

To

The Principal,
Smt Radhabai Sarda Arts, Commerce &
Science College, Anjangaon Surji

Subject: Permission for conducting Add_on Course entitled "PC Hardware and Networking" for
the session 2018-2019

Hon'ble Sir,

With reference to the above subject, we kindly request you to grant us permission for
conducting the said course in the department of Computer Science. The duration of the course
will be 30 hours (2 hours X 15 working days). The syllabus of the course is enclosed herewith
this letter for your kind consideration. The course will be helpful to our students in view point of
their development towards hardware and networking engineer.

Date: 01/09/2018

Place: Anjangaon Surji


Head, Department of Computer sci,
H O D
Computer Science
Smt.R.S.College,Anjangaon

Enclosures:

1. Syllabus of Add-on Course

PC Hardware & Networking

Course Duration: 30 Hours

ALLOCATION OF TOTAL HOURS FOR EACH CHAPTER

Sr No	Chapter	Theory in Hours	Practical in Hours
1.	Introduction about computer	1	1
2.	Basic Networking concepts	2	2
3.	Introduction to various networking devices	2	2
4.	Inside the PC	2	2
5.	Network basic and configuration	3	3
6.	Introduction to servers and network security	5	5
Total - 30 Hours		15	15

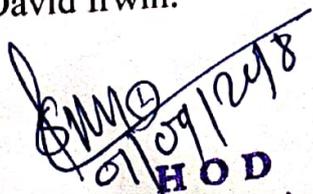
Jobs/Careers: Hardware engineer, Technical Support and Own business of Hardware and software installation.

Syllabus:

- Introduction about Computer:
 - Basics of computer
 - Organization of computer.
 - Software and hardware.
 - Input/output devices.
- Basic networking concepts:
 - Network topologies:
 - LAN, WAN, MAN, PAN, CAN.
 - Networking Model
 - The OSI model
 - TCP/ IP Model
 - Network adapters.
 - Introducing protocols.
 - Cabling and troubleshooting.
- Introduction to various networking devices:

- Routers.
 - Switches.
 - Modems.
 - Hubs etc.
 - Wired and Wireless technology.
- Inside the PC:
 - Opening the PC and identification.
 - Study of different blocks,
 - Assembling and disassembling.
- Network basic and configuration:
 - Setting IP addresses,
 - Sharing files and folders.
 - Network troubleshooting.
 - PING test, ipconfig etc.
- Introduction to servers and network security:
 - Types of servers:
 - Files servers,
 - Email Servers,
 - Proxy servers etc.
 - Basics of Internet and Intranet:
 - Types of Internet connections:
 - Dialup, Broadband, Leased Line, Wi-Fi, Wi-Max, 2G, 3G, 4G, WWW, E-mails, Search Engines, Social Networking.
 - Cloud application.
 - Audio-video Conferencing.
 - Recovery and backup.
 - Essential security measures.

- References:**
1. Introduction to computer by P.K. Sinha.
 2. Computer Hardware and Networking by Vishnu P Singh.
 3. CCNA Routing and Switching Complete Study Guide: by Todd Lammle.
 4. Introduction to Computer Networks and Cyber security by Chwan-Hwa Wu , J. David Irwin.


 07/09/2018
 HOD

Shri Sarda Education Society's
Smt. Radhabai Sarda Arts, Commerce and Science College

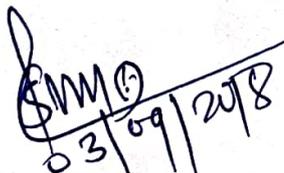
Anjangaon Surji

Department of Computer Science

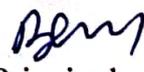
NOTICE

Date: 3rd September 2018

All the students of BSc-I, II are hereby informed that the Department of Computer science is going to start an *Add-on Course of PC Hardware and Networking* from 10th September to 28th September 2018. Students, who are interested to participate in the said course, can confirm their admission on or before 08 September 2018.


