



**INTERNATIONAL  
INSTITUTE OF  
INFORMATION  
TECHNOLOGY**  
Innovation & Leadership

P-14, Rajiv Gandhi Info Tech Park, Phase - 1,  
Hinjawadi, Pune - 411057, India

**Department of  
Computer Engineering**

**Academic Year 2018 – 2019**

**Class : TE**

**Semester: I**

**Subject :Computer Networks**

**Identification &  
Activities for Advanced  
Learners**

**Hope Foundation's**  
**International Institute of Information Technology, Pune**  
**DEPARTMENT OF COMPUTER ENGINEERING**  
**Academic Year : 2018-19 Semester : I**

## **LIST OF ADVANCED LEARNERS**

Class: T.E.

Subject: Computer Networks.

Roll No.	Name of the Student	Total % Weightage Based on Parameter (out of 100)
TC001	ALHAT SIDDHARTH SANTOSH	73
TC002	BAGAL AMRUTA POPAT	73
TC003	BAGATE PRATIKSHA SHIVAJI	81
TC007	MINAKSHI CHILME	76
TC011	PATIL VARSHA SHERMAR	80
TC014	RANPISE SHUBHANGI ANIL	74
TC016	RODGE VERSHA DADASAHEB	70
TC024	BOUHARE RAVIRAJ BALKRISHNA	70
TC033	FENIL GAURANG MEHTA	77
TC034	GAIWAL RASIIKA VILAS	71
TC052	ONKAR DYANESHWAR PADLAG	72
TC065	SHETTIKAR RAKSHITHA SATISH	72
TC077	SHRUTI SINHA	79
TC073	HUSSAIN	87

Sign of Faculty:

**List of Assignments/Projects given to Advanced Learners**

Class : TE (Comp)

Course : Computer Networks

Name of Faculty: Ravindra P. Joshi

Roll No.	Name of Student	Assignment
TC001	ALHAT SIDDHARTH SANTOSH	Implementation of Dijkstra's Shortest Path Algorithm
TC002	BAGAL AMRUTA POPAT	Implementation of Dijkstra's Shortest Path Algorithm
TC003	BAGATE PRATIKSHA SHIVAJI	Implementation of Dijkstra's Shortest Path Algorithm
TC009	MINAKSHI CHILME	Implementation of Dijkstra's Shortest Path Algorithm
TC011	PATIL VARSHA SHEKHAR	Network Simulation using Packet tracer
TC014	RANPISE SHUBHANGI ANIL	Network Simulation using Packet tracer
TC016	RODGE VERSHA DADASAHEB	Network Simulation using Packet tracer
TC024	BOCHARE RAVIRAJ BALKRISHNA	Implementation of Leaky bucket Algorithm
TC033	FENIL GAURANG MEHTA	Implementation of Leaky bucket Algorithm
TC034	GAIWAL RASIIKA VILAS	Implementation of Leaky bucket Algorithm
TC052	ONKAR DYANESHWAR KALDAG	Implementation of Leaky bucket Algorithm
TC065	SHETTIGAR RAKSHITHA SATISH	Implementation of Slow Start and AIMD congestion control algorithms
TC067	SHRUTI SINHA	Implementation of Slow Start and AIMD congestion control algorithms
TC073	INWALA ALI SAHEEB SAFDAR HUSSAI	Implementation of Slow Start and AIMD congestion control algorithms

Sign of Faculty



International Institute of Information Technology, Pune - 411057

Department of Computer Engineering

Semester -1 (AY 2018-19)

Subject: CN

Date: Sept. 24, 2018

Class: TE (Comp)

Date of Submission: Oct. 06, 2018

### Programming Assignments (For Advanced Learners)

Group-A [Roll No. TC001-TC023] Implementation of Dijkstra's shortest path algorithm

- Enter number of nodes as well as numbers of source and destination nodes as the input.
- Each node is labeled with its distance from the source node along with the best known path.
- Initially, no paths are known. Hence all nodes may be labeled with infinity
- As the algorithm proceeds and paths are found, the labels may change, reflecting better paths.
- Labels are either tentative or permanent – initially all of them are tentative.
- When it is discovered that a label represents the shortest possible path from source to that node, the label is made permanent. (in other words, the adjacent node with the shortest label is made permanent & becomes the next working node).
- This process continues until the source node becomes the working node.
- Algorithm starts from the source node to obtain the path. It checks the predecessors to the node in succession until the destination node is reached (successor node values are stored in a path).

