SRI VANI PG COLLEGE

(Affiliated to Sri Krishnadevaraya University::Ananthapuramu)
Near Sakshi Office, Kakkalapalli Cross, Ananthapuramu
Andhra Pradesh, India- 515002

DEPARTMENT OF COMPUTER SCIENCE

DEPARTMENT PROFILE: COMPUTER SCIENCE

The Department of Computer Sciences is established in the year 2018 with an PG Course- M.Sc (Computers).The Department has equipped with latest laboratory which enables the students to have the best practical knowledge to compete with the Industrial needs.The Department organized webinars, Quizzes & Competitions. The Department consistently encourages the students to participate in Sports and other extracurricular activities.The Department adopted and made the ICT in teaching techniques effectively.

Vision:

"To penetrate and dissipate these clouds of darkness, the general mind must be strengthened by education.".

Mission:

"All students should learn how to use the latest technologies for aiding their learning process. College should equip themselves with adequate themselves with adequate computing equipment, laboratory equipment and internet facilities and provide an environment for the students to enhance their learning ability".

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Courses / Programs offered:

S. No	Level	Course
01	**PG**	**M. Sc Computer Science**

COURSE STRUCTURE FOR M.Sc.(Computer Science):

I SEMESTER

S.No.	Paper Code	Paper Title	Number of credits	Workload per Week in Hours	Sessionals	End Semester	Total
1	MSC1T1	Discrete Structures	4	4	30	70	100
2	MSC1T2	Data Structures	4	4	30	70	100
3	MSC1T3	Computer Organization	4	4	30	70	100
4	MSC1T4	Operating Systems	4	4	30	70	100
5	MSC1T5	Database Management Systems	4	4	30	70	100
6	MSC1P1	Data Structures through C++ Lab	2	4		50	50
7	MSC1P2	SQL & Oracle Lab	2	4		50	50
8	MSC1P3	Visual Programming Lab	2	4		50	50
			26	32	150	500	650

II SEMESTER

S.No.	Paper Code	Paper Title	Number of credits	Workload per Week in Hours	Sessionals	End Semester	Total
1	MSC2T1	Object Oriented Programming through Java	4	4	30	70	100
2	MSC2T2	Computer Networks	4	4	30	70	100
3	MSC2T3	Web Technologies	4	4	30	70	100
		Open Elective (offered to other discipline students)					
4	MSC2T4	Computer Ethics	4	4	30	70	100
5	MSC2T5.1	Systems Software	4	4	30	70	100
	MSC2T5.2	Design and Analysis of Algorithms					
	MSC2T5.3	Computer Graphics					

6	MSC2P1	Object Oriented Programming through Java Lab	2	4	-	50	50
7	MSC2P2	Computer Networks Lab	2	4	-	50	50
8	MSC2P3	Web Technologies Lab	2	4	-	50	50
			26	32	150	500	650

III SEMESTER

S.No.	Paper Code	Paper Title	Number of credits	Workload per Week in Hours	Maximum Marks		
					Sessionals	End Semester	Total
1	MSc3T1	Software Engineering	4	4	30	70	100
2	MSc3T2	Unix Network Programming	4	4	30	70	100
3	MSc3T3	The .NET Technologies	4	4	30	70	100
		Open Elective (offered to other discipline students)					
4	MSc3T4	Green IT	4	4	30	70	100
5	MSc3T5.1	Cryptography and Network Security	4	4	30	70	100
	MSc3T5.2	Multimedia and rich Internet Applications					
	MSc3T5.3	Software Project management					
6	MSc3P1	Software Engineering Lab	2	4	-	50	50
7	MSc3P2	Unix Network Programming Lab	2	4	-	50	50
8	MSc3P3	The .NET Technologies Lab	2	4	-	50	50
			26	32	150	500	650

IV SEMESTER

S.No.	Paper /Project code	Paper Title	Number of Credits	Duration of the Project	Maximum Marks		
					Sessionals	End Semester	Total
1	MSc 4P	Major Project Work – Viva-Voce	08	16 weeks	40	160	200