Head of Department
H O D

Computer Science
Smt.R.S.College,Anjangaon


Principal
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Smt. Radhabai Sarda College
of Arts. Commerce & Science
Anjangaon Surji

Smt Radhabai Sarda Arts, Commerce and Science College Anjagaon Surji

Department Of Computer Science

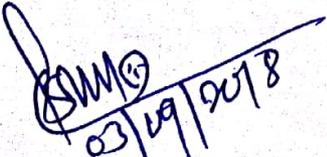
Add-on Course

PC Hardware and Networking

TIME TABLE

(2018-19)

SN	DATE	TIME	TOPIC
1	10 Sept 2018	10 AM to 11:30 AM	Inauguration
2	11 Sept 2018	09 AM to 11 AM	Chapter I
3	12-13 Sept 2018	09 AM to 11 AM	Chapter II
4	14-15 Sept 2018	09 AM to 11 AM	Chapter III
5	17-18 Sept 2018	09 AM to 11 AM	Chapter IV
6	19-21 Sept 2018	09 AM to 11 AM	Chapter V
7	22-27 Sept 2018	09 AM to 11 AM	Chapter VI
8	28 Sept 2018	09 AM to 11 AM	Exam


03/09/2018
H.O.D.
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Smt. Radhabai Sarda College
of Arts, Commerce & Science
Anjangaon Surji

Shri. Sarda Education Society's
Smt Radhabai Sarda Arts, Commerce & Science College, Anjangaon Surji

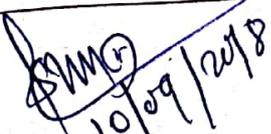
Department Of Computer Science

Session: 2018-19

List of Enrolled students for Add-on Course

“PC Hardware & Networking”

Sr. No.	NAME OF THE STUDENT	CLASS	ENROLL NO.	MOBILE
1	RUSHIKESH N. REKHATE	BSc I		9503900474
2	ANAND D. DHAGE	BSc I		7888220511
3	ABHIJIT R. KHADE	BSc I		7745075083
4	KU VISHAKHA S. PAYGHAN	BSc I	18114678	9545822116
5	KU DHANASHREE S. TEWARE	BSc I	18114665	9011197006
6	PRAJWAL S. WAGHAMARE	BSc I		9075982890
7	KU MANALI J. PATEL	BSc I	18114668	9011752063
8	KU SAMIKSHA A. PISOLKAR	BSc I	18114675	9011020790
9	GAJANAN D. RAUT	BSc I		9730824450
10	KU PRANAVI S. MANEKAR	BSc I	18114673	9511975704
11	KU GAURI S. CHENDKE	BSc I		9371247110
12	KU GAYATRI D. PATIL	BSc I	18114671	7721023216
13	HRUSHIKESH M. KALE	BSc I		8459072865
14	KU PAYAL M. JAROLE	BSc I		9960220489
15	KU KAJAL D. AFARE	BSc I		9922515825
16	KU RUTIKA S. THORAT	BSc I		9763332544
17	KU SANSKRUTI R. HATEKAR	BSc I	18114679	9503535056
18	AJINKYA V. CHIKATE	BSc I		9527439546
19	SAURABH S. GUJAR	BSc II		8459468955
20	KU MOHINI A. SHIRBHATE	BSc II		9860149483


Head of the Department
HOD
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Smt.R.S.College,Anjangaon


Principal
Smt. Radhabai Sarda College
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Anjangaon Surji

Shri Sarada Education Society's
Smt Radhabai Sarada Arts, Commerce & Science College, Anjangaon Surji

Department of Computer Science
Add-on Course on PC Hardware and Software

(Academic Session: 2018-19)

Date: 28/09/2018

Max Marks: 50

Time: 2:00 Hrs.

Instructions:

- (1) All questions are compulsory.
- (2) Answer each next main question on a new page.
- (3) Illustrate your answers with neat sketches wherever necessary.
- (4) Figures to the right indicate full marks.
- (5) Assume suitable data if necessary.
- (6) Use of Non-programmable Electronic Pocket Calculator is permissible.
- (7) Mobile Phone, Page and any other Electronic Communication devices are not permissible in examination hall.

1. (a) Attempt any TWO of following :

[12]

(i) Draw and explain working of laser printer.

(ii) State the function of:

(1) Hubs (2) Switches (3) Routers (4) Bridges

(iii) State four functions of BIOS.

(iv) Compare between offline and online UPS

(b) Attempt any ONE:

(i) Compare between OSI/TCP/IP reference models.

[6]

(ii) What is cache memory? Explain its different types with diagram

2. Attempt any THREE of the following:

[16]

(a) Explain working of flatbed scanner with block diagram.

(b) State two problems related to hard disk with their symptoms. State preventive maintenance measures for hard disk.

