

K. J. Somaiya College of Arts, Commerce & Science, Kopargaon

Mohiniraj Nagar, Kopargaon, Tal: Kopargaon, Dist: Ahmednagar Pin-423601

Certificate Course in Computer Hardware & Networking

↓ Course Code: CC.018

↓ Organized By: Department of Computer Sci

→ Date of Commencement: 01/07/2016.

↓ Duration of Course: 01 Month / (Min. 30 Hrs.)

↓ Course Coordinator: **Prof. R. R. Kolapkar**

K. J. SOMAIYA COLLEGE, KOPARGAON DEPARTMENT OF COMPUTER SCIENCE

(Estd. - UG-2010, PG-2016)

FILE NO. 11

DETAILS OF CERTIFICATE COURSE RUN BY DEPARTMENT INDEX

CC-918

Sr. No.	Particulars				
1.	Permission Letter From S.P.University				
2.	Objective of Course				
3.	Permission Letter From IQAC				
4.	Notice to Students				
5.	Syllabus				
6.	Students List				
7.	Time Table				
8.	Attendance Reports				
9.	Question Paper				
10.	Marks List				
11.	Action Taken Report				
12.	Certificate ECTED BY IQAC				

HOD
Dept of Computer Science
K.J.Somaiya College, Kopargaon

Sign. Manage Date - 03/07/12023 ACCEPTED/REJECTED

J. Somary Science, Kopargaon

सावित्रीबाई फुले पुणे विद्यापीठ

(पूर्वीचे पुणे विद्यापीठ)

दूरध्वनी क्रमांक : 020-2449233 २५६०१२५८ २५६०१२५९



शैक्षणिक विभाग

गणेशखिंड, पुणे-४११ ००७

टेलिग्राफ : 'युनिपुणे' फॅक्स : ०२०-२५६९८००७

दिनांक : १० / ०९/२०१६

वेबसाइट : www.unipune.ac.in

इ-मेल

: dyracademic@unipunc.ac.in

संदर्भ क्र. : सीए/३४०६

प्रति.

मा.प्राचार्य,

के.जे.सोमय्या कला वाणिज्य व विज्ञान महाविद्यालय,

कोपरगाव जि.अहमदनगर

विषय : शैक्षणिक वर्ष २०१६-१७ या एका वर्षाकरिता नवीन अभ्यासक्रम सुरू

करण्यास परवानगी देण्याबाबत.

संदर्भ : १)शासन निर्णय— एनजीसी २०१६/ (१०२/१६)/मशि—४ दि. ०४/०७/२०१६

महोदय.

वरील विषयास व संदर्भीय पत्रास आघिन राहून आपणास कळविण्यात येते की, आपल्या महाविद्यालयास शैक्षणिक वर्ष २०१६—१७ या एका वर्षाकरिता खालील अभ्यासक्रम नव्याने सुरू करण्यास संस्थेने भविष्यात अनुदानाची किंवा आर्थिक मदतीची मागणी करणार नाही, अशा आशयाचे हमीपत्र मा. संहसंचालक, पुणे विभाग, पुणे यांना सादर करण्याच्या अटीवर कायम विना अनुदानित तत्त्वावर व महाराष्ट्र विद्यापीठ कायदा १९९४ कलम ८१ मधील तरतुदींच्या अधिन राहून त्याचप्रमाणे अहवालातील अटी व शर्तीची पूर्तता पत्र निर्गमित झाल्यापासून तीन महिन्यांच्या आत पूर्ण करण्याच्या अटीवर परवानगी देण्यात येत आहे

अ.क.	अभ्यासक्रम	संलग्नीकरणाचा प्रकार
	नवीन विषय/अभ्यासक्रम एम.एस्सी.—कॉम्प्युटर सायन्स (प्रवेश क्षमता ३०) एम.ए./एम.एस्सी.— जियोग्राफी एम.कॉम. बिझनेस ऑडिमिनीस्ट्रेशन .(प्रत्येकी प्रवेश क्षमता ६०), सर्टिफिकेट कोर्स इन मशरूम कल्टिवेशन, सर्टिफिकेट कोर्स इन कॉम्प्युटर हार्डवेर ऑण्ड नेटवर्क व सर्टिफिकेट कोर्स इन अवेअरनेस ऑफ हेल्थ ऑण्ड एन्वाइरन्मेंटल .(प्रत्येकी प्रवेश क्षमता ६०)	नव्याने

: अहवाल

आपला,

(शैक्षणिक विभाग)

वि.प.उपसमिती दि.०९/०८/२०१६

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प्रत माहितीसाठी :

- १) मा. सचिव, उच्च व तंत्र शिक्षण महाराष्ट्र शासन, मंत्रालय विस्तार भवन, मुंबई—४०००३२.
- २) मा. सहसचिव, उच्च व तंत्र शिक्षण महाराष्ट्र शासन, मंत्रालय विस्तार भवन, मुंबई—४०००३२.
- ३) मा. संचालक, (उच्च शिक्षण), महाराष्ट्र शासन शिक्षण संचालनालय, मध्यवर्ती इमारत, पुणे—४११००१.
- ४) मा. सहसंचालक, (उच्च शिक्षण अनुदान), पुणे विभागीय कार्यालय, १७, डॉ. आंबेडकर मार्ग, सेंट मॅथ्यू मराठी चर्चच्या बाजूस, लाल देवळासमोर, पहिला मजला, पुणे—४११००१.
- प्) मा. परीक्षा नियंत्रक, परीक्षा विभाग, सावित्रीबाई फुले पुणे विद्यापीठ, पुणे—४११००७.
- ६) मा. वित्त व लेखा अधिकारी, सावित्रीबाई फुले पुणे विद्यापीठ, पुणे—४११००७
- 9) मा. उपकुलसचिव, शैक्षणिक प्रवेश विभाग, सावित्रीबाई फुले पुणे विद्यापीठ, पुणे—४११००७
- ८.९) मा. उपकुलसचिव, परीक्षा विभाग १,२ सावित्रीबाई फुले पुणे विद्यापीठ, पुणे—४११००७
- १०) मा. सहा. कुलसचिव, शैक्षणिक पात्रता, सावित्रीबाई फुले पुणे विद्यापीठ, पुणे—४११००७
- ११) मा. सहा कुलसचिव, परीक्षा विभाग, बी.ए., बी.कॉम., बी.एस्सी., सावित्रीबाई फुले पुणे विद्यापीठ, पुणे—४११००७.
- १२) मा. सहा कुलसचिव, नियोजन व विकास विभाग, सावित्रीबाई फुले पुणे विद्यापीठ, पुणे—४११००७
- १३) कक्षाधिकारी, डाटा प्रोसेसिंग युनिट, सावित्रीबाई फुले पुणे विद्यापीठ, पुणे—४११००७
- १४) कक्षाधिकारी, परीक्षा समन्वय विभाग, सावित्रीबाई फुले पुणे विद्यापीठ, पुणे—४११००७१५) कक्षाधिकारी, सभा व दफ्तर विभाग, सावित्रीबाई फुले पुणे विद्यापीठ, पुणे—४११००७ १६) सांख्यिकी विभाग, महाविद्यालय व विद्यापीठ विकास विभाग, सावित्रीबाई फुले पुणे विद्यापीठ,
- पुणे-४११००७

Students enrolled in Certificate /Add-on/ Value added programs

Academic Year: 2022-23

Sr.No.	Department	Name of Certificate Course	Course code	Duration	Number of students enrolled	Number of students completed course
1	Computer Science	Computer Hardware &Network	CC.918	36 Hours	89	89

Academic Year: 2021-22

6

13

Sr.No.	Department	Name of Certificate Course	Course code	Duration	Number of students enrolled	Number of students completed course
1 .	Computer Science	Computer Hardware &Network	CC.918	36 Hours	83	83

Academic Year: 2020-21

Sr.No.	Department	Name of Certificate Course	Course code	Duration	Number of students enrolled	Number of students completed course
1	Computer Science	Computer Hardware &Network	CC.918	36 Hours	32	32

Academic Year: 2019-20

Sr.No.	Department	Name of Certificate Course	Course code	Duration	Number of students enrolled	Number of students completed course
1	Computer Science	Computer Hardware &Network	CC.918	36 Hours	30	30

Academic Year: 2018-19

Sr.No.	Department	Name of Certificate Course	Course code	Duration	Number of students enrolled	Number of students completed course
1	Computer Science	Computer Hardware &Network	CC.918	36 Hours	30	30

Criteria-1- Curricular Aspects (1.2.1)

Kopargaon Taluka Education Society's

K. J. Somaiya College of Arts, Commerce and Science.

DEPARTMENT OF COMPUTER SCIENCE

List of Certificate Course Offered

Sr. No.	Department	Name of Certificate Course	Course Code	Year of Offering	No. of time Offered	Duration of Course
1.	Computer Science	Computer Hardware & Network	CC-918	2018-19	1	36 Hours
2.	Computer Science	Computer Hardware & Network	CC-918	2019-20	1	36 Hours
3.	Computer Science	Computer Hardware & Network	CC-918	2020-21	1	36 Hours
4.	Computer Science	Computer Hardware & Network	CC-918	2021-22	1	36 Hours
5.	Computer Science	Computer Hardware & Network	CC-918	2022-23	1	36 Hours

HOD
Dept.of Computer Science
K.J.Somaiya College, Kopargaon

K. J. Somaiya College of Arts, Commerce and Science.

DEPARTMENT OF COMPUTER SCIENCE

Computer Hardware and Network

Structure, Curriculum and Assessment Procedure-

Kopargaon Taluka Education Society's

K. J. Somaiya College of Arts, Commerce and Science.

NAAC Reaccredited A Grade, DST-FIST Sponsored College

Certificate Course: Computer Hardware and Network

Course Code: CC918

Organized by- Department of Computer Science

Academic Year: 2022-23

HOD
Dept of Computer Science
K.J.Somaiya Collage, Kopargana

Kopargaon Taluka Education Society's K. J. Somaiya College of Arts, Commerce and Science. DEPARTMENT OF COMPUTER SCIENCE

1	Name of Departmen	t	Computer So	outer Science		
2	Title of Course		Computer Hardware and Networking			
3	Course Level		Certificate	3		
4	Implementation acad	demic year	Since 2019-2	20		
5	Preamble of Syllabus		 Concepts of Computer fundamentals Computer Components Networking Devices 			
6	Faculty of the Cours	e	Science			
7	Eligibility of Admission and prerequisite		12 th Science Pass			
8	Duration of the Course		3 Months (36 Hours)			
9	Intake capacity of students		90			
10	Total hours of teaching		36			
11	Pattern of examinati	_=				
	Theory exam, Practical and exercises		Theory and practical exam at the end of the course.			
	Teaching Faculty					
12	Name of Faculty	Designation	on	Qualification		
14	Mrs. Kusalkar A.A.	Assistant	Professor	M.Sc. Computer Science		
1	Mr. Kunjir G.M.	Assistant	Professor	M.Sc. Computer Science		
13	Other Facilities		Computer La	boratory, Library		
14	Recommended books	3				
	1. Computer Networking: Principles, Protocols and Practice by Olivier Bonaventure					
	2. Let Us C-Yashavant P. Kanetkar					

Dept.of Computer Science K.J.Somaiya College, Kopargaon

DEPARTMENT OF COMPUTER SCIENCE

Letter to IQAC for seeking permission for the Short-term Certificate Course

To,

The Coordinator,

IQAC,

K. J. Somaiya College, Kopargaon.

Subject: Regarding the permission for organizing Short-term Certificate course.

Respected sir,

The Department of Computer Science desire to organize short-term course in our department for developing the skills of our students.

Name of Activity	Certificate course on Computer Hardware and Networking		
Proposed Date & Time	Academic year 2022-23 (Semester V & VI)		
Venue	Classroom no. 46, Science building		
Name of Coordinator	Prof. Abhishek S. Kawane Department of Computer Science		

Kindly give the permission and thank you and looking for kind cooperation.

Yours Sincerely,

prof. A. S. Kawane Course Coordinator

Dr. R. K. Kolhe

Dept. of Computer Science

K.J. Somaiya College, Kopargeon Commerce & Science, Kopargaon

Permission Letter from IQAC for Organizing Certificate Course

From,

The IQAC Coordinator,

K. J. Somaiya College, Kopargaon.

To,

The Course Coordinator,

Dept. of Computer Science,

K. J. Somaiya College, Kopargaon.

Subject: Permission for organizing short- term certificate course.

Respected sir,

3

As per your letter dated / 4) 10 / 10 to IQAC. Grants the permission for following activity

Name of Activity	Certificate course on Computer Hardware and Networking			
Proposed Date & Time	Academic year 2022-23 (Semester V & VI)			
Venue	Classroom no. 46, Science building			
Name of Coordinator	Prof. Abhishek S. Kawane Department of Computer Science			

You are requested to complete the documentation and submit it to IQAC after Programme within five working days. Wish you all the best for Programme. Thank you

Yours Sincerely

K.T.E. Society's

K. J. SOMAIYA COLLEGE, KOPARGAON DEPARTMENT OF COMPUTER SCIENCE

Certificate course in

COMPUTER HARDWARE AND NETWORKS

Date: 18/10/2022

Notice

The students of **T.Y.B.Sc.(Comp. Sci.)** are here by informed that, the department will organizing short term course entitled "Computer Hardware & Networking" from 27th October 2022 to month of February 2023. The course duration will 3 months & it is of 3 credits. The syllabus of course is approved by SPPU, Pune.

The course will be compulsory to all Third Year students. Course completion is based on qualifying examination, which will be held in February 2023. After successful completion of course the students will issue certificate. The minimum fees for course is Rs 200 per students. So students are requested to collect fees towards course coordinator Prof. Abhishek Kawane on or before 20/10/2022.