The program input and output should be as follows,

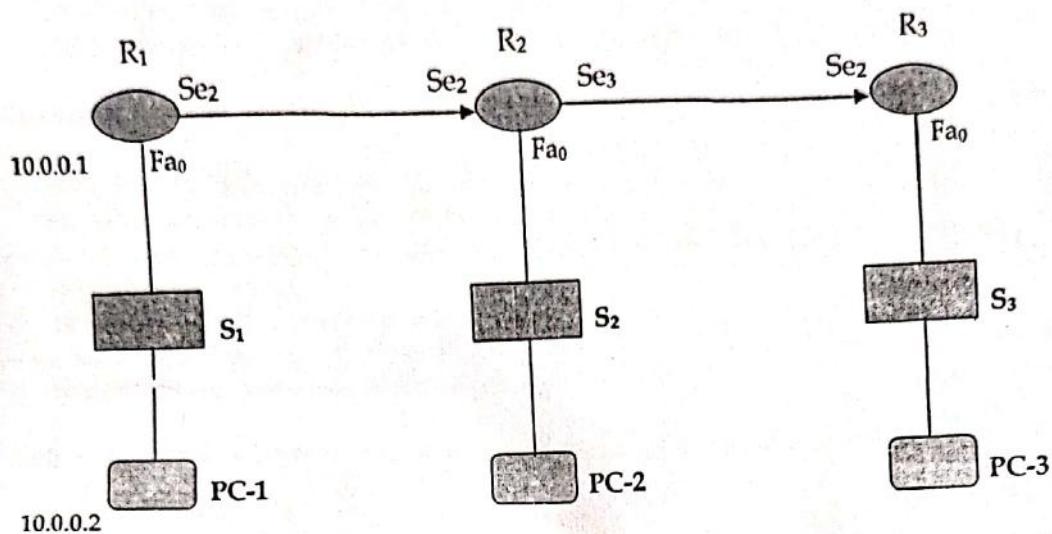
#### Input -

Enter number of nodes = X  
Enter adjacent node for node 1 (Enter 0 to stop inputting) = Y<sub>1</sub>  
Enter distance of node Y<sub>1</sub> from node 1 = d<sub>1</sub> .....  
Enter adjacent node for node 1 (Enter 0 to stop inputting) = Y<sub>2</sub>  
Enter distance of node Y<sub>2</sub> from node 1 = d<sub>2</sub> .....  
Enter adjacent node for node 1 (Enter 0 to stop inputting) = 0  
Enter distance of node 0 from node 1 = 0 .....  
Enter adjacent node for node 2 (Enter 0 to stop inputting) = Z<sub>1</sub>

#### Output -

Shortest path between node 1 and node 4 =  
Shortest distance between node 1 and node 4 =

Simulate the following network using Packet tracer and demonstrate end-to-end connectivity. You may implement Routing Information Protocol (RIP) on router interfaces.



Networks to be used are 10.0.0.0, 172.16.0.0, 20.0.0.0, 192.86.0.0, 30.0.0.0 in various LANs. Sample numbering is shown above. R<sub>1</sub>, R<sub>2</sub>, R<sub>3</sub> are routers and S<sub>1</sub>, S<sub>2</sub>, S<sub>3</sub> are LAN switches.

Each student is required to simulate and demonstrate the network individually.

#### What is a Leaky bucket ?

- This mechanism converts an uneven flow of packets from a host computer to a constant flow of packets onto the network, smoothening out bursts and reducing chances of network congestion.
- Each host is connected to the network by an interface containing a Leaky bucket (i.e. finite internal queue).
- This Leaky bucket interface is useful since routers work best at constant data rates, rather than bursty traffic.

#### How it works ?

- If a packet arrives at FIFO queue, when it is full, it is discarded.
- If a packet arrives at FIFO queue, and if there is room in the queue, it is placed in the queue.
- Host is allowed to put one packet per clock tick onto the network, in case of fixed size packets (e.g. ATM cells); or if variable size packets are used, it is allowed to send fixed number of bytes per clock tick.
- Bucket size may be incremented / decremented depending on the data availability.

## Implementation -

- Consider that the host computer transmits data at variable speeds between 10 to 30 Kbps.
- Output from the host computer needs to be regulated at a speed of 20 Kbps (reception speed).
- Consider maximum bucket size is 1 MB and observe the output for 10 sec.
- Plot graphs of transmission rate, bucket size, regulated output of the bucket.

## Algorithm -

- Initialize the FIFO queue as the Leaky bucket.
- Set clock ticks at the required reception rate.
- Keep checking for input data until clock ticks (increment / decrement bucket size depending on data).
- If input data exists, load it onto the FIFO queue.
- At clock tick, take out data from FIFO queue.
- End the process after required time duration.

Note - Following "C" header files may need to be included in your program.

stdio.h  
stdlib.h

conio.h  
time.h

graphics.h

Group-D [Roll Nos. [TC069-TC087]

Implementation of slow start and AIMD congestion control protocols

Write a program to simulate the behavior of Slow Start and AIMD (Additive Increase and Multiplicative Decrease) congestion control protocols. (Use JAVA/PYTHON)

\*\*\*\*\*

**Hope Foundation's**  
**International Institute of Information Technology, Pune**  
**DEPARTMENT OF COMPUTER ENGINEERING**  
**Academic Year : 2018-19 Semester : I**

## **PERFORMANCE IMPROVEMENT OF SLOW LEARNERS**

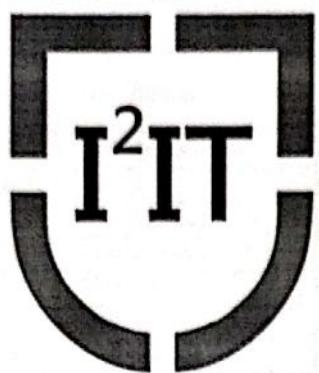
Q

T.E.

