



# Hearty Welcome

**NAAC Peer Team Members  
(19<sup>th</sup> September, 2024)**

**DEPARTMENT OF BCA**

**SHANTI PRASAD JAIN COLLEGE, SASARAM**



# DEPARTMENT OF BCA





# Presentation

**(19<sup>th</sup> September, 2024)**

**BY**

**Mr. RAM CHANDRA SINGH**

**Department of BCA**



# DEPARTMENT OF BCA



**Mr. RAM CHANDRA  
SINGH**  
**Head**  
**of the Department**

“The department of computer application started in the year 2006. We proudly announce the completion of 18 years of inception, growth and establishment. The department has grown large to support talent and to cater to the societal requirements. Our prime objective is to prepare our students to meet increasing global challenges of ever evolving technologies so as to make the students acceptable to both industries and higher . institution of learning. The skill of our students and recently our courses got approval from AICTE and we are trying to comply with the AICTE norms and requirements. Regular activities are arranges and encouraged in the department for indigenous product development, skills enhancement and interdisciplinary interactions.”



## *About the Department*

The Department of Computer Applications was established in 2006. We are proud to announce that we have completed 18 years of growth and development. Our department has expanded significantly to nurture talent and meet societal needs. Our main objective is to equip our students to tackle the growing global challenges posed by ever-evolving technologies, ensuring they are prepared for both industry roles and higher education. Our students' skills and our courses recently received approval from AICTE, and we are diligently working to comply with AICTE norms and requirements. We regularly organize and promote activities within the department focused on indigenous product development, skill enhancement, and interdisciplinary interactions.



## *Our Vision*

- To provide the atmosphere for students so they can create employment opportunities for themselves as well as for others
- The Department of Computer Applications at provides excellent technology to the students as well as faculty so that they can be equipped with the requisite skills as per international industry standards
- To prepare the students for technical training with revolutionary vision who can compete globally
- To brush up the ethical as well as technical skills in students so that they will become the preferable choice of a prospective employer



## *Mission*

- To provide technical education to the students through well-equipped labs.
- Giving personal attention to weaker students consequently, allowing them to cope up with other scholars.
- To provide a student-friendly environment that is amicable for practical knowledge
- To implement the professional and communication skills of the students, working deliberately.



## **Name of the Department : Bachelor of Computer Application**

<b>Particulars</b>	<b>U.G</b>
Program Offered System	Semester System
Course Offered	B.C.A
Course Approved Year	2006
Students Sanctioned Seat	60
Course Duration	3 Years
Academic Session	2024-27
Current Admitted Student	60



## Faculty Strength

Designation	Sanctioned	Filled
Professors	04	Nil
Associate Professors		Nil
Assistant professor		04
Guest Faculty		03

Permanent Teacher - 04  
Guest Teacher - 03  
Total Full Time Teachers - 07



## Permanent Teacher's Profiles

Name	Qualification	Designation	Years of Experience
SRI RAMCHANDRA SINGH	MCA	ASSIST. PROF.	14
SRI PRABHAT KUMAR	MCA	ASSIST. PROF.	05
SRI AMAR KUMAR	MCA	ASSIST. PROF.	01
SRI BABUL KUMAR	B. TECH(CS)	ASSIST. PROF.	01



## Visiting Teacher's Profiles

Name	Qualification	Designation	Years of Experience
DR. RAJESH KR. SINHA	M.A, Ph.D.(Eng.)	ASSOCIATE PROF.	37
DR. SHIV KUMAR RAVIDAS	Ph.D.(A/C)	ASSIST.PROF.	06
Dr. U. K. GHOSAL	Ph.D.(Math)	ASSIST.PROF.	06

- **Total No. of Staff** – **06**
- **No. of Technical Staff** – **05**
- **No. of Non-Technical Staff** – **01**