➢ Participation of Interdisciplinary Courses and the departments/ units involved: 01

➢ Participation of the department in the courses offered by other departments: 01

➢ Courses collaboration with other universities, Industries, foreign institutions: NIL

➢ Details of courses/ programmes discontinued (if any) with reasons: NIL

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NUMBER OF TEACHING POSTS:

S. No	Post	Sanctioned	Filled
01	Teaching	06	06
02	Lab	02	02
03			

PROGRAM OUTCOMES, PROGRAM SPECIFIC OUTCOMES & COURSE OUTCOMES:

Programme 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	**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.
PO4	**Ethics:** Apply ethical principles and commit to professional ethics and responsibilities and norms of the scientific practice.
PO5	**Individual and team work:** Function effectively as an individual, and as a member or leader in diverse teams, and in multidisciplinary settings.
PO6	**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.
PO7	**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.
PO8	**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

PROGRAMME SPECIFIC OUTCOMES:

Programme Specific Outcomes:	
PSO1	Communicate computer science concepts, designs, and solutions effectively and professionally
PSO2	Apply knowledge of computing to produce effective designs and solutions for specific problems
PSO3	Use software development tools, software systems, and modern computing platforms.
PSO4	Get prepared for placement by developing personality & soft skills.
PSO5	Communicate scientific information in a clear and concise manner.
PSO6	Build up programming, analytical and logical thinking abilities.

COURSE OUTCOMES:

SEMESTER I

TITLE OF THE COURSE:: DISCRETE STRUCTURES

- ❖ Be able to construct simple Mathematical proofs of set theory and define the concept of sets.
- ❖ Understand the construction of truth tables of propositional logics (AND, OR, Conditional, Bi-conditional, Negation, Exclusive OR).
- ❖ Be able to apply basic counting techniques to solve combination problems.
- ❖ Gain experience in using various techniques of Mathematical Induction (weak, strong induction) and to prove simple steps of a mathematical properties.
- ❖ Derivation of principle of Inclusion, Exclusion and pigeon-hole principle.
- ❖ By learning of Graphs, weighted Graphs and Construction of trees, variation of Normal trees Variation of Normal trees and Binary trees.
- ❖ By learning how to find the co-efficient of Generating functions and simple solved problems.
- ❖ Be able to construct the Minimal spanning tree and find optimal cost or Minim al Cost.
  - ❖ Be able to know the Recurrence formula in sequence a_n and solve the Recurrence problems

SEMESTER I

TITLE OF THE COURSE:: DATA STRUCTURES

On successful completion of this course students will:

- ❖ Understand basic data structures such as arrays, stacks and queues.
- ❖ Understand the concept of linked lists
- ❖ Solve problem involving graphs, trees and heaps
- ❖ To implement the Queue ADT using both array
- ❖ To implement the circular queue.
- ❖ Write a programs that use arrays, records, stacks, queues, trees and graphs
- ❖ Apply for solving problems like Sorting, Searching, Insertion and deletion of data.
- ❖ Compare and Implementation of dynamic and static data structures

SEMESTER I

TITLE OF THE COURSE:: COMPUTER ORGANIZATION

After successful completion of this course, students will be able to:

- ❖ To understand the structure, function and characteristics of computer systems.
- ❖ To understand the design of the various functional units and components of computers.
- ❖ To identify the elements of modern instructions sets and their impact on processor design.
- ❖ Identify, understand and apply different number systems and codes, understand the digital representation of data in a computer system.
- ❖ To explain the function of each element of a memory hierarchy,
- ❖ To identify and compare different methods for computer I/O.
- ❖ Understand the input / output and Memory related concepts

SEMESTER I

TITLE OF THE COURSE:: OPERATING SYSTEMS

Students will able to:

- ❖ Describe the important computer system resources and the role of operating system in their management policies and algorithms.
- ❖ Understand the process management policies and scheduling of processes by CPU
- ❖ Evaluate the requirement for process synchronization and coordination handled by operating system
- ❖ Describe and analyse the memory management and its allocation policies.