**Subject:**

## Computer Networks.

Scanned with CamScanner



**INTERNATIONAL  
INSTITUTE OF  
INFORMATION  
TECHNOLOGY**  
Innovation & Leadership

**P-14, Rajiv Gandhi Info Tech Park, Phase – 1,  
Hinjawadi, Pune – 411057, India**

## **Department of Computer Engineering**

**Academic Year 2018 – 2019**

**Class : TE**

**Semester: I**

**Subject :Computer Networks**

**Identification &  
Activities for Slow  
Learners**

Hope Foundation's  
International Institute of Information Technology  
DEPARTMENT OF COMPUTER ENGINEERING  
Academic Year : 2018-19 Semester : I

**CLASS TEST EVALUATION RECORD**

Class: T.E.

Subject: Computer Networks

Roll No.	Name of the Student	Class Test - I (Out of 20)	Class Test - II (Out of 20)	Class Test - III (Out of 20)
TC001	ALHAT SIDDHARTH SANTOSH	15	07	18
TC002	BAGAL AMRUTA POPAT	14	13	14
TC003	BAGATE PRATIKSHA SHIVAJI	16	14	14
TC004	BHUBAL ESHWARI DHARMANDRA	11	10	13
TC005	EJAGAR SONALI SHIVAJI	ABS	ABS	ABS
TC006	GADERAO PRIYA SHIVAJI	15	13	13
TC007	GUDE ANGAD BABASAHEB	11	07	06
TC008	GUPTA SRISHTI ARUNKUMAR	13	13	16
TC009	MINAKSHI HARISHCHANDRA CHILME	16	11	18
TC010	OMPRAKASH RAJENDRA VARMA	8	07	10
TC011	PATIL VARSHA SHEKHAR	16	13	19
TC012	PAWAR SHUBHAM CHATING	11	06	14
TC013	RADHA UDHAVRAO YELIKAR	12	09	18
TC014	RANPISE SHUBHANGI ANIL	14	12	17
TC015	RAUT ANITA ANNA	13	13	13
TC016	RODGE VERSHA DADASAHEB	14	11	12
TC017	SHIRSAT SHUBHAM RAJKUMAR	12	09	08
TC018	THEURKAR SUCHITRA GORAKH	10	11	12
TC019	ANSARI FARHAN JAMEEL	10	06	12
TC020	BHARAMBE SHIVANI SUNIL	ABS	ABS	18
TC021	BHOJANE RUTIKA DATTATRAY	10	09	ABS
TC022	BIBHU KUMAR	ABS	ABS	11
TC023	BIRADAR AKSHAY MAHADEV	ABS	09	13
TC024	BOCHARE RAVIRAJ BALKRISHNA	13	09	ABS
TC025	CHOPADA YASHASHREE MANOJKUMA	ABS	ABS	ABS
TC026	CHOURHARY SUNNY RAJESH	ABS	ABS	ABS
TC027	CRASTO LAWRENCE JAMES	10	09	13
TC028	DALVI NISHANT RUPESH	9	12	ABS
TC029	DANAGE JANHAVI VINAYAK	ABS	ABS	14
TC030	DEEPTI PRASAD	ABS	ABS	12
TC031	DESALE PRASANNA RAJENDRA	ABS	ABS	ABS
TC032	DONGARE AJINKYA ASHOK	12	10	12
TC033	FENIL GAURANG MEHTA	10	08	16
TC034	GAIWAL RASIIKA VILAS	13	09	13
TC035	GANDHI ADITYA JITENDRA	12	05	13
TC036	GUPTA CHAITRA CHANNABASU	11	09	13
TC037	HULASI KHINVASARA	10	11	12
TC038	INGALE KETAN VILAS	11	ABS	10
TC039	JAYAN VINOD	10	02	10
TC040	KAMBLE KAPIL SHRIPATI	ABS	ABS	ABS
TC041	KHERATKAR NINAD SUBHASH	12	06	16
TC042	KUDALE OMKAR SURESH	10	06	12
TC043	KULKARNI AMIT VIJAY	ABS	ABS	11
Signature of Faculty				
<i>[Signature]</i>				
Signature of Academic Co-Ordinator				
<i>[Signature]</i>				
Signature of Head of Department				
<i>[Signature]</i>				

International Institute of Information Technology  
DEPARTMENT OF COMPUTER ENGINEERING  
Academic Year : 2018-19 Semester : I

CLASS TEST EVALUATION RECORD

Class: T.E.

