

Rayat Shikshan Sanstha's
Arts, Science & Commerce College, Ramanandnagar (Burli)
DEPARTMENT OF Computer Application

COURSE Name: Hardware Maintenance

2018-19

COMMITTEE

Sr. No.	Name	Designation
1.	Prof. Kshirsagar S.P.	Chairman
2.	Prof. Bhosale S.S.	Coordinator
3.	Prof. Mane B.S.	Member
4.	Arbune Pranoti P.	Member

Agenda:-

3. To organize Capsule Course entitles Hardware Maintenance.
4. To start self-finance course to placement opportunities.


Head of Dept.
Department of Computer Application
Arts, Science & Commerce College
Department of BCA College
Ramanandnagar (Burli)

Rayat Shikshan Sanstha's
Arts, Science & Commerce College, Ramanandnagar (Burli)
Department of Computer Application
COURSE Name: Hardware Maintenance
Notice

Date 27/12/2018

The faculty members of department kindly informed that departmental meeting will be held on 28/12/2018 at 11.30 am. In department staffroom, attend same.




Chairman

Agenda:-

6. Discussion on the Capsule Course From Oct.2018
7. To discuss on notice to student.
8. To take Discussion on intake capacity of course.
9. To prepare Thirty Days' time table.
10. Distribution of Syllabus.

Member:-

- Prof.Bhosale S.S.
- Prof.Mane B.S



Rayat Shikashan Sanstha's
Arts Science and Commerce College, Ramanandanagar (Burli)
Department of BCA
2018-19
NOTICE

Date: 25/12/2018

All the Students are here by informed that the Department of BCA is organized by short term course on "**Hardware Maintenance**" from **01/01/2019 to 31/01/2019**. All students should be present of this course.

Head

Principal

Arts Science and Commerce College, Ramanandanagar (Burli)



Rayat Shikshan Sanstha's

Arts, Science And Commerce College, Ramanandnagar(Burli)

Department of Computer Application

Course Name-Hardware Maintenance

Duration-30 hrs.

Syllabus

Unit 1: Introduction to Computer (05)

Introduction, Characteristics, History & Evolution, Organization of Computers, Concept of Hardware & Software, Applications of Computers in Various Fields,

Unit 2: Computer Hardware Parts (05)

Motherboard, Central Processing Unit (CPU), Random Access Memory (RAM), Power Supply, Video Card, Hard Drive (HDD) Solid-State Drive (SSD), Optical Drive (e.g. BD/DVD/CD drive)

Unit 3: Basic Hardware Components (10)

Input Devices – Keying: Keyboard, Touch screen, Pointing: Mouse, digitizer, Joystick and scanning devices: Scanner, OMR, OCR, and MICR.

Output Devices –

Monitors (CRT, TFT, LCD, Plasma), Screen Image Projector, Printers & its types,

Memory Devices - Primary Memory & its types (RAM, ROM), Secondary memory & its types (Hard Disk, Flash Drives, Magnetic Tape, Optical Discs- CD, DVD, Blue-Ray)

Practicals – (10)

- 1) Practical Based on Unit 1
- 2) Practical Based on Unit 2
- 3) Practical Based on Unit 3



Head of Department

Rayat Shikashan Sanstha's

Arts Science and Commerce College, Ramanandanagar(Burli)

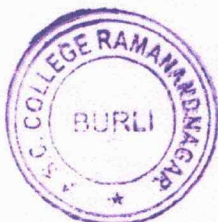
Department of BCA

Add On course on Hardware Maintenance

2018-19

Programme Outcome

- Students can develop valuable technical skills related to hardware maintenance, including diagnosing problems, performing repairs, and upgrading components.
- Knowledge and skills gained through hardware maintenance programs can prepare students for careers in IT support, computer repair, and other technology-related fields.
- Learning to maintain hardware gives students a sense of self-reliance and independence in managing their own computer systems, reducing the need for external support.
- being able to diagnose and repair hardware issues themselves, students can save money on professional repair services and avoid unnecessary replacements.
- Hardware maintenance requires students to think critically and analytically, identifying root causes of problems and determining the most effective solutions.



