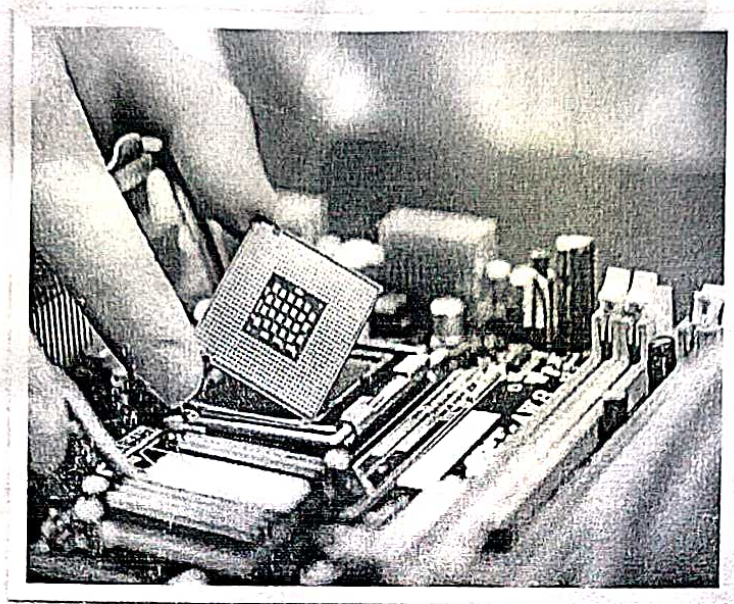


PROSPECTUS



GOVERNMENT DEGREE COLLEGE- RAVULAPALEM



CERTIFICATE COURSE

in

COMPUTER HARDWARE

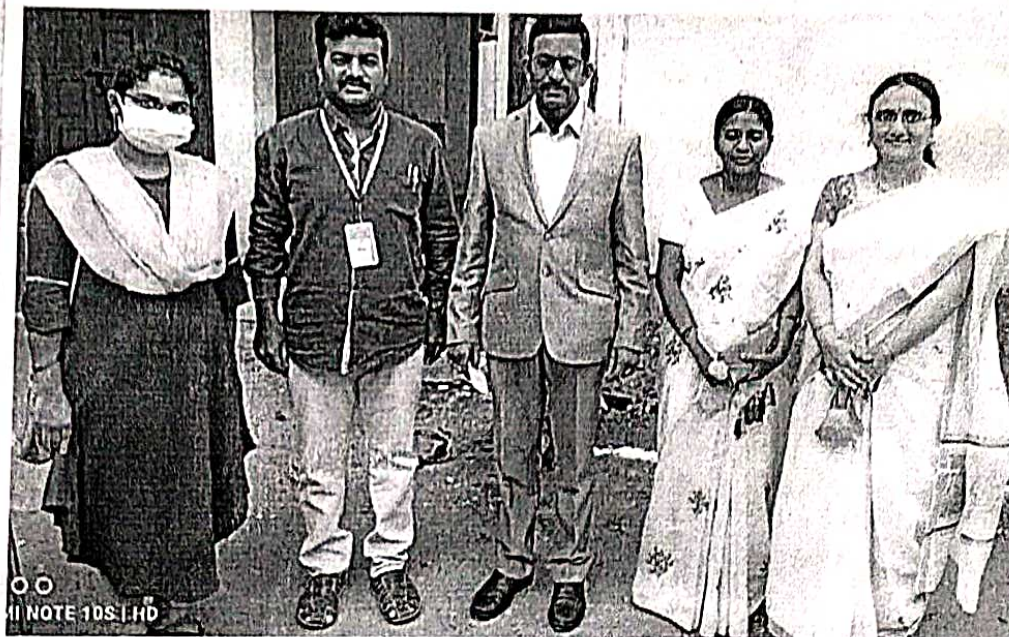
2022-23

Department of Computer Science & Applications

CERTIFICATE COURSE – COMPUTER HARDWARE

Department of Computer Science & Applications, Department of IoT

Faculty Name	Designation
Smt.U.Subhashini	HoD, Computer Applications
Smt.V.Sailaja	HoD, Computer Science
Sri.K.S.N Prasad	Lecturer
Smt. K.Sridevi	Lecturer



CERTIFICATE COURSE – COMPUTER HARDWARE

About the college

Government Degree College, Ravulapalem, Located on the serene right bank of holy river Godavari in Dr.B.R.Ambedkar Konaseema District of Andhra Pradesh, Government Degree College, Ravulapalem has embarked upon imparting quality higher education to the students of both Godavari Districts of Andhra Pradesh Since inception in 1981, the institution has been enjoying the confidence and laurel of parent community and other stake holders for its innovative practices in devising and deploying pedagogy and infrastructure in making students globally competitive.

The college has rendered yeomen service to the student community by offering undergraduate programs since its establishment. The institution at present offers eight undergraduate programs through 13 departments. The institution emerged as a platform for breeding quality human resources with social responsibility and ethical values also.

The modern and well-equipped student support facilities especially, Jawahar knowledge centre and e-enabled library, etc. are serving as launch pads for equipping the student with the necessary skills that enable them to scale new heights in their education and job careers. Being a NAAC-accredited institution at grade B, it boosts committed and academically in-genius faculty with research purists. The institution fortifies teaching-learning activity with state-of-the-art latest ICT infrastructure. Recognized both under 2(f) and 12(B) sections of UGC Act 1956, the college is forging ahead with innovative programs for turning out quality future citizens.

Our Vision:

To develop the college into a multi-faceted educational institution that provides equitable and empowering quality education to the students in general and to those from the underprivileged sections of the society for shaping them into intellectually competent and skilled, self-reliant, morally upright and socially committed citizens.