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❖ Identify use and evaluate the storage management policies with respect to different

Storage management technologies.

❖ Identify the need to create the special purpose operating system.

SEMESTER I

TITLE OF THE COURSE:: DATABASE MANAGEMENT SYSTEMS

At the end of this class, the successful student will:

❖ have a broad understanding of database concepts and database management system software

❖ have a high-level understanding of major DBMS components and their function

❖ be able to model an application's data requirements using conceptual modeling tools like ER diagrams and design database schemas based on the conceptual model.

❖ be able to write SQL commands to create tables and indexes, insert/update/delete data, and query data in a relational DBMS.

❖ be able to program a data-intensive application using DBMS APIs.

SEMESTER II

TITLE OF THE COURSE:: OBJECT ORIENTED PROGRAMMING THROUGH JAVA

On completion of the course the student should be able to:

❖ Use an integrated development environment to write, compile, run, and test simple object-oriented Java programs.

❖ Read and make elementary modifications to Java programs that solve real-world problems.

❖ Validate input in a Java program.

❖ Identify and fix defects and common security issues in code.

❖ Document a Java program using Javadoc.

❖ Use a version control system to track source code in a project.

SEMESTER II

TITLE OF THE COURSE:: COMPUTER NETWORKS

After completing Computer Networks course the student must demonstrate the knowledge and ability to:

❖ Independently understand basic computer network technology and identify the different types of network topologies and protocols.

❖ Describe how computer networks are organized with the concept of layered approach.

❖ Describe how signals are used to transfer data between nodes and describe how packets in the Internet are delivered.

❖ Implement a simple LAN with hubs, bridges and switches.

❖ Analyse the contents in a given data link layer packet, based on the layered concept.

❖ Describe what classless addressing scheme is, and Describe how routing protocols work.

❖ Use java programming language to implement network programs.

❖ Familiarity with the basic protocols of computer networks, and how they can be used to assist in network design and implementation.

SEMESTER II
TITLE OF THE COURSE:: WEB TECHNOLOGIES

❖ Design a basic web site using HTML5 and CSS3 to demonstrate responsive web design.

❖ Implement dynamic web validation using JavaScript objects by applying different event   handling mechanism.

❖ Build well-formed XML Document and implement Web Service using Java.

SEMESTER II
TITLE OF THE COURSE:: ADBS(NON-CBCS)

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

❖ Demonstrate an understanding of the object oriented and Distributed Data Model.

❖ Learn basic principles of the Advanced Database Management System.

❖ Understand Database Management concepts, methodologies and best practices.

❖ Demonstrate an understanding of the relational data model.

❖ Transform an information model into a relational database schema and to use a data definition language and/or utilities to implement the schema using a DBMS.

❖ Formulate, using relational algebra, solutions to a broad range of query problems.

❖ Formulate, using SQL, solutions to a broad range of query and data update problems.

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COMPUTER ETHICS (CBCS)

- ❖ Identify ethical issues in different enterprise computing settings.
- ❖ Review real-life ethical cases and be able to develop ethical resolutions and policies.
- ❖ Understand laws and regulations related to ethics.
- ❖ Understand the consequences of ignoring and non-compliance with ethical imperatives.
- ❖ Learn about the best ethical practices and models.
- ❖ Develop a sound methodology in resolving ethical conflicts and crisis.
- ❖ Learn about the issues directly related to information technology environment and professionals.

SEMESTER II

TITLE OF THE COURSE:: SYSTEMS SOFTWARE

- ❖ Detailed knowledge of Compilation process of a program..
- ❖ Knowledge of internal working of macro processor.
- ❖ Familiarization with Assembly language.
- ❖ Understanding the working of linker and loaders – components used during the process of program execution.