[Signature]
Head of Dept
Department of Computer Application
Arts, Science & Commerce College
Ramanandanagar (Burli)

Rayat Shikshan Sanstha's

Dr. Patangrao kadam Mahavidyalaya Ramanandnagar(Burli)

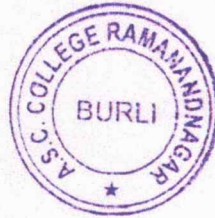
Department of BCA

Value Added Course 2018-19

Hardware Maintenance

Students List

Roll No	Name of Student	Signature
2351	Arbune Pranoti Prashant	<u>Arbune</u>
2352	Jamadar Suhel Dilawar	<u>Suhel</u>
2353	Jambhale Ankita Satish	<u>Jambhale</u>
2354	Khot Ranjit Dnyandeo	<u>Rhot.</u>
2355	Kumbhar Suraj Haribhau	<u>Khumbhar</u>
2356	Manugade Prajka Jalindar	<u>Manugade</u>
2357	Nalwade Shweta Rajendra	<u>Nalwade</u>
2358	Patil Aparna Shashikant	<u>Patil</u>
2359	Patil Pooja Jotiram	<u>P. J. Patil</u>
2360	Pawar Swarupa Sursh	<u>Pawar</u>
2361	Sawant-Patil Anushka Sadashiv	<u>Sawant</u>
2362	Sawat Sourabh Bhraat	<u>Sawat</u>



Rayat Shikshan Sanstha's
Arts, Science & Commerce College, Ramanandnagar (Burli)
Department of Computer Application
COURSE Name: Hardware Maintenance

Duration- 30 hrs.

Time Table

Date	Name of Faculty	Time(Theory)	Practical/Theory
01/01/2019	Prof.Kshirsagar S.P.	10.00 to 11.00	Theory
02/01/2019	Prof.Bhosale S.S	10.00 to 11.00	Theory
03/01/2019	Prof.Mane B.S	10.00 to 11.00	Theory
04/01/2019	Prof.Kshirsagar S.P.	10.00 to 11.00	Theory
05/01/2019	Prof.Bhosale S.S	10.00 to 11.00	Theory
07/01/2019	Prof.Mane B.S	10.00 to 11.00	Theory
08/01/2019	Prof.Kshirsagar S.P.	10.00 to 11.00	Practical
09/01/2019	Prof.Bhosale S.S	10.00 to 11.00	Practical
10/01/2019	Prof.Mane B.S	10.00 to 11.00	Practical
11/01/2019	Prof.Kshirsagar S.P.	10.00 to 11.00	Theory
12/01/2019	Prof.Bhosale S.S	10.00 to 11.00	Theory
15/01/2019	Prof.Mane B.S	10.00 to 11.00	Theory
16/01/2019	Prof.Kshirsagar S.P.	10.00 to 11.00	Theory
17/01/2019	Prof.Bhosale S.S	10.00 to 11.00	Theory
18/01/2019	Prof.Mane B.S	10.00 to 11.00	Theory
19/01/2019	Prof.Kshirsagar S.P.	10.00 to 11.00	Practical
21/01/2019	Prof.Bhosale S.S	10.00 to 11.00	Practical
22/01/2019	Prof.Mane B.S	10.00 to 11.00	Practical
23/01/2019	Prof.Kshirsagar S.P.	10.00 to 11.00	Practical
24/01/2019	Prof.Bhosale S.S	10.00 to 11.00	Practical
25/01/2019	Prof.Mane B.S	10.00 to 11.00	Practical
26/01/2019	Prof.Kshirsagar S.P.	10.00 to 11.00	Theory
28/01/2019	Prof.Bhosale S.S	10.00 to 11.00	Theory
29/01/2019	Prof.Mane B.S	10.00 to 11.00	Theory
30/01/2019	Prof.Kshirsagar S.P.	10.00 to 11.00	Theory
31/01/2019	Prof.Bhosale S.S	10.00 to 11.00	Theory



