



Sri Vani Degree & PG College
Affiliated to SK University
Kakkalapalli Cross, Near Sakshi Office, Ananthapuramu
Andhra Pradesh, India- 515002



Department Profile: Computer Science

The Department of Computer Science is established in the year 1997 with an UG Courses- B.Sc (Maths, Stats, and Computer Science), and B.Com Computer applications. Further branches are expanded as B.Sc (Maths, Physics, and Computer Science), B.Sc (Maths, Electronics, and Computer Science), and B.B.A. and P.G Courses - M.Com Computer applications, M.Sc Computers.

The department is having well qualified and experienced faculty members. The faculty is a perfect blend of different specializations in Computer Science and applications to impart their expertise in handling diversified courses of the UG and PG programs. The teaching methodology in the department goes beyond fulfilling the syllabus requirements of the University, to meet the today's industry needs. Faculty motivates and guides the students to do mini projects in core subjects. Special focus will be given to develop Communication and Soft Skills.

The Department adopted and made the ICT in teaching techniques effectively.

Vision:

To create the most conducive environment for quality academic and research oriented undergraduate and postgraduate education in computer science and applications and prepare the students for a globalised technological society and orient them towards serving the society.

Mission:

To create, share, and apply knowledge in Computer Science, including in interdisciplinary areas that extend the scope of Computer Science and benefit humanity; to educate students to be successful, ethical, and effective problem-solvers and life-long learners who will contribute positively to the economic well-being of our region and nation and who are prepared to tackle complex 21st Century challenges facing the world.

Courses / Programs offered:

Level	Course
UG	B.Sc (MSCs)- Maths, Stats, Computer Science
	B.Sc (MPCs)- Maths, Physics, Computer Science
	B.Sc (MECs)- Maths, Electronics, Computer Science
	B.Com(Computer Applications)
	BBA

Course Structure under CBCS:

Year	Sem	Course	Title of the Course	Internal Marks	External Marks	Total Marks
I	I	I	Computer Fundamentals and Photoshop	25	75	100
			Photo Shop Lab	-	50	50
	II	II	Programming in C	25	75	100
			Programming in C Lab	-	50	50
II	III	III	Object Oriented Programming Using Java	25	75	100
			Object Oriented Programming Using Java Lab	-	50	50
	IV	IV	Data Structures	25	75	100
			Data Structures using Java Lab	-	50	50
III	V	V	DBMS	25	75	100
			DBMS Lab	-	50	50
		VI	Software Engineering	25	75	100
			Software Engineering Lab	-	50	50
	VI	VII-C	Web Technologies	25	75	100
			Web Technologies Lab	-	50	50
		VIII-C1	PHP&MySQL,Wordpress	25	75	100
			PHP&MySQL,Wordpress Lab	-	50	50
		VIII-C2	Advanced Java Script JQUERY/AJAX/JSON/Angular JS	25	75	100
			Advanced Java Script JQUERY/AJAX/JSON/Angular JS Lab	-	50	50
	VIII-C3	Project Work	25	75	100	

- Participation of Interdisciplinary Courses and the departments/unitsinvolved: NIL
- Participation of the department in the courses offered byotherdepartments: NIL
- Courses collaboration with other universities, Industries,foreigninstitutions: NIL
- Details of courses/ programmes discontinued (if any)withreasons: NIL

Number of teaching posts:

Post	Sanctioned	Filled
Teaching	03	03

Program outcomes, Program specific outcomes & Course outcomes:

Program outcomes	
PO1	Scientific knowledge: Apply the knowledge of mathematics, science, and computing to the solution of complex scientific problems.
PO2	Problem analysis: Identify, formulate, research literature, and analyze complex scientific problems reaching substantiated conclusions using first principles of mathematics, natural sciences, and applied sciences.
PO3	Design/development of solutions: Design solutions for complex problems and design system components or processes that meet the specified needs with appropriate consideration for the public health and safety, and the cultural, societal, and environmental considerations.
PO4	Modern tools usage: Create, select, and apply appropriate techniques, resources, and modern computing and IT tools including prediction and modeling to complex scientific activities with an understanding of the limitations.
PO5	Environment and sustainability: Understand the impact of the professional software engineering solutions in societal and environmental contexts, and demonstrate the knowledge of, and need for sustainable development.
PO6	The software engineer and society: Apply reasoning informed by the contextual knowledge to assess societal, health, safety, legal and cultural issues and the consequent responsibilities relevant to the professional practice.
PO7	Ethics: Apply ethical principles and commit to professional ethics and responsibilities and norms of the scientific practice.
PO8	Communication: Communicate effectively on complex activities with the scientific community and with the society at large, such as, being able to comprehend and write effective reports and design documentation, make effective presentations, and give and receive clear instructions.
PO9	Project management: Demonstrate knowledge understanding of the scientific and management principles and apply these to one's own work, as a member and leader in a team, to manage projects and in multidisciplinary environments.
PO10	Life-long learning: Recognize the need for, and have the preparation and ability to engage in independent and life-long learning in the broadest context of technological change.

I. Programme Specific Outcomes

Programme	Programme Specific Outcomes
BSc Computer Science	<p>A graduate with a B.Sc. in Computer Science will have the ability to</p> <p>PSO1. Demonstrate mastery of Computer Science in the following core knowledge areas</p> <ul style="list-style-type: none">○ Data Structures and Programming Languages○ Databases, Software Engineering and Development○ Computer Hardware and Architecture <p>PSO2. Apply problem-solving skills and the knowledge of computer science to solve real world problems.</p> <p>PSO3. Develop technical project reports and present them orally among the users</p>
MSc Computer Science	<p>A graduate with a M.Sc. in Computer Science will have the ability to</p> <p>PSO1. Communicate computer science concepts, designs, and solutions effectively and professionally</p> <p>PSO2. Apply knowledge of computing to produce effective designs and solutions for specific problems</p> <p>PSO3. Use software development tools, software systems, and modern computing platforms</p>

Course outcomes:

SEMESTER - I

TITLE OF THE COURSE: computer fundamentals and photoshop

On successful completion of this course students will:

1. Understand the Basics of computers.
2. Understand binary, hexadecimal and octal number systems and their arithmetic.
3. Understand the Input and output devices.
4. Understand the Types of soft wares.
5. Understand the different types of memories, Windows basics.
6. Gain the knowledge in Adobe photo shop program window.
7. Gain knowledge in adobe photo shop tool box.
8. Understand the concepts of Layers and filters.