(d) Describe IP Address classes with suitable examples. W-16

(e) Compare between TCP and UDP. (4 points) S-17

3. Attempt any TWO of the following:

[16]

(a) Draw a neat sketch and describe the construction of CDROM.

(b) State the pin description of various pins in RS 232 serial interface.

(c) What is network topology? Explain various network topology used in computer network.

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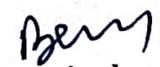
Department of Computer Science

Result of Add-on Course

PC Hardware and Networking

SN	NAME OF STUDENT	OUT OF 50	MARKS OBTAINED
1	RUSHIKESH N. REKHATE	50	45
2	ANAND D. DHAGE	50	42
3	ABHIJIT R. KHADE	50	44
4	KU VISHAKHA S. PAYGHAN	50	46
5	KU DHANASHREE S. TEWARE	50	45
6	PRAJWAL S. WAGHAMARE	50	44
7	KU MANALI J. PATEL	50	42
8	KU SAMIKSHA A. PISOLKAR	50	46
9	GAJANAN D. RAUT	50	40
10	KU PRANAVI S. MANEKAR	50	48
11	KU GAURI S. CHENDKE	50	40
12	KU GAYATRI D. PATIL	50	42
13	HRUSHIKESH M. KALE	50	44
14	KU PAYAL M. JAROLE	50	42
15	KU KAJAL D. AFARE	50	40
16	KU RUTIKA S. THORAT	50	40
17	KU SANSKRUTI R. HATEKAR	50	44
18	AJINKYA V. CHIKATE	50	40
19	SAURABH S. GUJAR	50	44
20	KU MOHINI A. SHIRBHATE	50	45


10/11/18
Head of the Department
HOD
Computer Science
Smt.R.S.College,Anjangaon


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Smt. Radhabai Sarada College
of Arts, Commerce & Science
Anjangaon Surji

SMT. RADHABAI SARDA ARTS, COMMERCE AND SCIENCE COLLEGE

ANJANGOAN SURJI, DIST. AMRAVATI

Certificate

This is to certify that _____ of _____
has successfully completed Add-on Course entitled "PC Hardware and
Networking" conducted by the Department of Computer Science from
10/09/2018 to 28/09/2018 at Smt. Radhabai Sarada Arts, Commerce & Science
College, Anjangoan Surji, Dist. Amravati.

Head of the Department
HOD
Computer Science
Smt.R.S.College,Anjangaon

Bemy
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Smt. Radhabai Sarada College
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Anjangaon Surji

Shri. Sarda Education Society's

Smt. Radhabai Sarda Arts, Commerce & Science College, Anjangaon Surji

Department Of Computer Science

Session: 2018-19

Summary Report & Course Outcome

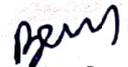
The department of Computer science had undertaken the Add-on course "PC Hardware & Networking" during the session 2018-2019. The course was of 30 hours duration in which 20 students had taken admission. All these students have completed the course successfully.

The outcome of this course is as follows:-

Students will able to:

- ◆ To make career as Hardware engineer.
- ◆ Explain the functions of Application layer and Presentation layer paradigms and Protocols.
- ◆ Describe the Session layer design issues and Transport layer services.
- ◆ Classify the routing protocols and analyze how to assign the IP addresses for the given network.
- ◆ Describe the functions of data link layer and explain the protocols.
- ◆ Explain the types of transmission media with real time applications
- ◆ Explain the basic concepts of wireless network and wireless generations.
- ◆ Demonstrate the different wireless technologies such as CDMA, GSM, GPRS etc.
- ◆ Appraise the importance of Adhoc networks such as MANET and VANET and Wireless Sensor networks.


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Shri Sarda Education Society's
(A Linguistic Minority Educational Institute)

Smt Radhabai Sarda Arts, Commerce & Science College
Anjangaon Surji, Dist Amravati - 444705

Application Form for Course Work

(Academic Session: 2018-2019)

Application Form No.: 000227

Applicant's Name: Abhijit Ramesh khade

Father's Name: Ramesh V. khade

Permanent Address: At. Post. Adgaon khade Tq.

Anjangaon Surji dist. Amravati



District: Amravati State: Maharashtra Pin Code: 444705

Email ID: abhijitkhade65@gmail.com

Phone No./Mobile No.:

7	7	4	5	0	7	5	0	8	3
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Gender: Male Female

Date of Birth: 28 / 09 / 2000

Aadhaar Card No.