Prof. Kshirsagar S.P.
(Chairman)



Prof. Bhosale S.S.
(Coordinator)



Head of Dept.
Department of Computer Application
Prof. Borade N.S.
(Head of Department) College
Ramanandnagar (Burli)

Rayat Shikshan Sanstha's

Arts Science & Commerce College Ramanadnagar(Burli)

Student List-2018-2019

Course- Hardware Maintenance

Roll No	Gender	Name Of Student	Caste	Category
2351	Female	Arbune pranoti Prashant	H-Maratha	Open
2352	Male	Jamadar Suhel Dilawar	Muslim	
2353	Female	Jambhale Ankita Satish	H-Nhavi	OBC
2354	Male	Khot Ranjit Dnyandeo	H-Maratha	Open
2355	Male	Kumbhar Suraj Haribhau	H-Kumbhar	OBC
2356	Female	Manugade prajakta jalindar	H-Maratha	Open
2357	Female	Nalwade Shweta Rajendra	H-Maratha	Open
2358	Female	Patil Aparna Shashikant	H-Maratha	Open
2359	Female	Patil pooja jotiram	H-Maratha	Open
2360	Female	Pawar Swarupa Suresh	H-Maratha	Open
2361	Female	Sawant-Patil Anushka Sadashiv	H-Maratha	Open
2362	Male	Sawat Sourabh Bharat	H-Maratha	Open



Head of Dept.

Department of Computer Application
Head of Department
Ramanandnagar (Burli)

Rayat Shikshan Sanstha's
Arts, Science & Commerce College, Ramanandnagar (Burli)
Value Added Course 2018-19

COURSE Name: Hardware Maintenance

Time: 10.00 To 11.00

Roll No.	Name of Students	01/01/19	02/01/19	03/01/19	04/01/19	05/01/19	07/01/19	09/01/19	10/01/19	11/01/19
2351	Arbune pranoti Prashant	Arbune	Arbune	Arbune	Arbune	Arbune	Arbune	Arbune	Arbune	Arbune
2352	Jamadar Suhel Dilawar	Jamadar	Jamadar	Jamadar	Jamadar	Jamadar	Jamadar	Jamadar	Jamadar	Jamadar
2353	Jambhale Ankita Satish	Jambhale	Jambhale	Jambhale	Jambhale	Jambhale	Jambhale	Jambhale	Jambhale	Jambhale
2354	Khot Ranjit Dnyandeo	Khot	Khot	Khot	Khot	Khot	Khot	Khot	Khot	Khot
2355	Kumbhar Suraj Haribhau	Kumbhar	Kumbhar	Kumbhar	Kumbhar	Kumbhar	Kumbhar	Kumbhar	Kumbhar	Kumbhar
2356	Manugade prajakta Jalindar	Prajakta	Prajakta	Prajakta	Prajakta	Prajakta	Prajakta	Prajakta	Prajakta	Prajakta
2357	Nalwade Shweta Rajendra	Nalwade	Nalwade	Nalwade	Nalwade	Nalwade	Nalwade	Nalwade	Nalwade	Nalwade
2358	Patil Aparna Shashikant	Patil	Patil	Patil	Patil	Patil	Patil	Patil	Patil	Patil
2359	Patil pooja jotiram	Patil	Patil	Patil	Patil	Patil	Patil	Patil	Patil	Patil
2360	Pawar Swarupa Suresh	Pawar	Pawar	Pawar	Pawar	Pawar	Pawar	Pawar	Pawar	Pawar
2361	Sawant-Patil Anushka Sadashiv	Sawant	Sawant	Sawant	Sawant	Sawant	Sawant	Sawant	Sawant	Sawant
2362	Sawat Sourabh Bharat	Sawat	Sawat	Sawat	Sawat	Sawat	Sawat	Sawat	Sawat	Sawat


