		MID - I	
Course/Sub:		Computer Networks		Year/Semister:		III-I	
		CO1	CO2	CO2	CO3		
		Question No.					
		Q1	Q2	Q3	Q4	Objective(	Assignment(5)
Maximum Marks		5	5	5	5	10)	
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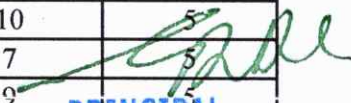
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107	21Q65A0516	3	4			10	5
108	21Q65A0517		4	4		10	5
No. of students attempted		8	24	22	4	28	28
Max Marks Question wise		5	5	5	5	10	5
Target 50%		2.5	2.5	2.5	2.5	5	2.5
No. of Students above 50%		8	22	20	4	26	28
% of Students > 50%		100	91.67	90.91	100	92.86	100
Attainment Level		3	3	3	3	3	3

Attainment table	
50-60%	1
60-70%	2
70-80%	3

  
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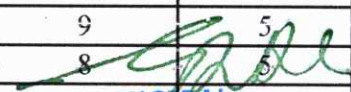


Department:		COMPUTER SCIENCE AND ENGINEERING					
Course Outcome Attainment - Internal Assessments							
Name of the Faculty:				Academic Year:		2022-23	
Branch & Section:		CSE		Exam:		MID - H	
Course/Sub:		Computer Networks		Year/Semester:		III-I	
		CO3	CO4	CO4	CO5		
Sl.No	Roll Number	Question No.				Objective	Assignment
		Q1	Q2	Q3	Q4		
Maximum Marks		5	5	5	5	10	5
1	20Q61A0501		5	5		10	5
2	20Q61A0502	4		5		6	5
3	20Q61A0503		3	3		7	5
4	20Q61A0504			3	3	6	5
5	20Q61A0505			5	4	9	5
6	20Q61A0506		5	4		6	5
7	20Q61A0507		4		4	9	5
8	20Q61A0508		5	4		9	5
9	20Q61A0509	5		5		9	5
10	20Q61A0510		5	5		10	5
11	20Q61A0511	4		5		9	5
12	20Q61A0512		2	5		8	5
13	20Q61A0514	3		3		7	5
14	20Q61A0515		5		5	9	5
15	20Q61A0516		5	4		9	5
16	20Q61A0517		5	5		10	5
17	20Q61A0518		5	4	5	9	5
18	20Q61A0519		4	5		7	5
19	20Q61A0520		4	4		10	5
20	20Q61A0521		5	5		10	5
21	20Q61A0522		5	4		9	5
22	20Q61A0523		5	5		10	5
23	20Q61A0524	5	5			10	5
24	20Q61A0525		4	5		9	5
25	20Q61A0526		3	3		7	5
26	20Q61A0527	5	5			10	5
27	20Q61A0528		2	2		5	5
28	20Q61A0529	4	4	5		9	5
29	20Q61A0531	5			5	9	5
30	20Q61A0532			2	2	8	5
31	20Q61A0533		4	3		6	5
32	20Q61A0534		2	4		7	5
33	20Q61A0535		5	5		10	5
34	20Q61A0536	4	3			7	5
35	20Q61A0537	5			4	9	5
36	20Q61A0538			3	2	8	5
37	20Q61A0539		5	5		10	5