Our Mission:

To train all students through qualitative learning experiences for developing intellectual and practical capabilities, self-discipline, self-confidence, self-reliance, compassion through a well-designed curriculum that includes domain, general, global, extension and healthy practices.

Objectives:

- Serving the needs of rural students
- To enable the poor and downtrodden/under privileged sections of the society and access to gainful employment opportunities by imparting skill oriented education.
- To achieve the academic excellence
- To inculcate human values and social responsibilities

CERTIFICATE COURSE – COMPUTER HARDWARE

About the Department:

The Department of Computer Science and Applications was found in 1998. A new course with Mathematics, Electronics, Internet of Things(M.E.IoT) has been introduced in the year 2020. The department is mainly concerned with development and applications of software (Desktop applications and web applications and IoT applications), with brief knowledge of hardware. Students learn fundamental concepts of computer hardware and software and become familiar with a variety of computer applications including word-processing, spreadsheets, databases, programming languages (C, JAVA etc.) and multimedia presentations.

The Department of Computer Science and Applications is a well-established and highly recognized department in terms of academics and student strength in its graduate and undergraduate programmes. The department regularly updates its curriculum in accordance with UGC guidelines as well as latest advancements in the relevant fields. Majority of the teachers are keenly and productively involved in research and pedagogical advancement. The department not only focuses on nurturing both curricular and extracurricular talent/ skills of students but also makes an endeavor to play a vital role in the applications of computers by promoting innovative work.

Vision:

- Impart quality and need based education for vertical mobility of the students for higher education and to produce graduates who possess the skills and problem-solving tools.
- To enable every student to cope up with the latest developments through effective transaction of the curricular and co-curricular aspects.

Mission:

- To impart subject knowledge through higher order learning
- To adopt innovative pedagogical strategies using ICT in teaching-learning process.

CERTIFICATE COURSE – COMPUTER HARDWARE

- To develop academic activity which is suitable for higher studies, employment and inculcate entrepreneurial skills.

Courses offered

Course	Specialization	Intake	Medium
B.Sc	Computer Science	30	English
B.Com	Computer Applications	40	English
B.Sc	IoT	30	English

Faculty Profile:

Name of the Faculty	Qualifications	Position
U.Subhashini	M.Sc(CS).,M.Tech(CSE).,APSET.,	Lecturer in Computer Applications
V.Sailaja	M.C.A.,M.Tech(CST).,APSET,N.E.T.,	Lecturer in Computer Science
K.S.N.Prasad	M.C.A	Lecturer in Computer Applications
K.Sridevi	M.Sc(Comp.Sc)	Lecturer in Computer Science

About the Certificate Course

During the duration of the Computer Hardware course, a candidate is trained in professional skills, professional knowledge & Employability skill. In addition to this, a candidate is entrusted to undertake project work and extracurricular activities to build up confidence. The broad components covered under this subject are as below: They learn about the basics of electrical and electronic components related to hardware. They will learn to assemble and repair desktop PC with all their internal components. Trainees will be able to install different types of operating systems and all other application software, customization of OS, update device drivers, setting firewall security, do junk file removal, data backup, and data recovery techniques.

This program opens various avenues for students. After the completion of the program, as a fresher you can begin your career as:

- Can become self employed by putting up a small scale business of PC repairs
- Can opt for advanced courses in networking with this basic understanding
- Can do certification courses like CCNA
- Hardware Engineer

Professionals in this career can also opt for teaching jobs in various hardware institutions. Graduate professionals can work as freelancers in this field. These graduates can work as a lab technician in educational institutions. There are lots of job opportunities available in India as well as in foreign countries for Hardware & Networking professionals.

CERTIFICATE COURSE – COMPUTER HARDWARE

OBJECTIVES OF THE COURSE:

Upon completing this course, the learner will be able to meet these overall objectives:

- Set up and configure a new computer.
- Given a scenario, select the appropriate components for a custom PC configuration to meet customer specifications or needs.
- Install or upgrade the operating system.
- Install, configure, and manage common peripheral devices and multifunction devices/printers.
- Troubleshoot common problems related to internal components such as motherboards, RAM, CPU, and power with appropriate tools.
- Troubleshoot common computer problems that can be resolved without replacing internal components.

LEARNING OUTCOMES:

- Identify the hardware components of a computer.
- Lists the hardware components such as processor, memory, disk, main board, etc.
- Explains the features (speed, capacity, etc.) of the hardware components of a computer.
- Explains the relationships between the components of a computer and how data are transferred among the components.
- Identify the peripheral devices outside computer.
- Uses computer using input devices, such as keyboard and mouse.
- Transfers data outside the computer using output devices, such as screen and printer.
- Saves files to removable devices and loads files from removable devices.
- Connects to the Internet using network cards.
- Identify the software's running on a computer.
- Identifies BIOS and changes settings in BIOS.
- Lists jobs of operating system.
- Uses the Windows operating systems.
- Tests the performance of hardware components on some specific programs.

CERTIFICATE COURSE – COMPUTER HARDWARE

SYLLABUS

Unit-I: Fundamentals of Computers

Introduction to computers, characteristics and limitations of computer, Block diagram of Computer, Input and output devices: Keyboard and mouse, inputting data in other ways, Types of Software: system software, Application software, Memories: primary, secondary and cache memory.

Unit-II: Hardware Components of a computer

Components of a computer: Motherboard components, RAM slots, Processor Sockets, SATA Connectors, Specification and internal parts of Hard disk. Internal parts of DVD R/W. Switch Mode Power Supply (SMPS). Voltages and current ratings, types of display (CRT, LCD, OLED) and specifications. VGA, DV, HDMI ports.

Unit-III Assembly & Testing

Assembly and Testing: Front panel connections, Audio drivers and chipsets. Assembling a PC, Installing Operating system.