Head of Department
 Department of Computer Application
 Arts, Science & Commerce College
 Ramanandnagar (Burli)

Rayat Shikshan Sanstha's
Arts, Science & Commerce College, Ramanandnagar (Burli)
Value Added Course 2018-19

COURSE Name: Hardware Maintenance

Time: 10.00 To 11.00

Roll No.	Name of Students	12/01/19	15/01/19	16/01/19	17/01/19	18/01/19	19/01/19	21/01/19	22/01/19	23/01/19
2351	Arbune pranoti Prashant	Arbune	Arbune	Arbune	Arbune	Arbune	Arbune	Arbune	Arbune	Arbune
2352	Jamadar Suhel Dilawar	Jamadar	Jamadar	Jamadar	Jamadar	Jamadar	Jamadar	Jamadar	Jamadar	Jamadar
2353	Jambhale Ankita Satish	Jambhale	Jambhale	Jambhale	Jambhale	Jambhale	Jambhale	Jambhale	Jambhale	Jambhale
2354	Khot Ranjit Dnyandeo	Khot	Khot	Khot	Khot	Khot	Khot	Khot	Khot	Khot
2355	Kumbhar Suraj Haribhau	Kumbhar	Kumbhar	Kumbhar	Kumbhar	Kumbhar	Kumbhar	Kumbhar	Kumbhar	Kumbhar
2356	Manugade prajakta Jalindar	Prajakta	Prajakta	Prajakta	Prajakta	Prajakta	Prajakta	Prajakta	Prajakta	Prajakta
2357	Nalwade Shweta Rajendra	Nalwade	Nalwade	Nalwade	Nalwade	Nalwade	Nalwade	Nalwade	Nalwade	Nalwade
2358	Patil Aparna Shashikant	Patil	Patil	Patil	Patil	Patil	Patil	Patil	Patil	Patil
2359	Patil pooja jotiram	Patil	Patil	Patil	Patil	Patil	Patil	Patil	Patil	Patil
2360	Pawar Swarupa Suresh	Pawar	Pawar	Pawar	Pawar	Pawar	Pawar	Pawar	Pawar	Pawar
2361	Sawant-Patil Anushka Sadashiv	Sawant	Sawant	Sawant	Sawant	Sawant	Sawant	Sawant	Sawant	Sawant
2362	Sawat Sourabh Bharat	Sawat	Sawat	Sawat	Sawat	Sawat	Sawat	Sawat	Sawat	Sawat

(Signature)

Head of Department
 Department of Computer Application
 Arts, Science & Commerce College
 Ramanandnagar (Burli)

Rayat Shikshan Sanstha's
Arts, Science & Commerce College, Ramanandnagar (Burli)
Value Added Course 2018-19

COURSE Name: Hardware Maintenance

Time: 10.00 To 11.00

Roll No.	Name of Students	24/01/19	25/01/19	26/01/19	27/01/19	28/01/19	29/01/19	30/01/19	31/01/19
2351	Arbune pranoti Prashant	Arbune	Arbune	Arbune	Arbune	Arbune	Arbune	Arbune	Arbune
2352	Jamadar Suhel Dilawar	Jamadar	Jamadar	Jamadar	Jamadar	Jamadar	Jamadar	Jamadar	Jamadar
2353	Jambhale Ankita Satish	Jambhale	Jambhale	Jambhale	Jambhale	Jambhale	Jambhale	Jambhale	Jambhale
2354	Khot Ranjit Dnyandeo	Khot	Khot	Khot	Khot	Khot	Khot	Khot	Khot
2355	Kumbhar Suraj Haribhau	Kumbhar	Kumbhar	Kumbhar	Kumbhar	Kumbhar	Kumbhar	Kumbhar	Kumbhar
2356	Manugade prajakta Jalindar	Manugade	Manugade	Manugade	Manugade	Manugade	Manugade	Manugade	Manugade
2357	Nalwade Shweta Rajendra	Nalwade	Nalwade	Nalwade	Nalwade	Nalwade	Nalwade	Nalwade	Nalwade
2358	Patil Aparna Shashikant	Patil	Patil	Patil	Patil	Patil	Patil	Patil	Patil
2359	Patil pooja jotiram	Patil	Patil	Patil	Patil	Patil	Patil	Patil	Patil
2360	Pawar Swarupa Suresh	Pawar	Pawar	Pawar	Pawar	Pawar	Pawar	Pawar	Pawar
2361	Sawant-Patil Anushka Sadashiv	Sawant	Sawant	Sawant	Sawant	Sawant	Sawant	Sawant	Sawant
2362	Sawat Sourabh Bharat	Sawat	Sawat	Sawat	Sawat	Sawat	Sawat	Sawat	Sawat