  
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38	20Q61A0541		3		3	8	5
39	20Q61A0542	5			5	10	5
40	20Q61A0543	4		4		9	5
41	20Q61A0545		4	3		8	5
42	20Q61A0546	5	4			8	5
43	20Q61A0547	4	5			9	5
44	20Q61A0548		4		4	6	5
45	20Q61A0550			5	5	10	5
46	20Q61A0551		4	3		9	5
47	20Q61A0552	4			3	6	5
48	20Q61A0553		3	3		4	5
49	20Q61A0554	5	5			10	5
50	20Q61A0556	3			3	7	5
51	20Q61A0557		3	3		10	5
52	20Q61A0559	4	4			9	5
53	20Q61A0560		3	4		6	5
54	20Q61A0561		3	2		7	5
55	20Q61A0562	5	5			9	5
56	20Q61A0564	3			4	8	5
57	20Q61A0565			4	3	9	5
58	20Q61A0566		3	2		7	5
59	20Q61A0567		2		3	7	5
60	20Q61A0568	4			3	8	5
61	20Q61A0570	2		2		5	5
62	20Q61A0571			5	5	9	5
63	20Q61A0572			3	3	4	5
64	20Q61A0574		5	4		8	5
65	20Q61A0575	3	4			9	5
66	20Q61A0576		2	3		4	5
67	20Q61A0577		4	3		8	5
68	20Q61A0578	5	5			9	5
69	20Q61A0579	5			5	10	5
70	20Q61A0580			5	4	8	5
71	20Q61A0581		5	5		10	5
72	20Q61A0582		4	5		8	5
73	20Q61A0583		1	2		4	5
74	20Q61A0584	3	4			9	5
75	20Q61A0585	4			4	7	5
76	20Q61A0586			4	5	10	5
77	20Q61A0587		5	2		9	5
78	20Q61A0588	4	3			9	5
79	20Q61A0589			4	4	7	5
80	20Q61A0590	3		2		6	5
81	20Q61A0591					10	5
82	20Q61A0592	5			5	9	5
83	20Q61A0593			5	4	7	5
84	20Q61A0594			4		10	5
85	20Q61A0595		5		5	9	5
86	20Q61A0597	5			4	8	5
87	20Q61A0598		5	5		9	5
88	20Q61A0599			4	4	9	5
89	20Q61A05A0	5			4	9	5
90	20Q61A05A1	5		5		9	5
91	20Q61A05A2		4	4		0	5

  
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92	20Q61A05A3		4		4	0	5
93	21Q65A0501			4	3	9	5
94	21Q65A0502	4		4		9	5
95	21Q65A0503	5	4			8	5
96	21Q65A0504		4		5	7	5
97	21Q65A0505		5		5	9	5
98	21Q65A0506	4	4			9	5
99	21Q65A0507	5			5	8	5
100	21Q65A0508			4	3	10	5
101	21Q65A0509		3		3	7	5
102	21Q65A0510	4	4			9	5
103	21Q65A0511	4			5	9	5
104	21Q65A0512			5	5	9	5
105	21Q65A0513			5	5	9	5
106	21Q65A0514		4		4	10	5
107	21Q65A0516	4	4			8	5
108	21Q65A0517		5	4		9	5
No. of students attempted		10	13	17	13	28	28
Max Marks Question wise		5	5	5	5	10	5
Target 50%		2.5	2.5	2.5	2.5	5	2.5
No. of Students above 50%		10	11	14	13	24	28
% of Students > 50%		100	84.62	82.36	100	85.72	100
Attainment Level		3	3	3	3	3	3

Attainment table	
50-60%	1
60-70%	2
70-80%	3

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Department:		COMPUTER SCIENCE AND ENGINEERING		
Course Outcome Attainment External Examination				
Branch & Section:	CSE		Exam:	EXTERNAL
Course:	Computer Networks		Year/Semister:	III-I
S.NO.	HALLTICKET NO	TOTAL(Max. Score Marks)		
1	20Q61A0501	26		
2	20Q61A0502	28		
3	20Q61A0503	29		
4	20Q61A0504	21		
5	20Q61A0505	28		
6	20Q61A0506	29		
7	20Q61A0507	30		
8	20Q61A0508	31		
9	20Q61A0509	32		
10	20Q61A0510	32		
11	20Q61A0511	14		
12	20Q61A0512	32		
13	20Q61A0514	27		
14	20Q61A0515	29		
15	20Q61A0516	36		
16	20Q61A0517	33		
17	20Q61A0518	26		
18	20Q61A0519	26		
19	20Q61A0520	19		
20	20Q61A0521	33		
21	20Q61A0522	37		
22	20Q61A0523	32		
23	20Q61A0524	32		
24	20Q61A0525	36		
25	20Q61A0526	28		
26	20Q61A0527	30		
27	20Q61A0528	26		
28	20Q61A0529	29		
29	20Q61A0531	29		
30	20Q61A0532	26		
31	20Q61A0533	27		
32	20Q61A0534	19		
33	20Q61A0535	32		
34	20Q61A0536	26		
35	20Q61A0537	34		
36	20Q61A0538	26		
37	20Q61A0539	34		
38	20Q61A0541	27		
39	20Q61A0542	32		
40	20Q61A0543	26		