Course Coordinator

Prof. A.S. Kawane

HOD Post of Computer Cal

Dept.of Computer Science K.J.Somaiya Callege, Kepangage

K. J. SOMAIYA COLLEGE, KOPARGAON

DEPARTMENT OF COMPUTER SCIENCE

(Estd. - UG-2010, PG-2016)

COMPUTER HARDWARE AND NETWORKS

Time Table (2022-2023)

36 Course Duration: 42 lectures (27th October 2022 to February 2023)

Time	Monday	Tuesday	Wednesday	Thursday	Friday	Saturday
3.00 pm- 3.45 pm	СН	СН	CN	CN	Practical Batch- A	Practical Batch -B

Subject Teacher:

5

1. Computer Hardware- Prof. S.T. Pokharkar

2. Computer Networking: Prof. A.S. Kawane

Prof. R.K. Kolhe

Dept of Computer Science . I Somarya Chiege Kopargaon

K. J. SOMAIYA COLLEGE, KOPARGAON

DEPARTMENT OF COMPUTER SCIENCE

Student Enroll list of course (2022-23)

COMPUTER HARDWARE AND NETWORKS

(Start from 27th Oct 2022 to 24th Mar 2023)

Sr.	Roll	Student Name
no.	No.	Student Name
1		Said Om Rajendra
2		Bhosale Supriya Vijay
3		Kumawat Om Kaduba
4	4	Tupke Pratik Vijay
5	5	Wagh Piyush Kailash
6	6	Kankubji Mohit Shivdas
7	7	Arora Sahil Ravindra
8	8	Shinde Vikas Rangnath
9	9	Babhulke Darshan Ram
10		Dawange Akshay Balasaheb
11	11	Kamble Amod Sanjay
12	12	Pathan Daul Babu
13	13	Gayke Vikas Popat
14	14	Dange Bhushan Rajendra
15	15	Markad Pranali Navnath
16	16	Jadhav Priyanka Vilas
17		Dhokale Sudarshan Kailas
18	18	Kadam Prachi Sanjay
19	100000	Ranshing Snehal Rajendra
20	The second second	Bhavar Abhishek Gorakshanath
21		Chavan Aarti Sandip
22		Chavan Puja Sanjay
23	1912/07	Pardhe Krushna Balasaheb
24		Khadangale Ravindra Pandurang
25		Autade Snigdha Pradeep
26		Surve Krushnai Vilas
27		Valte Sakshi Sandeep
		Gavhane Dnyaneshwari Shantaram
28		Chaskar Ashwini Nandkishor
29		Sonawane Rajani Subhash
30		Gawli Shruti Rajendra
31		Jawale Shweta Raosaheb
32		Gaikwad Gayatri Jitendra
33		Shinde Adinath Pandharinath
34		The state of the s
35		Varpe Vaibhav Chandrakant Shinde Nirmala Navnath
36		
37		Bhalerao Prasenjeet Narendra
38		Khalkar Ashwini Somanath
39		Gunjal Amol Kailas
40		Jadhav Rohit Kashinath
41		Zirmute Gayatri Sanjay
42		Chavhan Vaishnavi Arjun
43	43	Wakchaure Vaishnavi Nandkishor
44	44	Thombare Santosh Bhausaheb

Sr. no.	Roll No.	Student Name
45	45	Upadhye Yash Sandeep
46	46	Morade Shubham Rajendra
47	47	Gore Poonam Rajendra
48	48	Gore Pratiksha Rajendra
49	49	Wable Rushikesh Annasaheb
50	50	Wakchaure Aakash Dnyaneshwar
51		Parhe Sanket Sunil
52	52	Supekar Dinesh Ambadas
53	53	Raut Bharat Nanasaheb
54	54	More Shubham Sunil
55	55	Pathade Kiran Lahanu
56	56	Wable Abhishek Dilip
57	57	Autade Rushikesh Shivajirao
58	58	Pawar Sanket Babasaheb
59	59	Ranshing Sairaj Vikas
60		Sapkal Pratik Santosh
61		Kale Sarthak Balasaheb
62	62	Wakchaure Yogesh Balasaheb
63		Bhokare Sumit Balasaheb
64	64	Chinke Satvik Kailas
65	65	Wakte Sarang Kanifnath
66		Gangad Sapana Rajendra
67		Magar Anushka Rajendra
68		Kakade Rutuja Ramdas
69		Valte Sakshi Sahebrao
70		Nawale Vaishnavi Jaywant
71		Vishwakarma Rani Ramanand
72	72	Shinde Sanket Rohidas
73	74	Dhanwate Tushar Madhukar
74	75	Lokhande Prasad Navnath
75	76	Gaikwad Sanket Vijay
76	1010772 PM	Barhate Sagar Bhagwat
77		Gade Ganesh Balasaheb
78		Mali Tejas Popat
79		Pagare Tejas Hemant
80		Shinde Pallavi Vilas
81		Aware Priya Babasaheb
82		Randhe Shraddha Balasaheb
83		Gaikwad Varsha Dnyandev
84		Waghmare Siddharth Nitin
85		Kedar Ajay Vasant
86		Rahane Ajay Vasant
87		Kukkar Mamta Vijay
88		Dhoke Komal Hanumant
89		STOCKED AT 1 SPORT FOR STATE AND SHAPE AND SHA
09	90	Bhad Komal Vijay



Student List TY BCS(2022-23) Attendance

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Student Name	Tale Trigg				New York	UZBER S	Lagranty		102					
2 BHOSALE SUPRIYA VIJAY	1. v Breen	Bhosale	Bhosale	Photole.	Bhosele	Brook	Bhosode	Blogale	Abreala	Bloude	Bhosale	Blacedo	Bloom	Phosalo
2 15 MARKAD PRANALI NAVNATH	Sono	Som	Som	Som	Samy	10000	Sonn	San	Sens	S	(Sold)	STAN	5008D	Soly
3 16 JADHAV PRIYANKA VILAS	to fort	Parse	1 Day or	taryon	ta yen				Troma	toney	-Em	trus	- January	town
4 18 KADAM PRACHI SANJAY	a.	(Decale		ALL.	(Charles	(a) soli	7	Machi	Ale	The Land	The .	7	Prochi	100
5 19 RANSHING SNEHAL RAJENDRA	=	=		= 1			JW.	-	-	Thains	Chachi	Frach	Troch	- Chanku
6 21 CHAVAN AARTI SANDIP	Anch	Acion	Aceti	Latte	Anoti	Hout	det	Auto	Ageti	Hack	Hatt	Harri	Agret	daeti
子 22 CHAVAN PUJA SANJAY	Change	House	Janons	danalo	ganage	Chanage	Chanapa	Chancell	Lower	Chavan		Chawar	Course	Chause
8 25 AUTADE SNIGDHA PRADEEP	Ingdhat	- Inigethal	Inigethod		Stigdbal	Intechet	drigalis	Inighad	heighbert	I nigethout	Injohn	1 rigetheat	Inigeliet	Irigalinat
26 SURVE KRUSHNAI VILAS	Soulty		Sunneku	Sunety			PUNICKY		Zunelch_	Brown		- STACK		Furnekit
27 VALTE SAKSHI SANDEEP	ATTENTIST.	2月150	211850	MENTED.	RIDING		-			at William	2 TREWISO	attention.	Wholis .	र्याद्यार्थ.
11 28 GAVHANE DNYANESHWARI	Person	Palmero	Coho	Cahana	Palma	Caherra	Popus	Pho		-anne	Perhaps		-Cubas	-Perhers -
12 29 CHASKAR ASHWINI NANDKISHOR	Arrakoe	Motols		Alskos		ANKLE			Moster		Maxe		Makas	MKGE
13 30 SONAWANE RAJANI SUBHASH	Em.	Gas.	· ELLS.	Every.	Erest.	7	Sul.	Frus:	Frus.	Files	(Flu)	Film	Fly.	Que.
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Dept. of Computer Science

K.J. Somas, Computer Science

Principal

K. J. Son ya College of Arts

Commercial Science, Kopargaon

Commercial Science, Kopargaon

K.J. Somaiya COLLEGE OF ART'S, COMMERCE AND SCIENCE, KOPARGAON

Question Paper of

Certificate Course in Computer Hardware & Networking

Academic Year 2022-23

Marks: 50

Time: 2 Hrs.

Date: 24-03-2023

Note: All Questions Are Compulsory.

Q.1] Answer the following questions.

(1 Mark * 10 = 10 Marks)

- 1. What is the function of microprocessor in a system?
- 2. What is function of chipset?
- 3. List any six specifications of LED Monitor.
- 4. Define Network topology.
- 5. State the use of Repeaters and Hub.
- 6. What is subnet?
- 7. What are different type of network cable cables used in network?
- 8. State the used of gateways.
- 9. What is a MAC address?
- 10. Define Bandwidth.

Q.2] Answer the following questions.

(5 Marks* 8 = 40 Marks)

- Explain briefly about bus structure of 8085
- 2. Difference between AT motherboard and ATX motherboard :
- 3. Define and explain the types of Expansion card.

Computer

- 4. Draw TCP/IP reference Model and explain the functions of each layer.
- 5. What Happens when you type a URL in the web browser?
- What are Routers, Hubs, Switches and Bridges? State advantages and disadvantages.

Explain the BIOS.

8. Classify and explain computer memory.

Prof. Vijay Thange Co-ordinator, IQAC

K. J. Somaiya College of Arts Commerce & Science, Kopargaon

Allegran 1818.

K. J. Somaiya College, Konsman

K. I SOMAIYA COLLEGE, KOPARGAON

DEPARTMENT OF COMPUTER SCIENCE COMPUTER HARDWARE AND NETWORKS

Student Mark List (2022-23)

Date: 24-03-2023

Sr.		Roll No.	Student name	Marks
1		1	Said Om Rajendra	. 30
2	2	-	Bhosale Supriya Vijay	28
3	3		Kumawat Om Kaduba	45
4	4	Į.	Tupke Pratik Vijay	29
5	5		Wagh Piyush Kailash	37
6	6	n H	Kankubji Mohit Shivdas	28
7	7	5	Arora Sahil Ravindra	29
8	8		Shinde Vikas Rangnath	40
9	9		Babhulke Darshan Ram	34
10	10	0	Dawange Akshay Balasaheb	30
11	1:	1	Kamble Amod Sanjay	31
12	12	2	Pathan Daul Babu	31
13	13	3	Gayke Vikas Popat	35
14	14	1	Dange Bhushan Rajendra	30
15	15	;	Markad Pranali Navnath	35
16	16	ì	Jadhav Priyanka Vilas	29
17	17		Dhokale Sudarshan Kailas	37
18	18		Kadam Prachi Sanjay	35
.9	19		Ranshing Snehal Rajendra	45
0	20		Bhavar Abhishek Gorakshanath	43
1	21		Chavan Aarti Sandip	36
2	22		Chavan Puja Sanjay	35
3	23		Pardhe Krushna Balasaheb	45
4	24	1	Khadangale Ravindra Pandurang	42
5	25	1	Autade Snigdha Pradeep	35
6	26	5	Surve Krushnai Vilas	34
7	27	١	/alte Sakshi Sandeep	42
8	28	(Gavhane Dnyaneshwari Shantaram	35
9	29	(Chaskar Ashwini Nandkishor	29

Sr. No.	Roll No	Student name	Marks
30	30	Sonawane Rajani Subhash	37
31	31	Gawli Shruti Rajendra	35
32	32	Jawale Shweta Raosaheb	36
33	33	Gaikwad Gayatri Jitendra	34
34	34	Shinde Adinath Pandharinath	40
35	35	Varpe Vaibhav Chandrakant	35
36	36	Shinde Nirmala Navnath	36
37	37	Bhalerao Prasenjeet Narendra	34
38	38	Khalkar Ashwini Somanath	41
39	39	Gunjal Amol Kailas	29
40	40	Jadhav Rohit Kashinath	34
41	41	Zirmute Gayatri Sanjay	35
42	42	Chavhan Vaishnavi Arjun	42
43	43	Wakchaure Vaishnavi Nandkishor	45
44	44	Thombare Santosh Bhausaheb	36
45	45	Upadhye Yash Sandeep	35
46	46	Morade Shubham Rajendra	34
47	47	Gore Poonam Rajendra	35
48	48	Gore Pratiksha Rajendra	45
49	49	Wable Rushikesh Annasaheb	34
50	50	Wakchaure Aakash Dnyaneshwar	36
51	51	Parhe Sanket Sunil	40
52	52	Supekar Dinesh Ambadas	35
53	53	Raut Bharat Nanasaheb	35
54	54	More Shubham Sunil	33
55	55	Pathade Kiran Lahanu	45
6	56	Wable Abhishek Dilip	42
7	57	Autade Rushikesh Shivajirao	34
8	58	Pawar Sanket Babasaheb	33

Sr. No.	Roll No.	Student name	Marks
59	59	Ranshing Sairaj Vikas	35
60	60	Sapkal Pratik Santosh	34
61	61	Kale Sarthak Balasaheb	29
62	62	Wakchaure Yogesh Balasaheb	31
63	63	Bhokare Sumit Balasaheb	36
64	64	Chinke Satvik Kailas	34
65	65	Wakte Sarang Kanifnath	35
66	66	Gangad Sapana Rajendra	35
67	67	Magar Anushka Rajendra	36
68	68	Kakade Rutuja Ramdas	33
69	69	Valte Sakshi Sahebrao	37
70	70	Nawale Vaishnavi Jaywant	35
71	71	Vishwakarma Rani Ramanand	35
72	72	Shinde Sanket Rohidas	46
73	74	Dhanwate Tushar Madhukar	31
74	75	Lokhande Prasad Navnath	29
75	76	Gaikwad Sanket Vijay	36
76	77	Barhate Sagar Bhagwat	32
77	78	Gade Ganesh Balasaheb	31
78	79	Mali Tejas Popat	36
79	80	Pagare Tejas Hemant	32
80	81	Shinde Pallavi Vilas	29
81	82	Aware Priya Babasaheb	36
82	83	Randhe Shraddha Balasaheb	36
83	84	Gaikwad Varsha Dnyandev	35
84	85	Waghmare Siddharth Nitin	29
85	86	Kedar Ajay Vasant	31
86	87	Rahane Ajay Vasant	35
87	88	Kukkar Mamta Vijay	30
88	89	Dhoke Komal Hanumant	32
89	90	Bhad Komal Vijay	29

HOD HOD

Dept.of Computer Science K.J.Somaiya College,Kopargaon

K. J. Somaiya College of Arts, Commerce and Science.

DEPARTMENT OF COMPUTER SCIENCE

Academic Year: 2022-23

Report

Computer Hardware and Network
27 th October 2022 to 26 th Feb. 2023, 36 Hours
Computer Science
89
Department of Computer Science

Brief Summary of Activity:

Department of Computer Science runs certificate course in Computer Hardware and Network. The objective of the course is to develop skill among the students to acquire basic knowledge in Computer hardware and peripherals for installation. To assemble the PC and trouble shooting and maintenance. To develop skill set, required in network technology. To gain basic knowledge of TCP/IP networks and to understand the internet architecture. The course content is made available to the students. Hon. Principal Dr. B. S Yadav inaugurated this course.