 Head of Dept.
 Department of Hardware Maintenance
 Arts, Science & Commerce College
 Ramanandnagar (Burli)

Rayat Shikshan Sanstha's
Arts, Science & Commerce College, Ramanandnagar (Burli)
Value Added Course 2018-19

COURSE Name: Hardware Maintenance

Time: 10.00 To 11.00

Roll No.	Name of Students	01/02/19	02/02/19	03/02/19	04/02/19
2351	Arbune pranoti Prashant	Arbune	Arbune	Arbune	Arbune
2352	Jamadar Suhel Dilawar	Jamadar	Jamadar	Jamadar	Jamadar
2353	Jambhale Ankita Satish	Jambhale	Jambhale	Jambhale	Jambhale
2354	Khot Ranjit Dnyandeo	Khot	Khot	Khot	Khot
2355	Kumbhar Suraj Haribhau	Kumbhar	Kumbhar	Kumbhar	Kumbhar
2356	Manugade prajakta Jalindar	Prajakta	Prajakta	Prajakta	Prajakta
2357	Nalwade Shweta Rajendra	Nalwade	Nalwade	Nalwade	Nalwade
2358	Patil Aparna Shashikant	Patil	Patil	Patil	Patil
2359	Patil pooja jotiram	Patil	Patil	Patil	Patil
2360	Pawar Swarupa Suresh	Pawar	Pawar	Pawar	Pawar
2361	Sawant-Patil Anushka Sadashiv	Sawant	Sawant	Sawant	Sawant
2362	Sawat Sourabh Bharat	Sawat	Sawat	Sawat	Sawat

A. S. Sawant
Head of Dept.
Head of Department
Arts, Science & Commerce College
Ramanandnagar (Burli)

Rayat Shikshan Sanstha's
Arts, Science & Commerce College, Ramanandnagar (Burli)
Department of Computer Application
Course –Hardware Maintenance
Teacher Attendance

Date	Name of Faculty	Theory/Practical	Signature
01/01/2019	Prof.Kshirsagar S.P.	Theory	
02/01/2019	Prof. Bhosale S.S.	Theory	
03/01/2019	Prof. Mane B.S.	Theory	
04/01/2019	Prof.Kshirsagar S.P.	Theory	
05/01/2019	Prof. Bhosale S.S.	Theory	
07/01/2019	Prof. Mane B.S.	Theory	
08/01/2019	Prof.Kshirsagar S.P.	Practical	
09/01/2019	Prof. Bhosale S.S.	Practical	
10/01/2019	Prof. Mane B.S.	Practical	
11/01/2019	Prof.Kshirsagar S.P.	Theory	
12/01/2019	Prof. Bhosale S.S.	Theory	
15/01/2019	Prof. Mane B.S.	Theory	
16/01/2019	Prof.Kshirsagar S.P.	Theory	
17/01/2019	Prof. Bhosale S.S.	Theory	
18/01/2019	Prof. Mane B.S.	Theory	
19/01/2019	Prof.Kshirsagar S.P.	Practical	
21/01/2019	Prof. Bhosale S.S.	Practical	
22/01/2019	Prof. Mane B.S.	Practical	
23/01/2019	Prof.Kshirsagar S.P.	Practical	
24/01/2019	Prof. Bhosale S.S.	Practical	
25/01/2019	Prof. Mane B.S.	Practical	
26/01/2019	Prof.Kshirsagar S.P.	Theory	
28/01/2019	Prof. Bhosale S.S.	Theory	
29/01/2019	Prof. Mane B.S.	Theory	
30/01/2019	Prof.Kshirsagar S.P.	Theory	
31/01/2019	Prof. Bhosale S.S.	Theory	