6	0	9	7	5	4	8	7	3	3	2	0
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Name of the Department: computer science

Class: ASC-I Section: science

Course Applied For: Value Added/Certificate/Bridge Course/Add-on Program

Date of Admission in College: _____

ID Number: _____

Category: OPEN OBC SC ST NT VJ SBC

Languages Known: Marathi Hindi English

Title of the Course: "PC Hardware and Networking"

N.B.: I Certify that the information I have given in this application is complete and correct. I am aware that false information grounds for expulsion.

Abhijit Khade
Applicant's Signature

Smt Radhabai Sardar Arts, Commerce & Science College
Anjangaon Surji, Dist Amravati - 444705

Application Form for Course Work

(Academic Session: 2018-2019)

Application Form No.: 000228

Applicant's Name: Vishakha Shankar Rao Payghan

Father's Name: Shankar Rao P. Payghan

Permanent Address: Baegunpura Anjangaon
Surji



District: Amravati State: Maharashtra Pin Code: 444705

Email ID: Vishakha pay@gmail.com

Phone No./Mobile No.:

9	5	4	5	8	2	2	1	1	6
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Gender: Male Female

Date of Birth: 9 / 7 / 2000

Aadhaar Card No.

2	4	8	9	2	6	3	7	2	9	9	9
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Name of the Department: Computer Science

Class: BBC Ist C Section: Science

Course Applied For: Value Added/Certificate/Bridge Course/Add-on Program

Date of Admission in College: _____

ID Number: 5430

Category: OPEN OBC SC ST NT VJ SBC

Languages Known: Marathi Hindi English

Title of the Course: "PC Hardware and Networking"

N.B.: I Certify that the information I have given in this application is complete and correct. I am aware that false information grounds for expulsion.


Applicant's Signature

Shri Sarda Education Society's
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Smt Radhabai Sarda Arts, Commerce & Science College
Anjangaon Surji, Dist Amravati - 444705

Application Form for Course Work

(Academic Session: 2018-2019)

Application Form No.: 000234

Applicant's Name: KU. PRANAVI SANJAYRAO MANEKAR



Father's Name: Sanjay Nandevrao Manekar

Permanent Address: Gayatri Nagar Pathrol,

Tq. Achalpur Dist Amravati

District: Amravati State: Maharashtra Pin Code: 444808

Email ID: pranavimanekar10@gmail.com

Phone No./Mobile No.:

9	3	7	0	7	4	6	2	7	4
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Gender:

Male

Female

Date of Birth: 10/09/2000

Aadhaar Card No.

3	4	7	4	7	5	9	7	1	0	5	3
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Name of the Department: Computer Science

Class: Bsc^{1st} year Section: Science

Course Applied For: Value Added/Certificate/Bridge Course/Add-on Program

Date of Admission in College: 30/06/2018

ID Number: 5925

Category:

OPEN

OBC

SC

ST

NT

VJ

SBC

Languages Known: Marathi

Hindi

English

Title of the Course: PC Hardware and Networking

N.B.: I Certify that the information I have given in this application is complete and correct. I am aware that false information grounds for expulsion.

Applicant's Signature

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(A Linguistic Minority Educational Institute)
Smt Radhabai Sarda Arts, Commerce & Science College
Anjangaon Surji, Dist Amravati - 444705

Application Form for Course Work

(Academic Session: 2018-2019)

Application Form No.: 000239

Applicant's Name : KU. Kajal Dinesh Afare

Father's Name: Dinesh Vishvnath Afare

Permanent Address: Balaji Plot, Kathi Pura.

Anjangaon Surji



District: Amravati State: Maharashtra Pin Code: 444705

Email ID: Kajalafare193@gmail.com

Phone No./Mobile No.:

8	5	3	0	2	0	5	2	0	9
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Gender: Male Female

Date of Birth: 25/12/2000

Aadhaar Card No.

4	4	0	6	2	9	1	9	3	8	9	1
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Name of the Department: Computer science

Class: Bsc 1st year. Section: science T

Course Applied For: Value Added/Certificate/Bridge Course/Add-on Program

Date of Admission in College: 01/08/2018

ID Number: 6613

Category: OPEN OBC SC ST NT VJ SBC

Languages Known: Marathi Hindi English

Title of the Course: PC Hardware and Networking.

N.B.: I Certify that the information I have given in this application is complete and correct. I am aware that false information grounds for expulsion.