Subject: Computer Networks

Roll No.	Name of the Student	Class Test - I	Class Test - II	Class Test - III
		(Out of 20)	(Out of 20)	(Out of 20)
TC044	KUMBHAR SHREYASH SHASHIKANT	9	07	12
TC045	MEHARIYA JAHANVI SANJAY	10	ABS	09
TC046	MORE SUPRIYA SUDHIR	11	ABS	13
TC047	NANDGAONKAR AMEYA YATIN	10	ABS	08
TC048	NERKAR NIKITA CHANDRAKANT	8	10	16
TC049	NIKAM PRATIK RAJENDRA	185	ABS	ABS
TC050	NIKHIL VIJAY YADAV	9	06	16
TC051	NILE ATHARVA SANJAY	13	07	13
TC052	ONKAR DNYANESHWAR KADLAG	13	07	ABS
TC053	PAI NIRANJAN BHASKAR	11	06	17
TC054	PATHAK ABOLI AVINASH	11	10	ABS
TC055	PATIL ASHWINKUMAR PRAVIN	8	08	12
TC056	PATIL PRITHVIRAJ SHASHIKANT	ABS	ABS	ABS
TC057	PRIYANKAN KUMAR	9	11	14
TC058	RAIPURE HRISHIKESH SANJAY	7	06	08
TC059	RAO ADITI RAGHAVENDRA	11	13	14
TC060	SAGAR KOUL	10	11	14
TC061	SHAIKH UMER ASIF	10	10	11
TC062	SHASHANK BHATNAGAR	8	ABS	ABS
TC063	SHEKADE ABHISHEK SANJAY	7	06	17
TC064	SHETAGE RUSHIKESH VILAS	10	07	11
TC065	SHETTIGAR RAKSHITHA SATISH	14	13	ABS
TC066	SHIVAM NILKANTH JAGTAP	11	08	11
TC067	SHRUTI SINHA	14	ABS	17
TC068	SINGH AJIT VIJAYKUMAR	8	06	05
TC069	STEMY TOMY	ABS	ABS	ABS
TC070	SULGUDLE AJINKYA KALYAN	ABS	09	14
TC071	SUSHMITA BHAVANI NOOKA	12	10	ABS
TC072	SWAMINATHAN PEARL JULIUS	ABS	10	18
TC073	TINWALA ALI SAHEEB SAFDAR HUSSA	17	11	12
TC074	UDIT SRIVASTAVA	9	03	10
TC075	VARMA SHUBHAM VIJAY	10	10	11
TC076	VISHAL CHAUHAN	7	ABS	ABS
TC077	AISHWARYA TIWARI	10	ABS	18
TC078	VILEAS DHIMAN	ABS	ABS	09
TC079	SHANTANU BUDDEKAR	11	04	11
TC080	SAURAV PALE	12	08	ABS
TC081	SHUDHANSHU KULKARNI	ABS	11	13
TC082	VRUSHABH MULIK	13	ABS	ABS
TC083	RETUJA MAHALE	ABS	10	17
TC084	RAMAN KHUSHWAH	ABS	04	ABS
TC085	MOHIT POKHAREKAR	15	11	15
TC086	MANJUSHREE SONIAMBLE	ABS	09	ABS
Signature of Faculty		TM	TM	TM
Signature of Academic Co-ordinator		TM	TM	TM
Signature of Head of Department		TM	TM	TM
TC087	AKSHAY BHOSALE	ABS	ABS	ABS

Chittaranjan Singh



**Hope Foundation's**  
**International Institute of Information Technology, Pune**  
**DEPARTMENT OF COMPUTER ENGINEERING**  
**Academic Year : 2018-19, Semester - I**

**SLOW AND ADVANCED LEARNER IDENTIFICATION**

Course Code : 310245

Course Name: Computer Networks

Name of Faculty: Ravindra P. Joshi  
 Class : TE (Comp)

Roll No.	Name of Student	Class Test I (Out of 25)		Overall % of Marks in Previous Exam (out of 100)	25% Weightage (on the Scale of 1-10)	Class Observation (on the Scale of 1-10)	25% Weightage	Total % Weightage (out of 100)
		50% Weightage	50% Weightage					
TC001	ALHAT SIDDHARTH SANTOSH	19	38	60.07	15	8	20	73
TC002	BAGAL AMRUTA POPAT	18	36	66.14	17	8	20	73
TC003	BAGATE PRATIKSHA SHIVAJI	20	40	73.45	18	9	23	81
TC004	BHUBAL ESHWARI DHARMANDRA	14	28	57.38	14	8	20	62
TC005	EJAGAR SONALI SHIVAJI	0	0	0	0	0	0	0
TC006	GADERAO PRIYA SHIVAJI	19	38	53.31	13	7	18	69
TC007	GUIDE ANGAD BABASAHEB	14	28	58.62	15	9	23	65
TC008	GUPITA SRISHTI ARUNKUMAR	16	32	59.38	15	6	15	62
TC009	MINAKSHI HARISHCHANDRA CHILME	20	40	63.52	16	8	20	76
TC010	OMPRakash RAJENDRA VARMA	10	20	68.34	17	9	23	60
TC011	PATIL VARSHA SHEKHAR	20	40	70.55	18	9	23	80
TC012	PAWAR SHUBHAM CHATING	14	28	60.34	15	8	20	63
TC013	RADHA UDHAVRAO YELIKAR	15	30	69.17	17	8	20	67
TC014	RANPISE SHUBHANGI ANIL	18	36	70.14	18	8	20	74
TC015	RAUT ANITA ANNA	16	32	63.72	16	8	20	68
TC016	RODGE VERSHA DADASAHEB	18	36	66.07	17	7	18	70
TC017	SHIRSAT SHUBHAM RAJKUMAR	15	30	68.28	17	6	15	62
TC018	THEURKAR SUCHITRA GORAKH	13	26	54.83	14	9	23	62
TC019	ANSARI FARHAN JAMEEL	13	26	68.00	17	7	18	61
TC020	BHARAMBE SHIVANI SUNIL	0	0	65.79	16	7	18	74
TC021	BHOJANE RUTIKA DATTATRAY	13	26	48.21	12	6	15	53
TC022	BIBHU KUMAR	0	0	47.66	12	0	0	12
TC023	BIRADAR AKSHAY MAHADEV	0	0	84.14	21	8	20	41
TC024	BOCHARE RAVIRAJ BALKRISHNA	16	32	72.14	18	8	20	70
TC025	MANOJ KUMAR	0	0	63.38	16	7	18	63
TC026	CHOURDHARY SUNNY RAJESH	0	0	51.03	13	0	0	13
TC027	CRASTO LAWRENCE JAMES	13	26	59.31	15	8	20	61
TC028	DALVI NISHANT RUPESH	11	22	73.31	18	6	15	55
TC029	DANAGE JANHAVI VINAYAK	0	0	54.28	14	7	18	31
TC030	DEEPTI PRASAD	0	0	76.62	19	6	15	34