SEMESTER- II

TITLE OF THE COURSE: Programming in C

On successful completion of this course students will:

1. Understand the concepts of Algorithm and programming languages.
2. Understand the Basic concepts of "C".
3. Gain the knowledge in Decision control and looping statements and do the programs .
4. Understand and gain the knowledge in Functions.
5. Understand the concepts of arrays and strings
6. Understand the concepts of Pointers.

7. Gain knowledge on Structures, Unions and Enumerated data types.
 8. Understand the concept of files.
-

SEMESTER -III

TITLE OF THE COURSE: Object Oriented programming using JAVA

On successful completion of this course students will:

1. Gain knowledge on various Concepts of Object Oriented Programming
 2. Acquire skills on the Overview of Java Language.
 3. Gain the knowledge in Decision control and looping statements and do the programs .
 4. Understand the Concepts of class, object and methods.
 5. Understand the concept of Inheritance and gain the knowledge in arrays , strings and vectors.
 6. Understand the concept of Interfaces.
 7. Gain knowledge on Multithreaded programming & Exceptions.
 8. Gain knowledge on Applet programming, packages and streams.
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SEMESTER -IV

TITLE OF THE COURSE: Data Structures.

On successful completion of this course students will:

1. Gain knowledge in Abstract data types.
 2. Gain the knowledge in Linear lists Like arrays and linked list.
 3. Understand the Concepts of Stack and queues.
 4. Understand the Concepts of Trees.
 5. Understand the Concepts of Graphs.
 6. Gain the knowledge in Sorting and searching techniques.
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SEMESTER-V (PAPER V)

TITLE OF THE COURSE: Data base Management System

On successful completion of this course students will:

1. Gain Knowledge on Overview of the Database Management system.
2. Understand the concept of E-R Model.
3. Gain knowledge on the Relational Model.
4. Understand the concept of SQL.
5. Gain knowledge in PL/SQL.

SEMESTER-V (PAPER VI)

TITLE OF THE COURSE: Software Engineering

On successful completion of the course, the students will:

1. an ability to identify, formulate, and solve complex engineering problems by applying principles of engineering, science, and mathematics
2. an ability to apply engineering design to produce solutions that meet specified needs with consideration of public health, safety, and welfare, as well as global, cultural, social, environmental, and economic factors
3. an ability to communicate effectively with a range of audiences(Requirement analysis)
4. an ability to recognize ethical and professional responsibilities in engineering situations and make informed judgments, which must consider the impact of engineering solutions in global, economic, environmental, and societal contexts(software design)

5. an ability to function effectively on a team whose members together provide leadership, create a collaborative and inclusive environment, establish goals, plan tasks, and meet objectives(user interface design and real time systems)
6. an ability to develop and conduct appropriate experimentation, analyze and interpret data, and use engineering judgment to draw conclusions(Testing)
7. an ability to acquire and apply new knowledge as needed, using appropriate learning strategies(case tools)

SEMESTER-VI

TITLE OF THE COURSE: Web Technology

On successful completion of the course, the students will:

1. Analyze given assignment to select sustainable web development and design methodology.
2. Develop web based application using suitable client side web technologies.
3. Use knowledge of HTML and CSS code and an HTML editor to create personal and/or business websites following current professional and/or industry standards.
4. Develop solution to complex problems using appropriate method, technologies, frameworks, web services and content management

B.Com. Course Structure under CBCS:

Year	Sem	Course	Title of the Course	Internal	External	Total
				Marks	Marks	Marks
I	I	I	Office Automation Tools	25	75	100
	II	Foundation Course	Information & Communication Technology-1	-	50	50
II	III	Foundation Course	Information & Communication Technology-2	-	50	50
	III	III	Computer Fundamentals & Photoshop	25	75	100
			OAT & Photoshop - Lab	-	50	50
			Business Analytics	25	75	100
	IV	IV	Business Analytics – Lab	-	50	50
			Business Analytics	25	75	100
III	V	V	Programming in C	25	75	100
			Programming in C Lab	-	50	50
			Database Management System	25	75	100
			Database Management System Lab	-	50	50
	VI	VI	Web Technologies	25	75	100
			Web Technologies Lab	-	50	50
			E-Commerce	25	75	100
			E-Commerce	-	50	50

Office Automation Tools

Course Objectives:

1. Giving students an in-depth understanding of why computers are essential components in business, education and society.
2. Introduce the fundamentals of computing devices and reinforce computer vocabulary, particularly with respect to personal use of computer hardware and software, the Internet, networking and mobile computing.
3. Providing hands-on use of Microsoft Office applications Word, Excel, Access and PowerPoint.
4. Completion of the assignments will result in MS Office applications knowledge and skills. -Provide foundational or "computer literacy" curriculum that prepares students for lifelong learning of computer concepts and skills.
5. Completion of course fulfills pre-requisite to enroll in other computer science courses required for a certificate.

Student Learning Course Outcomes:

Upon completion of this course, the student will be able apply technical knowledge and perform specific technical skills, including:

1. Describe the usage of computers and why computers are essential components in business and society.
2. Utilize the Internet Web resources and evaluate on-line e-business system.
3. Solve common business problems using appropriate Information Technology applications and systems.
4. Identify categories of programs, system software and applications. Organize and work with files and folders.
5. Describe various types of networks network standards and communication software.

Computer Fundamentals & Photoshop

Course Objectives:

1. Learn basic principles of using Windows operating system.
2. learn and practice basic keyboarding and mouse use.
3. be able to access the Internet, Worldwide Web, as well as use Internet directories and search engines, and locate www addresses.
4. Be able to find and evaluate information on the Web
(Learn how to be critical and evaluate what is valid and reliable).
5. learn basic computer and keyboarding related vocabulary in English.
6. Learn the basics of e-mail, such as sending, forwarding and receiving mail, attaching documents, creating mailboxes, filters, and address books.
7. learn basic word processing skills with Microsoft Word, such as text input and formatting, editing, cut, copy and paste, spell check, margin and tab controls, keyboard shortcuts, printing, as well as how to include some graphics such as pictures and charts.
8. In general, develop an intuitive sense of how computers work
And how they can be used to make your academic work more efficient.
9. Identify the five categories of Adobe Photoshop tools.
10. Identify the 18 Primary Tools of the Adobe Photoshop toolbar.
11. Identify the 39 Secondary Tools of the Adobe Photoshop toolbar.
12. Identify each tool corresponding keyboard shortcut.

