### 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 Compeller Application Airs, Départment roft BCA lege

Ramanandnagar (Burli)

## 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.

#### Agenda:-

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- 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)



#### 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

#### 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.

BURLI BURLI

Head of Department repartment of Computer Application was Science & Commerce College Ramanandnagar (Bura)

### 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	Parture
2352	Jamadar Suhel Dilawar	Que
2353	Jambhale Ankita Satish	table
2354	Khot Ranjit Dnyandeo	Rhot.
2355	Kumbhar Suraj Haribhau	Showbay.
2356	Manugade Prajkta Jalindar	elvey.
2357	Nalwade Shweta Rajendra	Bush.
2358	Patil Aparna Shashikant	Matil
2359	Patil Pooja Jotiram	P. J. Patil
2360	Pawar Swarupa Sursh	Sawar.
2361	Sawant-Patil Anushka Sadashiv	Sawan
2362	Sawat Sourabh Bhraat	luy



### 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 Department) ollege Ramanandnagar (Burli)

# 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 liege

Ramanandnagar (Burli)

# 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	@Porbuse		(PROHburn	BP.Orbune	@PArtem	P. Problem	<b>OPArbine</b>	@Porbus	@PArbone
2352	Jamadar Suhel Dilawar	Dans	JBS	Span	Javer	13000	Toes	Cons	TSPre	Sour
2353	Jambhale Ankita Satish	pdo'	Andr.	Speh	Blash	April	jed	-JAde	Adu	JAGh.
2354	Khot Ranjit Dnyandeo	Photo	Grahot	Petot	0	Rapol	Richard	(STA	akbo1	akhol.
2355	Kumbhar Suraj Haribhau	Skums	Skewson	Day	Stran	Ster	Josh	Sreva	Sken	Skurn
2356	Manugade prajakta Jalindar	Bajokla	Bajakta	Barjetha	Bojekto	Projekth	Bajotta	Porjokta	Projekta	Bojakta
2357	Nalwade Shweta Rajendra	Mulocalle	Nakos	Mylead	Malkow	Nelsel	Nalsol	Malcool	Nelkaere	Nakowa
2358	Patil Aparna Shashikant	RASIOS	PatilAs	PatilAs	Patila	BSIAS	Passins	Pables	PotilAs	PahlAs
2359	Patil pooja jotiram	Apoll	papuly	Produ	Rould	Roberty	Practo	Papul	Ripoly	Pepalot.
2360	Pawar Swarupa Suresh	Spivere	Spani	Spacer	Spacer	Spain	0.	1 1/1		Spawers
2361	Sawant-Patil Anushka	1	0		Q.	^				
-	Sadashiv	Lucan	Jew	J Beley	Jelen	Macon			Decem	- Hawa
2362	Sawat Sourabh Bharat	Dery	Spring	Bry	535V	SPR	SBL	Skily	SBS 39	Skoons

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

# Arts, Science & Commerce College, Ramanandnagar (Burli) Value Added Course 2018-19

**COURSE Name: Hardware Maintenance** 

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Time:	111	4 14 1	10	H H 4949	
H HARAWO	AVI	·VV	LU	T. H. O. O. O.	

Roll	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
No.									LIL SALL OF	
2351	Arbune pranoti Prashant	@Proboe	@pAnba				and the second second second	<b>Op</b> Parburn	Opportune	Po Arbumo
2352	Jamadar Suhel Dilawar	Togress	James	15 Dec	Tour	Bosies	JSP	Jove	Jeer	Devet
2353	Jambhale Ankita Satish	-jAde	TASh	josh	josh	jost,	-pAsh	josh	jesh	jAsh
2354	Khot Ranjit Dnyandeo	alphot	Rehol	Achol	Susper	Political	Pahol	Alpho	Okhol	alshot.
2355	Kumbhar Suraj Haribhau	Trains	John	Jus .	Skylon	gle cus	Hours	Howten	Hearing	Thomas
2356	Manugade prajakta Jalindar	Projekta	Banjkta	- Bojakta	Brojekto	Projekto	Bajakt	Bojkta	Bojakta	Bojakta
2357	Nalwade Shweta Rajendra	Valeud	Nahambe	Notean	Neiesch	Valeural	Naleselle	las lorg	Metrose	Nebook
2358	Patil Aparna Shashikant	Pables	Pakies	Pasies	BHAS	Pakles	Paklas	BHB	BKIBS	BKIAS
2359	Patil pooja jotiram	Apold	Ripolit	Ripudil	Rpdi	Roll	Boalil	Pipedil	Ripolit	Pipuli
2360	Pawar Swarupa Suresh	Spar	~	V	0.	Speed	4.	0		Space
2361	Sawant-Patil Anushka	Peaces	0	0	17	_				
	Sadashiv		Pours	1	,					Barount
2362	Sawat Sourabh Bharat	SBSunt	8Bm	SBOS	Skurg	Stran	Buy	Stag	Buy	SBSaff