Roll No.	Name of Student	Class Test I (Out of 25)	50% Weightage	Overall % of Marks in Previous Exam (out of 100)	25% Weightage	Observation (on the Scale of 1-10)	Class	25% Weightage	Total % Weightage (out of 100)
							Observation (on the Scale of 1-10)	25% Weightage	Total % Weightage (out of 100)
TC031	DESALE PRASANNA RAJENDRA	0	52.62	13	6	6	15	28	28
TC032	DONGARE AJINKYA ASHOK	15	30	62.69	16	7	18	63	63
TC033	FENIL GAURANG MEHTA	18	36	83.52	21	8	20	77	77
TC034	GAIWAL RASIKA VILAS	16	32	67.86	17	9	23	71	71
TC035	GANDHI ADITYA JITENDRA	15	30	69.72	17	8	20	67	67
TC036	GUPTA CHAITRA CHANNABASU	14	28	62.21	16	7	18	61	61
TC037	HULASI KHINVASARA	13	26	73.79	18	8	20	64	64
TC038	INGALE KETAN VILAS	14	28	67.31	17	6	15	60	60
TC039	JAYANT VNOD	13	26	72.07	18	5	13	57	57
TC040	KAMBLE KAPIL SHRIPATI	0	50.34	13	4	10	10	23	23
TC041	KHERATKAR NTNAD SUBHASH	11	22	62.00	16	5	13	50	50
TC042	KUDALE OMKAR SURESH	13	26	71.24	18	8	20	64	64
TC043	KULKARNI AMIT VUYAY	0	70.69	18	7	18	18	35	35
TC044	KUMBHAR SHREYASH SHASHIKANT	11	22	69.66	17	5	13	52	52
TC045	MEHARIYA JAHANVI SANJAY	13	26	71.31	18	8	20	64	64
TC046	MORE SUPRIYA SUDHIR	14	28	43.03	0	10	25	53	53
TC047	NANDGAONKAR AMEYA YATIN	13	26	47.03	12	9	23	60	60
TC048	NERLIKAR NIKITA CHANDRAKANT	10	20	72.83	18	9	23	61	61
TC049	NIKAM PRATIK RAJENDRA	0	43.03	11	0	0	0	11	11
TC050	NIKHIL VLAY YADAV	11	22	78.21	20	8	20	62	62
TC051	NILE ATHARVA SANJAY	16	32	60.34	15	8	20	67	67
TC052	ONKAR DNYANESHWAR KADLAG	16	32	61.31	15	10	25	72	72
TC053	PAJ NIRANJAN BHASKAR	14	28	69.79	17	9	23	68	68
TC054	PATHAK ABOLLA AVINASH	14	28	67.79	17	8	20	65	65
TC055	PATIL ASHWINKUMAR PRAVIN	10	20	64.62	16	9	23	59	59
TC056	PATIL PRITHVIRAJ SHASHIKANT	0	32.76	8	0	0	0	8	8
TC057	PRIYANKAN KUMAR	11	22	59.10	15	7	18	54	54
TC058	RAPURE HRUSHIKESH SANJAY	9	18	65.59	16	8	20	58	58
TC059	RAO ADITI RAGHAVENDRA	14	28	71.72	18	9	23	68	68
TC060	SAGAR KOUL	13	26	73.52	18	9	23	67	67
TC061	SHAIKH UMER ASIF	13	26	48.48	12	8	20	65	65
TC062	SHASHANK BHATNAGAR	10	20	67.79	17	8	20	57	57
TC063	SHEKADE ABHISHEK SANJAY	9	18	76.28	10	7	18	55	55
TC064	SHETTAGE RUSHIKESH VILAS	13	26	75.45	19	8	20	58	58
TC065	SHEETIGAR RAKSHITHA SATISH	18	36	82.76	21	10	25	82	82
TC066	SHIVAM NILKANTH JAGIAP	14	28	63.79	16	8	20	64	64
TC067	SHRUTI SINHA	18	36	70.48	18	10	25	79	79
TC068	SINGH AJIT VILAYKUMAR	10	20	68.21	17	6	15	52	52

**Hope Foundation's**  
**International Institute of Information Technology, Pune**  
**DEPARTMENT OF COMPUTER ENGINEERING**  
**Academic Year : 2018-19 Semester : I**

## **LIST OF SLOW LEARNERS**

Class: T.E.