Unit-IV: troubleshooting & Software Installation

Troubleshooting of various hardware problems like SMPS failure, Display not there, missing OS or re-installation of user software or system software. CDROM, DVD lens cleaning or replacement, CMOS setup.

Driver software Downloading and installation, Antivirus Software installation, scanning for viruses, removing .tmp files from WINDOWS machine

CERTIFICATE COURSE – COMPUTER HARDWARE

DETAILED PEDAGOGICAL PLAN

Day	Period	Time	Topic	Methodology
1	1	9:00 -10:00	Characteristics and limitations of computer	Lecture
	2	5:00 – 6:00	Block diagram of Computer	Lecture
2	3	9:00 -10:00	Input devices: Keyboard and mouse, other devices	Lecture
	4	5:00 – 6:00	Types of scanners	Lecture
3	5	9:00 -10:00	Output Devices: Monitor and its types	Lecture
	6	5:00 – 6:00	Types of printers	Lecture
4	7	9:00 -10:00	Other Output devices	Lecture-Demo
	8	5:00 – 6:00	Types of Software: system software	Lecture-Demo
5	9	9:00 -10:00	Types of OS	Lecture-Demo
	10	5:00 – 6:00	Functions of OS	Lecture-Demo
6	11	9:00 -10:00	Application software	Lecture-Demo
	12	5:00 – 6:00	Memories: primary Memory	Lecture-Demo
7	13	9:00 -10:00	secondary memory	Lecture-Demo
	14	5:00 – 6:00	cache memory	Lecture-Demo
8	15	9:00 -10:00	Motherboard components, RAM slots	Lecture-Demo
	16	5:00 – 6:00	Processor Sockets, SATA Connectors	Lecture-Demo
9	17	9:00 -10:00	Specification and internal parts of Hard disk	Lecture-Demo
	18	5:00 – 6:00	Internal parts of DVD R/W	Lecture-Demo
10	19	9:00 -10:00	Switch Mode Power Supply (SMPS). Voltages and current ratings	Lecture-Demo
	20	5:00 – 6:00	types of display (CRT, LCD, OLED) and specifications	Lecture-Demo
11	21	9:00 -10:00	VGA, DV, HDMI ports.	Lecture-Demo
	22	5:00 – 6:00	Front panel connections	Lecture-Demo
12	23	9:00 -10:00	Audio drivers and chipsets	Lecture-Demo
	24	5:00 – 6:00	Assembling a PC	Lecture-Demo
13	25	9:00 -10:00	Installing Operating system	Lecture-Demo
	26	5:00 – 6:00	Installing Operating system	Lecture-Demo
14	27	9:00 -10:00	Troubleshooting of various hardware problems like SMPS failure	Lecture-Demo
	28	5:00 – 6:00	missing OS or re-installation of user software or system software	Lecture-Demo
15	29	9:00 -10:00	CDROM	Lecture-Demo
	30	5:00 – 6:00	DVD lens cleaning or replacement	Lecture-Demo
16	31	9:00 -10:00	CMOS setup	Lecture-Demo
	32	5:00 – 6:00	Driver software Downloading	Lecture-Demo
17	33	9:00 -10:00	Driver software installation	Lecture-Demo
	34	5:00 – 6:00	Antivirus Software installation	Lecture-Demo

CERTIFICATE COURSE – COMPUTER HARDWARE

18	35	9:00 -10:00	Types of Virus	Lecture-Demo
	36	5:00 – 6:00	scanning for viruses	Lecture-Demo
19	37	9:00 -10:00	removing .tmp files from WINDOWS machine	Lecture-Demo
	38	5:00 – 6:00	Identify and handling of Internal components in the PC	Practical
20	39	9:00 -10:00	Assembly of PC using various parts	Practical
	40	5:00 – 6:00	Installation of Operating System like Windows7, Windows8, Windows 2008	Practical
21	41	9:00 -10:00	Troubleshooting of various hardware problems like SMPS failure	Practical
	42	5:00 – 6:00	missing OS or re-installation of user software or system software	Practical
22	43	9:00 -10:00	CMOS setup	Practical
	44	5:00 – 6:00	Driver software Downloading	Practical
23	45	9:00 -10:00	Driver software installation	Practical
	46	5:00 – 6:00	Antivirus Software installation	Practical
24	47	9:00 -10:00	scanning for viruses	Practical
	48	5:00 – 6:00	removing .tmp files from WINDOWS machine	Practical
25	49	9:00 -10:00	Mock Practical test	Practical test
	50	5:00 – 6:00	Mock Practical test	Practical test
26	51	9:00 -10:00	Model-Test	Class Test
	52	5:00 – 6:00	Model-Test	Class Test
27	53	9:00 -10:00	Model-Test	Class Test
	54	5:00 – 6:00	Model-Test	Class Test
28	55	9:00 -10:00	Model-Test	Class Test
	56	5:00 – 6:00	Model-Test	Class Test
29	57	9:00 -10:00	Model-Test	Class Test
	58	5:00 – 6:00	Model-Test	Class Test
30	59	9:00 -10:00	Evaluation	Final Exam
	60	5:00 – 6:00	Certificate Presentation	

Evaluation:

Written Examination for 30 Marks(MCQ Model)

Practical Examination for 30 Marks (Assembling & disassembling of a PC)

CERTIFICATE COURSE - COMPUTER HARDWARE

Model Question Paper

Each Question carries 2 marks.