Head of Department
Department of Computer Application
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Ramanandmagar (Burli)

# 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	DPPAL.	DOP robu		<b>Opportun</b>	Pp Portun		-	@ptsbine
2352	Jamadar Suhel Dilawar	Donne	Jack,	They	Stens	JS Wade	Done	JSum	Service
2353	Jambhale Ankita Satish	TASE	JASh	Ash	Josh	jAsh	JASh	JAsh	JASh
2354	Khot Ranjit Dnyandeo	Tokatol	Report	Report	akhot	alehot	akhol	Ashot	Pobot
2355	Kumbhar Suraj Haribhau	Hamen	Tromm	Kunber	Kamen	Stegundar	Skumbon	Rambon	-framor
2356	Manugade prajakta Jalindar	Banjakt	Prajakt	Pocijekte	Prajakt	Poojakk	Prajakto	Parjakt	Projekto
2357	Nalwade Shweta Rajendra	Naturale	Nahade	Nalexande	Nakowal	Naleboule	Nal Baule	Machan	Nouveland
2358	Patil Aparna Shashikant	Pables	Pables	BISIAS	RASIAS	Pables	Pables	Papps	Passes
2359	Patil pooja jotiram	Apolil	Pypolil	Papali	Pipoti	Spatil	Paper	Pepalil	Papolal
2360	Pawar Swarupa Suresh	Spar	-		10/1	4	1	2	
2361	Sawant-Patil Anushka Sadashiv	Pollon	Asaco	Asown		Adwar		Acause	Ascussod.
2362	Sawat Sourabh Bharat	S. Burn	SBSwm	Speny	835 mis	Spanne	Skung	Spragn	Brung

Head of Department,
Arres Sense & Commerce College
Rumanandnagar (Burli),

# Arts, Science & Commerce College, Ramanandnagar (Burli) Value Added Course 2018-19

#### COURSE Name: Hardware Maintenance

Roll No.	Name of Students	01/02/19	02/02/19	03/02/19	04102119
2351	Arbune pranoti Prashant	Open	DoBoh	Poplation	Derola
2352	Jamadar Suhel Dilawar	Dermo	J Con y	7000	Stern
2353	Jambhale Ankita Satish	TASC	JAsh	Ash	Josh
2354	Khot Ranjit Dnyandeo	gastel	Postot	alebot	alehel
2355	Kumbhar Suraj Haribhau	Many	THEMAN	Hunber	Trans
2356	Manugade prajakta Jalindar	Parjakt	Barakt	Projekt	Projekt
2357	Nalwade Shweta Rajendra	Najural &	Nahade	Nolemb	Makery
2358	Patil Aparna Shashikant	Pables	Palsies	RESIDE	Risias
2359	Patil pooja jotiram	Apolil	Papolil	god	Prod
2360	Pawar Swarupa Suresh	Spary	Speer		1 15.7 2 3
2361	Sawant-Patil Anushka Sadashiv	Burn	Asom	Asaway	Contract of the Parket of the
2362	Sawat Sourabh Bharat	SFUZ	Bows.	\$65°-4	St. Suit

Head of Department

Time: 10.00 To 11.00

#### 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	Riesay
02/01/2019	Prof. Bhosale S.S.	Theory	Cathard
03/01/2019	Prof. Mane B.S.	Theory	(P3)
04/01/2019	Prof.Kshirsagar S.P.	Theory	Rices
05/01/2019	Prof. Bhosale S.S.	Theory	And brong
07/01/2019	Prof. Mane B.S.	Theory	B
08/01/2019	Prof.Kshirsagar S.P.	Practical	History
09/01/2019	Prof. Bhosale S.S.	Practical	En Bours
10/01/2019	Prof. Mane B.S.	Practical	R
11/01/2019	Prof.Kshirsagar S.P.	Theory	J'Resay
12/01/2019	Prof. Bhosale S.S.	Theory	And done &
15/01/2019	Prof. Mane B.S.	Theory	B
16/01/2019	Prof.Kshirsagar S.P.	Theory	Fliesay
17/01/2019	Prof. Bhosale S.S.	Theory	Interest
18/01/2019	Prof. Mane B.S.	Theory	B
19/01/2019	Prof.Kshirsagar S.P.	Practical	Hieras
21/01/2019	Prof. Bhosale S.S.	Practical	Mary
22/01/2019	Prof. Mane B.S.	Practical	P
23/01/2019	Prof.Kshirsagar S.P.	Practical	Exhiberal
24/01/2019	Prof. Bhosale S.S.	Practical	(Lathaner)
25/01/2019	Prof. Mane B.S.	Practical	B
26/01/2019	Prof.Kshirsagar S.P.	Theory	Rivelan
28/01/2019	Prof. Bhosale S.S.	Theory	Ant Daine (
29/01/2019	Prof. Mane B.S.	Theory	B
30/01/2019	Prof.Kshirsagar S.P.	Theory	Riela
31/01/2019	Prof. Bhosale S.S.	Theory	Andrew

Head of Dept.