Head of Dept.
 Department of Computer Application
 Arts, Science & Commerce College
 Ramanandnagar (Burli)

Arts, Science and Commerce College, Ramanandnagar(Burli)

Department of Computer Application

Course Name – Hardware Maintenance

Date - 30/01/2019

Name of the Student - Kumbhar Suraj Haribham

FEEDBACK FORM

1) What is your overall assessment of the course? (1 = insufficient - 5 = excellent)

1 2 3 4 5

2) Which topics or aspects of the course did you find most interesting or useful?

Computer Hardware parts
Basic Hardware Components

3) Knowledge and information gained from participation at this course?

Met your expectations Yes No Somehow

Will be useful / applicable in my work definitely mostly somehow Not at all

4) Comments or suggestions

very good course.

Arts, Science and Commerce College, Ramanandnagar(Burli)

Department of Computer Application

Course Name – Hardware Maintenance

Date - 30/02/2019

Name of the Student - Arbune Pranoti Prashant

FEEDBACK FORM

1) What is your overall assessment of the course? (1 = insufficient - 5 = excellent)

1 2 3 4 5

2) Which topics or aspects of the course did you find most interesting or useful?

All topics are interesting & very useful

3) Knowledge and information gained from participation at this course?

Met your expectations

Yes

No

Somehow

Will be useful / applicable in my work

definitely

mostly

somehow

Not at all

4) Comments or suggestions

Overall impact of course is good and useful in today's computer world.

RayatShikshanSanstha's
Arts, Science and Commerce College, Ramanandnagar (Burl)
Department of BCA

Capsule /Short Term / Value Added Course

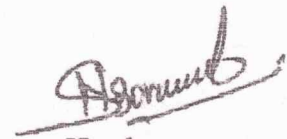
Action Report on Feedback

The BCA department was organized short Term/Capsule/Value Added Course in every year since 2015. The course duration was 30 days. The course aims to offer the best possible environment & learning experience to encourage students to their full potential & capability.

The feedback analysis process has put an increasing emphasis on the need for involvement of students in the course. After successful completion of each & every course we are taken feedback from students.

Following are the some feedbacks –

1. Students are quite satisfied with the time spent by teachers on practical session of the course.
- In response of feedback – Teachers are able to take more practical sessions. Keeping in mind the time- framework of practical session, teachers accordingly plan for the extra practical hours.
2. Majority of the students agreed that the courses which were organized by department are helpful in future and improved the knowledge of students in day- to- day life or daily life.
3. Students are satisfied with the overall assessment and topics or aspects of courses which are useful, applicable in their work and these courses are totally free of cost.



Head
Department of BCA



Department of BCA

Value Added Course – Hardware Maintenance

2018-19

Question Paper

Date: 5/3/2019 & Time: 11am to 12pm

1: BIOS stands for _____.

- A. Basic Input Output Service
- B. Basic Incoming Outgoing Service
- C. Basic Input Output System
- D. None of the above

2: The following will not be affected, when the virus enters your computer.

- A. System files
- B. Hard disk
- C. Boot sector
- D. SMPS

3: During _____ phase of the laser printing, a paper is positively charged in order to pull the toner from the print drum.

- A. conditioning
- B. developing
- C. transferring
- D. writing

4: RS-232 standard is applies to _____.