**Subject:** Computer Networks

**Sign of Faculty:**

Roll No.	Name of Student	Class Test 1 (Out of 25)	50% Weightage	Overall % of Marks in Previous Exam (out of 100)	25% Weightage	Class Observation (on the Scale of 1-10)	25% Weightage	Total % Weightage (out of 100)
TC069	STEMY TOMY	0	51.66	13	1	3	3	15
TC070	SULGUDLE AJINKYA KALYAN	0	68.55	17	4	10	10	27
TC071	SUSHMITA BHAVANI NOOKA	15	67.72	17	9	22.5	22.5	69
TC072	SWAMINATHAN PEARL JULIUS	0	52.14	13	9.	22.5	22.5	36
TC073	HUSSAIN	21	42	81.79	20	10	25	87
TC074	UDIT SRIVASTAVA	11	22	71.45	18	8	20	60
TC075	VARMA SHUBHAM VILAY	13	26	74.28	19	7	17.5	62
TC076	VISHAL CHAUHAN	9	18	51.1	13	6	15	46
TC077	AISHWARYA TIWARI	13	26	44.53	11	5	12.5	50
TC078	VIKAS DHIRMAN	0	53.9	13	4	10	10	23
TC079	SHANTANU BUDDEKAR	14	28	40.13	10	6	15	53
TC080	SAURAV KALE	15	30	49.66	12	5	12.5	55
TC081	SUDHANSHU KULKARNI	0	64.87	16	6	15	15	31
TC082	VRUSHABH MULIK	16	32	61.5	15	6	15	62
TC083	RITUJA MAHALE	0	65.9	16	4	10	10	26
TC084	RAMAN KHUSHWAH	0	43.73	11	4	10	10	21
TC085	MOHIT POKHARKAR	19	38	57.73	14	6	15	67
TC086	MANJUSHREE SONKAMBLE	0	51.2	13	7	17.5	17.5	30

Prin  
Ravindra P. Joshi



**Hope Foundation's**  
**International Institute of Information technology, Pune**  
**DEPARTMENT OF COMPUTER ENGINEERING**  
**Academic Year : 2018-19, Semester - I**

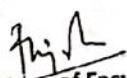
**SCHEDULE OF SLOW LEARNER ACTIVITIES**

**Class : TE**

**Course : Computer Networks**

**Name of Faculty: Ravindra P. Joshi**

<b>Lecture No.</b>	<b>Date</b>	<b>Time</b>	<b>Activity</b>	<b>Topic/Unit Covered</b>
1	07-09-2018	9:30-10:30 AM	Numerical practice	Solving numerical problems on flow control
2	08-09-2018	9:30-10:30 AM	Numerical practice	Solving numerical problems on Error control
3	14-09-2018	9:30-10:30 AM	Numerical practice	Solving numerical problems on IP addressing
4	21-09-2018	9:30-10:30 AM	Numerical practice	Solving numerical problems on subnets
5	22-09-2018	9:30-10:30 AM	Display of on-line videos	Discussion on difficult concepts
6	28-09-2018	9:30-10:30 AM	Discussion of past year University question papers	Solving questions of all units
7	05-10-2018	9:30-10:30 AM	Solving student queries	All question papers

  
Signature of Faculty



**Hope Foundation's**  
**International Institute of Information Technology, Pune**  
**DEPARTMENT OF COMPUTER ENGINEERING**  
Academic Year : 2018-19 Semester : I

## **ATTENDANCE RECORD OF SLOW LEARNERS**

Class: T.E.

**Subject:** Computer networks

Signature of Faculty Mr. J. S. M.

**Signature of Academic Co-ordinator**

**Signature of Head of Department**

**Hope Foundation's**  
**International Institute of Information Technology, Pune**  
**DEPARTMENT OF COMPUTER ENGINEERING**

Academic Year : 2018-19 Semester : I

## **PERFORMANCE IMPROVEMENT OF SLOW LEARNERS**



Innovation & Leadership  
[www.isquareit.edu.in](http://www.isquareit.edu.in)