SEMESTER III

TITLE OF THE COURSE(3T1):: SOFTWARE ENGINEERING

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

- ❖ Learn basic principles of Software Engineering.
- ❖ Understand Software Engineering concepts, methodologies and best practices.
- ❖ Learn Software Engineering principles and approach used in the industry.
- ❖ List and classify CASE tools and discuss recent trends and research in software Engineering.
- ❖ 5. Translate the requirements model into the design model

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SEMESTER III

TITLE OF THE COURSE(3T2):: UNIX NETWORK PROGRAMMING

- ❖ Hands on experience with C language.
- ❖ Hands on experience with UNIX System Calls.
- ❖ Hands on experience with Inter Process communication System Calls.
- ❖ Develop skills in network programming techniques
- ❖ Apply the client-server model in networking applications.
- ❖ Practice networking commands available through the operating systems.
- ❖ Able to invoke a function/procedure residing in another machine.

SEMESTER III

TITLE OF THE COURSE(3T3):: THE .NET TECHNOLOGIES

- ❖ Students will understand .NET Framework and describe some of the major enhancements to the new version of Visual Basic. Students will describe the basic structure of a Visual Basic.NET project and use main.
- ❖ Features of the integrated development environment (IDE) Students will create applications using Microsoft Windows Forms.
- ❖ Students will create applications that use ADO. NET.

SEMESTER III

TITLE OF THE COURSE(3T4):: OBJECT ORIENTED ANALYSIS AND DESIGN THROUGH UML(NON-CBCS)

Students will able to:

- ❖ Analyse, design, document the requirements through use case driven approach.
- ❖ Identify, analyse, and model structural and behavioural concepts of the system.
- ❖ Develop, explore the conceptual model into various scenarios and applications.
- ❖ Apply the concepts of architectural design for deploying the code for software.

GREEN IT (CBCS)

- ❖ Understand the concept of green IT and relate it to sustainable development.
- ❖ Apply the green computing practices to save energy.
- ❖ Discuss how the choice of hardware and software can facilitate a more sustainable operation
- ❖ Use methods and tools to measure energy consumption

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❖ Recognize the benefits of green fuels with respect to sustainable development

❖ Estimate the carbon credits of various activities

SEMESTER III

TITLE OF THE COURSE (3T5):: SOFTWARE PROJECT MANAGEMENT

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

❖ Learn basic principles of Software Engineering.

❖ Understand Software Engineering concepts, methodologies and best practices.

❖ Learn Software Engineering principles and approach used in the industry.

❖ List and classify CASE tools and discuss recent trends and research in software engineering.

❖ Translate the requirements model into the design model

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HOD Profile

Name	Dr. N. Ramesh Babu
Qualification	M.Sc(CS).,M.Tech(CSE).,Ph.D.
Experience	14 Years
Email-id	ramesh.cse.vani@gmail.com
Mobile	8500820519, 9959291800

He was awarded for his doctorate of philosophy in "Enhancements to Performance of IEEE 802.11 MAC DCF Reducing Hidden and Exposed Nodes Employing Robust Retransmission, Flexible RTS/CTS and Concurrent Transmission Algorithms" under the department of Computer Science & Technology, Sri Krishnadevaraya University in the year 2016. He has attended 04 National conferences, 6 International conference and published papers in reputed International Journals. He participated in 6 Faculty Development Programs conducted by different Institutions all over india. He also guided more than 30 post graduate students for their projects during his carrier.

Faculty Profiles

S.No	Name of Faculty	Ph.D	M.Tech/MCA/M.Sc	NET/SLET/GATE
01	Dr. N. Ramesh Babu	YES	M.Tech(CSE)., M.Sc(CS).	NO
02	Dr. P. Sumalatha	YES	M.Sc (CS)	NO
03	Dr. B. Jaheeda	YES	MCA., M.Phil	NO
04	Mr. S. Ravi Kumar	NO	M.Sc (CS)	YES
05	Smt. A. Kalpana	NO	M.Tech (CSE)	NO
06	Mr. V SAIRAM	NO	M.Sc Mathematics	NO

List of Visiting Faculty:

| S.No	Name	Designation	Institute	Teaching Experience
01	Prof.N. Geethanjali	Professor	SK University	30 Years
02	Dr. V. L. Pavani	Assistant Professor	MITS, Madanapalle	18 Years
03				
04				