  
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41	20Q61A0545	10
42	20Q61A0546	17
43	20Q61A0547	28
44	20Q61A0548	18
45	20Q61A0550	28
46	20Q61A0551	4
47	20Q61A0552	26
48	20Q61A0553	3
49	20Q61A0554	29
50	20Q61A0556	14
51	20Q61A0557	26
52	20Q61A0559	37
53	20Q61A0560	17
54	20Q61A0561	27
55	20Q61A0562	32
56	20Q61A0564	27
57	20Q61A0565	26
58	20Q61A0566	28
59	20Q61A0567	18
60	20Q61A0568	26
61	20Q61A0570	30
62	20Q61A0571	34
63	20Q61A0572	30
64	20Q61A0574	12
65	20Q61A0575	33
66	20Q61A0576	1
67	20Q61A0577	28
68	20Q61A0578	31
69	20Q61A0579	27
70	20Q61A0580	27
71	20Q61A0581	27
72	20Q61A0582	19
73	20Q61A0583	-1
74	20Q61A0584	26
75	20Q61A0585	21
76	20Q61A0586	15
77	20Q61A0587	16
78	20Q61A0588	26
79	20Q61A0589	18
80	20Q61A0590	16
81	20Q61A0591	16
82	20Q61A0592	30
83	20Q61A0593	21
84	20Q61A0594	26
85	20Q61A0595	30
86	20Q61A0597	28
87	20Q61A0598	26
88	20Q61A0599	36
89	20Q61A05A0	28
90	20Q61A05A1	37
91	20Q61A05A2	19
92	20Q61A05A3	27
93	21Q65A0501	29

  
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94	21Q65A0502	29
95	21Q65A0503	31
96	21Q65A0504	32
97	21Q65A0505	26
98	21Q65A0506	26
99	21Q65A0507	28
100	21Q65A0508	10
101	21Q65A0509	29
102	21Q65A0510	26
103	21Q65A0511	19
104	21Q65A0512	32
105	21Q65A0513	34
106	21Q65A0514	35
107	21Q65A0516	26
108	21Q65A0517	26
No. of students who attempted the subject		107
Max. Marks		75
No. of students secured > 26 marks		80
Percentage of students secured > 26 marks		74.8
<b>Overall External Attainment level</b>		<b>3</b>

Attainment table	
50-60%	1
60-70%	2
70-80%	3

  
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<b>Overall Course Outcome Attainment</b>			
Branch & Section:	CSE	Exam:	
Course:	Computer Networks	Semester:	III-I

Course Outcomes	1st Internal Exam	2nd Internal Exam	Internal Exam(Avg.)	University Exam	Overall Attainment
Course outcome - 1	3	-	3	3	3
Course outcome - 2	3	-	3	3	3
Course outcome - 3	3	3	3	3	3
Course outcome - 4	-	3	3	3	3
Course outcome - 5	-	3	3	3	3
Average			3	3	3

OVERALL ATTAINMENT OF THE SUBJECT = 0.25\*INT + 0.75\*EXT

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### COURSE OUTCOMES

CO1	Gain the knowledge of the basic computer network technology.													
CO2	Gain the knowledge of the functions of each layer in the OSI and TCP/IP reference Co.1 model.													
CO3	Obtain the skills of subnetting and routing mechanisms.													
CO-PO Mapping														
CO	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12	PSO1	PSO2
CO1	3	2	2	2	2							2	2	2
CO2	2	3	2	2	3							2	2	3
CO3	2	2	2	2	2							2	2	2
CO Avg	2.33	2.33	2	2	2.3							2	2	2.3