Total Questions: 15

Time : 30mins

Total marks : 30

SAMPLE QUESTIONS

1. Which of the following is designed to control the operations of the computer
 - 1) User
 - 2) System software
 - 3) Application software
 - 4) Utility software

2. Which of the following is responsible for converting data received from the user into a computer understandable format?
 - 1) Output unit
 - 2) Input unit
 - 3) Memory unit
 - 4) Arithmetic unit

3. Which of the monitor looks like television and are normally used with non portable computer system
 - 1) LED
 - 2) LCD
 - 3) CRT
 - 4) Front panel monitors

4. Which of the following device provides the communication between a computer and the outer world
 - 1) Compact
 - 2) Input/output
 - 3) Drivers
 - 4) Storage

5. What is the mean of the booting in the operating system
 - 1) Restarting the computer
 - 2) Install the program
 - 3) To start
 - 4) To turn off

CERTIFICATE COURSE – COMPUTER HARDWARE

MODEL CERTIFICATE

	GOVERNMENT DEGREE COLLEGE, RAVULAPALEM NAAC Accredited with 'B' Grade(2.61 CGPA) (Affiliated to Adikavi Nannaya University) Beside NH-16, Main Road, Ravulapalem-533238, Dr.B.R.Ambedkar Dist., A.P, INDIA E-Mail : jkcjyec.ravulapalem@gmail.com, Phone : 08855-257061 ISO 50001:2011, ISO 14001:2015, ISO 9001:2015 Certified College	
<h3><u>Certificate of Completion</u></h3>		
		
<p><i>This is to Certify that</i></p>		
<h2>KSN PRASAD</h2>		
<p><i>of I B. Com (C.A.), Government Degree College, Ravulapalem has successfully completed the two months certificate course on "Computer Hardware" conducted by Department of Computer Science & Applications, GDC Ravulapalem from 4-Jan-23 to 5-Mar-23.</i></p>		
Smt.V. Sailaja HOD, Dept of CS	Smt.U. Subhashini HOD, Dept of CA	Dr.K. Jyothi Principal

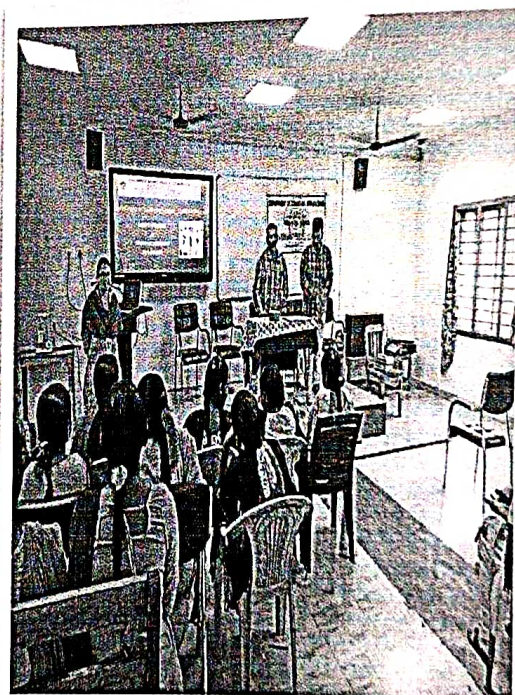
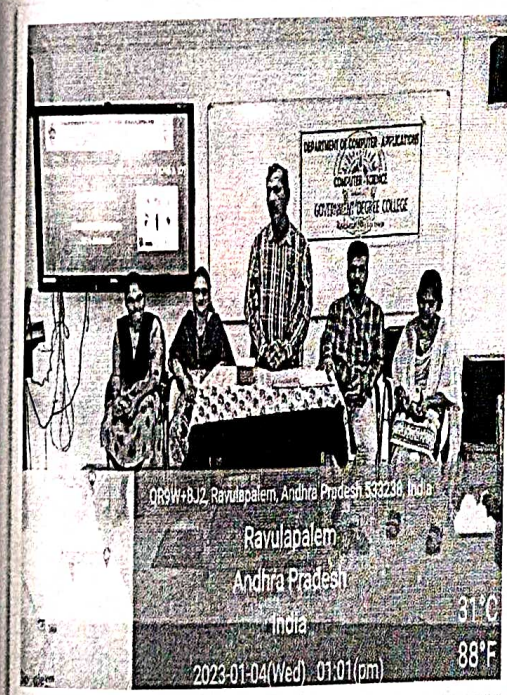
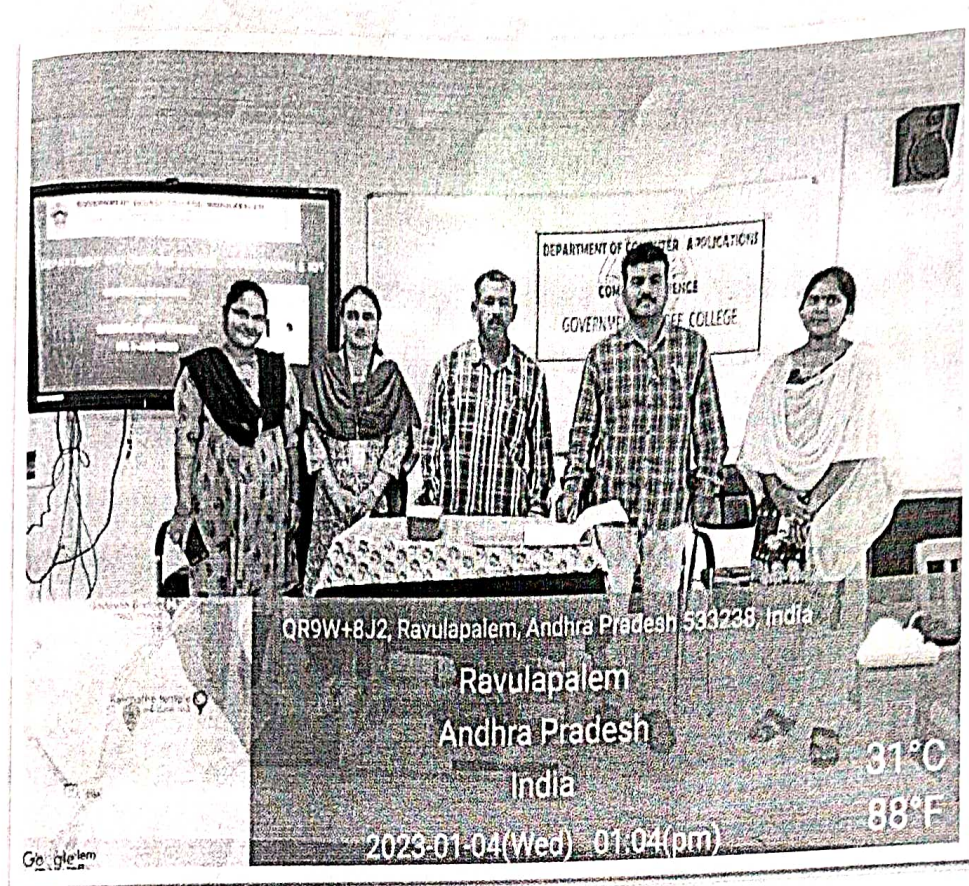
CERTIFICATE COURSE – COMPUTER HARDWARE