Bafare
Applicant's Signature

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Department of Computer Science
Add-on Course

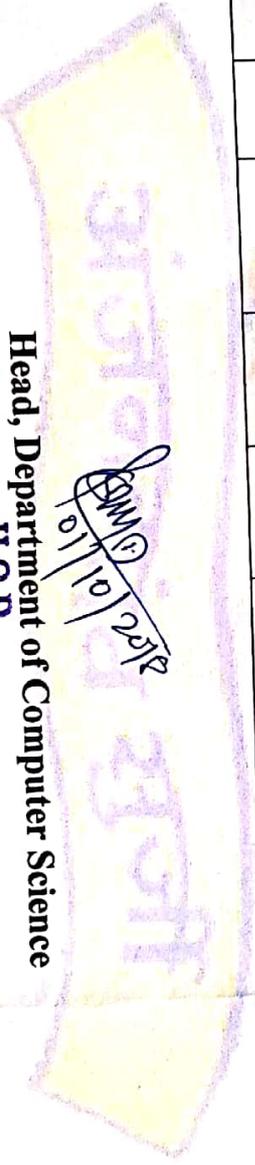
(Academic Session: 2018-2019)

Attendance Sheet

Title of the Course: PC Hardware & Networking

Sr. No	Name of participants	ID No.	Class	Theory/Practical											
				11/09/18	11/09/18	12/09	12/09	13/09	13/09	14/09	14/09	15/09	15/09		
1	RUSHIKESH N. REKHATE		BSCIT	Present	Present	Present	Present	Present	Present	Present	Present	Present	Present	Present	Present
2	ANAND DNYANESHWAR DHAGE		BSCIT	Present	Present	Present	Present	Present	Present	Present	Present	Present	Present	Present	Present
3	ABHIJIT RAMESH RADE		BSCIT	Present	Present	Present	Present	Present	Present	Present	Present	Present	Present	Present	Present
4	VISHAKHA S. PARGHIAN		BSC-I	Present	Present	Present	Present	Present	Present	Present	Present	Present	Present	Present	Present
5	DHANSHREE S. TEMARE		BSC-I	Present	Present	Present	Present	Present	Present	Present	Present	Present	Present	Present	Present
6	PRAVALLI S. WAGHMARE		BSCIT	Present	Present	Present	Present	Present	Present	Present	Present	Present	Present	Present	Present
7	MANALI J. PATEL		BSCIT	Present	Present	Present	Present	Present	Present	Present	Present	Present	Present	Present	Present
8	SANIKSHA A. PISOLKAR		BSC-I	Present	Present	Present	Present	Present	Present	Present	Present	Present	Present	Present	Present

9	GAJANAN D. RAUT	BSC-I	Personnel																	
10	PRANAVI S. MANEKAR	BSC-I	July																	
11	GAURI S. CHENDKE	BSC-I	Shole																	
12	GANPATRI D. PATIL	BSC-I	Speech																	
13	HRUSHIKESH M. KALE	BSC-I	Sh																	
14	PAYAL M. JAROLE	BSC-I	Topic																	
15	KAJAL D. AWARE	BSC-I	Practice																	
16	RUTIKA S. THORAT	BSC-I	Reference																	
17	SANSKRUTI R. HATKAR	BSC-I	Spoken																	
18	AJINKYA V. CHIKTE	BSC-I	Quick																	
19	SAURABH S. GUGAR.	BSC-II	Summary																	
20	MOHITAJ A. SHIRBHATE	B.S.C.II	Reference																	
21																				
22																				
23																				
24																				



Head, Department of Computer Science
H O D

Coordinator
Computer Science
Smt. R. S. College, Anjangaon

Principal

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Anjangaon Surji

Shri Sarda Education Society's
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Smt Radhabai Sarda Arts, Commerce & Science College, Anjangaon Surji

Department of Computer Science

Add-on Course

(Academic Session: 2018-2019)