## Program Outcomes as Per V.K.S.U. Ara

### Program Outcomes

- PO1: Profound Professional Knowledge:** Obtain proficiency to maneuver in diverse context of the advance subject knowledge.
- PO2: Critical Thinking and Analysis:** Attain the analytical expertise to create, analyze, formulate, and solve challenging problems.
- PO3: Environment and sustainability:** Understand the impact of the scientific solutions in societal and environmental contexts, and demonstrate the knowledge of, and need for sustainable development.
- PO4: Research and Innovation:** Use research-based knowledge and research methods including design of experiments, analysis and interpretation of data, and synthesis of the information to provide valid conclusions.
- PO5: Effective Communication:** Demonstrate skills such as effective communication, decision making, problem and adapt ability to create technical writing.
- PO6: Problem Solving:** Understand, interpret, explain, analyze and assess the tools, techniques, models and methodologies to solve problems.
- PO7: Employability and higher Education:** Show proficiency in professional, employability and soft skills required for higher education and placements.
- PO8: Advance tools and techniques:** Attain ability to work with advanced IT tools and techniques in their domain.
- PO9: Social Consciousness:** Acquire awareness towards gender, environment, sustainability, human values and professional ethics and understand the difference between acting, responding and reacting to various social issues
- PO10: Nation Building:** Introspect and evolve into dynamic and creative individuals capable of socially productive, constructive actions that positively impact our Nation and the World at large



## Program Specific Outcomes as Per V.K.S.U. Ara

### Program Specific Outcomes

**PSO1:** Create systems through software development to solve problems in Industry domain areas.

**PSO2:** Contribute to societal growth through research in their chosen field.

**PSO3:** Perform both as an individual and in a team through good analytical, design and implementation skills.

**PSO4:** Possess professional development through continuous learning.

**PSO5:** Comprehend, explore and build up computer programs in the areas allied to Algorithms, System Software, Multimedia, Web Design and Big Data Analytics for efficient design of computer-based systems of varying complexity.

**PSO6:** Pursue careers in IT industry/ consultancy/ research and development, teaching and allied areas related to computer science.



## Research & Publications

### Books/Edited Volumes/Chapter During 2017-18 to 2024-25

Sl. No	Name of the Teacher	Title of the Books/Edited Volumes/Chapter	Publishers	Year of Publications
1	SRI RAM CHANDRA SINGH	FUNDAMENTAL OF COMPUTER “Introduction of Computer & Binary System”	Arti Publication	2011



**Research & Publications**  
**Journals/Conferences/Seminars**  
During 2017-18 to 2023-24

Sl. No	Name of the Teacher	Total No. of Article/Research Paper	Total No. of Paper in National/International Conference
01	Ram Chandra Singh	01	01



## Syllabus

### BACHELOR OF COMPUTER APPLICATIONS (BCA)

(VEER KUNWAR SINGH UNIVERSITY ARA)

#### DETAIL COURSE STRUCTURE & SYLLABUS

##### SEMESTER - I

**Group A: (Theory Group)** Theory papers to be examined by University through examination conducted at the end of semester.

Sl. No.	Sem. & Paper Code	Name of Subject	Full Marks	Pass Marks
1.	1BCA1	Fundamentals of Computer	100	40
2.	1BCA2	PC Packages (Win 98/XP, Word, Excel)	100	40
3.	1BCA3	Programming Logic & Design Techniques	100	40
4.	1BCA4	Programming in 'C'	100	40
5.	1BCA5	Communicative English	100	40
<b>Aggregate Marks</b>			<b>500</b>	<b>225</b>

**Group B: (Practical & Continuous Evaluation)** Sessional work papers to be evaluated internally, however during Computer Lab, test atleast two external university examiners must be present, Evaluated answer sheet and marks foil shall be forwarded to the university, Controller of Examinations.

Sl. No.	Sem. & Paper Code	Name of Subject	Full Marks	Pass Marks
1.	1BCA6	Internal Assessment & Term Work	100	45
2.	1BCA7	Computer Lab - I (Win 98/XP, Word, Excel)	100	45
3.	1BCA8	Professional Personality Skill	50	23
<b>Aggregate Marks</b>			<b>250</b>	<b>113</b>

- (a) Group-A (Theory Papers) Full Marks: 500 Pass Marks: 113  
 (b) Group-B (Sessional Works) Full Marks: 250 Pass Marks: 338

**Aggregate Marks of 1st Semester: 750 Pass Marks: 338**

##### SEMESTER - II

**Group A: (Theory Group)** Theory papers to be examined by University through examination conducted at the end of semester.