Course Outcomes:

At the end of the course, students will be able to

- Use technology ethically, safely, securely, and legally.
- Identify and analyze computer hardware, software, and network components.
- Design basic business web pages using current HTML/CSS coding standards.
- Install, configure, and remove software and hardware.
- Describe what Adobe Photoshop is and how it can be useful to you.
- Demonstrate working with images.
- Demonstrate working with selections, layers, and painting tools.
- Demonstrate methods for photo retouching.
- Demonstrate using masks and the quick mask mode.
- Demonstrate creating special effects.

Business Analytics**Course Objectives:**

The objectives are:

1. Describe Business Analytics.
2. Explain the terminology associated with Business Analytics.
3. Describe the data warehouse and the elements of the data warehouse.
4. Describing the process of setting up Databases.
5. Describing and demonstrate setting up virtual cubes and mapping existing dimensions to a cube.

Course Outcomes:

1. Apply knowledge of management techniques in business environment.
2. Design predictive and descriptive analysis on the basis of data.
3. Evaluate the systems and processes used in an organization including the planning, decision-making, group dynamics, innovation, production, supply chain, operations, technologies, marketing and distribution management.
4. Design alternatives to solve business problems utilizing quantitative analysis, critical thinking and sound ethical decision making.
5. Use research based knowledge and methods, including company analysis, primary and secondary data collection, analysis and interpretation of data find solutions to business problems.
6. Organize and critically apply the concepts and methods of business analytics.
7. Interpret data using latest data analytics tools to address organizational problems.
8. Demonstrate a global outlook with the ability to identify aspects of the global business operations.
9. Interpret data using latest data analytics tools to address organizational problems.
10. Summaries, process and transform data for obtaining meaningful conclusions.
11. Communicate effectively in various forms by effective use of recent technology and logical reasoning for presentations, documentation, report writing, manual preparation.
12. Adapt life-long learning and professional development to enrich knowledge and competencies.

Programming in C

Course Objectives:

- The course is designed to provide complete knowledge of C language.
- Students will be able to develop logics which will help them to create programs, applications in C.
- By learning the basic programming constructs they can easily switch over to any other language in future.

Course Outcomes:

Upon the completion of the course, students will be able to:

- After the completion of this course, the students will be able to develop applications
- Ability to implement the algorithms and draw flowcharts for solving Mathematical and Engineering problems.
- Demonstrate an understanding of computer programming language concepts.
- To be able to develop C programs on Linux platform. Ability to design and develop Computer programs, analyzes, and interprets the concept of pointers, declarations, initialization, operations on pointers and their usage.
- Able to define data types and use them in simple data processing applications also he/she must be able to use the concept of an array of structures.
- A student must be able to define union and enumeration user defined data types.
- Develop confidence in self education and ability for lifelong learning needed for Computer language.

Database Management System

Course Objectives:

The objective of the course is to present an introduction to database management systems, with an emphasis on how to organize, maintain and retrieve - efficiently, and effectively - information from a DBMS.

Course Outcomes:

Upon successful completion of this course, students should be able to:

- ❖ Describe the fundamental elements of relational database management systems
- ❖ Explain the basic concepts of relational data model, entity-relationship model, relational database design, relational algebra and SQL.
- ❖ Design ER-models to represent simple database application scenarios
- ❖ Convert the ER-model to relational tables, populate relational database and formulate SQL queries on data.
- ❖ Improve the database design by normalization. • Familiar with basic database storage structures and access techniques: file and page organizations, indexing methods including B tree, and hashing.

Web Technologies:

Course Description and Objectives:

On completion of this course,

- A student will be familiar with client server architecture and able to develop a web application using java technologies.
- Students will gain the skills and project-based experience needed for entry into a web application and development careers.
- Students are able to develop a dynamic webpage with the use of java script.

Course Outcomes:

- Students will be able to connect a web program
- Students will be able to write a well formed / valid XML document.
- DHTML Students will be able to write a server side web application.
- Students will be able to write a server side java application form data sent from client, process it and store it in the database, data sent from the client and store it on the database.

E-Commerce:**Course Description and Objectives:**

- This course provides an introduction to information systems for business and management.
- It is designed to familiarize students with organizational and managerial foundations of systems, the technical foundation for understanding information systems.

Course Outcomes:

After Completion of the subject student should able to

- Understand the basic concepts and technologies used in the field of management information systems.
- Have the knowledge of the different types of management information systems.
- Understand the processes of developing and implementing information systems.
- Be aware of the ethical, social, and security issues of information systems.

B.B.A. Course Structure under CBCS:

Year	Sem	Course	Title of the Course	Internal	External	Total
				Marks	Marks	Marks
I	I	I	Information Technology for Managers	25	75	100
	II	Foundation Course	Information & Communication Technology-1	-	50	50
II	III	Foundation Course	Information & Communication Technology-2	-	50	50
III	V	V	E-Commerce	25	75	100

IT for Managers:**Course Objectives:**

- The main objective of this course is to help the students to get aware towards varied management principles and practices.
- It details the different functions of management such as planning, organizing, staffing, directing, and controlling.

Course Outcomes:

Upon successful completion of this course, students should be able to:

1. Describe the influence of historical forces on the current practice of management.
2. Identify and evaluate social responsibility and ethical issues involved in business situations and logically articulate own position on such issues.
3. Explain how organizations adapt to an uncertain environment and identify techniques managers use to influence and control the internal environment.
4. Describe the process of management's four functions: planning, organizing, leading, and controlling.
5. Identify and properly use vocabularies within the field of management to articulate one's own position on a specific management issue and communicate effectively with varied audiences.
6. Evaluate leadership styles to anticipate the consequences of each leadership style.

E-Commerce:

Course Description and Objectives:

- This course provides an introduction to information systems for business and management.
- It also describes the E-Business technologies for payment systems and customer relationship management.
- It is designed to familiarize students with organizational and managerial foundations of systems, the technical foundation for understanding information systems.

Course Outcomes:

After Completion of the subject student should be able to

- Understand the basic concepts and technologies used in the field of management information systems.
- Have the knowledge of the different types of payment systems.
- Understand the processes of developing and implementing customer relationships.
- Be aware of the ethical, social, and security issues of information systems.