Outcome of the Course:

- 1) Student acquired basic knowledge of computer hardware.
- 2) Students are able to assemble PC, they learn to solve trouble shooting problems in PC.
- 3) Students get good skill about network technology.

Dept.of Computer Science
K.J.Somaiya College,Kopargaon

Principal
maiva College of

K. J. Somaiya College of Arts



K. J. SOMAIYA COLLEGE OF ART'S, COMMERCE AND SCIENCE, KOPARGAON



(Affiliated to Savitribai Phule Pune University)
NAAC re–acrredieated with 'A' Grade An ISO 9001–2015 certified Institute

Best college award by S. P. Pune University

Mohanirajnagar, Kopargaon Dist-Ahmadnagar, 423 601 (Maharashtra)



CERTIFICATE

This is to certify that Mr. /Ms./Mrs
from the class <u>T.Y. B.Sc(C.S.)</u> has successfully completed the course
entitled Computer Hardware and Networks run by Department of
Computer Science conducted between 27/10/2023 & 24/03/2023
He/ She has been awarded with grade.

Course Co-ordinator

HoD, Computer Science

Principal

CERTIFIATE COURSE IN COMPUTER HARDWARE AND NETWORKING

K. J. Somaiya College of Arts, Commerce and Science.

DEPARTMENT OF COMPUTER SCIENCE

Computer Hardware and Network

Structure, Curriculum and Assessment Procedure-

Kopargaon Taluka Education Society's

K. J. Somaiya College of Arts, Commerce and Science.

NAAC Reaccredited A Grade, DST-FIST Sponsored College

Certificate Course: Computer Hardware and Network

Course Code: CC918

Organized by- Department of Computer Science

Academic Year: 2021-22

HOD

Dept.of Computer Science
K.J.Somaiya College Koparana

Kopargaon Taluka Education Society's K. J. Somaiya College of Arts, Commerce and Science. DEPARTMENT OF COMPUTER SCIENCE

1	Name of Department		Computer Sc					
2	Title of Course		Computer Ha	Computer Hardware and Networking				
3	Course Level		Certificate					
4	Implementation acad	emic year	Since 2019-2					
5	Preamble of Syllabus		 Concepts of Computer Networkin 					
6	Faculty of the Course)	Science					
7	Eligibility of Admissi prerequisite		12 th Science	Pass				
8	Duration of the Cour	se	3 Months (36 Hours)					
9	Intake capacity of stu	idents	90					
10	Total hours of teaching		36	36				
11	Pattern of examination	on, if any						
	Theory exam, Practic		Theory and p course.	oractical exam at the end of the				
	Teaching Faculty			7000				
	Name of Faculty	Designat	tion	Qualification				
12	Mr. Pokharkar S.G.	Assistan	t Professor	M.Sc. Computer Science				
	Mr. Kawane A.S.	Assistan	t Professor	M.C.A.				
13	Other Facilities	20	Computer La	iboratory, Library				
14	Recommended books							
	1. Computer Networki	ng: Princip	oles, Protocols a	nd Practice by Olivier Bonaventure				
	2. Let Us C-Yashavani	P. Kanetk	ar					

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Dept of Computer Science K.J.Somaiya College, Kopargaon Principal

Kopargaon Taluka Education Society's K. J. Somaiya College of Arts, Commerce & Science, Kopargaon

-: Certificate Course:-

Computer Hardware & Networking

Objective of the Course:

- > To train the officials to acquire basic knowledge in computer hardware and peripherals for installation.
- > PC assembly, trouble shooting and maintenance including system management and its backup and to undertake disaster prevention.
- > To develop skill set, currently required in Computer Hardware and Network Technology.
- > Basic knowledge of TCP/IP networks work group.
- > To understand the Internet / Intranet architecture

Syllabus of the Course:

	Computer Hardware	No. of Lectures
1	Microprocessor System: Introduction of System overview, Introduction to Processors, Memory Interfacing, Interfacing I/O Devices, Interfacing Data Converters, Display Interface, Serial I/O and Data Communication, Higher level Processors	02
2	Introduction to PC Architecture Study of PC-AT/ATX System, Pentium, Core, Core 2 Cord, Core 2 Duo, I3, I5, I7 Processor Basics of Processor and CPU, Block Diagram of Computer and Computer Generation Motherboards, Chipset and Controllers, BIOS and the Boot Process, Computer Memory.	02
3	Internal Components IDE and SATA Devices: Hard Disk Drive and CD/DVDs Drives, SCSI Devices, Floppy Disk, Zip Drive, Backup Drive, Expansion Cards- LAN Card, IDE Card, VGA and SVGA Cards, Sound Card, Interface Cards, I/O cards, Video Cards, USB Card, Fire- Wire Cards, Internal Ports, Cables and Connector Types.	03
4	External Components Monitors:- CRT, LCD and LED Displays, Printers:- Dot-Matrix Printer, Inkjet Printer, Laser Printer Scanner:- Photo Scanner, Documents Scanner, Bar Cord Scanner	03

	Keyboards, Mouse, External Modem, Ports and Connectors, Batteries, Power supply, Pen Drives, SCSI interface devices, Laptop Computers, Digital Advance storage technology.	ø
5	Network Components Introduction of Network Cable like UTP, STP, Fiber Optics, Hub, Unmanageable Switch, Manageable Switch, Router, Modem, Wi-Fi, Access Point, PCI Wireless Card, USB Wireless Device, Print Server, USB Network Sharer, Backup Device, Server Hardware etc.	03
6	PC debugging, troubleshooting and Maintenance	02
	Computer Networking	
7	Overview of Networking Introduction to networks and networking, LAN, PAN, MAN, WAN, Internet and Intranet etc. Uses and benefits of Network, Server-client based network, peer to peer networks.	03
8	Network Hardware and Components Concept of Server, client, node, segment, backbone, host etc. Analog and Digital transmission, Network Interface Card, Crimping tools and Color standards for Straight crimping and Cross crimping Functions of NIC, Repeaters, Hub, Switches, Routers, Bridges, Router etc.	03
9	Transmission Media and Topologies Media types: STP cable, UTP cable, Coaxial cable, Fiber cable, Base band and Broadband transmission, Cables and Connectors, Physical and logical topologies, Bus, Star, Ring and Mesh topologies	03
10	Protocols and Services HTTP, FTP and other Different types of protocols, OSI Model, Media Access Method, DNS services, DHCP services, WINS services and RAS services, Web services, Proxy Services etc.	03
11	TCP/IP and Sub-netting Introduction about TCP/IP and Sub-nettings, configuring IP address and subnettings with different Routers and Network, TCP/IP Errors and Solutions.	03
ractical	Study of Internal Components (Hard Disk Drive and CD/DVDs Drives, SCSI Devices) Study of External Components(LCD Monitor, Laser Printer) Study of Network Components(Wi-Fi, Access Point, PCI Wireless Card, USB Wireless Device) Study of PC assembly	06
	5. Study of configuring IP address and subnettings with different Routers and Network6. Study of HTTP, FTP and other Different types of protocols	

Rella.

Dept.of Computer Science
K.J.Somaiya College, Kopargaan

Letter to IQAC for seeking permission for the Certificate Course

To,

The Coordinator,

IQAC,

K. J. Somaiya College, Kopargaon.

Subject: Regarding the permission for starting certificate course/Organize seminar/conference/Webinar/Departmental activity in our department...

Respected Sir,

The Department of Computer Science desire to start/organized a certificate course/ Organize seminar/conference/Webinar/Departmental activity in Certificate for developing the skills and enhancing the employability of our students.

Name of Activity: Certificate Course in Computer Hardware & Network

Date and time: 4th April to 23rd April 2022

Venue:

computer les

Name of the coordinator/: prof. Miss Kote Y. P & Kolapkar R. R.

Resource Person

Kindly give the permission and thank you and look forward for kind cooperation.

Dept.of Computer Science K.J.Somaiya College, Kopargaoh

Permission Letter from IQAC for Organizing Programme/Certificate Course From,

The IQAC Coordinator,

K.J. Somaiya College, Kopargaon

To, Dept of computer science

K.J. Somaiya College, Kopargaon

As per your letter dated. J. AP. 2001—IQAC grants the permission for following activity.

Name of Activity: certificate course- computer Hardware & Hetwork

Date and time: 4th April-2012 to 23rd April-2012

Venue:

computor Les

Name of the coordinator/: prof. Miss. Kote Y.P.& Kolapkar R. R.

You are requested to complete the documentation and submit it to IQAC after Programme with in time limit.

Wish you all the best for Programme.

Thank you.

Penilof Co. Just Science

Yours Sinderely
Coordinator
IOAC, K. J. Somaiya College
Kopargaon. Dist. A.Nagar

K.T.E. Society's

K. J. SOMAIYA COLLEGE, KOPARGAON DEPARTMENT OF COMPUTER SCIENCE

Certificate course in

COMPUTER HARDWARE AND NETWORKS

Date: 02/04/2022

Notice

The students of **T.Y.B.Sc.** (Comp. Sci.) are here by informed that, the department will organizing short term course entitled "Computer Hardware & Networking" from 4th April 2022. The course duration will 1 months & it is of 3 credits. The syllabus of course is approved by SPPU, Pune.

The course will be compulsory to all Third Year students. Course completion is based on qualifying examination, which will be held in April 2022. After successful completion of course the students will issue certificate.

Course Coordinator

Dept.of Computer Science
K.J.Somaiya College, Kopargaon

K. J. SOMAIYA COLLEGE, KOPARGAON

DEPARTMENT OF COMPUTER SCIENCE

(Estd. - UG-2010, PG-2016)

Student Enroll list of course (2021-22)

COMPUTER HARDWARE AND NETWORKS

(Start from 4th April 2022 to 23rd April 2022)

Rol	
ı No	Name
1	ABHALE NIKITA ARVIND
2	JANGAM HARSHALI GAJANAN
3	MADAVI MANASI SANJAY
4	JAPE PRIYANKA GOVIND
5	GAIKWAD CHAITALI UTTAM
6	DESHMUKH NIKHIL SANJAYRAO
7	GUNJAL KAVERI ANIL
8	JOSHI AMIT VIKRAM
9	NAWALE ANAND SAHEBRAO
.0	NAGARE SAKSHI SUNIL
.1	DHANWATE PANKAJ DATTATRAY
.2	SHILEDAR SARIKA HARIBHAU

7

13	GAWALI MEGHANA VIJAY
14	DUSHING SWAPNIL ARUN
15	PACHORE RUSHIKESH SHIVAJI
16	SHIRSATH SUPRIYA RAJENDRA
17	GAVALI KRUSHNA POPATRAO
18	BARHATE ROHINI VIJAY
19	SALUNKE PRATIKSHA NAVNATH
20	SALUNKE MAYURI DADASAHEB
21	BORNARE SHARAYU LAHANU
22	SHEJWAL ASHLESHA BHAUSAHEB
23	SONAWANE ADITI SUDHAKAR
24	MORE KRUSHNA INDRABHAN
25	ADHAV SHREYAS SANDEEP

Dept.of Computer Science K.J.Somaiya College,Kopargaon

26	SUPEKAR MADHURI SANJAY
27	DOKHE SNEHAL MACHHINDRA
28	WAGH YUGANDHARA SURAJRAO
29	THOMBARE RAJSHRI ANKUSH
30	THOMBARE AKANKSHA DNYANESHWAR
31	MORE RUTUJA SHARAD
32	SHAIKH MUSKAN NAEEM
33	JAWALE SUDARSHAN RAVINDRA
34	GUNJAL PRATIK ANIL
35	NIKAM YASH MANOJ
36	LAD PARTH SANDIP
37	KHANAPURE KUNAL SANJAY
38	JORE TEJAS DATTATRAY
39	SALVE PRASAD RAJENDRA
40	DUTTE YUVRAJ NARAYAN

41	CHAUDHARI SAURABH RAMKRISHNA
42	NIKOLE SANKET GORAKH
43	SONAWANE RUTUJA BABASAHEB
44	JADHAV SAYALI SHIVAJI
45	SHAIKH ARIBA FARIYAJ
46	SALPURE HRUTUJA VISHWANATH
47	GAIKWAD KRUSHNA BAPU
48	PAWAR PRASAD SANJAY
49	SHINDE HRITIK NAVNATH
50	RAHANE SHUBHAM SUNIL
51	DESHMUKH VAISHNAVI SANJAY
52	GUNJAL SWATI DATTATRAY
53	GAIKWAD DIVYA BALIRAM
54	DHANAD PRITESH BHAGWAN
55	DHORDE PRANAV RAVINDRA

56	PARJANE PRASAD ANANDRAO
57	PAWAR MANSI SANJAY
58	JADHAV VILAS SANJIV
59	GÖRHE SARANG SHRIRANG
60	BHAKARE SANKET SANTOSH
61	KOLHE AADITI RAJENDRA
62	SAVANT PRATIKSA SUBHASH
63	MOHITE SNEHAL VIJAY
64	WAKCHAURE SHITAL RAVINDRA
65	KAJALE GHANSHYAM ANIL
66	SAYYAD MUSKAN RAFIK
67	SUTAR RITIKA ASHOK
68	BHUJADE RUPALI TANAJI
69	BHAKARE AARTI DATTATRAY
70	PACHORE PRAJAKTA BALASAHEB

71	DEOKAR AVINASH SAMPAT
72	DHANVATE RENUKA AMOL
73	LONDHE KAJAL VIJAY
74	PANGAVHANE VAISHNAVI BALASAHEB
75	KHAIRE KOMAL RAJENDRA
76	GAIKWAD NIKITA UTTAM
77	SOLAKE DIPALI SUNIL
78	PAWAR SHRADDHA VIJAY
79	THOMBARE DIVYA SHAMRAO
80	WALZADE PRANAY AVINASH
81	KHATKALE SANCHITA NANASAHEB
82	BADHE ASHWINI RAJENDRA
83	PHAPALE SATISH SOMNATH

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Dept.of Computer Science K.J.Somalya College Koparozon Principal

Dept.of of Control

K. J. SOMAIYA COLLEGE, KOPARGAON

DEPARTMENT OF COMPUTER SCIENCE

(Estd. - UG-2010, PG-2016)

COMPUTER HARDWARE AND NETWORKS

Time Table (2021-2022)

Course Duration: 15 days (4th April 2022 to 23rd April 2022)

Time	Monday	Tuesday	Wednesday	Thursday	Friday	Saturday
3.00 pm- 3.45 pm	Theory	Theory	Theory	Theory	Practical Batch- A	Practical Batch -B
3.45 pm- 4.30 pm	Theory	Theory	Theory	Theory	Practical Batch- A	Practical Batch -B