- A. serial port
- B. parallel port
- C. VGA port
- D. USB port

5: USB stands for

- A. Universal Serial Bus
- B. Universal Sequential Bus
- C. Uniform Serial Bus
- D. United Serial Bus

6: The output of SMPS is in the form of _____.

- A. AC
- B. DC
- C. Hertz
- D. None of the above



7: How many USB devices can be connected to the USB controller?

- A. 64
- B. 127
- C. 255
- D. 256

8: What is the most likely reason, when the laser printer generates a totally black page?

- A. No power to the primary corona
- B. No power to the transfer corona
- C. Low level in the toner cartridge
- D. None of the above

9: DDR 3 dual inline memory module (DIMM) has _____ pins.

- A. 10
- B. 256
- C. 172
- D. 240

10: _____ is not a type of motherboard expansion slot type.

- A. ATX
- B. ISA
- C. PCI
- D. EISA

11: _____ types of connector is used to connect the modem with the telephone line.

- A. RJ 45
- B. RJ 11
- C. COM 1
- D. None of the above

12: Which of the following device is generally assigned IRQ 1?

- A. Keyboard
- B. Real-time clock
- C. System timer
- D. Floppy drive

13: The term 10/100 in a NIC card refers to

- A. Mbps
- B. Meter
- C. Megabytes
- D. None of the above

14: SRAM is made up of _____

- A. Flip-flop circuits
- B. Capacitors.
- C. Inductors
- D. Vacuum tubes

15: What is the most likely solution for the date and time error, while you start the computer?

- A. Flash the BIOS
- B. Flash the CMOS
- C. Replace CMOS
- D. Replace the CMOS battery



Rayat Shikashan Sanstha's
Arts Science and Commerce College, Ramanandanagar(Burli)
Department of BCA
Course on Hardware Maintenance
2018-19
Mark sheet

Sr. No	Name of the Student	Marks
1.	Arbune Pranoti Prashant	24/30
2.	Jamadar Suhel Dilawar	28/30
3.	Jambhale Ankita Satish	22/30
4.	Khot Ranjit Dnyandeo	22/30
5.	Kumbhar Suraj Haribhau	28/30
6.	Manugade prajakta jalindar	24/30
7.	Ill Shweta Rajendra	28/30
8.	Patil Aparna Shashikant	24/30
9.	Patil pooja jotiram	22/30
10.	Pawar Swarupa Suresh	24/30
11.	Sawant-Patil Anushka Sadashi	28/30
12.	Sawat Sourabh Bharat	26/30



H. S. S. S.
Head of Dept.
Department of Computer Application
Arts, Science & Commerce College
Ramanandanagar (Burli)

Rayat Shikshan Sanstha's
Arts, Science, Commerce College, Ramanandnagar, (Burli)

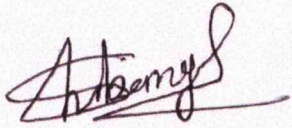
Department of BCA

Capsule/Value Added Course 2018-19

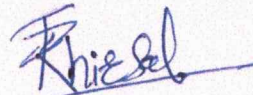
“Hardware Maintenance”

CERTIFICATE

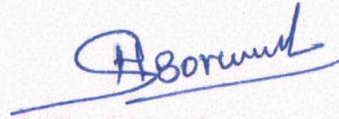
This is to certify that Shri. / Smt. Lad shruti Ranesh of Arts,
Science, Commerce College, Ramanandnagar(Burli) Participated Three Month's **Capsule/Value Added**
Course “Hardware Maintenance” “Organized by Department of BCA, From 01.01.2019 To 31.01.2019.



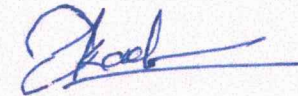
(Miss. Bhosale S. S.)
Co-ordinator



(Miss. Khirsagar S. P.)
Chairman



(Prof. Borade N.S.)
Head of Dept



Principal

A. S. C. College, Ramanandnagar(Burli)