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### CO ATTAINMENTS OF ALL COURSES IN B,TECH(CSE) 2022-23 BATCH

S.no	Course	CO attainments
1	Matrices and Calculus	2.25
2	Engineering Chemistry	3.00
3	Programming for Problem Solving	2.25
4	Basic Electrical Engineering	2.25
5	Computer Aided Engineering Graphics	3.00
6	Engineering Chemistry Laboratory	3.00
7	Programming for Problem Solving Laboratory	2.25
8	Basic Electrical Engineering Laboratory	3.00
9	Ordinary Differential Equations and Vector Calculus	2.25
10	Applied Physics	2.25
11	English for Skill Enhancement	3.00
12	Electronic Devices and Circuits	2.25
13	Applied Physics Laboratory	3.00
14	Python Programming Laboratory	3.00
15	English Language and Communication Skills Laboratory	3.00
16	IT Workshop	3.00
17	Analog and Digital Electronics	3.00
18	Data Structures	3.00
19	Computer Oriented Statistical Methods	2.25
20	Computer Organization and Architecture	3.00
21	Object Oriented Programming using C++	3.00
22	Analog and Digital Electronics Lab	3.00
23	Data Structures Lab	3.00
24	C++ Programming Lab	2.25
25	Discrete Mathematics	2.25
26	Business Economics & Financial Analysis	2.25
27	Operating Systems	3.00
28	Database Management Systems	3.00
29	Java Programming	3.00
30	Operating Systems Lab	2.25
31	Database Management Systems Lab	3.00
32	Java Programming Lab	3.00
33	Formal Languages & Automata Theory	3.00
34	Software Engineering	2.25
35	Computer Networks	3.00
36	Web Technologies	2.25
37	Distributed Databases	2.25

  
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38	Software Engineering Lab	2.25
39	Computer Networks & Web Technologies Lab	3.00
40	Advanced Communication Skills Lab	3.00
41	Machine Learning	3.00
42	Compiler Design	2.25
43	Design and Analysis of Algorithms	3.00
44	Software Testing Methodologies	3.00
45	QAFBD	2.25
46	Software Testing Methodologies Lab	3.00
47	Machine Learning Lab	3.00
48	Compiler Design Lab	3.00
49	Principles of Enterprenueship	3.00
50	cloud computing	3.00
51	Data mining	3.00
52	Cryptography & Network Security	3.00
53	Cryptography & Network Security Lab	3.00
54	Industrial Oriented Mini Project/ Summer Internship	3.00
55	Seminar	3.00
56	Project Stage - I	3.00
57	Human Computer Interaction	3.00
58	Organizational Behaviour	3.00
59	Non Conventional Sources Of energy	3.00
60	Project Stage-II	3.00

  
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**The Mapping levels for all courses of B.Tech (Computer Science Engineering) are shown below:**

S.No	Course	Mapping Levels													
		PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12	PSO1	PSO2
1	M&C	2.2	2.2	2.25	2	2.2	2.33					1.5	2	1	2.2
2	EC	2.2	2.2	2.25	2	2.2	2.33					1.5	3	2	2.12
3	PPS	2	2	2	2	2				2			1.5	2	
4	BEE	3	2	3	2	2.25							3	3	2
5	CIEG	2	2.5	2.3	2	1.66	2						1	1	2.2
6	EC LAB	2.1	2	2.1	-	-	-	2	-	-	-	-	-	1.5	2.2
7	PPS LAB	3	3	3	3	3	3	3	3	3	3	3	3	3	3
8	BEE LAB	3	3	3	3	3	3	3	3	3	3	3	3	3	3
9	OD&VC	3	3	3	3	2	2				2		2	2	
10	AP	3	2.5	1.75	1		2	2.3					1.5	1.5	
11	ES	3	2	2	2.2	2.2							1	1	2.2
12	EDC	2	2				2	2					2		2
13	AP LAB	3	2.5	2.1	2.8	3	-	2.3	-	-	-	-	2	2	2.12
14	PYTHON LAB	3	3	3	3	3	3	3	3	3	3	3	3	3	3
15	EL&CS LAB	3	3	3	3	3	3	3	3	3	3	3	3	3	3
16	IT WORKSHOP	3	3	3	3	3	3	3	3	3	3	3	3	3	3
17	A&DE	2.25	2	2.2									2		2
18	DS	3	3	2	2	2								2	2
19	COSM	3	2.5	2	2.5								2	2	2
20	CO&A	2.75	2.75	2.5	2.25								2	2	2
21	OOPS C++	3	2	3	2		2		2					2	2
22	A&DE LAB	3	3	3	3	3		3	3		3	3	3	3	3
23	DS LAB	2.25	2.25	2.25	2.25								2.25	2.25	2.25
24	C++ LAB	3	3	3	3			3				3	3	3	3
25	DM	2.5	2	2.6	2.3				2	2.3	1.5		2	2.3	2
26	RF&A	2.25	2	1.95	2	1.7							2	2	2
27	OS	3	3	2									2	2.5	2
28	DBMS	3	3	2	2	2								2	2
29	JAVA	3	2.25	2		2.5							2	2.66	
30	OS LAB	2.5	2	2.6	2.3				2	2.3	1.5		2	2.3	2
31	DBMS LAB	3	3	3	3	2								3	2
32	JAVA LAB	3	3	3	3	2								3	2
33	FLAT	3	3	3	3	2								3	2
34	SE	1.8	2.25	1.9								1.57	2.25	1.9	
35	CN	2.33	2.33	2	2	2.33							2	2	2.3
36	WT	3	2	2		2							2	3	
37	DD	2	2.25	2.25									2	2	
38	SE LAB	3	2	3	3	3		2.2		2.2			3	3	
39	CN&WT LAB	2	2.25	2.25									2	2	
40	AECS LAB	3	2.2	3	2.2	3		2.2		2.2			2	2	