Rept of Computer Science
K.J.Somaiya College, Kopargaon

K. J. SOMAIŸA COLLEGE OF ARTS, COMMERCE AND SCIENCE, KOPARGAON

Certificate Course in Computer Hardware & Networking

Academic Year: 2021-22

Attendance List

Roll No	Students Name	4 th Apr. 2022	5 th Apr. 2022	6 th Apr. 2022_	7 th Apr. 2022	Apr. 2022	9 th Apr. 2022	11 th Apr. 2022	12 th Apr. 2022	13 th Apr. 2022	16 th Apr. 2022	18 th Apr. 2022	16 th Apr. 2022	18 th Apr. 2022	20 th Apr. 2022	21 th Apr. 2022	22 th Apr. 2022	23 th Apr. 2022	
1.	Abhale Nikita Arvind	Michael	Nitabel	Dilita	1Kipa	Vikital	ukita	Nikita	Vikital	Nikitah	nikiter	dikida	Wilde	JYY DE	VIKIDA	ilite	N. WE	Nikida	
2.	Adhav Shreyas Sandeep	X2.	80	30	30	2P	80	80	-80	D.	00	SP.	-Ab		SQ.	SQ	300	Se .	
3.	Badhe Ashwini Rajendra	ABON O	ABodle	ABOOK C	ABoul	ABOUC	-Madke	Ah	ARadko	ABadhe ABadhe	Alecki	Abodle	ABach	Afadhre	ABodhe	ABodh	ABodha	ABING	-
4.	Barhate Rohini Vijay	(RB)	(RB)	(SB)	(B)	B	8	RB	RB	RB	R	RB	RB	BB	RB)	B	00	RP	
5.	Bhakare Aarti Dattatray	BAD .	90D	8000	BRD	80D	-86D	BAD	BODD	BOD	BAD	B000		MAD	BATO	800	-RAP	BD 0	
6.	Bhakare Sanket Santosh	b8anle	B.Sank	Banke	Branko	Boank	Bande	Bank	Brank	Bsonle	Benled	Boomko	Bonk	Bsemkel	Brenko	Bonlet	Rsconked	Bon of	-
7.	Bhujade Rupali Tanaji	Repali	Rupali	Rupali	Rapoli	Rupalle	Rupali	Rupali	Republi	papele	Rupali	Rupali	Louped	Rupal	o Rupi	Rupoli	Rupali	- Rupoli	<u>~</u>
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9.	Chaudhari Saurabh Ramkrishna	CSR	SSR	OSR.	E8B	COR	COR	-Ab	CSB	<u> </u>	-0380	COR.	ESP	COB	SOL	COB	COB	C380	>
10.	Deokar Avinash Sampat	Dorokak	o Gloda	Seo John	Desper	Devlay	Popla	960pg	- Doolor	Don ky	Dento	Abo	Barbars	Doda	Dooka'	Devolus	(Anday	@oday	_>
11.	Deshmukh Nikhil Sanjayrao	<u> </u>	00		DO	200	200	200	-Ah	200	00	-300	200	00	200	DA	-DA	DO	_
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14.	Dhanwate Pankaj Dattatray	20	D.P	D.P	D.P	D.P_	DP	DP	Ab	D.P	De	DP.	D.P	D.P.	DP.	DX	DP	_ O.1	1
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22.	Gavali Krushna Popatrao	let	els	les	ex	lok	lek	-CIR	lle	US	Col	the	OK	lik	les	all	AB	Ab	
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27.	Gunjal Swati Dattatray	anjor	Gials	Gijal	Gijals	(rujal	8 Gujals	Gujals	Gujale	(यमुब्ध	(dials	Ab	Giols	Gyols	GUALS.	Chilan	Ab.	Gigals	
28.	Jadhav Sayali Shivaji	JSS	JSS	535	1355	<u>ISS</u>	JSS	J55	JSS.	JSS_	JSS_	J55	Ab	<u> 33</u> 5	JS5	J35	_ <u>TSS</u>	J35	4
29.	Jadhay Vilas	AL		A	HA	-A	-A	A	A	A	*	A	H	D	A	A	#	PPP	
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61.	Savant Pratiksa Subhash	PS - PPS - PSecond -
62.	Sayyad Muskan Rafik	MR ome ome one one one of the state of the s
63.	Shaikh Ariba Fariyaj	history law
64.	Shaikh Muskan Naeem	18 Mg Mg Mg Mg Mg Mg Mg Mg Ab gh Ab gh Ab gh
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66.	Haribhau	ette Jaine Saxie Sacol Santia Saxia Surver 11 at July 11 8.
67.	Shinde Hritik Navnath	Share Shared Strieb Strieb Strieb Strieb
68.	Shirsath Supriya Rajendra	8 89 89 8 8 8 8 8 8 8 8 8 8 8 8 8 8 8 8

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71.	Sonawane Rutuja Babasaheb	Spp.	SPB	SPP	SPO	SPB	SPB	Ab	SPE	Ab	SPB	JPB	SPB	SPB	SPB	SPB	SPB	Ab
72.	Supekar Madhuri Sanjay	80	Sm	Sm	Sur	SIA	SM	Sha	Sus	Just	Str	Stor	Sty	Sto.	SIA	Sm	-Ab	Ab
73.	Sutar Ritika Ashok	SHOP	Stephen	Suda	Suppe	Sopre	State	Hotole	Judore	sutor	Ab	Ab	Sutor	Julie	gettle	Juli	Ab	Ab
74.	Thombare Akanksha Dnyaneshwar	(Nowbe	Phoh	Thine	Im	Thur	Thus	This	12	That	Then	Than	Thur	The	The	The	-Ab	The
75.	Thombare Divya Shamrao	377	2 West	DIVE	DINO	Olyen	Sign	MAG	Duy	SNY	Brigh	white.	ENT	Divis	DIVENY	RINA	Ab	Divio
76	Thombare Rajshri Ankush	T. R.	TRA	RA	T.P.	TRA	T.P.A	TRA	TRA	TRIA	TRA	Ab	Ab	TRA	TRA	TRA	-TPA	Ab
77	Wagh Yugandhara Surajrao	hogh	wy	well	halo	wash	wegh	roys	wag	Magh	wagh.	dipply	wyh	wegh	walk	wgh	-Ab	Ab
78.	Wakchaure Shital Ravindra	NSPR	nor	n&R	nsk	n8R	nsk	nsk	nsk	nsR	nor	18R	nsp	nor	W&R	n8p	AL	WAR
79.	Dhanvate Renuka Amol	PAR	PA	THP	AP	AF	PAP	BO	AA	粉	THE	EDP .	BA	PA	PAR	Ab	Ab	PD
80.	Nikam Yash Manoj	Jiken.	Villa	My May ?	1 Hear	/		NIKOW)	Hikans	Mikan	Milden	H	i but	Nikom	Zilam	Hikm	Ab	Ab
81.	Salve Prasad Rajendra	Sus	10	Seel	Sel	Jeels	Sers	Sel	Ser	- Sel	se	gu	Seel	Ser	Ab	Se	- Se	Sa
82.	Walzade Pranay Avinash	Walter	wake	eve	ger.	pre	m	Cleal	Walt	leab	Mals	rhol	Wold	Lude	Male	-Ah	Ab	Week
83.	Khaire Komal Rajendra	KK	KA	Mb	KK	KH	KK	ph	KIR	KIR	KK	KH	KK	KK	KB	KW	Ab	Ab

Miss. Kolapkar R.R. Course Co-ordinator

HOD
Dept.of Corri, Colence
K.J.Somaiya Colen.

K. J. Sc. Principal
C. K. J. Somaiya College of Adson
Commerce & Science, Kopargag

K.J. Somaiya COLLEGE OF ART'S, COMMERCE AND SCIENCE, KOPARGAON

Question Paper of

Certificate Course in Computer Hardware & Networking

Academic Year 2021-22

Date: 27/04/2022

Time: 2 Hrs.

Marks: 50

Note: All Questions Are Compulsory.

Q.1] Answer the following questions.

(1 Mark * 10 = 10 Marks)

- 1) What is function of chipset?
- 2) List any six specifications of LED Monitor.
- 3) State the need of disk partitioning.
- 4) Define Network topology.
- 5) State the use of Repeaters and Hub.
- 6) What is subnet?
- 7) What are different type of network cable cables used in network?
- 8) State the used of gateways.
- 9) Differentiate between switch and Bridge.
- 10) State the need of installation of device driver?

Q.2] Answer the following questions.

(5 Marks* 8 = 40 Marks)

- 1) Explain various SMPS power supply connectors used in PC-AT.
- 2) Explain working of LED monitors with the help of suitable diagram.
- 3) Describe the general steps involved in the installation of windows OS.
- 4) Draw TCP/IP reference Model and explain the functions of each layer.
- 5) Explain how email is transferred.
- 6) Differentiate Input & Output Devices.
- 7) What is Hyper Threading? What is used of it?
- 8) What is Proxy Server? Explain it in short.

Dept of Computer Science

Principal

Maiya College of Arts

& Science, Kopargaon

Dept.of Computer Science K.J.Somaiya College, Kopargaon

K. J. SOMAIYA COLLEGE, KOPARGAON

DEPARTMENT OF COMPUTER SCIENCE

(Estd. - UG-2010, PG-2016)

Student Enroll list of course (2021-22)

COMPUTER HARDWARE AND NETWORKS

(Start from 4th April 2022 to 23rd April 2022)

Roll No.	Student Name	Marks out of 50
1	ABHALE NIKITA ARVIND	38
2	JANGAM HARSHALI GAJANAN	42
3	MADAVI MANASI SANJAY	40
4 .	JAPE PRIYANKA GOVIND	35
5	GAIKWAD CHAITALI UTTAM	32
6	DESHMUKH NIKHIL SANJAYRAO	43
7	GUNJAL KAVERI ANIL	39
8	JOSHI AMIT VIKRAM	42
9	NAWALE ANAND SAHEBRAO	38
10	NAGARE SAKSHI SUNIL	35
11	DHANWATE PANKAJ DATTATRAY	38
12	SHILEDAR SARIKA HARIBHAU	37
13	GAWALI MEGHANA VIJAY	35
14	DUSHING SWAPNIL ARUN	34
15	PACHORE RUSHIKESH SHIVAJI	36
16	SHIRSATH SUPRIYA RAJENDRA	39

Dept. of Computer Science

K. J. S. . t. ya College of Arek

K. J. Somaiya College, Kopargaon

Commerce & Science, Kopargaon

Roll	Student Name	Marks out of 50			
No.	Student Name	Warks out or so			
17	GAVALI KRUSHNA POPATRAO	33			
18	BARHATE ROHINI VIJAY	39			
19	SALUNKE PRATIKSHA NAVNATH	41			
20	SALUNKE MAYURI DADASAHEB	42			
21	BORNARE SHARAYU LAHANU	38			
22	SHEJWAL ASHLESHA BHAUSAHEB	37			
23	SONAWANE ADITI SUDHAKAR	35			
24	MORE KRUSHNA INDRABHAN	33			
25	ADHAV SHREYAS SANDEEP	32			
26	SUPEKAR MADHURI SANJAY	38			
27	DOKHE SNEHAL MACHHINDRA	35			
28	WAGH YUGANDHARA SURAJRAO	36			
29	THOMBARE RAJSHRI ANKUSH	39			
30	THOMBARE AKANKSHA DNYANESHWAR	38			
31	MORE RUTUJA SHARAD	32			
32	SHAIKH MUSKAN NAEEM	38			
33	JAWALE SUDARSHAN RAVINDRA	40			
34	GUNJAL PRATIK ANIL	42			
35	NIKAM YASH MANOJ	38			
36	LAD PARTH SANDIP	35			
37	KHANAPURE KUNAL SANJAY	32			
38	JORE TEJAS DATTATRAY	31			
39	SALVE PRASAD RAJENDRA	33			

Kolapkar R.R.

Roll No.	Student Name	Marks out of 50
40	DUTTE YUVRAJ NARAYAN	35
41	CHAUDHARI SAURABH RAMKRISHNA	36
42	NIKOLE SANKET GORAKH	38
43	SONAWANE RUTUJA BABASAHEB	40
44	JADHAV SAYALI SHIVAJI	38
45	SHAIKH ARIBA FARIYAJ	39
46	SALPURE HRUTUJA VISHWANATH	34
47	GAIKWAD KRUSHNA BAPU	35
48	PAWAR PRASAD SANJAY	31
49	SHINDE HRITIK NAVNATH	38
50	RAHANE SHUBHAM SUNIL	41
51	DESHMUKH VAISHNAVI SANJAY	42
52	GUNJAL SWATI DATTATRAY	40
53	GAIKWAD DIVYA BALIRAM	35
54	DHANAD PRITESH BHAGWAN	40
55	DHORDE PRANAV RAVINDRA	38
56	PARJANE PRASAD ANANDRAO	36
57	PAWAR MANSI SANJAY	37
58	JADHAV VILAS SANJIV	39
59	GORHE SARANG SHRIRANG	33
60	BHAKARE SANKET SANTOSH	36
61	KOLHE AADITI RAJENDRA	39

HOD Principal 3

Kolapkar R.R. Dept. of Computer Science K. J. Somaiya College of Arts

K.J. Somaiya College, Koparg Sommerce & Science, Kopargaon

Roll	Student Name	Marks out of 50
No.		4.5
62	SAVANT PRATIKSA SUBHASH	40
63	MOHITE SNEHAL VIJAY	37
64	WAKCHAURE SHITAL RAVINDRA	38
65	KAJALE GHANSHYAM ANIL	39
66	SAYYAD MUSKAN RAFIK	40
67	SUTAR RITIKA ASHOK	12
68	BHUJADE RUPALI TANAJI	38
69	BHAKARE AARTI DATTATRAY	35
70	PACHORE PRAJAKTA BALASAHEB	36
71	DEOKAR AVINASH SAMPAT	37
72	DHANVATE RENUKA AMOL	35
73	LONDHE KAJAL VIJAY	41
74	PANGAVHANE VAISHNAVI BALASAHEB	40
75	KHAIRE KOMAL RAJENDRA	35
76	GAIKWAD NIKITA UTTAM	36
77	SOLAKE DIPALI SUNIL	40
78	PAWAR SHRADDHA VIJAY	38
79	THOMBARE DIVYA SHAMRAO	35
80	WALZADE PRANAY AVINASH	37
81	KHATKALE SANCHITA NANASAHEB	38
82	BADHE ASHWINI RAJENDRA	39
83	PHAPALE SATISH SOMNATH	35

HOD
Dept.of Computer Science
KJ.Somalya College Science L.X

K. J. Somarka College of Arts Commerce & Science, Kopargaon

K. J. Somaiya College of Arts, Commerce and Science.

DEPARTMENT OF COMPUTER SCIENCE

Academic Year: 2021-22

Report

Name of Certificate Course	Computer Hardware and Network		
Date & Duration	4 th April to 23 rd April 2022, 36 Hours		
Name of Faculty	Computer Science		
Number of Participant enrolled	83		
Venue	Department of Computer Science		

Brief Summary of Activity:

Department of Computer Science runs certificate course in Computer Hardware and Network. The objective of the course is to develop skill among the students to acquire basic knowledge in Computer hardware and peripherals for installation. To assemble the PC and trouble shooting and maintenance. To develop skill set, required in network technology. To gain basic knowledge of TCP/IP networks and to understand the internet architecture. The course content is made available to the students. Hon. Principal Dr. B. S Yadav inaugurated this course.

