Srishyla Educational Trust (R), Bheemasamudra



GM INSTITUTE OF TECHNOLOGY, DAVANGERE

DEPARTMENT OF COMPUTER SCIENCE & ENGINEERING (Accredited by NBA, New Delhi valid till 30-06-2022)



FALCON Activities-Gallery 2019-20

Event Name: Hadoop installation and Fundamentals of Big data

Date: 13-03-2020

Event Coordinator: Mr. Rudresh N C, Asst. professor, Dept. of CSE



Inauguration of the workshop with the presence of principal, chief guest Dr. vinutha H P and HOD of the CSE





Mr. Rudresh N C, Asst. Professor dept. of CSE interaction with the student as a resource person in the session



Group photo at the end of the workshop with HOD of CSE and all staffs and participants

Event Name: workshop on java4Beginners

Date: 18.02.2020 and 19.02.2020

Event Coordinator: Dr. Mouneshachari S and Mr. Veerabhadrappa

Assoc. Professor Instructor
Dept. of CSE Dept. of CSE













Event Name: Aptitude Test

Date: 14-02-2020

Event Coordinator: All staff of CSE









Event Name: Test on C-Skills

Date: 14.02.2020

Event Coordinator: All staff of CSE









Event Name: Two day hands-on Python for Everyone and Everywhere

Date: 7-11-2019 and 8-11-2019

Event Coordinator: Dr. Mouneshachari S and Mr. Veerabhadrappa

Assoc. Professor Instructor
Dept. of CSE Dept. of CSE







Event Name: DBMS Case Study design using ER diagram

Date: 9-09-2019

Event Coordinator: Mr. Kotreshi S N

Asst. Professor, Dept. of CSE



Event Name: Explore the PC

Date: 4-08-2019

Event Coordinator: Mr. Maruthi S T

Asst. Professor, Dept. of CSE



Principal Dr. P Prakash and Vice Principal Dr. B R Sreedhar during the Inauguration of "Explore the PC program".



Mr.Maruthi S T Explaining about the importance of hardware parts with demo during the program conduction.



Mr.Shreeganesh, 6th sem, CSE sharing his knowledge on computer and its hardware parts to the students.



Mr.Ojus V Tudvekar, 6th sem, CSE explaining about the charts and procedure of hardware lab conduction during the program conduction.



Group Photo with students and Ms.Archana, faculty coordinator of RSGG PU college, Davanagere



Group Photo with students and Ms.Akshatha, faculty coordinator of DRM PU college, Harihar

Event Name: Role plays in data structure and its applications

Date: 04-09-2019

Event Coordinator: Mr. Santoshkumar M

Asst. professor, Dept. of CSE







Activity: Poster Presentation on Analog & Digital Electronics

Date: 20-09-2019

Event Coordinator: Mr. Arunkumar B T

Asst. Professor, Dept. of CSE











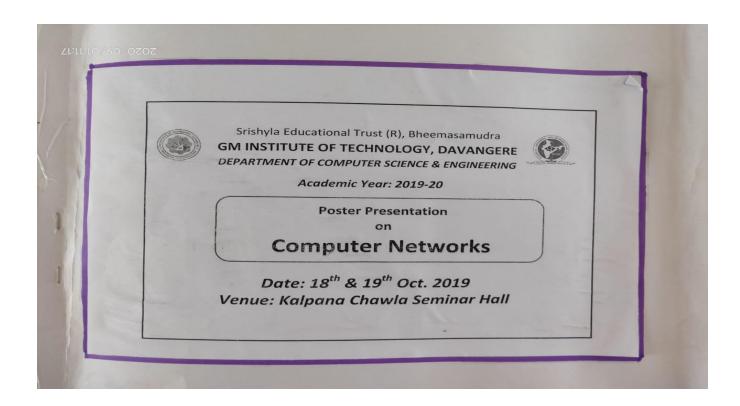


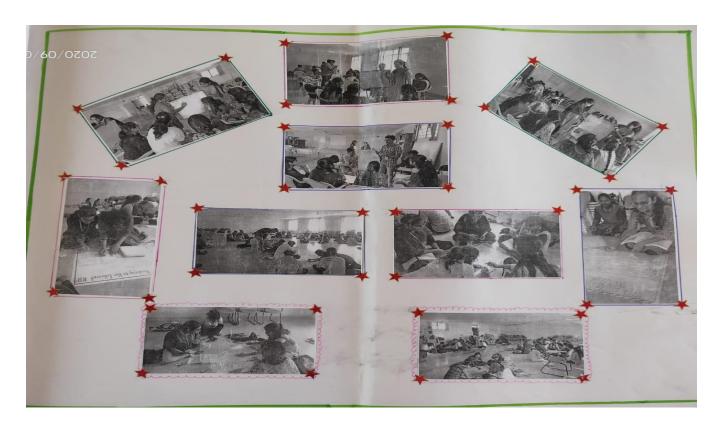
Placement Activity: Poster presentation on Computer Networks