List of Students Enrolled:

S.No	Name of the Student	Class & Group
1	N. V. K. SRINIVAS	I B. COM (General)
2	V. LAKSHMANA SWAMY	I B. COM(C.A)
3	K. D. V. PRAVEEN	I B. COM(C.A)
4	A. CHANDEESH RAJU	I B. COM(C.A)
5	D. D. SUBRAHMANYAM	I B. COM(C.A)
6	V. SATYA ANJANEYULU	I B. COM(C.A)
7	K. NAGA RAJU	I B. COM(C.A)
8	D. ISSAC	I B. COM (General)
9	M. SOWMYA	I B. COM(C.A)
10	K. ANUSHA	I B. COM(C.A)
11	A. SRIVALLI	I B. COM(C.A)
12	V. JYOTHI	I B. COM (General)
13	T. SAI LAKSHMI	I B. COM(C.A)
14	V. SWEETY	I B. COM(C.A)
15	M. PHANI SATYA SRI	I. B. Sc(MPCs)
16	K. TEJA SRI	I. B. Sc(MPCs)
17	D. LAKSHMI	I. B. Sc(MPCs)
18	P. LAKSHMI NARASIMHA	I B. COM (General)
19	A. SATISH	I B. COM(C.A)
20	SK.THANEESHA	I B. COM (General)
21	T.GUNA SHAKER	I B. COM (General)