Outcome of the Course:

- 1) Student acquired basic knowledge of computer hardware.
- 2) Students are able to assemble PC, they learn to solve trouble shooting problems in PC.
- 3) Students get good skill about network technology.

HOD
Dept.of Computer Science
K.J. Somaiya College, Kopargaon



K. J. SOMAIYA COLLEGE OF ART'S, COMMERCE AND SCIENCE, KOPARGAON



(Affiliated to Savitribai Phule Pune University)
NAAC re-acrredieated with 'A' Grade An ISO 9001-2015 certified Institute

P NAAC

Best college award by S. P. Pune University

Mohanirajnagar, Kopargaon Dist-Ahmadnagar, 423 601 (Maharashtra)

CERTIFICATE

This is to certify that Mr. /Ms./Mrs
from the class <u>T.Y. B.Sc(C.S.)</u> has successfully completed the course
entitled Computer Hardware and Networks run by Department of
Computer Science conducted between 27/10/2023 & 24/03/2023
He/ She has been awarded with grade.

Course Co-ordinator

HoD, Computer Science

Principal

K. J. Somaiya College of Arts, Commerce and Science.

DEPARTMENT OF COMPUTER SCIENCE

Computer Hardware and Network

Structure, Curriculum and Assessment Procedure-

Kopargaon Taluka Education Society's

K. J. Somaiya College of Arts, Commerce and Science.

NAAC Reaccredited A Grade, DST-FIST Sponsored College

Certificate Course: Computer Hardware and Network

Course Code: CC918

Organized by- Department of Computer Science

Academic Year: 2020-21

HOD

Dept.of Computer Science

K.J.Somaiya College, Kopargaon

Kopargaon Taluka Education Society's K. J. Somaiya College of Arts, Commerce and Science. DEPARTMENT OF COMPUTER SCIENCE

1	Name of Departmen	t i	Computer Science			
2	Title of Course		Computer Hardware and Networking			
3	Course Level		Certificate			
4	Implementation acad	lemic year	Since 2019-2	20		
5	Preamble of Syllabus	3	Concepts of Computer fundamentals Computer Components Networking Devices			
6	Faculty of the Course					
7	Eligibility of Admissi prerequisite		12th Science	Pass		
8	Duration of the Cour	se	3 Months (36 Hours)			
9	Intake capacity of stu	idents	90			
10	Total hours of teaching		36			
11	Pattern of examination					
	Theory exam, Practic	cal and	Theory and practical exam at the end of the course.			
	Teaching Faculty	*				
10	Name of Faculty	Designati	on	Qualification		
12	Mrs. Kote Y.P.	Assistant	Professor	M.Sc. Computer Science		
	Mrs. Kolapkar R.R.	Assistant	Professor M.Sc. Computer Science			
13	Other Facilities		Computer La	boratory, Library		
14	Recommended books		***	•		
	1. Computer Networki	ng: Principl	es, Protocols a	nd Practice by Olivier Bonaventure		
5	2. Let Us C-Yashavant			-		

HOD

Dept of Computer Science
K.J. Somaiya College, Kobargach

Letter to IQAC for seeking permission for the Certificate Course

To,

The Coordinator,

IQAC,

K. J. Somaiya College, Kopargaon.

Subject: Regarding the permission for starting certificate course/Organize seminar/conference/Webinar/Departmental activity in our department...

Respected Sir,

The Department of Computer Science desire to start/organized a certificate course/ Organize seminar/conference/Webinar/Departmental activity in Computer Hardware Webinar/Science to start/organized a certificate course/ Organize seminar/conference/Webinar/Departmental activity in Computer Hardware Webinar/Science desire to start/organized a certificate course/ Organize seminar/conference/Webinar/Departmental activity in Computer Hardware was start/organized a certificate

Name of Activity: Certificate course in Computer Hardware & Hetwerk

Date and time: 21 St Jan 2020 to 22nd march-2021

Venue:

2 2

conference Hall science Bulding

Name of the coordinator/: Prof. Kunjir G.M.

Resource Person Prof. Kusalkar A.A.

Kindly give the permission and thank you and look forward for kind cooperation.

Kungir & M. Yours Sincerely Permission Letter from IQAC for Organizing Programme/Certificate Course From,

The IQAC Coordinator.

K.J. Somaiya College, Kopargaon

To, coordinator

K.J. Somaiya College, Kopargaon

Subject: Permission for organizing/conducting. Certificate

Dear Sir,

As per your letter dated. 181120 ... IQAC grants the permission for following activity.

Name of Activity: Certificate course in computer Hardware &

Date and time:

215 Fan-2020 to 22 march-2020

Venue:

conference Hall (science wing)

Name of the coordinator/: Prof- Kunjir G.m.

Resource Person

Prof. Kusalkar A.A.

You are requested to complete the documentation and submit it to IQAC after Programme with in time limit.

Wish you all the best for Programme.

Thank you.

Yours Sincerely

Prof. Vijay Thange Co-ordinator, IQAC K. J. Somaiya College, Kopargaon

Kopargaon Taluka Education Society's K. J. Somaiya College of Arts, Commerce & Science, Kopargaon

-: Certificate Course:-

Computer Hardware & Networking

Objective of the Course:

- > To train the officials to acquire basic knowledge in computer hardware and peripherals for installation.
- > PC assembly, trouble shooting and maintenance including system management and its backup and to undertake disaster prevention.
- > To develop skill set, currently required in Computer Hardware and Network Technology.
- ➤ Basic knowledge of TCP/IP networks work group.
- > To understand the Internet / Intranet architecture

Syllabus of the Course:

	Computer Hardware				
1	Microprocessor System: Introduction of System overview, Introduction to Processors, Memory Interfacing, Interfacing I/O Devices, Interfacing Data Converters, Display Interface, Serial I/O and Data Communication, Higher level Processors	02			
2	Introduction to PC Architecture Study of PC-AT/ATX System, Pentium, Core, Core 2 Cord, Core 2 Duo, I3, I5, I7 Processor Basics of Processor and CPU, Block Diagram of Computer and Computer Generation Motherboards, Chipset and Controllers, BIOS and the Boot Process, Computer Memory.	02			
3	Internal Components IDE and SATA Devices: Hard Disk Drive and CD/DVDs Drives, SCSI Devices, Floppy Disk, Zip Drive, Backup Drive, Expansion Cards- LAN Card, IDE Card, VGA and SVGA Cards, Sound Card, Interface Cards, I/O cards, Video Cards, USB Card, Fire-Wire Cards, Internal Ports, Cables and Connector Types.	03			
4	External Components Monitors:- CRT, LCD and LED Displays, Printers:- Dot-Matrix Printer, Inkjet Printer, Laser Printer Scanner:- Photo Scanner, Documents Scanner, Bar Cord Scanner	03			

5	Keyboards, Mouse, External Modem, Ports and Connectors, Batteries, Power supply, Pen Drives, SCSI interface devices, Laptop Computers, Digital Advance storage technology.	
5	Network Components Introduction of Network Cable like UTP, STP, Fiber Optics, Hub, Unmanageable Switch, Manageable Switch, Router, Modem, Wi-Fi, Access Point, PCI Wireless Card, USB Wireless Device, Print Server, USB Network Sharer, Backup Device, Server Hardware etc.	03
6	PC debugging, troubleshooting and Maintenance	02
	Computer Networking	
7	Overview of Networking Introduction to networks and networking, LAN, PAN, MAN, WAN, Internet and Intranet etc. Uses and benefits of Network, Server-client based network, peer to peer networks.	03
8	Network Hardware and Components Concept of Server, client, node, segment, backbone, host etc. Analog and Digital transmission, Network Interface Card, Crimping tools and Color standards for Straight crimping and Cross crimping Functions of NIC, Repeaters, Hub, Switches, Routers, Bridges, Router etc.	03
9	Transmission Media and Topologies Media types: STP cable, UTP cable, Coaxial cable, Fiber cable, Base band and Broadband transmission, Cables and Connectors, Physical and logical topologies, Bus, Star, Ring and Mesh topologies	03
10	Protocols and Services HTTP, FTP and other Different types of protocols, OSI Model, Media Access Method, DNS services, DHCP services, WINS services and RAS services, Web services, Proxy Services etc.	03
11	TCP/IP and Sub-netting Introduction about TCP/IP and Sub-nettings, configuring IP address and subnettings with different Routers and Network, TCP/IP Errors and Solutions.	03
Practical	 Study of Internal Components (Hard Disk Drive and CD/DVDs Drives, SCSI Devices) Study of External Components(LCD Monitor, Laser Printer) Study of Network Components(Wi-Fi, Access Point, PCI Wireless Card, USB Wireless Device) Study of PC assembly Study of configuring IP address and subnettings with different Routers and Network Study of HTTP, FTP and other Different types of protocols 	06

HOD

Dept of Computer Science

K.J. Somaiya College, Kopargaon

K.T.E. Society's

K. J. SOMAIYA COLLEGE, KOPARGAON DEPARTMENT OF COMPUTER SCIENCE

Certificate course in

COMPUTER HARDWARE AND NETWORKS

Date: 18/01/2021

Notice

The students of **T.Y.B.Sc.** (Comp. Sci.) are here by informed that, the department will organizing short term course entitled "Computer Hardware & Networking" from 21st January 2021. The course duration will 2 months & it is of 3 credits. The syllabus of course is approved by SPPU, Pune.

The course will be compulsory to all Third Year students. Course completion is based on qualifying examination, which will be held in March 2021. After successful completion of course the students will issue certificate.

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Dept.of Computer Science K.J.Somaiya College,Kopargaon

Kopargaon Taluka Education Society's K. J. Somaiya College of Arts, Commerce & Science, Kopargaon

-: Certificate Course:-

Computer Hardware & Networking

Academic Year: 2020-21

Sr.No.	Student Name
1.	DESHMUKH SWAMINI MANIKRAO
2.	PATHAK SHUBHAM RAVINDRA
3.	ABHALE GANESH CHANDRAKANT
4.	AUTADE RUTUJA NAVNATH
5.	AWARE AARTI DIPAK
6.	AWARE MAYURI SUNIL
7.	BAKALE PRANJAL MAHENDRA
8.	BANKAR ROHINI SAKHAHARI
9.	BHAGWAT KAVERI DADASAHEB
10.	BHANDGE SHRUTIKA VINOD
11.	BHUMKAR SHREYAS CHANDRAKANT
12.	BORNARE MANASI ARUN
13.	CHANDOLE ATHARV PARSHURAM
14.	CHAUDHARI SWAPNALI SAMPATRAO
15.	CHAVAN VAISHNAVI PANDURANG
16.	CHIKANE SHUBHAM ABHIMANYU
17.	DANGE SWATI DINKAR
18.	DHEMBARE SANTOSH ASHOK
19.	DHENAK VISHWADIP RAJENDRA
20.	GAIKWAD PRAJAKTA SOMNATH
21.	GAME SHUBHAM UTTAM
22.	GAVHANE DIVYA CHANGDEO
23.	GAYAKE RUTIKA ARUN
24.	GHORPADE SNEHAL VILAS
25.	GITE SUDARSHAN ANNASAHEB
26.	GODHA PORNIMA AJITKUMAR
27.	GODSE RAMESHWAR KAILAS
28.	JAGTAP PRIYANKA SANTOSH
29.	JAGZAP VIKAS SANJAY
30.	JAPE HRUSHIKESH SATISH
31.	KHALKAR KOMAL SANJAY
32.	KSHIRSAGAR SHUBHAM PUNJARAM

Dept.of Computer Science K.J.Somaiya College,Kopargaon

Computer

K. J. SOMAIYA COLLEGE OF ARTS, COMMERCE AND SCIENCE, KOPARGAON

Question Paper of Certificate Course in Computer Hardware & Networking

Academic Year: 2020-21

Time: 2 Hrs.

Marks: 50

Note: All questions are compulsory. Q1.] Attempt the following Questions.

(5*5=25)

- 1] What is HDD? What are the different types available in market now?
- 2] What is motherboard? What are the different types of it?
- 3 Before upgrading /replacing motherboard what you need to consider?
- 4] How to find the IP address of a website?
- 5] How can you format floppy? What is happening if you do so?

Q2.] Attempt the following Questions.

(5*5=25)

- 1] What are the criteria for the best path selection of a router?
- 2] What is data encapsulation?
- 3] What are the perquisites to configure a server?
- 4] How can you secure a computer network?
- 5] What are proxy servers and how do they protect computer networks?