P-14, Rajiv Gandhi Info Tech Park, Phase – 1,  
Hinjawadi, Pune – 411057, India

**Department of  
Computer Engineering**

**Academic Year 2018 – 2019  
(SEM-II)**

**Identification &  
Activities for Slow**



INTERNATIONAL  
INSTITUTE OF  
INFORMATION  
TECHNOLOGY  

---

Innovation & Leadership

P-14, Rajiv Gandhi Info Tech Park, Phase - 1,  
 Hinjawadi, Pune - 411057, India

**Department of  
Computer Engineering**

**Academic Year 2018 – 2019**

Class: SE

Semester: IV

**Subject: Advanced Data Structures**

**Identification &  
Activities for Slow  
Learners**



**SLOW AND ADVANCED LEARNER IDENTIFICATION**

Course Code : 210252		Class : SE						
Course Name: Advanced Data Structures		Name of Faculty: Shitole Ajitkumar Sureshrao						
Roll No.	Name of Student	Class Test I (Out of 20)	50% Weightage	Marks in Previous Exam (out of 100)	25% Weightage	Class Observation (on the Scale of 1-10)	25% Weightage	Total % Weightage (out of 100)
SC001	AASTHA SINHA	9	22.5	80	20	10	25	68
SC002	ABHISHEK BORHADIE	9	22.5	21	5	7	18	45
SC003	AGRAWAL NAKUL DIPAK	11	27.5	50	13	7	18	58
SC004	AGRAWAL SANIKA SHAILESH	10	25	67	17	7	18	59
SC005	AJAY RAJESH AGRAWAL	AB	0	77	19	8	20	39
SC006	AMAN GUPTA	0	0	25	6	5	13	19
SC007	ANCHARWADKAR MANDAR	2	5	45	11	7	18	34
SC008	ANUBHAV MATTOO	11	27.5	69	17	9	23	67
SC009	APoorva Ray Chaudhuri	3	7.5	37	9	6	15	32
SC010	ASHREESH BALOTRA	5	12.5	72	18	6	15	46
SC011	AYESHA MULLA	17	42.5	77	19	8	20	82
SC012	BAGUL NISHA BAPU	9	22.5	68	17	7	18	57
SC013	BELVATE PARTH ASHOK	5	12.5	75	19	8	20	51
SC014	BHOSALE MANASI MAHESH	10	25	69	17	8	20	62
SC015	CHORE SWAPNIL RAJARAM	13	32.5	75	19	9	23	71
SC016	DESAI SAURABH VIJAY	12	30	75	19	9	23	78
SC017	DHOOKRAT SIDDHANT PRAKASH	15	37.5	71	18	9	20	42
SC018	GAJARMAL PRANAV VISHWAS	4	10	59	15	7	18	51
SC019	GHODSE SWAPNIL ASHOK	7	17.5	62	16	7	18	74
SC020	HARI P NEEL SUYOG	AB	0	67	17	7.5	19	36
SC021	HATTAMBIRE SNEHAL ABHJEET	6	15	59	15	6	15	45
SC022	HIMANSHU NAKKANWAR	AB	0	47	12	5	13	24
SC024	JAGTAP SHRUSHTI SANTOSH	11	27.5	83	21	8	20	68
SC025	JOSHI MEGHANA VIVEK	15	37.5	80	20	10	25	83
SC027	KADAM AJIT SHESHRAO	13	32.5	35	9	9	23	64
SC028	KAUNCHAN KUMAWAT	7	17.5	45	11	7	18	46
SC029	KASIMMAHANTHI VINAY	0	0	3	1	6	15	16