HoD Profile:**Name:**T.Swarnalatha**Qualification:** M.C.A(Ph.D)**Experience:** 11**Faculty Profile:**

Name	Qualification	Designation	Specialization	Teaching Experience
SmtT.Swarnalatha	M.C.A ,(Ph.D)	Asst. Professor	Networking	11
Sri S.Ravi Kumar	M.C.A, N.E.T.,(Ph.D)	Asst. Professor	Cloud Computing	13
SmtSubhashini	M.C.A	Asst. Professor		11

List of Visiting Faculty:

Name	Designation	Institute	Teaching Experience
Sri Adinarayana	Asst. Professor	P.V.KRISHNA KISHORE Degree College, Anantapur	15

Percentage of Lecturers delivered and Practical Classes handled:

Name of the faculty	Total work load	Classes handled	Practical Classes handled
SmtT.Swarnalatha	30 classes per week	20 theory	10 practical
Sri S.Ravi Kumar	12 classes per week	8 theory	4 practical
SmtSubhashini	12 classes per week	8 theory	4 practical

Student-Teacher Ratio:

Level	Class	Number of Teachers	Student Teacher Ratio
UG	I BSC	01	40:1
	II BSC		24:1
	III BSC		20:1

Number of academic staff (technical) and administrative staff:

	Sanctioned	Filled
Lab Assistants	01	01
Lab Attendants	01	-

Qualification of Teaching Faculty:

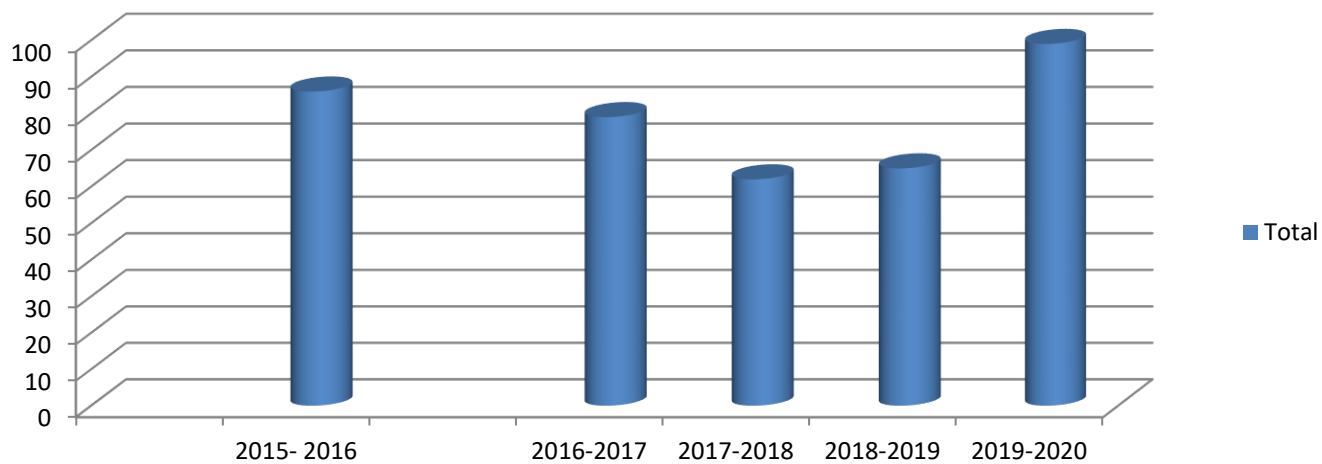
PDF	PhD	M.Phil	PG with NET/SLET	PG
-	-	-	01	02

- List of eminent academicians and scientists / visitors to the department : NIL
- Seminars/ Conferences/Workshops organized : NIL

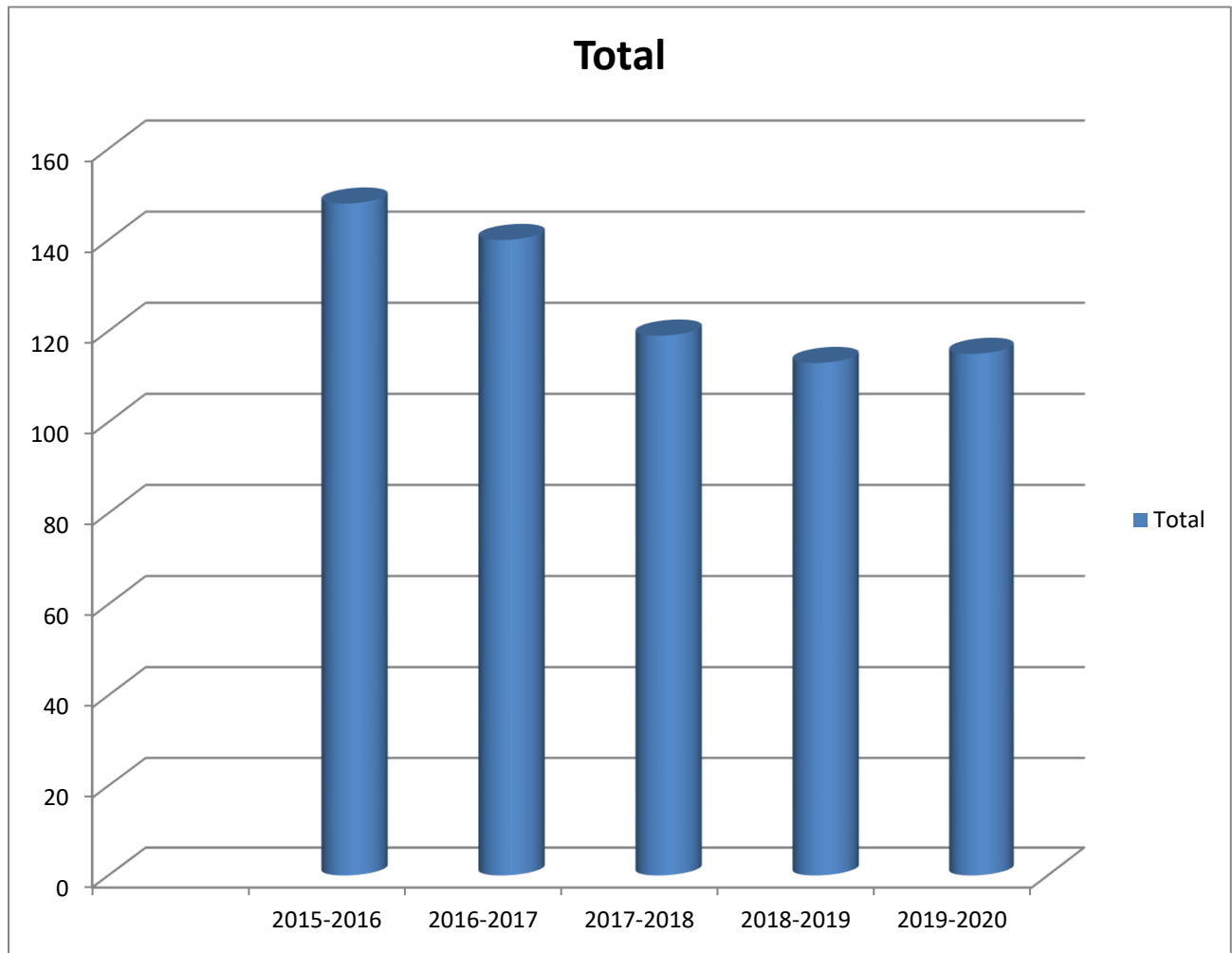
Student Profile program wise:

Name of the course	Year	Total Seats	Enrolled		Total
			Male	Female	
B.Sc	2015- 2016	150	32	54	86
	2016-2017	150	34	45	79
	2017-2018	150	32	30	62
	2018-2019	150	28	37	65
	2019-2020	150	55	44	99

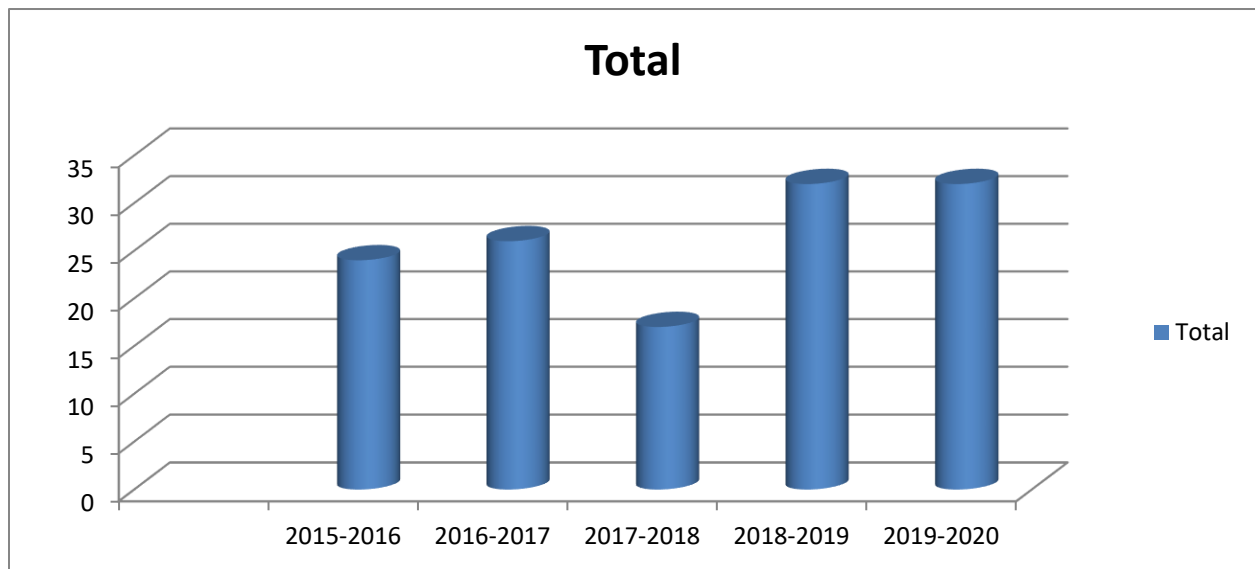
Total



Name of the course	Year	Total Seats	Enrolled		Total
			Male	Female	
B.Com	2015-2016	180	70	78	148
	2016-2017	180	87	53	140
	2017-2018	180	80	39	119
	2018-2019	180	57	56	113
	2019-2020	180	60	55	115



Name of the course	Year	Total Seats	Enrolled		Total
			Male	Female	
B.B.A	2015-2016	60	12	12	24
	2016-2017	60	18	8	26
	2017-2018	60	8	9	17
	2018-2019	60	19	13	32
	2019-2020	60	29	3	32