Kopargaon Taluka Education Society's K. J. Somaiya College of Arts, Commerce & Science, Kopargaon

-: Certificate Course:-

Computer Hardware & Networking Academic Year: 2020-21

Time Table

Course Duration: 21th January 2021 to 22nd March 2021

Time	Monday	Tuesday	Wednesday	Thursday	Friday	Saturday
2.00 pm- 5.00 pm	СН	СН	CN	CN	Practical Batch- A	Practical Batch -B

Subject Teacher:

1. Computer Hardware- Prof. G.M. kunjir

2. Computer Networking: Prof. A.A. Kusalkar

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Dept.of Computer Science K.J.Somaiya College, Kopargaon

Kopargaon Taluka Education Society's K. J. Somaiya College of Arts, Commerce & Science, Kopargaon

-: Certificate Course:-

Computer Hardware & Networking

Academic Year: 2020-21

Attendance List

C. N.	St. J. A. N.	21 Jan	24th Jan	25th Jan	7th Feb	10th Reb	20th Rob	igth mands	13th march	19th maras
Sr.No.	Students Name	2021	2021	2021	2021	2021	2021	2021	2021	2021
1.	Deshmukh Swamini Manikrao	Swinit)	armo	Swaris	surrie	Sucmil	A	Swamid	- Swemi	v sacan
2.	Pathak Shubham Ravindra	patrices.	Porhace	Rathols	- Pethales	Pathoks	Rothars	pathars	Ryhar	r pathaks
3.	Abhale Ganesh Chandrakant	Gancely	Lancolt	Ganesh	Ganesh	A famesha	-Ganeshi	Garas ha	Iranesl	a Garreit
4.	Autade Rutuja Navnath	Autoch	Autacle	Author	.15	er A	Autude	R Auter	- A-	Actorday
5.	Aware Aarti Dipak	Haver	Aarol	Accupies	Molow	Aculous	Acubas		Howard	Aquar
6.	Aware Mayuri Sunil	MAUREL	Macro	Marro	Macurel	MAQUER	MAUCE	e MACO	colopuc	o A
7.	Bakale Pranjal Mahendra	Polijal	botton	bearlos	Deguial	Ptonial	4	Hoobje	Popujo	
8.	Bankar Rohini Sakhahari	-A	Bando_	Banko	Banko	BANDO	Banko.	Bando	Banko	Banko
9.	Bhagwat Kaveri Dadasaheb	RDR	KDB	RDB	KDB	FDB	·A	A.	K.DB	ROB
10.	Bhandge Shrutika Vinod	EXB	8VB	SUB	(FVB	SVB.	A	SUB	SVB 1	SVB
11.	Bhumkar Shreyas Chandrakant	5 Wiles	Meyer	sheeye	1 Chrese	A	8 my	& Stray	Shoeyes	Threyor
12.	Bornare Manasi Arun	BMA	A	BANA	BMA	BNA	BMA	BMA	AMB	PMA

Science Scienc

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Dept.of Computer Satence
C.J.Somalva College, Kopargape

10	T at 11 11			4				4		
13.	Chandole Atharv Parshuram	CAP	- OUP	CAP_	CAP	CAP	CAD	do	ODD-	MO
14.	Chaudhari Swapnali Sampatrao	A	Szc.	GOO	Gre	CC	Spo	CSO	Car	Ca
15.	Chavan Vaishnavi Pandurang	halsh	Imkh	1/1/Ch	Inah	IMISH	11	1 mil	COL	1117
16.	Chikane Shubham Abhimanyu	Cohien	Chican	chiden	du'u	A	reigh	- Voush	cl. Jan	buth
17.	Dange Swati Dinkar	A	1017-70	1			Chican	Chiar	1	e chice
18.	Dhembare Santosh Ashok	Salves	Santo	1 /	-Sunton	Santa	Dange Santos	Nange GUNTED	Santos	
19.	Dhenak Vishwadip Rajendra	(SIR)	(VR)	(VR)	VP	(00)	(VR)			200
20.	Gaikwad Prajakta Somnath	BCI	B G1	861	BG	Br	PC1	(A)	10) (V S
21.	Game Shubham Uttam	24064	ZUG	Suer	8Wh	١١١	201	201 201	BU	BU
22.	Gavhane Divya Changdeo	Divra	Divid	Divia	Dina	DWA			SUG	8001
23.	Gayake Rutika Arun	RAG	ROG	- RAG	- RAG	- 715 V		D'Ma	Divid	Divad
24.	Ghorpade Snehal Vilas	Shehal	arehal	Brehal	snehol where	SHEW	PAG	<u>RAG</u> Snaral	- RAG Snehal	RAG
25.	Gite Sudarshan Annasaheb	SAG	SAGI	SAG	THE SECOND		0'00			4
26.	Godha Pornima Ajitkumar			A CONTRACTOR OF THE PARTY OF TH	SAG	BAG	SAG	SAG	SAG	SAG
27.	Godse Rameshwar Kailas	100	2	Allow (1)100	PAILE !	Wita.	Philita	Mile 1	Ajika
28.	Jagtap Priyanka Santosh	600	1	10		100	1	-		
29.	Jagzap Vikas Sanjay	102	VSÎ.	100	0000		JPS -	145>	25	JS.
30.	Jape Hrushikesh Satish	Soulist	satish	VSJ	NOD.	V5)	-#	V5]	- 4	Vs j
31.	Khalkar Komal Sanjay		1.10.9	5 culish	soutish to the	deilease	datus	3 which	antap	Satist
32.	Kshirsagar Shubham Punjaram	P. Phalber	Kikhaltao	Kichalaa	pphalms	D. Rhallos	A	k, Khalkoz	K Khalkas	A
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Dept.of Computer Science
K.J.Somaiya College, Kopargaoa

Kopargaon Taluka Education Society's K. J. Somaiya College of Arts, Commerce & Science, Kopargaon

-: Certificate Course:-

Computer Hardware & Networking Academic Year: 2020-21 Marks List

Sr.No.	Students Name	Marks (50)
1.	Deshmukh Swamini Manikrao	36
2.	Pathak Shubham Ravindra	40
3.	Abhale Ganesh Chandrakant	39
4.	Autade Rutuja Navnath	40
5.	Aware Aarti Dipak	41
6.	Aware Mayuri Sunil	43
7.	Bakale Pranjal Mahendra	45
8.	Bankar Rohini Sakhahari	42
9.	Bhagwat Kaveri Dadasaheb	38
10.	Bhandge Shrutika Vinod	39
11.	Bhumkar Shreyas Chandrakant	40
12.	Bornare Manasi Arun	42
13.	Chandole Atharv Parshuram	37
14.	Chaudhari Swapnali Sampatrao	36
15.	Chavan Vaishnavi Pandurang	35
16.	Chikane Shubham Abhimanyu	40
17.	Dange Swati Dinkar	42
18.	Dhembare Santosh Ashok	43
19.	Dhenak Vishwadip Rajendra	45
20.	Gaikwad Prajakta Somnath	47
21.	Game Shubham Uttam	40
22.	Gavhane Divya Changdeo	41
23.	Gayake Rutika Arun	38
24.	Ghorpade Snehal Vilas	37
25.	Gite Sudarshan Annasaheb	32
26.	Godha Pornima Ajitkumar	40
27.	Godse Rameshwar Kailas	42
28.	Jagtap Priyanka Santosh	45
29.	Jagzap Vikas Sanjay	47
30.	Jape Hrushikesh Satish	45
31.	Khalkar Komal Sanjay	42
32.	Kshirsagar Shubham Punjaram	35

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Dept.of Computer Science K.J.Spmaiya College, Kopargson

K. J. Somaiya College of Arts, Commerce and Science.

DEPARTMENT OF COMPUTER SCIENCE

Academic Year: 2020-21

Report

Computer Hardware and Network
21 st Jan 2021 to 21 st Mar 2021, 36 Hours
Computer Science
32
Department of Computer Science

Brief Summary of Activity:

Department of Computer Science runs certificate course in Computer Hardware and Network. The objective of the course is to develop skill among the students to acquire basic knowledge in Computer hardware and peripherals for installation. To assemble the PC and trouble shooting and maintenance. To develop skill set, required in network technology. To gain basic knowledge of TCP/IP networks and to understand the internet architecture. The course content is made available to the students. Hon. Principal Dr. B. S Yadav inaugurated this course.

Outcome of the Course:

- 1) Student acquired basic knowledge of computer hardware.
- 2) Students are able to assemble PC, they learn to solve trouble shooting problems in PC.
- 3) Students get good skill about network technology.

Dept.of Computer Science
K.J.Somaiya College, Kopargaon

K. J. Somaiya College of Arts, Commerce and Science.

DEPARTMENT OF COMPUTER SCIENCE

Computer Hardware and Network

Structure, Curriculum and Assessment Procedure-

Kopargaon Taluka Education Society's

K. J. Somaiya College of Arts, Commerce and Science.

NAAC Reaccredited A Grade, DST-FIST Sponsored College

Certificate Course: Computer Hardware and Network

Course Code: CC918

Organized by- Department of Computer Science

Academic Year: 2019-20

Dept of Computer Science

Swallow A. A.

K.J.Somaiya College, Kopargaon

K. J. Somaiya College of Arts

Commerce & Science, Kopargaon

Kopargaon Taluka Education Society's K. J. Somaiya College of Arts, Commerce and Science. DEPARTMENT OF COMPUTER SCIENCE

	Computer Networking: Principles, Protocols and Practice by Olivier Bonaventure Let Us C-Yashavant P. Kanetkar					
14	Recommended books			41		
13	Other Facilities		Computer La	boratory, Library		
	Mr. Kunjir G.M.	Assistant	Professor M.Sc. Computer Scie			
14	Mrs. Kusalkar A.A.	Assistant	Professor	M.Sc. Computer Science		
12	Name of Faculty	Designation	on	Qualification		
	Teaching Faculty			-10		
	Theory exam, Practic	cal and	Theory and practical exam at the end of the course.			
11	Pattern of examination	on, if any				
10	Total hours of teachi	ng	36			
9	Intake capacity of stu	idents	90			
8	Duration of the Cour	·se	3 Months (36 Hours)			
7	Eligibility of Admissi prerequisite	on and	12 th Science	Pass		
6	Faculty of the Cours		Science			
5	Preamble of Syllabus	S	 Concepts of Computer fundamentals Computer Components Networking Devices 			
4	Implementation acad	lemic year	Since 2019-2			
3	Course Level		Certificate			
2	Title of Course			ardware and Networking		
1	Name of Departmen	t	Computer Science			

HOD

Dept of Computer Science

K.J. Somaiya College, Kopargang

Letter to IQAC for seeking permission to conduct energy audit

To,

The Coordinator,

IQAC,

K. J. Somaiya College, Kopargaon.

Subject: Regarding the permission to conduct Certificate Course Respected sir,

Please sanction the permission to conduct certificate course

Name of Activity	certificate course
Proposed Date & Time	27 Nov. 2019
Venue	class Room
Name of Coordinator	Prof. Kunjir G.M.

Kindly give the permission and thank you and looking for kind cooperation.

Yours Sincerely,

Permission Letter from IQAC for Organizing Programme

From,

The IQAC Coordinator,

K. J. Somaiya College, Kopargaon.

To,

The Coordinator,

Certificate Course

K. J. Somaiya College, Kopargaon.

Subject: Permission for conducting Certificate Course

As per your letter dated 25 Nev-13 to IQAC. Grants the permission for following activity

Name of Activity	Certificate course				
Proposed Date & Time	27 Nov. 2019				
Venue	Class Room				
Name of Coordinator	Prof. Kunsir G.M.				

You are requested to complete the documentation and submit it to IQAC after Programme within five working days. Wish you all the best for Programme. Thank you

Yours Sincerely,

Co-ordinator, IQAC
K. J. Somalya College, Kopargaon

Kopargaon Taluka Education Society's K. J. Somaiya College of Arts, Commerce & Science, Kopargaon

-: Certificate Course:-

Computer Hardware & Networking

Objective of the Course:

- > To train the officials to acquire basic knowledge in computer hardware and peripherals for installation.
- > PC assembly, trouble shooting and maintenance including system management and its backup and to undertake disaster prevention.
- > To develop skill set, currently required in Computer Hardware and Network Technology.
- ➤ Basic knowledge of TCP/IP networks work group.
- > To understand the Internet / Intranet architecture

Syllabus of the Course:

	Computer Hardware	No. of Lectures
1	Microprocessor System: Introduction of System overview, Introduction to Processors, Memory Interfacing, Interfacing I/O Devices, Interfacing Data Converters, Display Interface, Serial I/O and Data Communication, Higher level Processors	02
2	Introduction to PC Architecture Study of PC-AT/ATX System, Pentium, Core, Core 2 Cord, Core 2 Duo, I3, I5, I7 Processor Basics of Processor and CPU, Block Diagram of Computer and Computer Generation Motherboards, Chipset and Controllers, BIOS and the Boot Process, Computer Memory.	02
3	Internal Components IDE and SATA Devices: Hard Disk Drive and CD/DVDs Drives, SCSI Devices, Floppy Disk, Zip Drive, Backup Drive, Expansion Cards- LAN Card, IDE Card, VGA and SVGA Cards, Sound Card, Interface Cards, I/O cards, Video Cards, USB Card, Fire-Wire Cards, Internal Ports, Cables and Connector Types.	03
4	External Components Monitors:- CRT, LCD and LED Displays, Printers:- Dot-Matrix Printer, Inkjet Printer, Laser Printer Scanner:- Photo Scanner, Documents Scanner, Bar Cord Scanner	03

*	Keyboards, Mouse, External Modem, Ports and Connectors, Batteries, Power supply, Pen Drives, SCSI interface devices, Laptop Computers, Digital Advance storage technology.	
5	Network Components Introduction of Network Cable like UTP, STP, Fiber Optics, Hub, Unmanageable Switch, Manageable Switch, Router, Modem, Wi-Fi, Access Point, PCI Wireless Card, USB Wireless Device, Print Server, USB Network Sharer, Backup Device, Server Hardware etc.	03
6	PC debugging, troubleshooting and Maintenance	02
	Computer Networking	
7	Overview of Networking Introduction to networks and networking, LAN, PAN, MAN, WAN, Internet and Intranet etc. Uses and benefits of Network, Server-client based network, peer to peer networks.	03
8	Network Hardware and Components Concept of Server, client, node, segment, backbone, host etc. Analog and Digital transmission, Network Interface Card, Crimping tools and Color standards for Straight crimping and Cross crimping Functions of NIC, Repeaters, Hub, Switches, Routers, Bridges, Router etc.	03
9	Transmission Media and Topologies Media types: STP cable, UTP cable, Coaxial cable, Fiber cable, Base band and Broadband transmission, Cables and Connectors, Physical and logical topologies, Bus, Star, Ring and Mesh topologies	03
10	Protocols and Services HTTP, FTP and other Different types of protocols, OSI Model, Media Access Method, DNS services, DHCP services, WINS services and RAS services, Web services, Proxy Services etc.	03
11	TCP/IP and Sub-netting Introduction about TCP/IP and Sub-nettings, configuring IP address and subnettings with different Routers and Network, TCP/IP Errors and Solutions.	03
Practical	Study of Internal Components (Hard Disk Drive and CD/DVDs Drives, SCSI Devices) Study of External Components(LCD Monitor, Laser Printer) Study of Network Components(Wi-Fi, Access Point, PCI Wireless Card, USB Wireless Device) Study of PC assembly Study of configuring IP address and subnettings with different Routers and Network Study of HTTP, FTP and other Different types of protocols	06

HOD
Dept of Computer Science
K.J.Somaiya Coulette Konargaon

K.T.E. Society's

K. J. SOMAIYA COLLEGE, KOPARGAON **DEPARTMENT OF COMPUTER SCIENCE**

Certificate course in

COMPUTER HARDWARE AND NETWORKS

Date: 24/11/2019

Notice

The students of **T.Y.B.Sc.** (Comp. Sci.) Are here by informed that, the department will organizing short term course entitled "Computer Hardware & Networking" from 27st November 2019. The course duration will 2 months & it is of 3 credits. The syllabus of course is approved by SPPU, Pune.