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Student Profile Program wise:

| Name of the Course	Year	Total seats	Enrolled		Total Strength
			Male	Female	
M.Sc. Computers	2018-2019	40	16	10	26
	2019-2020	40	9	23	32
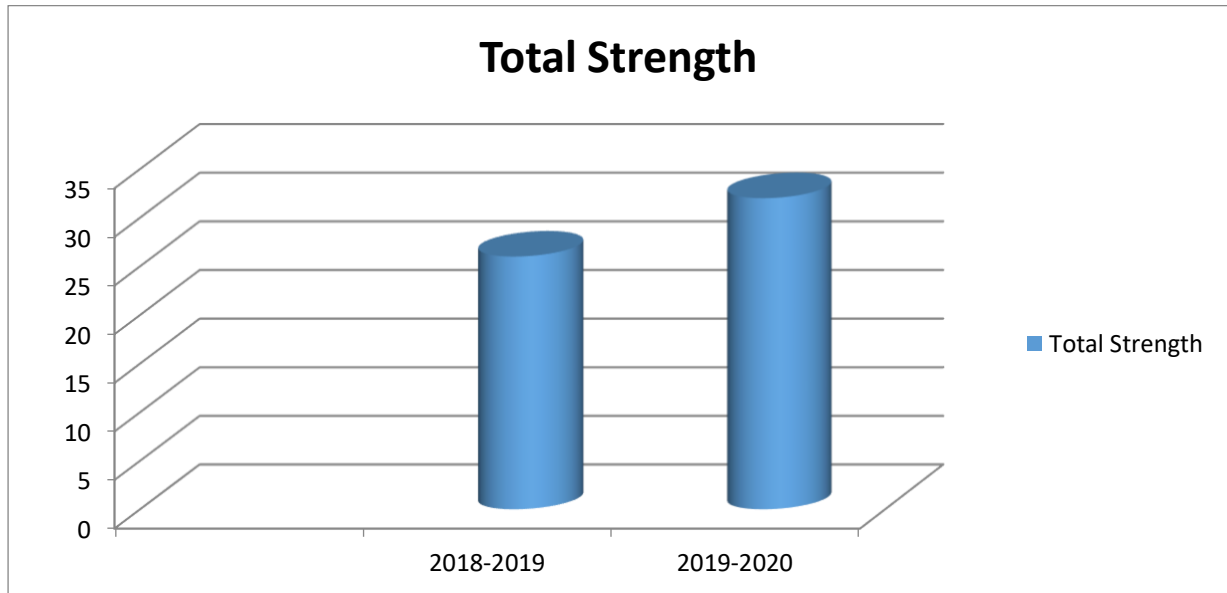
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PASS PERCENTAGE:

YEAR	MONTH	SEM	ENROLLED		APPEARED		PASS PERCENTAGE
			Male	Female	Male	Female	
2018-2019	Nov/Dec	I	16	10	16	10	23%
	Mar/April	II	16	10	16	10	19%
2019-2020	Nov/Dec	III	16	10	16	7	96%
	Mar/April	IV					
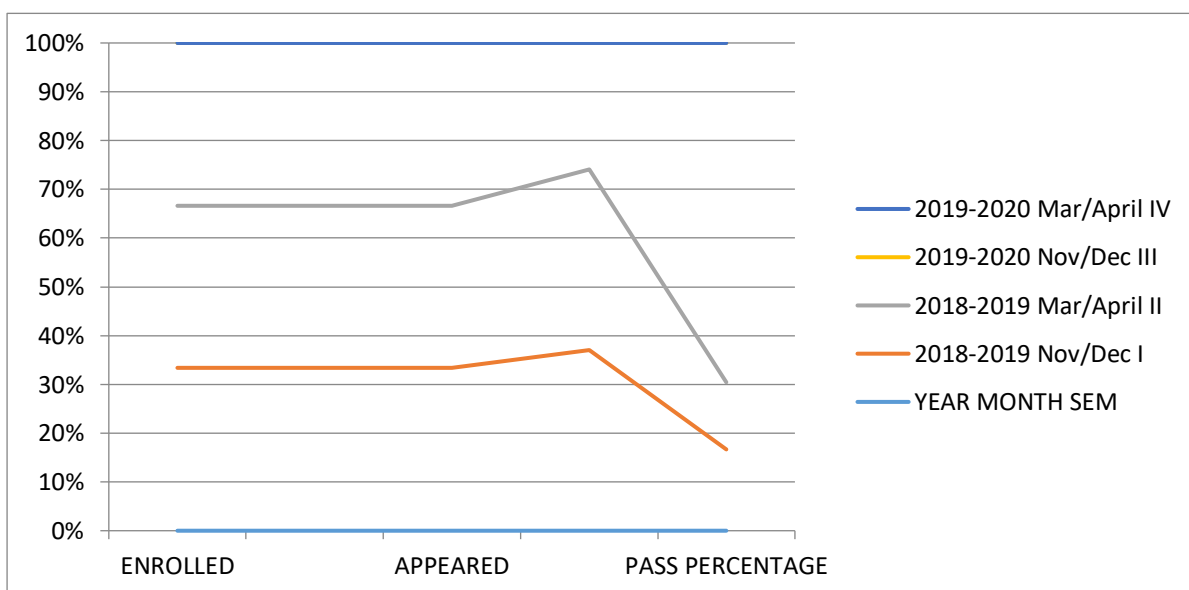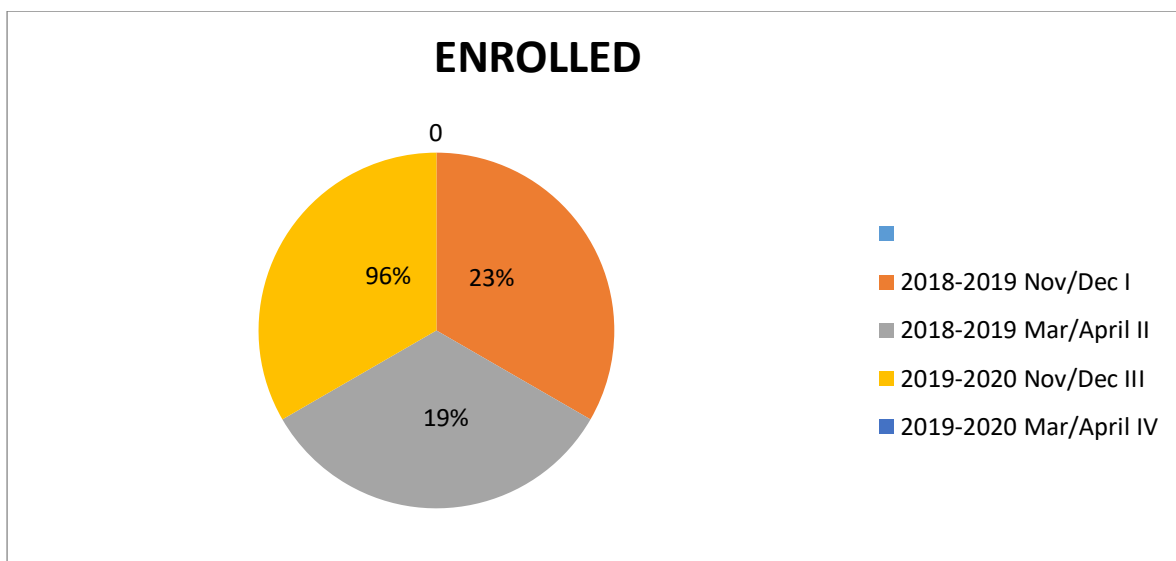
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STUDENT STRENGTH:

Year	Total Seats	Enrolled		Category										
		Male	Female	OC (F)	OC(M)	BC(F)	BC(M)	SC(F)	SC(M)	ST(F)	ST(M)	BC-E (F)	BC-E (M)
2018-19		16	10	6	5	3	7	0	1	0	0	1	3
2019-20		9	23	11	2	10	5	1	0	0	1	1	1
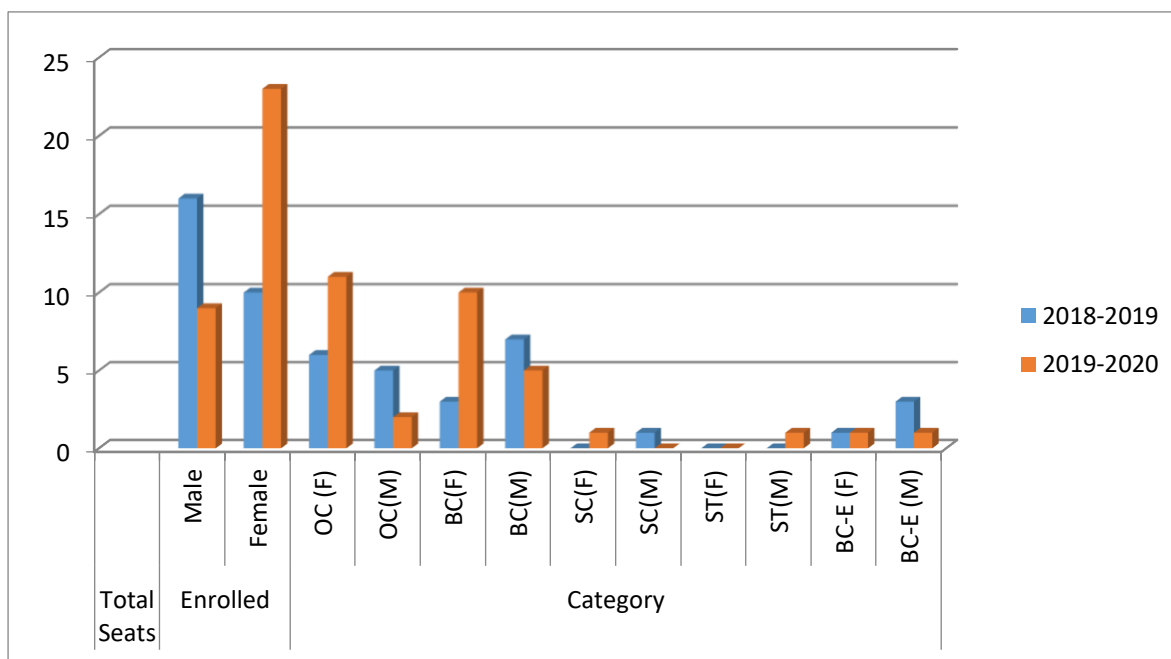
ICT & COMPUTER LABORATORY

The college has a **Computer laboratory** with abundant systems for Post Graduate students. This provides students with adequate access to the digital world. The department has 34 networked computer units. Which can be used by the staff members and the students. The laboratory is equipped with Internet facility of 10 Mbps Speed and the department is enabled With Wireless connectivity using jio Routers and D-Link Routers. The Classes are engaging with LCD Projectors.

PLACEMENT CELL

The college is equipped with an active **placement cell** that makes it possible for students to get the benefit of being placed in Campus recruitments.

WOMEN'S HOSTEL:

The Management itself maintaining College attached Hostel with minimal cost for the Students

ENVIRONMENT POLICY

Our institution strives for excellence not only in educational activities but also in activities promoting a greater environmental awareness among the youth so as to make the world a better place to live.

LIBRARY BOOKS:

1. Sartaj Sahni: Data Structures, Algorithms, and Applications in C ++, TMH

2. Pai, G A V : Data Structures and Algorithms, Tata McGraw Hill

3. Alan Weiss: Data Structures and Algorithm analysis in C++, 3/e Pearson Education.

4. Michael Main Walter Savitch: Data Structures and Other Objects Using C ++, Pearson.

5. Michael T. Goodrich Roberto Tamassia David Mount, Data Structures and Algorithms, in C ++, John Wiley & Sons.

6. William Stallings: Operating Systems, 6th Ed, Pearson Education.

7. Gary Nutt : Operating Systems 3/e, Pearson Education

8. Tanenbaum, A S: Modern Operating Systems, (PHI 2002)

9. Fred R.McFadden, Jeffrey A.Hoffer & Mary B.Prescott: Modern Database Management 5th Ed, Addison Wesley

10. Peter Rob & Carlos Coronel: Database Systems – Design, Implementation & Management 5th Ed., Thomson

11. Silber Schatz, Korth G. Sudarshan: Database System Concepts 4th Ed, TMH

12. John Dean & Raymond Dean: Introduction to Programming with JAVA, Mc Graw Hill

13. Balagurusamy, E : Programming With Java, (TMH)

14. Computer Networks – Fourth Edition Andrew S. Tanenbaum – Pearson Education India, 2003

15. James F. Kurose and Kejth W.Ross: COMPUTER NETWORKING A Top-Down Approach Featuring the Internet, Pearson Education

16. Cryptography and Network Security, Principles and Practices- Fourth Edition, William Stallings – Pearson Education

17. DEITEL & DEITEL: Internet & World Wide Web - How to Program, Pearson Education - Third Edition

18. Ivan Bayross : HTML, DHTML , Java Script , Perl, CGI, BPB Publications

19. Chris Bates: Web Programming Building Internet Applications, Second Edition, Wiley (2007)

20. Database Management Systems: Raghu Ramakrishnan and Johannes Greece - Third Edition, Mc Graw Hill (2003).

21. Fred R.McFadden, Jeffrey A.Hoffer & Mary B.Prescott: Modern Database Management 5th Ed, Addison Wesley

22. Peter Rob & Carlos Coronel: Database Systems – Design, Implementation & Management 5th Ed., Thomson

23. Silber Schatz, Korth G. Sudarshan: Database System Concepts 4th Ed, TMH24.

24. Leland L. Beck: System Software – An Introduction to Systems Programming, 3/e, Pearson Education

25. Beginning Visual Basic 2005 By Thearon Willis, Bryan Newsome – Wrox Publishers

26. VB.NET PROGRAMMING BY T. GADDIS (Dreamtech)

27. Microsoft Visual Basic. Net Step by Step by Halvosrson (PHI)

28. Applying UML and Patterns by Craig Larman, Pearson Education, 2000

29. Object Oriented Analysis & Design by Atul Kahate, Tata McGraw Hill

30. Object Oriented Analysis and Design by Mahesh P.Matha, PHI 2008

31. The Unified Modeling Language Reference Manual by James Rumbaugh, Ivar Jacobson and Grady Booch, Pearson Education, 2006.

32. Security in Computing by Charles P.Pfleeger & Shari Lawrence Pfleeger 3rd edition, Pearson education

33. Security for Computer Networks by Davies & Price, Security Wiley (1984)

34. Cryptography & Network Security by Behrouz A.Forouzan, Tata McGraw Hill

35. Multimedia Communications: Applications, Networks, Protocols and Standards, Fred Halsall, Addison Wesley Publications.

36. AJAX, Rich Internet Applications, and Web Development for Programmers, Paul J Deitel and Harvey M Deitel, Deitel Developer Series, Pearson education.

37. Software Project Management – A Unified Framework by Walker Royce (Pearson Education 2007) REFERENCE TEXT BOOKS

38. Software Project Management in Practice by Pankaj Jalote (Pearson Education 2005)

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SWOC analysis of the department and future plans:

Strength:

Qualified and highly credentialed faculty Good diversity in experiences

Good equipment's in laboratories and other facilities Excellent support from the senior administration Equal emphasis both on theory and experiment Goods results

Finance support

Weakness:

Limited number students in the classrooms Collaboration with research institutions

Opportunities:

Increase awareness for Computers
as an integral part of future education

Creation of a vibrant academic atmosphere in the department with the help of reputed and experienced Faculty.

   To prepare our students for entrance exam all competitive exams

Challenges:

To maintain the academic standard of the department in spite of the weaknesses mentioned earlier.

To increase high scientific temper among students.

To link the curricula and teaching learning process with need of industries. Motivating students to take projects

Motivating students to take jobs in industry, defense research laboratories, MPSC, UPSC and academic institutes.