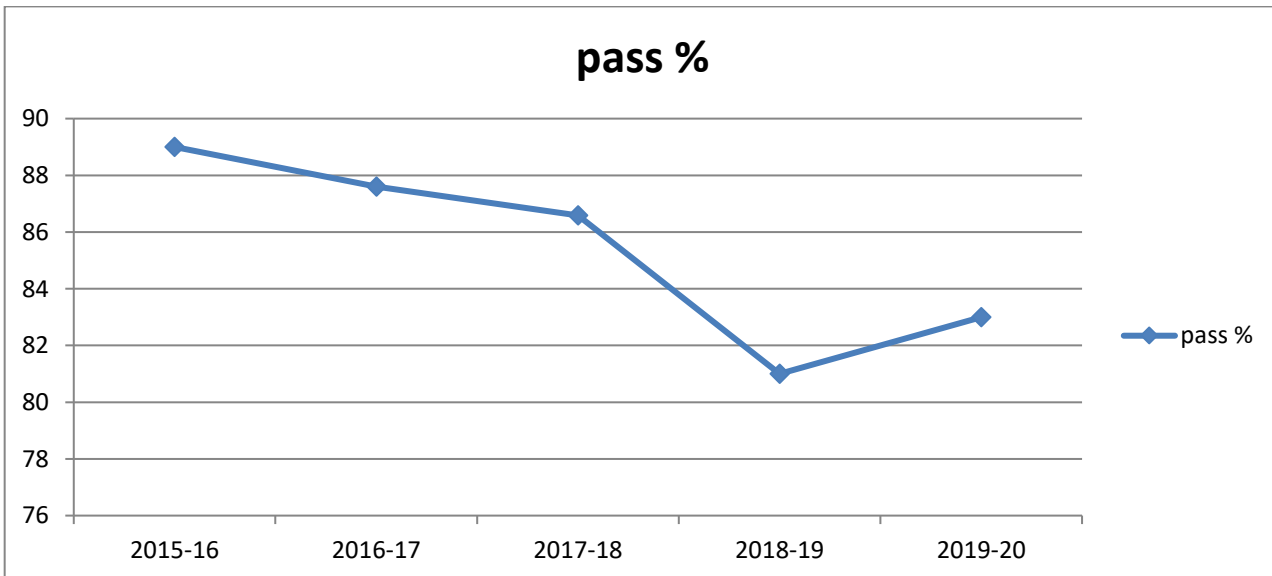
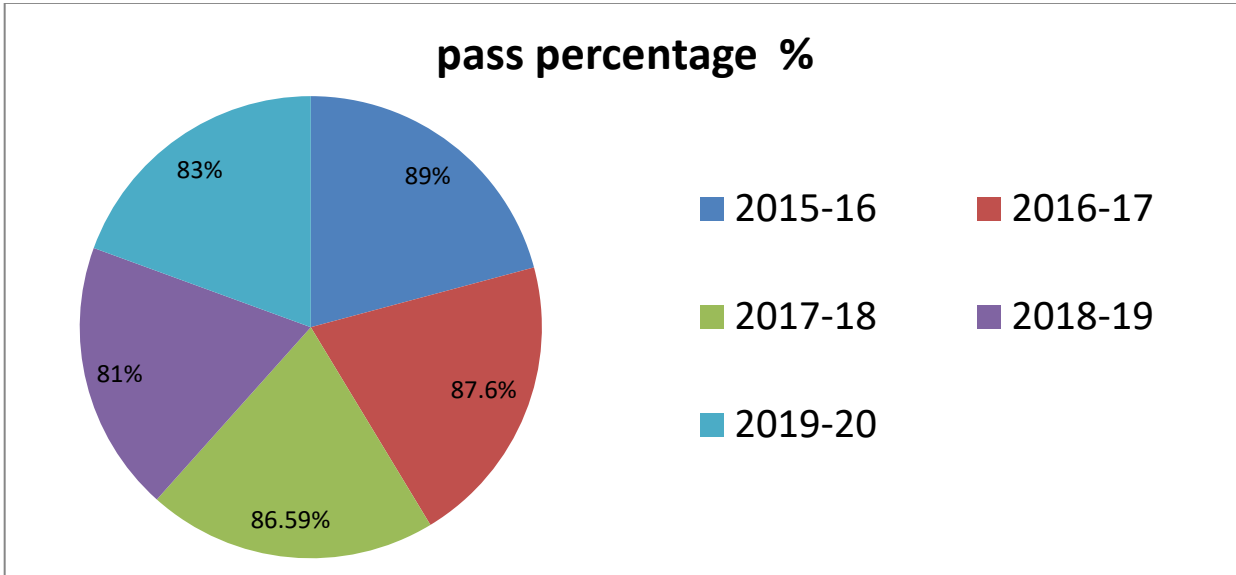


Pass percentage:

B.Sc:

Year	Month	Sem	Appeared		Passed		Pass Percentage
			M	F	M	F	
2015-16	Nov/Dec	I	31	50	27	48	92.5
	Mar/Apr	II	27	46	16	44	82.1
2016-17	Nov/Dec	I	30	43	23	36	80.8
		III	27	49	23	47	92.1
	Mar/Apr	II	31	39	22	29	72.85
		IV	26	48	18	45	85
2017-18	Nov/Dec	I	29	27	18	26	80
		III	29	40	25	36	88
		V (P-5)	26	48	21	45	89.18
		V (P-6)	25	48	21	47	93.15
	Mar/Apr	II	24	26	15	25	80
		IV	26	39	21	35	86
VI (ELE)		25	42	19	42	91	
2018-19	Nov/Dec	I	22	39	15	33	77
		III	21	24	13	22	77.7
		V (P-5)	9	13	8	12	95
		V (P-6)	26	18	24	18	95.45
	Mar/Apr	II	20	36	17	29	82.1
		IV	7	6	7	6	92.8
		VI (ELE)	24	35	20	24	74.57
		C-1	6	3	6	3	100
C-2		6	3	6	3	100	
C-3	6	3	6	3	100		
2019-20	Nov/Dec	I	49	47	38	42	83.33
		III	21	33	15	31	85.18
		V (P-5)	26	18	23	18	93.1
		V (P-6)	26	18	24	18	95.45
	Mar/Apr	II					
		IV					
VI							

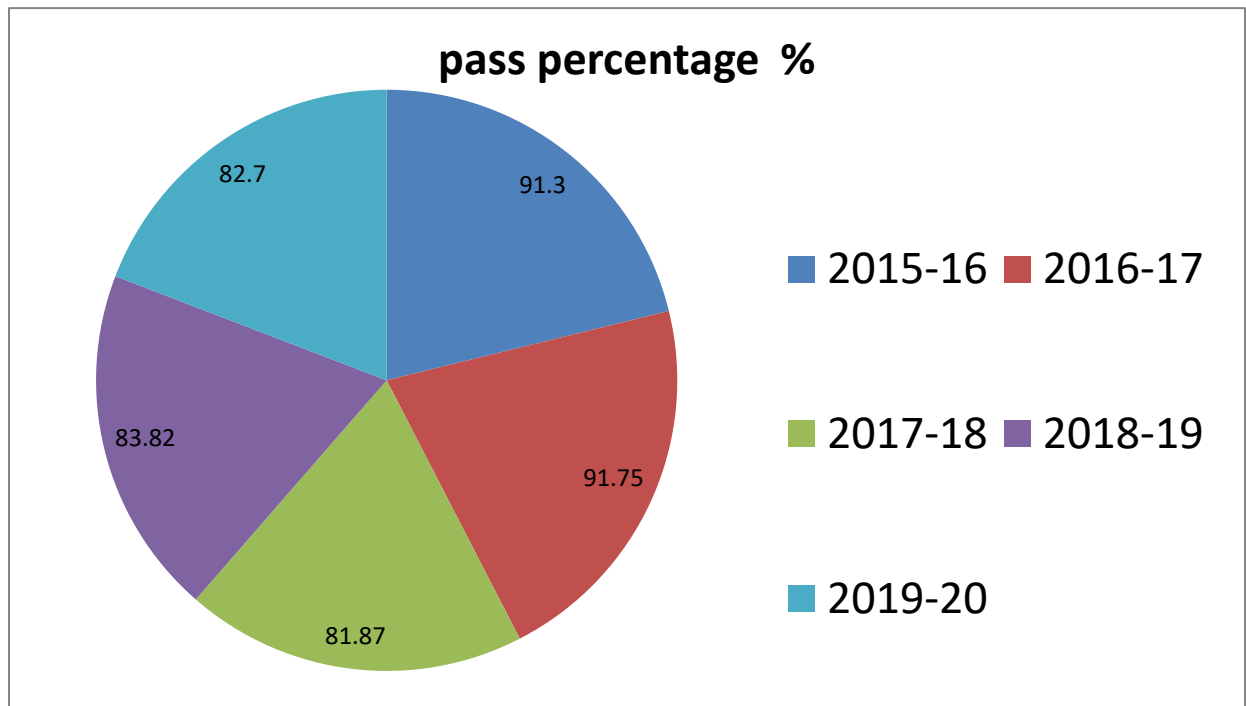
Overall (year wise) pass percentage:

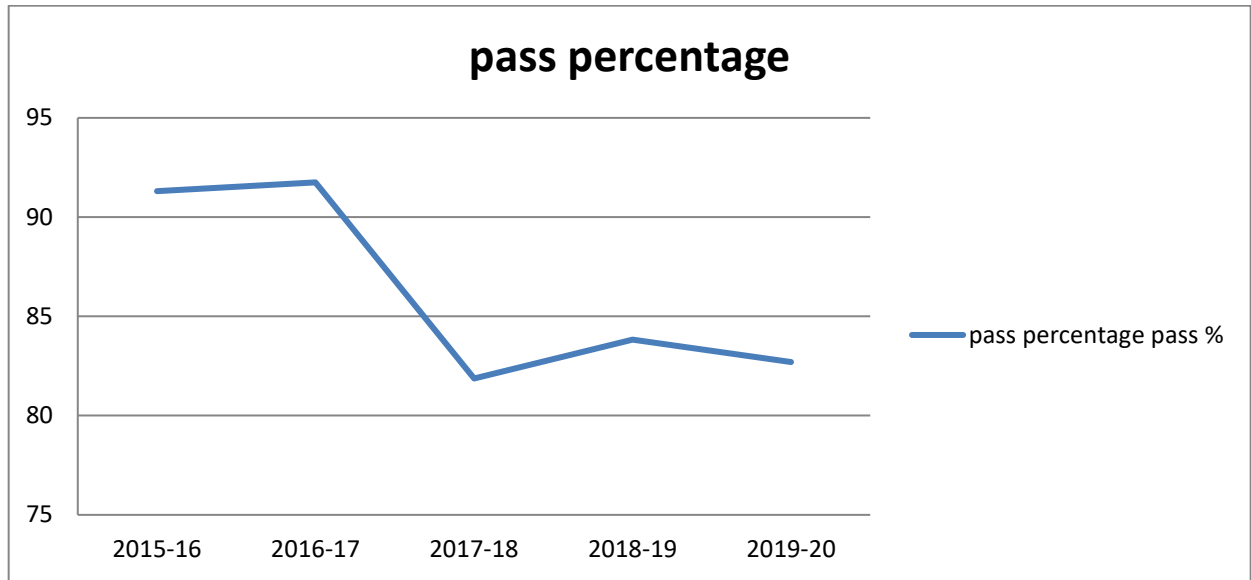


B.com:

Year	Month	Sem	Appeared		Passed		Pass Percentage
			M	F	M	F	
2015-16	Nov/Dec	I	63	76	52	75	91.3
	Mar/Apr	II					
2016-17	Nov/Dec	I	75	51	61	49	87.3
		III	51	67	37	67	96.2
	Mar/Apr	II					
		IV	50	68	43	62	88.9
2017-18	Nov/Dec	I	72	25	46	23	71.1
		III	56	43	39	42	82
		V (P-5)	43	66	28	58	79
		V (P-6)	41	66	31	61	86
	Mar/Apr	II					
		IV	51	42	31	37	77
		VI(P-5)	40	65	32	60	88
		VI (P-6)	40	65	30	65	90
2018-19	Nov/Dec	I	58	52	32	47	72
		III	62	26	49	26	85
		V (P-5)	39	39	32	35	86
		V (P-6)	39	39	35	38	94
	Mar/Apr	II					
		IV	61	24	49	23	84.7
		VI(P-5)	50	35	32	33	78.31
		VI(P-6)	50	35	40	32	86.74
2019-20	Nov/Dec	I	57	52	40	51	83.48
		III	47	46	27	42	74
		V (P-5)	57	29	45	28	84.8
		V (P-6)	57	29	46	28	86
	Mar/Apr	II					
		IV					
		VI(P-5)					
		VI(P-6)					

Overall (year wise) pass percentage:



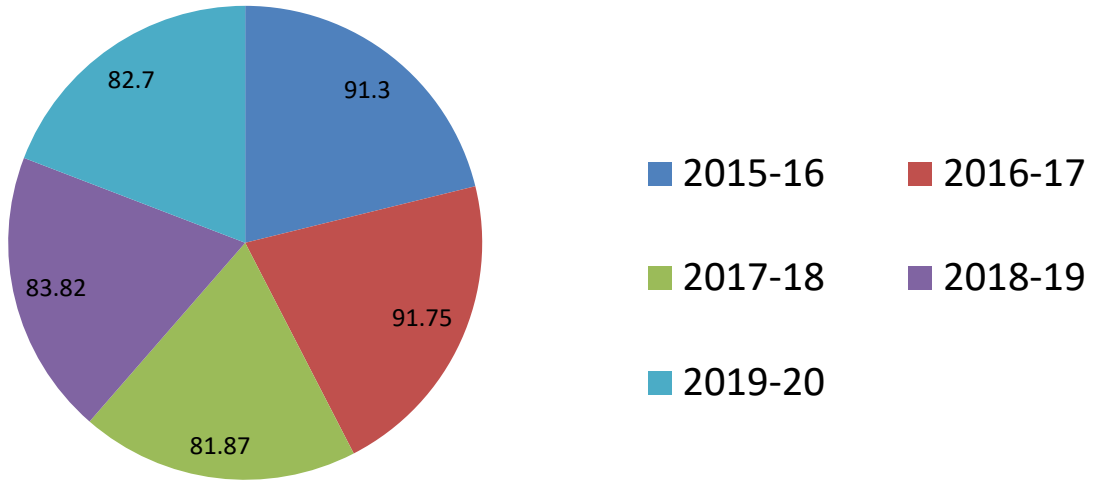


B.B.A:

Year	Month	Sem	Appeared		Passed		Pass Percentage
			M	F	M	F	
2015-16	Nov/Dec	I	11	12	10	11	91.3
2016-17	Nov/Dec	I	13	9	5	8	59
2017-18	Nov/Dec	I	12	10	11	10	95.4
	Nov/Dec	V	8	8	7	8	93.7
2018-19	Nov/Dec	I	11	18	11	7	97
	Nov/Dec	V	6	10	6	8	87.5
2019-20	Nov/Dec	I	26	4	17	3	66.66

Overall (year wise) pass percentage:

pass percentage (%)



Diversity of Students:

Name of Course	% of students from the same state	% of students from other state	% of students from abroad
UG	100	-	-

Details of Infrastructure facilities:

Library:

There is a central library to cater to the need of the students. Department does not have a library. But the complimentary copies provided by different publisher are provided in the department for the use of the student.