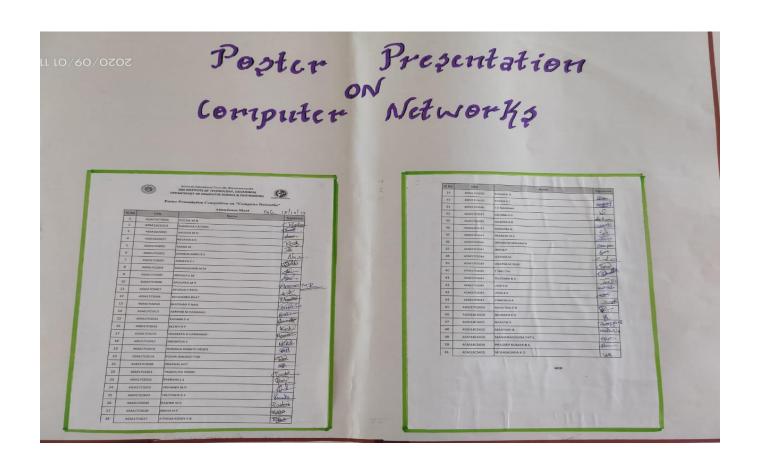
Date: 18-10-2019 and 19-10-2019

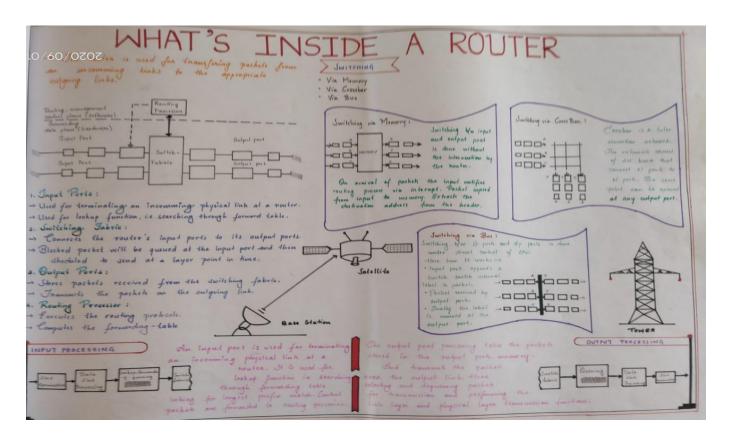
Event Coordinator: Dr. Mouneshachari S

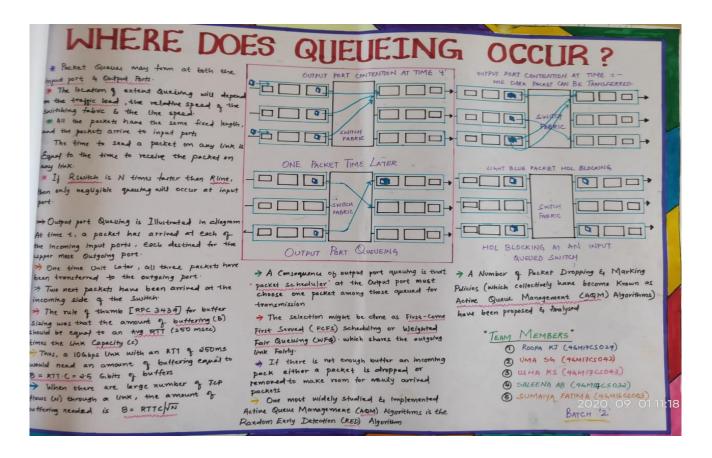
Assoc. Professor, Dept. of CSE

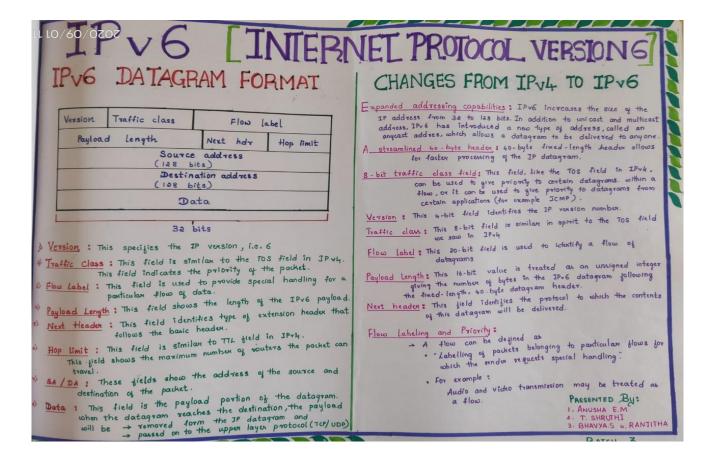












Intra-AS Routing in the Internet OSPF

posps in widely used for intra-As mouting in the copp (open shortest path first) deployed in upper-tier tope ospf is a link state protocal that uses · flooding of link - state information and · Dijkstra least cost path algorithm. Working :-1. A mouter constructs a complete topological map of the entire autonomous - system. 2. Then, the 910uter 91uns Dijkstra's algorithm to determine a shortest-path tree to all subnets. 3. Finally, the mouter broadcasts link state injo to all other routers in the autonomous - system. Specially, the nouter broadcasts link state information · periodically at least once every so minutes and · whenever there is a drange in a link's state. Eg: a change in upldown Status OLLO message can be used to check whether the But are operational. Touter can also obtain a neighboring puter's database of network - wide link state.

ADVANCED PEATURES :-

Simple Authentication
Same paramord is configured on each router
and it is not Secure. ble ospe wouters can be

exchanges blue osps youters can be authenticated. Osps packets blue mouters are not authenticated.

only trusted routers can participate within on AS with authentication.

- compute MDS hash on the - includes the resulting both value in packet and sends the packet.

Multiple Same cost paths when multiple paths to a dutination have same cost, copp allows multiple paths to be used.

Integrated Support for Unicast and Multicast Routing

Multicast Otof (Mosep) provides Simple extensions to otef to provide for multicast nouting. Moops warn . the existing osps link database and -adds a new type of link-state advertisement to the existing broadcast mechanism

Support for Hirrorchy within a Single Routing Domain

An autonomous - Ayatım can be configured hierarchically into creat.

In area, an area-border-router is nesponsible for routing packets outside the

- . Exactly one ospf area in the As is configured to be the backbone area.
- . The primary note of the backbone area is to route traffic between the other areas in the As.

B10

S.H. Nagesh <

Bhushan Nath

Sharath M.S.

10/5] her link - State (L-s) Routing Algorithm we present