Roll No.	Name of Student	Class Test I (Out of 20)	60% Weightage	Overall % of Marks in Previous Exam (out of 100)	28% Weightage	Overall % of Marks in Previous Exam (out of 100)	10% Weightage	Final % Weightage (out of 100)
SC030	KAVYA MANDALAMANGI	19	17.5	85	20	10	4.5	91
SC031	KAWADE ATHAVAA SUNDAY	10	25	27	7	3	2.0	52
SC032	KETAN KAGDA RAUT	NB	0	29	7	5	1.5	52
SC033	KHARE RITU KULDIP	8	20	70	18	9	3.0	60
SC034	KUMARSHAH AJAY ARUN	13	32.5	71	13	9	3.0	70
SC035	LOKHA GABRIEL ALIT	15	37.5	76	19	10	3.5	91
SC036	MOLGDBHA	14	35	54	14	10	3.5	74
SC037	MARSHDEE ISHA JAYANT	9	22.5	52	13	7	1.5	53
SC038	MEGH RITYA PREMSEKH	5	12.5	52	13	8	1.0	59
SC039	MEHG VASH BALWANT SINGH	7	17.5	57	14	7	1.5	57
SC040	PAATHAK ISHAAN LALITHMOHAN	AB	0	68	17	8	2.0	59
SC041	PATEEL GANDHI	8	20	76	19	8	2.0	78
SC042	PAN AP SUDHANSHU DATTATRAY	14	35	70	18	9	2.5	80
SC043	PHILLI MANISH RAJENDRAN	16	40	68	17	9	1.5	90
SC044	CHAITRA BHAT	18	45	80	20	10	2.5	90
SC045	RAHUL CHAKRA BORTY	2	5	66	17	6	1.5	57
SC046	RAJESH RAMESH	AB	0	77	19	7	1.5	77
SC047	RATHOD PRATIKSHA	AR	0	35	9	5	1.5	51
SC048	SAGHASKAR BHUDE SARVESH	7	17.5	62	16	7	1.5	59
SC049	SAGHASKAR BHUDE KRUSHNA AHARI	14	35	61	15	8	2.0	70
SC050	SANGITA NIHIL	14	35	61	15	8	2.0	70
SC051	SHARVARI RAVI GADWAN	8	20	76	19	9	2.0	63
SC052	SHINCH AMAN KUNDLIK	12	30	52	15	8	2.0	58
SC053	SHIVANI DE SHRMUKH	9	22.5	72	18	7	1.5	76
SC054	SHEVANTI DE SHRMUKH	0	0	45	11	6	1.5	51
SC055	SINGH SIDDHANT NAVIN KUMAR	12	30	59	15	8	2.0	65
SC056	SRI ANKITA ANKIT ANIL	12	30	74	19	9	2.0	71
SC057	THOMAS ALLEN JOHN	11	27.5	41	10	4	1.0	58
SC058	VASANT AMIT RAMESH	10	25	74	19	10	2.5	69
SC059	VIR RAMJIT BANERJEE	12	30	61	15	8	2.0	65
SC060	WAJID NIKAR ADITYA SUDDHIR	9	22.5	44	12	8	1.5	57
SC061	WISHTWARYA BIDKAR	AB	0	39	10	7	1.5	58
SC062	ZEKHIA JAGTAP	AB	0	9	2	6	1.5	57
SC063	ZEST ABKE SHANKY	18	45	81	20	10	2.5	90
SC064	AVANI PATEKAR	9	22.5	68	17	8	2.0	60
SC065	AKSHANSH KUMAR JAISWAL	AB	0	45	11	6	1.5	56
SC066	EKAHLI SHILDE	18	45	63	16	10	2.5	86
SC067	PULKAL AS AHER	8	20	68	17	4	1.0	70
SC068	PULKAL VINAY YADAV	0	0	46	12	4	1.0	52
SC069	SATYAKI SHIVAJI GARKAL	18	45	81	20	10	2.5	94
SC070	MAJLIK MADHUKAR MORE	AB	0	37	9	6	1.5	52
SC071	NEERAJ VIJAY GHORKE	17	42.5	68	17	9	2.0	71
SC072	SAIDH MUKHTAR SHAikh	10	25	0	9	2.0	48	
SC073	PREETI SHA NAANSAHEB TOLE	AB	0	79	20	9	2.0	72
SC074	PRERAK VINAY YADAV	7	17.5	62	16	7	1.5	51
SC075	SHUBHAM SANGITA PAUL	9	22.5	68	17	8	2.0	60
SC076	HARSHADA BABAN GAROLE	4	10	62	16	7	1.5	45
SC077	ANCHAL SANJAY PATHAK	AB	0	61	15	8	2.0	55
SC078	KUNAL GAJANAN SADANSHIV	16	40	40	10	7	1.5	68
SC079	JANISHO DATTAIRAY GE	13	32.5	60	15	9	2.5	70
SC080	SHUBHANGI RAVINDRA MISAL	13	32.5	60	15	9	2.5	70

Signature of Faculty



**Hope Foundation's  
INTERNATIONAL INSTITUTE OF INFORMATION TECHNOLOGY**

Department of Computer Engineering

Academic Year 2018-2019

Identification of Slow Learner

SEM:- IV      Subject: Advanced Data Structures

Class :- SE COMP

SEM:- IV

Subject: Advanced Data Structures

**List of Slow Learner**

Roll No.	Name of Student	Total % Weightage Based on Parameter (out of 100)
SC006	AMAN GUPTA	19
SC007	ANCHARWADKAR MANDAR MAHESH	34
SC009	APOORVA RAY CHAUDHURI	32
SC022	HIMANSHU NAKKANWAR	24
SC029	KASIMAHANTHI VINAY	16
SC032	KETAN KAGDA RAUT	22
SC047	RATHOD PRATIKSHA	21
SC055	SINGH SIDDHANT NAVIN KUMAR	26
SC062	SRADHAA JAGTAP	27
SC063	SONTAKKE SHANKY	17
SC067	RAHUL SHENDE	26
SC070	MAYURI MADHUKAR MORE	22
SC071	DEEPAK VIJAY GHODKE	24

*N A53hitte*  
Name and Signature of Subject Teacher



**Hope Foundation's**  
**International Institute of Information Technology, Pune**  
**DEPARTMENT OF COMPUTER ENGINEERING**  
**Academic Year : 2018-19 Semester : II**

## ATTENDANCE RECORD OF SLOW LEARNERS

Subject: ADS

Class: S.E.

**Signature of Faculty**

of of f of of

Signature of Academic Co-ordinator

$\leftarrow$  of  $n \geq 1$

Signature of Head of Department



# **PERFORMANCE IMPROVEMENT OF SLOW LEARNERS**

Class: S.E.

Subject: ADS

**Signature of Faculty**

g g v b t

**Signature of Academic Co-ordinator**

$\leftarrow \partial \rightarrow$   $\alpha_1 \alpha_2 \alpha_3 \alpha_4 \alpha_5 \alpha_6 \alpha_7 \alpha_8 \alpha_9 \alpha_{10} \alpha_{11} \alpha_{12} \alpha_{13} \alpha_{14} \alpha_{15} \alpha_{16} \alpha_{17} \alpha_{18} \alpha_{19} \alpha_{20}$

**Signature of Head of Department**

$\leftarrow$   $\beta_1$   $\rightarrow$   $\leftarrow$   $\beta_2$   $\rightarrow$