Attendance Sheet

Title of the Course: PC Hardware & Networking

Sl. No.	Name of participants	ID No.	Class	(Theory / Practical)																	
				17/09		17/09		18/09		18/09		19/09		19/09		20/09		20/09		21/09	
1	RUSHIKESH N. REKHATE		BSC I	Prctk	Prctk	Prctk	Prctk	Prctk	Prctk	Prctk	Prctk	Prctk	Prctk	Prctk	Prctk	Prctk	Prctk	Prctk	Prctk	Prctk	Prctk
2	ANAND D. DHAGE		BSC I	Prctk	Prctk	Prctk	Prctk	Prctk	Prctk	Prctk	Prctk	Prctk	Prctk	Prctk	Prctk	Prctk	Prctk	Prctk	Prctk	Prctk	Prctk
3	ABHJIT. R. KHADE		BSC I	Prctk	Prctk	Prctk	Prctk	Prctk	Prctk	Prctk	Prctk	Prctk	Prctk	Prctk	Prctk	Prctk	Prctk	Prctk	Prctk	Prctk	Prctk
4	VISHAKHA S. PRYGHAN		BSc-I	Prctk	Prctk	Prctk	Prctk	Prctk	Prctk	Prctk	Prctk	Prctk	Prctk	Prctk	Prctk	Prctk	Prctk	Prctk	Prctk	Prctk	Prctk
5	DHANSHREE S. TEMWARE		BSc-I	Prctk	Prctk	Prctk	Prctk	Prctk	Prctk	Prctk	Prctk	Prctk	Prctk	Prctk	Prctk	Prctk	Prctk	Prctk	Prctk	Prctk	Prctk
6	PRAJWAL S. WAGHMARE		BSC I	Prctk	Prctk	Prctk	Prctk	Prctk	Prctk	Prctk	Prctk	Prctk	Prctk	Prctk	Prctk	Prctk	Prctk	Prctk	Prctk	Prctk	Prctk
7	MANALI J. PATEL		BSC I	Prctk	Prctk	Prctk	Prctk	Prctk	Prctk	Prctk	Prctk	Prctk	Prctk	Prctk	Prctk	Prctk	Prctk	Prctk	Prctk	Prctk	Prctk
8	SAMIKSHA A. PISOLKAR		BSC-I	Prctk	Prctk	Prctk	Prctk	Prctk	Prctk	Prctk	Prctk	Prctk	Prctk	Prctk	Prctk	Prctk	Prctk	Prctk	Prctk	Prctk	Prctk

Shri Sardar Education Society's
(A Linguistic Minority Institution)

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Department of Computer Science

Add-on Course

(Academic Session: 2018-2019)

Attendance Sheet

Title of the Course: PC Hardware & Networking

Sr. No	Name of participants	ID No.	Class	(Theory / Practical)									
				Signature (date-wise) SEP-2018									
1	RUSHIKESH N. REKHATE		BSCIT	22/09/18	22/09	24/09	24/09	25/09	25/09	26/09	26/09	27/09	27/09
2	ANAND D. DHAGE		BSCIT	Present	Present	Present	Present	Present	Present	Present	Present	Present	Present
3	ABHISIT. R. KHADE		BSCIT	Present	Present	Present	Present	Present	Present	Present	Present	Present	Present
4	VISHAKHA S. PARGHIAN		BSc-I	Present	Present	Present	Present	Present	Present	Present	Present	Present	Present
5	DHANSHREE S. TEWARI		BSC-I	Present	Present	Present	Present	Present	Present	Present	Present	Present	Present
6	PARWAL S. WAGHMARE		BSCIT	Present	Present	Present	Present	Present	Present	Present	Present	Present	Present
7	MANALI J. PATEL		BSC I	Present	Present	Present	Present	Present	Present	Present	Present	Present	Present
8	SAMIKSHA A. PISOLKAR		BSC I	Present	Present	Present	Present	Present	Present	Present	Present	Present	Present

9	GAJANAN D. RAUT		BSC-I	Prof.															
10	PRANVI S. MONEKAR		BSC-I	Prof.															
11	GAURI S. CHENDKE		BSC-I	Prof.															
12	GANPATRI D. PATIL		BSC-I	Prof.															
13	Hrushikesh M. Kale		BSC-I	Prof.															
14	PATIL M. JAROLE		BSC-I	Prof.															
15	KADAL D. NEARE		BSC-I	Prof.															
16	RUTIKA S. THORAT		BSC-I	Prof.															
17	GANSKRUT R. HATKAR		BSC-I	Prof.															
18	ATINIKYA V. CHITTE		BSC-I	Prof.															
19	SHUBRAH S. GUTAP.		BSC-I	Prof.															
20	MOHDND A. SHIRBHATE		B.S.C.II	Prof.															
21																			
22																			



Head, Department of Computer Science

Computer Science

Smt. R. S. College, Anjangaon

Principal

Principal

Smt. Radhabai Sarda College
of Arts, Commerce & Science
Anjangaon Surji