Department of Computer Application

Arts, Schame & Commerce College
Ramanananagar (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 Syraj Haribhay

What is your overall assessment (	of the course? (1 = insufficient - 5 = excellent)
	2 3 4 5
	ourse did you find most interesting or useful?
Computer	Hardware Parts ardware Components
Basic Ho	ardware Components
3) Knowledge and information gaine	ed from participation at this course?
3) Knowledge and information gaine	
	ed from participation at this course?  Yes No Somehow
Met your expectations	Yes No Somehow
Met your expectations	Yes No Somehow
Met your expectations  Will be useful / applicable in my worl	Yes No Somehow
Met your expectations  Will be useful / applicable in my work  4) Comments or suggestions	Yes No Somehow  rk definitely mostly somehow Not at all
Met your expectations  Will be useful / applicable in my work  4) Comments or suggestions	Yes No Somehow
Met your expectations  Will be useful / applicable in my work  4) Comments or suggestions	Yes No Somehow  rk definitely mostly somehow Not at all
Met your expectations  Will be useful / applicable in my work  4) Comments or suggestions	Yes No Somehow  rk definitely mostly somehow Not at all

# 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

) What is your o		2	3	4	5 1	1
		2	3	4	9 [	1
Which topics	or aspects of th	e course did you	find most int	eresting or us	eful?	
	AII	topics	are	interest	ing &	
		topics	wer	N	J	
		J		*		
Knowledge and	d information g	ained from partic	ipation at thi	s course?		
Knowledge and	d information g	ained from partic	ipation at thi	s course?		
		ained from partic	ipation at thi		Somehow	
		ained from partic	~		Somehow	
et your expecta	tions		Yes	No		Not at all
) Knowledge and let your expecta	tions		Yes		Somehow	Not at all
et your expecta	tions		Yes	No		Not at all
let your expecta /ill be useful / ar	oplicable in my		Yes	No		Not at all
let your expecta	oplicable in my	work	Yes definitely r	No	somehow	
et your expecta fill be useful / ap	oplicable in my suggestions	work U impo	Yes definitely r	No nostly	somehow SC is	9000
let your expecta /ill be useful / ar	oplicable in my suggestions	work	Yes definitely r	No mostly	somehow SC is	9000

# RayatShikshanSanstha's Arts, Science and Commerce College, Ramanandnagar (Burli) 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 -

- 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.
- 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.

Agoruno Head

Department of BCA



B. DCC. Hertz

D. None of the above

#### Arts Science & Commerce College Ramanandnagar(Burli)



#### Department of BCA

Value Added Course - Hardware Maintenance

#### 2018-19

**Question Paper** 

1: BIOS stands for	
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 y	our computer.
A. System files	
B. Hard disk	
C. Boot sector	
D. SMPS	
3: During phase of the laser printing, a paper is toner from the print drum.	positively charged in order to pull the
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	FOED
D. United Serial Bus	Street
6: The output of SMPS is in the form of	O'S AND
A. AC	

A.	64
B.	127
C.	255
D.	256
8:	What is the most likely reason, when the laser printer generates a totally black page?
	No power to the primary corona
	No power to the transfer corona
	Low level in the toner cartridge
D.	None of the above
9:	DDR 3 dual inline memory module (DIMM) has pins.
A.	B. 256 C. 172 D.240 10
10.	is not a type of motherboard expansion slot type.
A.	ATX B. ISA C. PCI D. EISA
11	1: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	2: Which of the following device is generally assigned IRQ 1?
A.	Keyboard
	Real-time clock
C.	System timer
D.	Floppy drive
13	3: The term 10/100 in a NIC card refers to
Α.	Mbps
	Meter
	Megabytes
	None of the above
14	4: SRAM is made up of
Α.	Flip-flop circuits
	Capacitors.
	Inductors
D.	Vacuum tubes
15	5: What is the most likely solution for the date and time error, while you start the computer?
Α	Flash the BIOS
	Florb the CMOS
	Replace CMOS  Replace CMOS
	Replace the CMOS battery
FIFE	The state of the s

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

# 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.	III Shweta Rajendra	28/30
8. 9.	Patil Aparna Shashikant	24/30
	Patil pooja jotiram	22/30
10.	Pawar Swarupa Suresh	24/30
11.	Sawant-Patil Anushka Sadashi	28/30
12.	Sawat Sourabh Bharat	26/30



Head of Department
Penariment of Computer Application
Arts Science & Conscience College
Ramanandnagar (Burn)

## 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 Shrufi 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)