Internet facility for staff and students:

Yes (only for staff)

Classroom with ICT facility:

Yes

Laboratories:

Yes. Department has one single lab

Details of student enrichment programme (Special lectures/ workshops/ seminar) with external experts:

Nil

Number of students receiving financial assistance from college, university, government or other agencies:

Data maintained by the college

Teaching methods adopted to improve student learning:

- Lecture
- Demonstration

- Practical
- Assignments
- PPT's
- Classeminars
- Quiz
- Question and answers
- Labdemo
- Question paper discussion
- Test
- Science exhibition
- Group discussion

Participation in Institutional Social Responsibility (ISR) and Extension Activities:

Our students participated in NSS activities, seminars and quizzes conducted by college.

- 60 number of NSS volunteers are participated in 5th International Yoga Day Celebrations on June 21th 2019
- 55 number of NSS volunteers are attended the awareness program on Solid Waste Management (6th July 2019)
- 45 number of students marched through the streets of kakkalapalli village to spread awareness on solid waste management (7th July 2019)
- 20 number of NSS volunteers participated in tree plantation programme to create social awareness about the importance of tree as well as planted trees in college campus (23rd July 2019)
- 30 number of NSS volunteers are participated in clean campus programme (25th July 2019)
- On occasion of Jal Shakti Abhiyan (JSA) focused on water conservation, our students did removing thorn trees and digging pits in kakkalapalli pond (29th July 2019)
- On the glorious occasion of our mighty country's 73rd independence day, our college hosted a simple and elegant flag hoisting ceremony
- 60 number of NSS volunteers are participated lecture series on the focus of poshanmaah (Nutrition Month) on the occasion of Poshan Abhiyan Jan Andolan Dashboard (14th Sep 2019)
- 40 number of students are participated in blood grouping camp conducted in college on 15th Sep 2019
- On the occasion of Foundation Day of NSS, Unit-II conducting awareness program about NSS, Essay writing & poster presentation on NSS activities, in this event 20 number of students are participated (24th Sep 2019)
- On the occasion of Mahatma Gandhi 150th Birth Anniversary (Gandhiji's Nai Talim), 50 number of NSS Unit-II volunteers participated in tree plantation and cleanliness drive in the college campus (3rd Oct 2019)
- On the occasion of Constitution day, NSS Unit-II conducting classroom lecture (26th Nov 2019)
- 20 number of NSS volunteers are participated in activities (Quiz, Elocution, Poster presentation & Painting) carried out in college on the occasion of 150th Birth Anniversary of Mahatma Gandhi (Dec 2019)

- 20 number of NSS volunteers are participated University level Youth festival will be conducted 22nd Jan at Bhuvanavujayam, Sri KrishnadevarayaUniversity,Anantapuramu

Facilities:

- the department has its own computing facilities for faculty and students of the department.
- one Windows Lab is well equipped with 50 desktop computers. This lab is available from 8 AM to 1.30 PM.
- Another Windows Lab is well equipped with 40 desktop computers. This lab is also available from 8 AM to 1.30 PM.
- Two seminar rooms equipped with projectors and screen;
- We have provided B/W Laser printer to all the students for UG and PG students it is on request basis.

Library books:

- ❖ Fundamentals of Computers
- ❖ Office Automation tools
- ❖ Microsoft office bible
- ❖ Photo shop
- ❖ Photoshop: Beginner's Guide for Photoshop
- ❖ Introduction to C Programming
- ❖ Computer fundamentals and C Programming
- ❖ Programming with ANSI C and Turbo C
- ❖ Programming with JAVA
- ❖ Deitel&Deitel. Java TM: How to Program
- ❖ Object Oriented Programming Through Java
- ❖ Data Structures Using C++
- ❖ Classic Data Structures,
- ❖ Introduction to Data Structures with Applications
- ❖ Fundamentals of Database Systems by R. Elmasri and S. Navathe
- ❖ "Database Management Systems" by Raghu Ramakrishnan, McGrawhill
- ❖ "An Introduction to Database Systems" by Bipin C Desai

- ❖ Roger Pressman S., "Software Engineering: A Practitioner's Approach"
- ❖ Operating System Principles, Abraham Silberchatz, Peter B. Galvin, Greg Gagne
- ❖ Andrew S. Tanenbaum, "Computer Networks"
- ❖ James F.Kurose, Keith W.Ross, "Computer Networking"
- ❖ Kurose & Ross, "COMPUTER NETWORKS"
- Harvey M. Deitel and Paul J. Deitel, "Internet & World Wide Web How to Program"

SWOC analysis of the department and future plans:

Strengths:

1. Qualified, experienced and dedicated teaching faculty with good retention ratio.
2. Laboratories with State of the Art equipment and modern software tools.
3. Faculty contributing in design development and implementation of curriculum in Board of Studies of an Affiliating University.
4. Effective use of ICT in teaching learning process.
5. Student centric functioning with mentoring, counseling through teachers and Effective academic monitoring.
6. Active NSS Unit.
7. Professional Society Chapters in every department.
8. Safe and Secured Environment for girl students.

Weaknesses:

1. Less Industry – Institute interaction.
2. Moderate Placement ratio.
3. Institute lacks in revenue generation.
4. Involvement of Alumni at Institute level is less.
- 5.

Opportunities:

1. To arrange more number of FDPs /STTPS/ National Level /International Level conferences.
2. To arrange specialized Training programs by the faculty.
3. Scope for interdisciplinary and sponsored projects.
4. Scope for improvement of digital literacy amongst students.

Challenges:

1. Strengthen Industry-Institute Interaction.
2. More placements in core companies.
3. Encouraging students for competitive examinations and higher studies.
4. More focus on Industrial training for faculty and students.
5. Girl students with varied socio- economic background.