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41	CD	3	2	3		2						2	2		
42	DAA	2.33	2.66	2.33								2	2		
43	MI	2	2	3								2	2.33		
44	QAFBD	3	2	2	2	3						2	2		
45	STM	2	2	3	2	3						2.33	2.33		
46	ML LAB	2	3	3						1.96	3			3	
47	CD LAB	2	3	2	3	2		2		2.25		1.96	1.96		
48	STM LAB	3	2	3							3	3		1.57	
49	POE	2	2	3	2				2.3	2.3			3	2	
50	CC	2	2	3									2	2	2
51	DM	2	2	3	2								3	2	
52	CY&NS	2	3	3	2	2							2	2	
53	SP&PM	3	3	3	3	3	3					3	3	2	
54	CY&NS LAB	3	2	2	2	3	2	3	2	2			2	3	
55	MINI	3	2	3	2	3	2	3	2	3			2	2	
56	SEMINAR	3	2.33	3	2.3	3	3	3	2.3	3			3	3	
57	PROJECT -I	3	3	2	2		2		2		2		2	2	
58	HCI	2.4	2.4	2	2	2					2	2	2	2	2
59	OB	2	2.2	2.5	2	2	2		2.5		2.33			2	2
60	NCSE	2.2	2.2	2.25	2	2	2.33					2	3	2	2
61	PROJECT-II	3	2	3	2			2			2	2	2	2	2

  
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**PO and FSO attainment level of all courses of B.Tech (CSE) for 2022-23 are computed and tabulated below**

S.No	Course	Mapping Levels													
		PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12	PSO1	PSO2
1	M&C	2	1.28	1.25	1.93	1.2	1.25					1.45	2.31	1.25	1.74
2	EC	2	1.25	2.17	1.93	1.2	2					2.21	2.2	1.74	2.22
3	PPS	2	1.57	2.23	3	3				2.23			1.7	2.22	
4	BEE	1.57	2	2.25	1.57	2	2.25	2	2.25	2.25	1.57	1.45	2.25	1.57	2.25
5	CIEG	1.9	1.93	1.93	1.93		2.2						2.1	1.82	1.93
6	EC LAB	2	2	2	2	2	3	2	2	3	1.35	2	3	3	3
7	PPS LAB	2	2	2	1.96	3	2	2	2	3	2	2	1.75	2	2
8	BEE LAB	3	2	2	2	2	3	2	1.8	3	2	2	2	3	3
9	OD&VC	2	2.25	2.25	2.25	2.25	2.25				2.25	2.25	2.25	2.25	
10	AP	2.25	2.43	1.7	2		2	2					1.46	2	
11	ES	2	1.91	1.91	2	2							2	2	2
12	EDC	1.93	1.93				1.93	1.93					1.93		1.93
13	AP LAB	3	2	3	2	2	2	3	2	2	3	3	1.95	3	3
14	PYTHON LAB	2	2	2	2	2	2	2	3	2.2	2	2	3	1.95	1.95
15	EL&CS LAB	3	2	2	2	2	3	2	2	3	2	2	3	3	3
16	IT WORKSHOP	3	2	3	-	3	-	-	-	-	-	-	2	2	2
17	A&DE	2.25	2	2.2									2		2
18	DS	3	3	2	2	2								2	2
19	COSM	3	2.5	2	2.5								2	2	2
20	CO&A	2.75	2.75	2.5	2.25								2	2	2
21	OOPS C++	3	2	3	2									2	2
22	A&DE LAB	3	3	3	3	2		2	2		3	2.25	2.25	2	2
23	DS LAB	1.95	2.25	2.25	2.25								2.25	2.25	2.25
24	C++ LAB	1.95	2	3	2			2				3	2	3	2
25	DM	2.5	2	2.6	2.3				2	2.3	1.5		2	2.3	2
26	BEFA	2.25	2	1.95	2	1.7							2	2	2
27	OS	3	3	2									2	2.5	2
28	DBMS	3	3	2	2	2								2	2
29	JAVA	3	2.25	2		2.5							2	2.66	
30	OS LAB	2.5	2	2.6	2.3				2	2.3	1.5		2	2.3	2
31	DBMS LAB	3	3	3	3	2								3	2
32	JAVA LAB	3	3	3	3	2								3	2
33	FLAT	3	3	3	3	2								3	2
34	SE	1.8	2.25	1.9								1.57	2.25	1.9	
35	CN	2.00	2.33	2	2	2.33							2	2	2.3
36	WT	2	1.75	1.75		1.75							1.75	2.25	