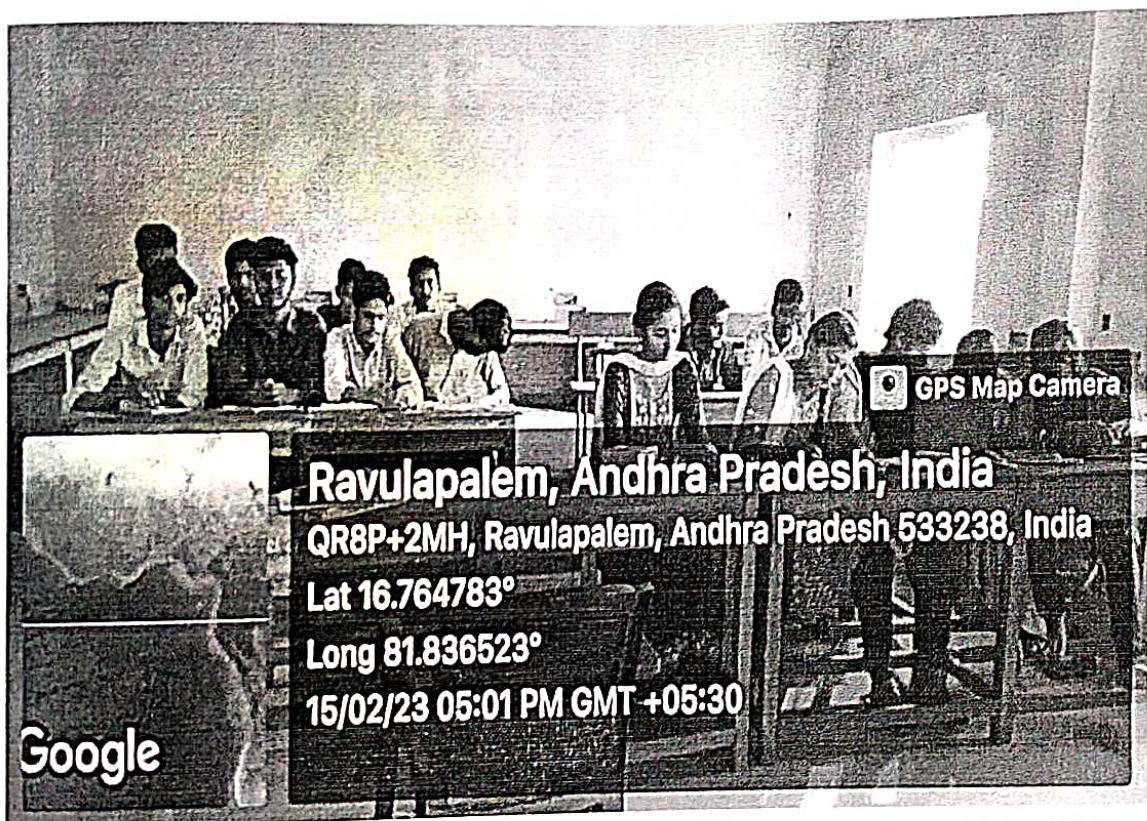
CERTIFICATE COURSE - COMPUTER HARDWARE

CERTIFICATE COURSE INAUGURATION BY SRI.Bh.S.S.V.N.MURTHYgaru, VICE PRINCIPAL

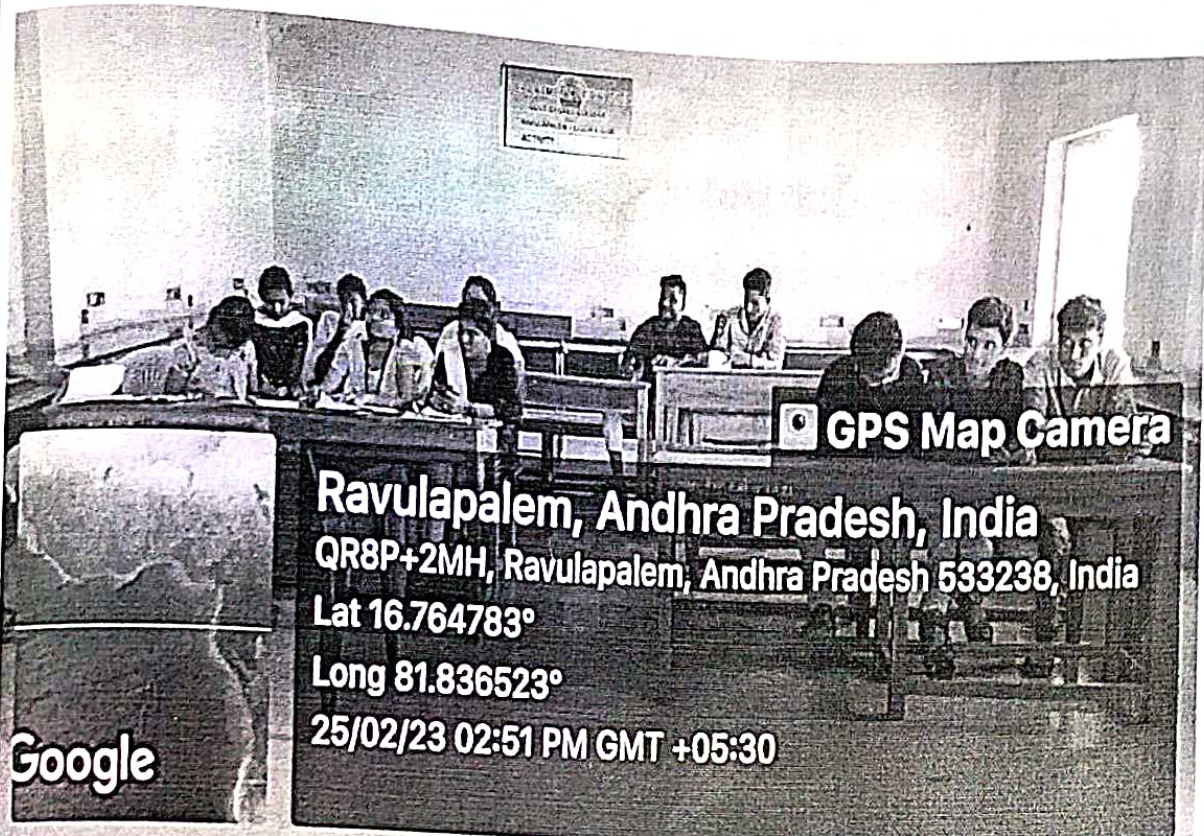


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THEORY CLASSES

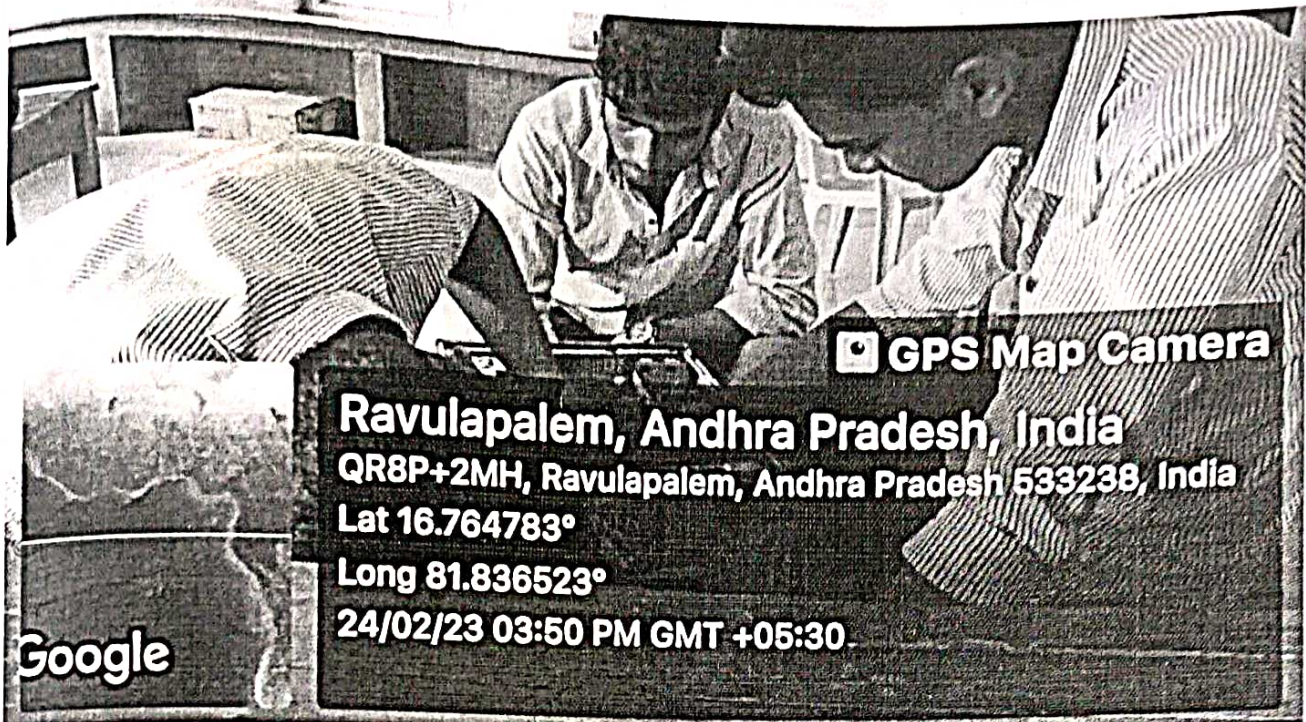


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PRACTICAL CLASSES



CERTIFICATE COURSE - COMPUTER HARDWARE



GPS Map Camera

Ravulapalem, Andhra Pradesh, India

QR9W+8J2, Ravulapalem, Andhra Pradesh 533238, India

Lat 16.768373°

Long 81.846449°

02/03/23 04:56 PM GMT +05:30

Google

CERTIFICATE COURSE - COMPUTER HARDWARE



CERTIFICATE COURSE - COMPUTER HARDWARE



CERTIFICATE COURSE – COMPUTER HARDWARE

CERTIFICATE ISSUE BY THE PRINCIPAL MADAM Dr.K.JYOTHI



CERTIFICATE COURSE – COMPUTER HARDWARE



CERTIFICATE COURSE - COMPUTER HARDWARE

FEEDBACK FORM

Online Feedback form

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6:20 PM



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Questions

Responses

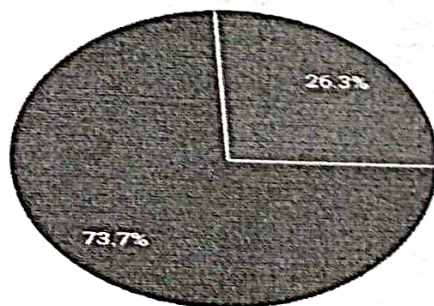
19

Settings

Please give the rating for the course

Copy

19 responses



- 90%-100%
- 80%-90%
- 70%-80%
- Above 60%
- Below 50%

Please comment the strength of the course and the way it was conducted

19 responses

Basic Computer Knowledge We learn

No

The practical experience made us to know very well about the course and Also the closeness of madam among the students, make us more comfortable to listen.

CERTIFICATE COURSE – COMPUTER HARDWARE

RESPONSES OF FEEDBACK.