The course will be compulsory to all Third Year students. Course completion is based on qualifying examination, which will be held in February 2020. After successful completion of course the students will issue certificate.

HOD

Dept. of Computer Science K.J. Something Marganet

Kopargaon Taluka Education Society's K. J.Somaiya College of Arts, Commerce & Science, Kopargaon

-: Certificate Course:-

Computer Hardware & Networking Academic Year: 2019-2020

List of Students:

Sr. No.	Name of Students
1	Shinde Sameer R.
2	Nawale Pratik S.
3	KhakaleRushikesh D.
4	Deokar Mahesh R.
5	JadhavKrushna S.
6	AutadeSourabh S.
7	Jadhav Aditya D.
8	JadhavKunal C.
9	PangavhaneKrushna S
10	DeshmukhAniket M.
11	Kale Omkar D.
12	NikamHarshad D.
13	Habib Anuja A.
14	DeokarSampada V.
15	Salve Shweta S.
16	AwareeSailee S.
17	UnhaleSharada B.
18	Kale Vaijayanti P.
19	ChandgudeRutuja D.

HOU Dept.of Computer K.J Sornasys Conege,



KukkarVaibhavi	\$12.
BhokareDevyani	
ChavanMayuri	
WalturePrity	
More Priyanka	
AvhadShital	
Kulkarni Snehal	(4
KhatkaleKomal	
UnhaleSharada	
Mali Kunal	
NikaleHrutik	
	BhokareDevyani ChavanMayuri WalturePrity More Priyanka AvhadShital Kulkarni Snehal KhatkaleKomal UnhaleSharada Mali Kunal

HOD

Dept.of Computer Science
K.J.Somaiya College, Kopargaon

26/0



Kopargaon Taluka Education Society's K. J. Somaiya College of Arts, Commerce & Science, Kopargaon

-: Certificate Course:-

Computer Hardware & Networking Academic Year: 2019-2020

Time Table

Course Duration: 27th Nov 2019 to 28 January 2020

Time	Monday	Tuesday	Wednesday	Thursday	Friday	Saturday
2:00 pm- 5:00 pm	СН	СН	CN	CN	Practical Batch- A	Practical Batch -B

Subject Teacher:

1. Computer Hardware- Prof. G.M. Kunjir

2. Computer Networking: Prof. A.A. Kusalkar

Dept.of Computer Science
K.J.Somaiya College, Kopargaon

Kopargaon Taluka Education Society's K. J. Somaiya College of Arts, Commerce & Science, Kopargaon



-: Certificate Course:-

Computer Hardware & Networking Academic Year: 2019-2020

Attendance List

		and the same of th				Water State of the Control of the Co				THE STATE OF THE S		
Sr. No.	Name of Students	15 Dec 2019	17th Dec 2019	19 thec 2019	26th Dec 2019	3rd Jan	5th Jan 2019	2020	12th gan	23 gen	24th Jun 2020	27 Jan 2020
1	Shinde Sameer R.	Shinde	Chinde	Shinde	Shinde	Shinde	Shinde	Chinde	Shinde		Shinde	Shind
2	Nawale Pratik S.	035	PS	MPS	NPS	NPS_	NAS	NPS	12195	NPS	145	NB
3	Khakale Rushikesh D.	KRD.	KRD	KRD	KRD	KRD	KRD	KRD	KRD	KRD	KRD	KRD
4	Deokar Mahesh R.	(DMB)	DMR	DMR	DAIR	DMB	THE	DIMB	SMR	DMR	2MB	4
5	Jadhav Krushna S.	Jadhar	Jachur	Jackhar	A Same and A	1 1 1	Todher	Terdher	- T	Jacky	CA	Xidhel
6	Autade Sourabh S.	Socraph	Sawahn	Socrabo	Sourabh	- 80 und	Barrabl	Sound	Sounder	- 1	Sourabb	sourably
7	Jadhav Aditya D.	JAO	JAO	JAO	JAO	IND	TAD	JA2	JAD	THE	THO	JAD
8	Jadhav Kunal C.	Kunalcj	Kunabi	Kundû	Kynalog	kunalci	Kunaki	Kymelej	kunalij	tunalej	Kunalós	- Kunaloj
9	Pangavhane Krushna S	KSP	KSP	KSP	KSP-	KSP	KSP	KSP.	KSP.	KSP	188P	1CSP
10	Deshmukh Aniket M.	Du	ADM	DM	AM	AM	DM	(B)M	AM	A)M	EAM	AM.
11	Kale Omkar D.	K00	KOD	K02	KOD	- KOD	KOD	- <u>K</u> 00	too	KOD	10D	کوم
12	Nikam Harshad D.	MD	MAD	と古	NHD	MD	MP	NHD	NHD	MID	MD	MD.

	á				É							
13	Habib Anuja A.	Anu	Anu	Anu	Any	Any	Any	ADY-	Any	A	A	Any
14	Deokar Sampada V.	DEV	280	205V_	2001	280	DSV	281	281	251	2081	2081/
15	Salve Shweta S.	6.5. 60M	s.s.salm	D S. Sulve	5.8.901	S.S.salve	S.S. solve	35.Salve	s.s.sahr	S. S. Salve	S.S. Sedr	ssake
16	Awaree Sailee S.	sile	soilee	Suilee	A	Sailee	Soules	Suiles	3 ailer	Saiky	Scilog	Sailer
17	Unhale Sharada B.	(F)	5	(A)	0	EL.	(3)	BU	(3)	(A)	SEV	A
18	Kale Vaijayanti P.	Kala	Fale	Fale	Kale	Pale	Fale	Role	Isole	Role	Rale	(Kale
19	Chandgude Rutuja D.	1B	1B	A	R	R	限	IR.	IR.	B	R	IB.
20	Kukkar Vaibhavi	MK	Me	SAR.	ME	NB	Ms	OVE	Me	SIR	DR	WB.
21	Bhokare Devyani	Devon	Donton	Devyini	Dontani	Dartani	Demai	Deveni	Devian	A-	Devad	Despuis
22	Chavan Mayuri	Mayuri	Congrat	Congression	Carana,	Manun	- Groyusi	(Produti	Mayuoi	Mayuz	Celadra	(Haylo)
23	Walture Prity	Poits	Prity	Pait	Poits	Pools	Pair	Poit	Pait	Poin	A	Pail
24	More Priyanka	West	Woest	Word	Woeeb	MOSCA	Woeb	Lepseb	A.	MOGEP	Moses	week
25	Avhad Shital	由	20	An	84	84	Sh	Sh	8	8	Sh	Sh
26	Kulkarni Snehal	Kuls	-Kuls	kcels.	Kuls	- Kils	kulo	keels	Kuls	Kuls	Kuls	Kals
27	Khatkale Komal	Komal	prosonal	roma	romal	Kornoul	Kanal	romal	toonal	romal	formal	Komal
28	Unhale Sharada	aprile	amb	Cedrulo	Of L	anhale	A	Colable	Ontredo	Whall	Contide	
29	Mali Kunal	Anali	Concli	1		Kanal	Kanadi	Kondi	Bull	Kongli	Kohali	Kondi
30	Nikale Hrutik	HA	HAY	TH	TIM	HM	FM	THI	TIN	HILL	HIL	HM
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Dept. of Computer Science
K.J. Sornaiya College, Konarcaon

K. J. SOMAIYA COLLEGE OF ARTS, COMMERCE AND SCIENCE, KOPARGAON Question Paper of Certificate Course in Computer Hardware & Networking Academic Year: 2019-20

Marks: 50 Time: 2 Hrs. Note: All questions are compulsory. (5*5=25)Q1.] Attempt the following Questions. 1] How do you secure a computer network? 2] What does HTTP mean? 3] What is an IP address? 4] What is Network Cabling? 5] What is a 'subnet'? (5*5=25)

Q2.] Attempt the following Questions.

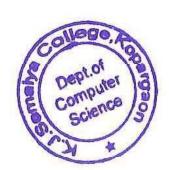
1] What Are The Layers Of The OSI Reference Model?

2] What Are The Difference Between Domain And Work Group?

3] What Are The Difference Between Hub And Switch?

4] What Is Proxy Server?

5] What Do You Meant By "triple X" In Networks?



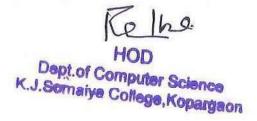
Kopargaon Taluka Education Society's K. J. Somaiya College of Arts, Commerce & Science, Kopargaon

-: Certificate Course:-

Computer Hardware & Networking Academic Year: 2019-2020

Marks List

Sr. No.	Name of Students	Marks (50)			
1	Shinde Sameer R.	40			
2	Nawale Pratik S.	42			
3	Khakale Rushikesh D.	40			
4	Deokar Mahesh R.	43			
5	Jadhav Krushna S.	39			
6	Autade Sourabh S.	40			
7	Jadhav Aditya D.	42			
8	Jadhav Kunal C.	44			
9	Pangavhane Krushna S	45			
10	Deshmukh Aniket M.	40			
11	Kale Omkar D.	38			
12	Nikam Harshad D.	37			
13	Habib Anuja A.	40			
14	Deokar Sampada V.	42			
15	Salve Shweta S.	39			
16	Awaree Sailee S.	35			
17	Unhale Sharada B.	42			
18	Kale Vaijayanti P.	38			
19	Chandgude Rutuja D.	43			
20	Kukkar Vaibhavi	40			
21	Bhokare Devyani	42			
22	Chavan Mayuri	44			
23	Walture Prity	45			
24	More Priyanka	41			
25	Avhad Shital	39			
26	Kulkarni Snehal	40			
27	Khatkale Komal	34			
28	Unhale Sharada	38			
29	Mali Kunal	40			
30	Nikale Hrutik	39			





K. J. Somaiya College of Arts, Commerce and Science.

DEPARTMENT OF COMPUTER SCIENCE

Academic Year: 2019-20

Report

Name of Certificate Course	Computer Hardware and Network		
Date & Duration	27 th Nov 2019 to 28 th Jan 2020, 36 Hours		
Name of Faculty	Computer Science		
Number of Participant enrolled	30		
Venue	Department of Computer Science		

Brief Summary of Activity:

Department of Computer Science runs certificate course in Computer Hardware and Network. The objective of the course is to develop skill among the students to acquire basic knowledge in Computer hardware and peripherals for installation. To assemble the PC and trouble shooting and maintenance. To develop skill set, required in network technology. To gain basic knowledge of TCP/IP networks and to understand the internet architecture. The course content is made available to the students. Hon. Principal Dr. B. S Yadav inaugurated this course.

Outcome of the Course:

- 1) Student acquired basic knowledge of computer hardware.
- 2) Students are able to assemble PC, they learn to solve trouble shooting problems in PC.
- 3) Students get good skill about network technology.

Dept of Computer Science
K.J.Somaiya College, Kopargaon

Principal

K. J. Somaiya College of Arts
Commerce & Science, Kopargaon

K. J. Somaiya College of Arts, Commerce and Science.

DEPARTMENT OF COMPUTER SCIENCE

Computer Hardware and Network

Structure, Curriculum and Assessment Procedure-

Kopargaon Taluka Education Society's

K. J. Somaiya College of Arts, Commerce and Science.

NAAC Reaccredited A Grade, DST-FIST Sponsored College

Certificate Course: Computer Hardware and Network

Course Code: CC918

Organized by- Department of Computer Science

Academic Year: 2018-19

Kopargaon Taluka Education Society's K. J. Somaiya College of Arts, Commerce and Science. DEPARTMENT OF COMPUTER SCIENCE

Title of Course Course Level					
Course Level		Computer	Computer Science Computer Hardware and Networking		
		Certificate	and Networking		
Implementation aca	demic year	Since 2018-	19		
Preamble of Syllabus		Concepts of Computer fundamentals Computer Components			
Faculty of the Cours	e		ig Devices		
Eligibility of Admission and		LIFE CONTROL OF THE PARTY OF TH	Pass		
Duration of the Cour	'se	3 Months (36 Hours)			
C-U-	ALVERTAGE TO THE PARTY OF THE P				
Total hours of teachi	ng				
Pattern of examination	on, if any	130			
Theory exam, Practic exercises	cal and	Theory and practical exam at the end of the			
Teaching Faculty		course.			
Name of Faculty	Designation	on	Qualification		
Mrs. Kusalkar A.A.			M.Sc. Computer Science		
Mr. Kunjir G.M.		The state of the s	M.Sc. Computer Science		
Other Facilities	The state of the s		aboratory Library		
Recommended books					
1. Computer Networking: Principles, Protocols and Practice by Olivier Repayanture					
	Faculty of the Cours Eligibility of Admissiprerequisite Duration of the Cours Intake capacity of sta Total hours of teaching Pattern of examination Theory exam, Practice exercises Teaching Faculty Name of Faculty Mrs. Kusalkar A.A. Mr. Kunjir G.M. Other Facilities Recommended books 1. Computer Networking	Faculty of the Course Eligibility of Admission and prerequisite Duration of the Course Intake capacity of students Total hours of teaching Pattern of examination, if any Theory exam, Practical and exercises Teaching Faculty Name of Faculty Name of Faculty Mrs. Kusalkar A.A. Assistant Mr. Kunjir G.M. Assistant Other Facilities Recommended books 1. Computer Networking: Principle	Freamble of Syllabus 2. Computer 3. Networking Faculty of the Course Eligibility of Admission and prerequisite Duration of the Course Intake capacity of students Total hours of teaching Pattern of examination, if any Theory exam, Practical and exercises Teaching Faculty Name of Faculty Name of Faculty Mrs. Kusalkar A.A. Assistant Professor Mr. Kunjir G.M. Assistant Professor Other Facilities Computer La		

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Dept.of Computer Science
K.J.Somaiya College,Kopargaon

K. J. Somaiya College of Arts
Commerce & Science, Kopargaon

Kopargaon Taluka Education Society's K. J. Somaiya College of Arts, Commerce & Science, Kopargaon

-: Certificate Course:-

Computer Hardware & Networking

Objective of the Course:

- > To train the officials to acquire basic knowledge in computer hardware and peripherals for installation.
- > PC assembly, trouble shooting and maintenance including system management and its backup and to undertake disaster prevention.
- > To develop skill set, currently required in Computer Hardware and Network Technology.
- ➤ Basic knowledge of TCP/IP networks work group.
- > To understand the Internet / Intranet architecture

Syllabus of the Course:

	Computer Hardware	No. of Lectures
1	Microprocessor System: Introduction of System overview, Introduction to Processors, Memory Interfacing, Interfacing I/O Devices, Interfacing Data Converters, Display Interface, Serial I/O and Data Communication, Higher level Processors	02
2	Introduction to PC Architecture Study of PC-AT/ATX System, Pentium, Core, Core 2 Cord, Core 2 Duo, I3, I5, I7 Processor Basics of Processor and CPU, Block Diagram of Computer and Computer Generation Motherboards, Chipset and Controllers, BIOS and the Boot Process, Computer Memory.	02
3	Internal Components IDE and SATA Devices: Hard Disk Drive and CD/DVDs Drives, SCSI Devices, Floppy Disk, Zip Drive, Backup Drive, Expansion Cards- LAN Card, IDE Card, VGA and SVGA Cards, Sound Card, Interface Cards, I/O cards, Video Cards, USB Card, Fire- Wire Cards, Internal Ports, Cables and Connector Types	03
4	External Components Monitors:- CRT, LCD and LED Displays, Printers:- Dot-Matrix Printer, Inkjet Printer, Laser Printer Scanner:- Photo Scanner, Documents Scanner, Bar Cord Scanner	03

	Keyboards, Mouse, External Modem, Ports and Connectors, Batteries, Power supply, Pen Drives, SCSI interface devices, Laptop Computers, Digital Advance storage technology.				
5	Network Components Introduction of Network Cable like UTP, STP, Fiber Optics, Hub, Unmanageable Switch, Manageable Switch, Router, Modem, Wi-Fi, Access Point, PCI Wireless Card, USB Wireless Device, Print Server, USB Network Sharer, Backup Device, Server Hardware etc.	03			
6	PC debugging, troubleshooting and Maintenance	02			
•	Computer Networking				
7	Overview of Networking Introduction to networks and networking, LAN, PAN, MAN, WAN, Internet and Intranet etc. Uses and benefits of Network, Server-client based network, peer to peer networks.	03			
8	Network Hardware and Components Concept of Server, client, node, segment, backbone, host etc. Analog and Digital transmission, Network Interface Card, Crimping tools and Color standards for Straight crimping and Cross crimping Functions of NIC, Repeaters, Hub, Switches, Routers, Bridges, Router etc.	03			
9	7 Transmission Media and Topologies Media types: STP cable, UTP cable, Coaxial cable, Fiber cable, Base band and Broadband transmission, Cables and Connectors, Physical and logical topologies, Bus, Star, Ring and Mesh topologies				
10 .	Protocols and Services HTTP, FTP and other Different types of protocols, OSI Model, Media Access Method, DNS services, DHCP services, WINS services and RAS services, Web services, Proxy Services etc.	03			
11	TCP/IP and Sub-netting Introduction about TCP/IP and Sub-nettings, configuring IP address and subnettings with different Routers and Network, TCP/IP Errors and Solutions.	03			
Practical	Study of Internal Components (Hard Disk Drive and CD/DVDs Drives, SCSI Devices) Study of External Components(LCD Monitor, Laser Printer) Study of Network Components(Wi-Fi, Access Point, PCI Wireless Card, USB Wireless Device) Study of PC assembly Study of configuring IP address and subnettings with	06			
	different Routers and Network 6. Study of HTTP, FTP and other Different types of protocols				

HOD.

Dept.of Computer Science K.J.Somaiya College,Kopargaon Principal

K. J. Somaiya College of Arts

Commerce & Science, Kopargaon

DEPARTMENT OF COMPUTER SCIENCE

Letter to IQAC for seeking permission for the Short-term Certificate Course To,

The Coordinator,

IQAC,

K. J. Somaiya College, Kopargaon.

Subject: Regarding the permission for organizing Short-term Certificate course.

Respected sir,

The Department of Computer Science desire to organize short-term course in our department for developing the skills of our students.

Name of Activity	Certificate course on Computer Hardware and Networking	
Proposed Date & Time	Academic year 2018-19 (Semester V & VI)	
Venue	Classroom no. 46, Science building	
Name of Coordinator	Prof. Kusalkar A.A Department of Computer Science	

Kindly give the permission and thank you and looking for kind cooperation.

Yours Sincerely,

Course Coordinator

HOD
Dept.of Computer Science
K.J.Somaiya College, Kopargaon

K.T.E. Society's

K. J. SOMAIYA COLLEGE, KOPARGAON **DEPARTMENT OF COMPUTER SCIENCE**

Certificate course in

COMPUTER HARDWARE AND NETWORKS

Date: 18/01/2019

Notice

The students of **T.Y.B.Sc.** (Comp. Sci.) are here by informed that, the department will organizing short term course entitled "Computer Hardware & Networking" from 21st January 2019 to 22nd March 2019. The course duration will 3 months & it is of 3 credits. The syllabus of course is approved by SPPU, Pune.

The course will be compulsory to all Third Year students. Course completion is based on qualifying examination, which will be held in April 2019. After successful completion of course the students will issue certificate.

Course Coordinator

Dept.of Computer Science
K.J.Somaiya College, Kopargaon

K. J. Somaiya College of Arts

K. J. SOMAIYA COLLEGE, KOPARGAON

DEPARTMENT OF COMPUTER SCIENCE

(Estd. - UG-2010, PG-2016)

COMPUTER HARDWARE AND NETWORKS

Time Table (2018-2019)

Course Duration: 21st January 2019 to 22nd March 2019

Time	Monday	Tuesday	Wednesday	Thursday	Friday	Saturday
2.00 pm- 5.00 pm	СН	СН	CN	CN	Practical Batch- A	Practical Batch -B

Subject Teacher:

1. Computer Hardware- Prof. Kusalkar A.A.

2. Computer Networking: Prof. Kunjir G.M.

(o-ordinator

Dept.of Computer Science K.J.Somaiya College,Kopargaon Principal

K. J. Somaiya College of Arts

Commerce & Science Kopargaon

Kopargaon Taluka Education Society's K. J. Somaiya College of Arts, Commerce & Science, Kopargaon

-: Certificate Course:-

Computer Hardware & Networking Academic Year: 2018-19

Sr. No.	Name Of students
1.	Sayyad Moin Mansurali
2.	Deokar Rushikesh Sampat
3.	Gaikwad Somnath Sopan
4.	Thorat Sourabh Vishnu
5.	Autade Akshay Sunil
6.	Abhale Shriram Raosaheb
7.	Abhale Sachin Rajendra
8.	Ugale Akshay Bhausaheb
9.	Pote Sandip Madhukar
10.	Tambe Vaishnavi Shriram
11.	Dome shital Rajendra
12.	Borbane Rani Balasaheb
13.	Shraddha Ashok Petkar
14.	Wakhare Prajakta Rajendra
15.	Sontakke Swarupa Vilas
16.	Dange Pratiksha Ramnath
17.	Sasane Sneha Swapnil
18.	Mate Rajashri Arjun
19.	Khilari Rutuja Balasaheb

20.	Kulkarni Mansi Swapnil	
21.	Wakhare Jayashri Manik	
22.	Bhagwat Pooja Rajendra	
23.	Takate Shubhangi Sampat	
24.	Dome Shital Rajendra	
25.	Waghule Sejal Sanjay	
26.	Ghule Pallavi Balasaheb	
27.	Bhatmule Shraddha Anil	
28.	Adhav Pooja	
29.	Turkane Megha	
30.	Pote Sandip Madhukar	

Relha

Dept.of Computer Science
K.J.Somaiya College,Kopargaora

Principal

K. J. Somaiya College of Arts

Commerce & Science, Kopargaon

Kopargaon Taluka Education Society's K. J. Somaiya College of Arts, Commerce & Science, Kopargaon

-: Certificate Course:-

Computer Hardware & Networking Academic Year: 2018-19

Sr. Vo.	Name of students	1/2/2019	2/2/2019	22/2/2019	23/2/2019	25/2/19	उद्याप	8/3/2018	9/3/2019	1 15/3/2019	16312019	22/2/21
1.	Sayyad Moin Mansurali	Smm	C								10,0,0	23/3/2014
2.	Deokar Rushikesh Sampat		Smm	Smm	Shun	Smm	Smm	Show	Swm	Smm	Chan	
2		Dellar	neckon	beokone	Deckark	Devkork	Deokark				Smy	Smo
3.	Gaikwad Somnath Sopan	Sgarkwed	Ä	Speakurs				1 000	Deokon	DeokerR	Devkork	DeokarR
4.	Thorat Sourabh Vishnu	SUTHERE	1.00	13.4	30 ,	90	20	A	Sgarkwar.	Sperkners	Sgarkuer	Sgarkner.
5.	Autade Akshay Sunil		Swithond	SUThornel	Sythonad	Sthough	Syrhoral	sughered	Suthoral	support	-0	-0
		AufaleA	Autoden	Autodes	Aufadel	Aufaden	AwadeA	Autaber			SITHORU	Suthord
6.	Abhale Shriram Raosaheb	Sabahe	SALLALE	SAbhall	SALhele	27 M M	Brest	protection (ADA)	AutadeA	Audadem	Autaben	AutadeA
7.	Abhale Sachin Rajendra			2 - March	SHETTO	Sphilale		Stibale	SAbalak	sphale	SABhale	Later Control of the
3.	Ugale Akshay Bhausaheb		ploales	Abhâles	A	Abhales	Abhales	Abheles	Abhales	A	MILL	
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Dept.of Computer Science K.J.Somaiya College,Kopargaon Principal
K. J. Somaiya College of Arts
Commerce & Science, Kopargaon

K. J. SOMAIYA COLLEGE OF ARTS, COMMERCE AND SCIENCE, KOPARGAON

<u>Question Paper of Certificate Course in Computer Hardware &</u>

Networking

Academic Year: 2018-19

Time: 2 Hrs.

Marks: 50

Note: All questions are compulsory.

Q1.] Attempt the following Questions.

(5*5=25)

- 1] What is Network Topology?
- 2] What are 'client' and 'server' in a network?
- 3] What is a 'frame relay' and in which layer does it operate?
- 4] What is a MAC address?
- 5] What is an IP address?

Q2.] Attempt the following Questions.

(5*5=25)

- 1] What Is Cache Memory? What Is The Advantage If A Processor With More Cache Memory You Are Using?
- 2] What Is Hyper Threading? What is the use of it?
- 3] Differentiate Serial and Parallel port?
- 4] What are the factors affecting on speed of microprocessor?
- 5] Draw the hierarchical classification of the computer?



Kopargaon Taluka Education Society's K. J. Somaiya College of Arts, Commerce & Science, Kopargaon

-: Certificate Course:-

Computer Hardware & Networking Academic Year: 2018-19

Marks List

*	Sr. No.	Name of students	Marks (Out of 50)
	1.	Sayyad Moin Mansurali	
	2.	Deokar Rushikesh Sampat	32
	3.	Gaikwad Somnath Sopan	36
	4.	Thorat Sourabh Vishnu	37
	5.	Autade Akshay Sunil	39
	6.	Abhale Shriram Raosaheb	35
Principal	7.	Abhale Sachin Rajendra	38
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	11.	Dome shital Rajendra	Let
	12.	Borbane Rani Balasaheb	42
	13.	Shraddha Ashok Petkar	44
*	14.	Wakhare Prajakta Rajendra	40
	15.	Sontakke Swarupa Vilas	42
	16.	Dange Pratiksha Ramnath	45
	17.	Sasane Sneha Swapnil	40
	18.	Mate Rajashri Arjun	39
	19.	Khilari Rutuja Balasaheb	3 G

20.	Kulkarni Mansi Swapnil	33
21.	Wakhare Jayashri Manik	35
22.	Bhagwat Pooja Rajendra	31
23.	Takate Shubhangi Sampat	34
24.	Dome Shital Rajendra	32
25.	Waghule Sejal Sanjay	36
26.	Ghule Pallavi Balasaheb	38
27.	Bhatmule Shraddha Anil	35
28.	Adhav Pooja	32
29.	Turkane Megha	33
30.	Pote Sandip Madhukar	34

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HOD

Dept.of Computer Science K.J.Somaiya College,Kopargaon

Principal

K. J. Somaiya College of Arts

Commerce & Science, Kopargaor

K. J. Somaiya College of Arts, Commerce and Science.

DEPARTMENT OF COMPUTER SCIENCE

Academic Year: 2018-19

Report

Name of Certificate Course	Computer Hardware and Network
Date & Duration	21st Jan 2019 to 22th March 2019
Name of Faculty	36 Hours
	Computer Science
Number of Participant enrolled	30
Venue	Department of Computer Science

Brief Summary of Activity:

Department of Computer Science runs certificate course in Computer Hardware and Network. The objective of the course is to develop skill among the students to acquire basic knowledge in Computer hardware and peripherals for installation. To assemble the PC and trouble shooting and maintenance. To develop skill set, required in network technology. To gain basic knowledge of TCP/IP networks and to understand the internet architecture. The course content is made available to the students. Hon. Principal Dr. B. S Yadav inaugurated this course.

Outcome of the Course:

- 1) Student acquired basic knowledge of computer hardware.
- 2) Students are able to assemble PC, they learn to solve trouble shooting problems in PC.

3) Students get good skill about network technology.

Coordinater

Dept of Computer Science K. Dept of Cett, Living Science K.J. Somalya College, Kopargaon

K. J. Somaiya College of Arts commerce & Science, Kopargaon

Permission Letter from IQAC for Organizing Certificate Course

From,

The IQAC Coordinator,

K. J. Somaiya College, Kopargaon.

To,

The Course Coordinator,

Dept. of Computer Science,

K. J. Somaiya College, Kopargaon.

Subject: Permission for organizing short-term certificate course.

Respected sir,

As per your letter dated following activity

to IQAC. Grants the permission for

Name of Activity	Certificate course on Computer Hardware and Networking
Proposed Date & Time	Academic year 2018-19 (Semester V & VI)
Venue	Classroom no. 46, Science building
Name of Coordinator	Prof. Kusalkar A.A. Department of Computer Science

You are requested to complete the documentation and submit it to IQAC after Programme within five working days. Wish you all the best for Programme.

Thank you

Yours Sincerely