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37	DD	2	2.25	2.25								2	2		
38	SE LAB	3	2	3	3	3		2.2		2.2		3	3		
39	CN&WT LAB	2	2.25	2.25								2	2		
40	AECS LAB	3	2.2	3	2.2	3		2.2		2.2		3	3		
40	CD	3	2	3		2						2	2		
41	DAA	2	2.25	2.33								2	2		
42	ML	2	2	3								2	2.33		
43	QAFBD	3	2	2	2	2.66						2	1.75		
44	STM	2	2	3	2	3						2.33	2.33		
45	ML LAB	2	3	3						1.96	3			3	
46	CD LAB	2	3	2	3	2		2		2.25		1.96	1.96		
47	STM LAB	3	2	3							3	3		1.57	
48	POE	2	2	3	2				2.3	2.3			3	2	
49	CC	2	2	3									2	2	
50	DM	2	2	3	2								3	2	
51	CY&NS	2	3	3	2	2							2	2	
52	SP&PM	3	3	3	3	3	3					3	3	2	
53	CY&NS LAB	3	2	2	2	3	2	3	2	2			2	3	
54	MINI	3	2	3	2	3	2	3	2	3			2	2	
55	SEMINAR	3	2.33	3	2.3	3	3	3	2.3	3			3	3	
56	PROJECT -I	3	3	2	2		2		2		2		2	2	
57	HCI	2.4	2.4	2	2	2					2	2	2	2	
58	OB	2	2.2	2.5	2	2	2		2.5		2.33		2	2	
59	NCSE	2.2	2.2	2.25	2	2	2.33					2	3	2	
60	PROJECT-II	3	2	3	2			2			2	2	2	2	
	AVERAGE	2.34	2.24	2.2	2.2	2.25	2.3	2.2	2.13	2.25	2.1	2.2	2.18	2.2	2.17

  
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Course	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12	PSO1	PSO2
Direct PO Attainment	2.34	2.24	2.20	2.21	2.25	2.26	2.24	2.13	2.25	1.80	2.22	2.18	2.00	2.17
Indirect PO Attainment	2.6	2.8	2.8	2.8	2.8	2.8	2.7	2.7	2.7	2.2	2.6	2.6	2.6	2.8
80% of Direct	1.87	1.79	1.76	1.77	1.8	1.81	1.792	1.71	1.8	1.44	1.78	1.75	1.6	1.736
20% of Indirect	0.52	0.56	0.56	0.56	0.56	0.56	0.54	0.54	0.54	0.44	0.52	0.52	0.52	0.56
Overall PO Attainment	2.39	2.35	2.32	2.33	2.36	2.37	2.33	2.25	2.34	1.88	2.30	2.27	2.12	2.30

  
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**The PO/PSO attainments of all the departments are tabulated below:**

PO Attainments of 2022-23 Bbatch														
BRANCH / PO	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12	PSO1	PSO2
CSE	2.39	2.35	2.32	2.33	2.36	2.37	2.33	2.25	2.34	1.88	2.30	2.27	2.12	2.30
EEE	2.28	2.12	2.14	2.14	2.03	2.05	2.08	1.96	2.18	2.06	2.18	1.84	2.23	1.96
MECH	2.3	2.2	2.23	2.27	2.08	2.11	2.03	2.22	2.61	1.85	2.21	2.18	2.12	1.85
ECE	2.3	2.09	2.3	2.2	2	2.3	2	2.3	2.2	2.29	2.21	1.96	2.3	2.09

  
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