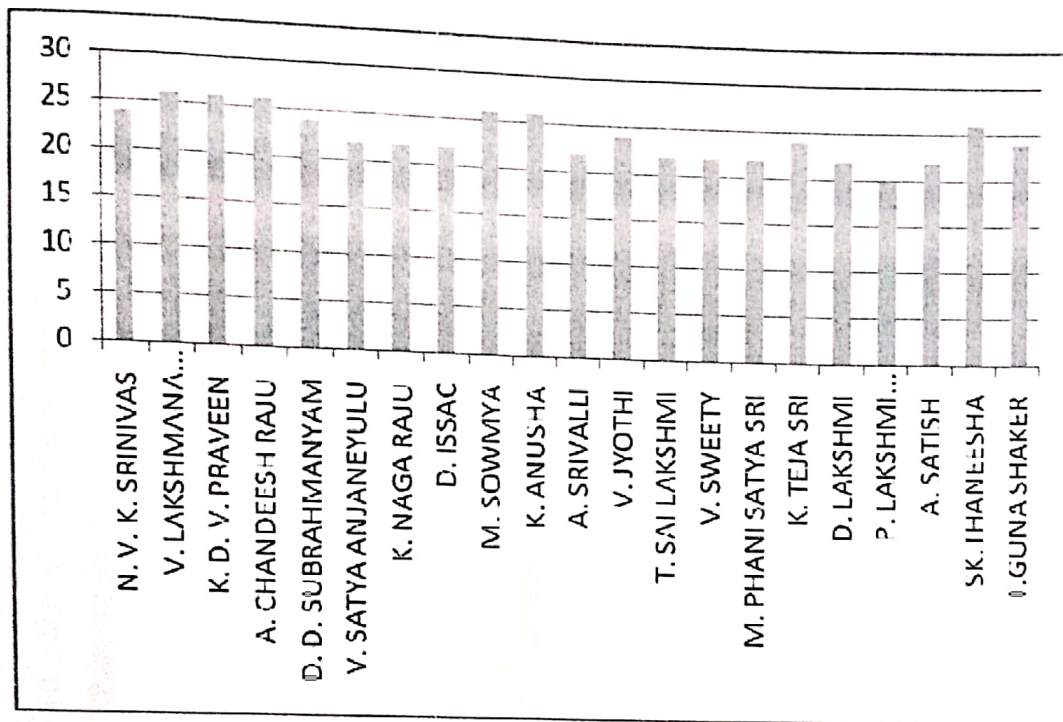
Name the student	Class	Group	The course content met your expectations	The content was illustrated with	The lecturer was clear and easy to understand	The course exposed you to new knowledge and practices	Level of the knowledge after completion of the course	Will you recommend this course to your friends	Please give the rating for the course	Please comment the strength of the course and the way it was conducted	Please comment the weaknesses of the course and the way it was conducted	Please give the suggestions for the improvement of the course
Varre Jyothi	B.Com	Computer	Strongly agree	Too few examples	Agree	Strongly agree	Excellent	Yes	90%-100%	Basic Computer Knowledge We learn	Good	Very Well
PAVANI	B.Tech	CSE	Strongly agree	Too few examples	Agree	Strongly agree	Excellent	Yes	90%-100%	No	No	No
Lakshmana swamy vaddi	B.com	Computer applications (CA)	Strongly agree	Too few examples	Agree	Agree	Very good	Yes	80%-90%	The practical experience made us to know very well about the course and Also the closeness of madam among the students, make us more comfortable to listen.	The only thing is slow classes because of uncooperation of students with madam and The explanation of topics much clearly interacted with us.	Some good or proper communication would need between students and madam in offline and online
N. V. K. Srinivasu	1st year	B. Com (C.A)	Strongly agree	Too few examples	Agree	Strongly disagree	Excellent	Yes	90%-100%	we learned new things and knowledge well with many examples	No	to continue the course for another students
Attili srivalli	1st B.COM (CA)	B.COM (CA)	Strongly agree	Too few examples	Agree	Agree	Very good	Yes	90%-100%	Gaining knowledge about hardware	No weakness	More Lectures should be promoted in this course
Teki Sai Lakshmi	1st B.com C.A	B.com (C.A)	Strongly agree	Too few examples	Agree	Strongly agree	Very good	Yes	80%-90%	Very good	No weakness	More Teachers should be promoted in this course
D. Issac	1 year	B. Com (CA)	Strongly agree	Too few examples	Agree	Strongly agree	Excellent	Yes	90%-100%	It's help to improve our skill	Super	Developments the class strength
K. Sai nagaraju	1st year	B. Com ca	Strongly agree	Too few examples	Agree	Agree	Excellent	Yes	90%-100%	No comment	No comment	Digital class is improve
D. D. Subramanyam	1st year	B. Com (C.A)	Strongly agree	Too few examples	Agree	Strongly disagree	Excellent	Yes	90%-100%	we learned new things and knowledge well with many examples	No	continue the course for another students
Lakshmi Narasimha	Cvr 2	Mpcs	Strongly agree	Advocate examples	Agree	Strongly agree	Excellent	Yes	90%-100%	Strength: we learned new things and knowledge well with many examples	No	Suggestions: continue the course for another students
T. Guna prakash	1st Year	B. Com (C.A)	Strongly agree	Too few examples	Agree	Disagree	Very good	Yes	90%-100%	we learned new things and knowledge well with many	No	continue the course for another students
Alladi satish	Cvr block 2	1st Bsc Mpcs	Strongly agree	Advocate examples	Agree	Strongly agree	Excellent	Yes	90%-100%	We learned new things and knowledge well with many examples	No	Continue the course for another students
Sheik. Thaneesha	1st Year	B. Com (C.A)	Strongly agree	Too few examples	Agree	Strongly disagree	Excellent	Yes	90%-100%	we learned new things and knowledge well with many	No	Suggestions: continue the course for another students
Mudragada sowmya	1st Bcom (CA)	B. COM (CA)	Strongly agree	Too few examples	Agree	Agree	Good	Yes	80%-90%	Gaining knowledge	No weakness	More lectures should be apronted in this course
K. D. V. Praveen	1st Year	B. Com (G)	Strongly agree	Too few examples	Agree	Strongly disagree	Excellent	Yes	90%-100%	we learned new things and knowledge well with many examples	No	we learned new things and knowledge well with many examples
D. Lakshmi	Mpcs	1st BSC	Strongly agree	Advocate examples	Agree	Strongly agree	Excellent	Yes	90%-100%	Good course it will be useful to us	Not necessary	All good
Angani Chandeesh Paju	1 year	B.com(CA)	Strongly agree	Advocate examples	Agree	Strongly agree	Good	Yes	90%-100%	Its good	No waknesses, everything is good	Yes, technology development
G. Kiran Kumar	Degree 1st year	BSc (MPCs)	Strongly agree	Advocate examples	Agree	Agree	Very good	Yes	80%-90%	We learned new things and knowledge well with many examples	No	Continue the course for another students
V.S. Anjaneyulu	1st year	B.com (C.A)	Strongly agree	Too few examples	Agree	Strongly disagree	Excellent	Yes	80%-90%	Strength: we learned new things	No	continue the course for another students

CERTIFICATE COURSE - COMPUTER HARDWARE

MARKS OF THE STUDENTS

S.No	Name of the Student	Class & Group	Marks
1	N. V. K. SRINIVAS	I B. COM (General)	24
2	V. LAKSHMANA SWAMY	I B. COM(C.A)	26
3	K. D. V. PRAVEEN	I B. COM(C.A)	26
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19	A. SATISH	I B. COM(C.A)	22
20	SK.THANEESHA	I B. COM (General)	26
21	T.GUNA SHAKER	I B. COM (General)	24

SCORE ANALYSIS



Members:

1. Smt.U.Subhashini
2. Smt.V.Sailaja
3. Ssri.K.S.N.Prasad
4. Smt K.Sridevi

SIGNATURE

U. Subhashini
V. Sailaja
K.S.N. Prasad
K.S. Sridevi

Jyoti.K.
5/3/2023
Principal



GOVERNMENT DEGREE COLLEGE, RAVULAPALEM

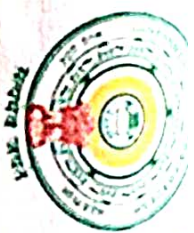
NAAC Accredited with 'B' Grade(2.61 CGPA)

(Affiliated to Adikavi Nannaya University)

Beside NH-16, Main Road, Ravulapalem-533238, Dr.B.R.Ambedkar Dist., A.P, INDIA

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ISO 50001:2011, ISO 14001:2015, ISO 9001:2015 Certified College



Certificate of Completion



This is to Certify that

KSN PRASAD

of I B. Com (C.A.), Government Degree College, Ravulapalem has successfully completed the two months certificate course on "Computer Hardware" conducted by Department of Computer Science & Applications, GDC Ravulapalem from 4-Jan-23 to 5-Mar-23.

Smt.V. Sailaja

HOD, Dept of CS

Smt.U. Subhashini

HOD, Dept of CA

Dr.K. Jyothi

Principal