is known as Dijkstra's Algorithm. plates Algorithm is iterative and has the sopally that after the kth iteration of the destination nodes, and the among the least at paths to all destination nodes, the key all have the key all h the will have the k smallest path costs.

p(v) : cost of the least-cost path from the source node to destination v p(v): previous node along the current least-cost path from the source to v. N' : subset of nodes .

INK STATE (LS) ALGORITHM FOR SOURCE NODE u:

N' = { u}

for all nodes v if v is a neighbor of u then D(v) - c(u,v)

else D(v) = 00

find w not in N' such that D(w) is a minimum path from the source.

update D(v) for each neighbor v of w and not _

D(v) = min (D(v), D(w) + c(w,v)) In now cost to v is either old cost to v or known least path cost to w plus cost from w to v */

As an example, lets consider the network in 18. and compute the least-cost paths from Abstract graph model of a computer network.

•In the initialization step, the currently known least-cost paths from u to its directly attached neighbors v, x and w are initialized to &, I and s respectively.

· In the first iteration, we look among those nodes not yet added to the set N' and find that node with the least-cost as of the end of the previous Iteration

In the second iteration, nodes v and y are found to have the least-cost paths (2), and we break the tie arbitrarily and add y to the set N' so that N' now contains u, x andy.

· When the LS algorithm terminates, we have, for each node, ets predecessor along the least-cost 0x.4.2 detet better path to

step	N'	D(v), p(v)	D(w), p(w)	D(y), p(y)	D(2), p(2)
0	u	2,4	5,u	00	Do
1	ux	2, u	4.x	2.×	700
2	uxy	2, u	3.4		4.4
3	uxyv		3,4		4.9
4	uxyvw				4.9
5	uxyvw	z			
	Table: Running the link-state algorithm on the				

Total number of nodes = n(n+1)/2 Worst case complexity = O(n2)



big: Least cost path and



Oscillations with conjection - sensitive routing

When the LS algorithm is next run, node y determines that the clockwise path to w has a cost of 1, while the counter clockwise path to w has a cost of ste. Hence y's least-cost path to w is now clockwise . Similarly, & determines that its new least-cost path to u is clockwise When the LS algorithm is run next, nodes x, y ad z. at detect a zero-cost path to w in the counter clockwise direction, and all route their traffic to the counter clockwise routes. The not time the LS algorithm is run *, & z all then route their traffic to the clockwise route