Sl. No.	Sem. & Paper Code	Name of Subject	Full Marks	Pass Marks
1.	2BCA1	Digital Computer Organisation	100	40
2.	2BCA2	Advanced Programming in 'C'	100	40
3.	2BCA3	Fundamental Data structure	100	40
4.	2BCA4	Application Programming in Fox-pro	100	40
5.	2BCA5	Financial Accounting	100	40
<b>Aggregate Marks</b>			<b>500</b>	<b>225</b>

**Group B: (Practical & Continuous Evaluation)** Sessional work papers- to be evaluated internally, however during Computer Lab, test atleast two external university examiners must be present, Evaluated answer sheet and marks foil shall be forwarded to the university, Controller of Examinations

Sl. No.	Sem. & Paper Code	Name of Subject	Full Marks	Pass Marks
1.	2BCA6	Internal Assessment & Term Work	100	45
2.	2BCA7	Computer Lab - II	100	45
3.	2BCA8	Minor Assignments	100	45
4.	2BCA9	Professional Personality Skill	50	23
<b>Aggregate Marks</b>			<b>350</b>	<b>158</b>

- (a) Group-A (Theory Papers) Full Marks: 500 Pass Marks: 225  
 (b) Group-B (Sessional Works) Full Marks: 350 Pass Marks: 158

**Aggregate Marks of IInd Semester: 850 Pass Marks : 383**



# DEPARTMENT OF BCA

## SEMESTER- III

**Group A: (Theory Group)** Theory papers to be examined by University through examination conducted at the end of semester.

Sl. No.	Sem. & Paper Code	Name of Subject	Full Marks	Pass Marks
1.	3BCA1	Information Technology trend	100	40
2.	3BCA2	GUI Programming in Visual Basic	100	40
3.	3BCA3	Database Management System	100	40
4.	3BCA4	Computer Technology & LAN	100	40
5.	3BCA5	Management Skills	100	40
<b>Aggregate Marks</b>			<b>500</b>	<b>225</b>

**Group B: (Practical & Continuous Evaluation)** Sessional work papers to be evaluated internally, however during Computer Lab. test atleast two external university examiners must be present. Ev aluated answer sheet and marks foil shall be forwarded to the university, Controller of Examinations.

Sl. No.	Sem. & Paper Code	Name of Subject	Full Marks	Pass Marks
1.	3BCA6	Internal Assessment & Term Work	100	45
2.	3BCA7	Computer Lab - III	100	45
3.	3BCA8	Professional Personality Skills	50	23
<b>Aggregate Marks</b>			<b>250</b>	<b>113</b>

- (a) Group-A (Theory Papers) Full Marks: 500 Pass Marks: 225  
 (b) Group-B (Sessional Works) Full Marks: 250 Pass Marks: 113  
**Aggregate Marks of IInd Semester:750 Pass Marks : 338**

## SEMESTER - IV

**Group A: (Theory Group)** Theory papers to be examined by University through examination conducted at the end of semester.

Sl. No.	Sem. & Paper Code	Name of Subject	Full Marks	Pass Marks
1.	4BCA1	Operating Systems	100	40
2.	4BCA2	OOPS Programming in "C++"	100	40
3.	4BCA3	Internet & E-Commerce	100	40
4.	4BCA4	Linux Operating systems	100	40
5.	4BCA5	System Analysis & Data Processing	100	40
<b>Aggregate Marks</b>			<b>500</b>	<b>225</b>

**Group B: (Practical & Continuous Evaluation)** Sessional work papers to be evaluated internally, however during Computer Lab. test atleast two external university examiners must be present. Evaluated answer sheet and marks foil shall be forwarded to the university, Controller of Examinations.

Sl. No.	Sem. & Paper Code	Name of Subject	Full Marks	Pass Marks
1.	4BCA6	Internal Assessment & Term Work	100	45
2.	4BCA7	Computer Lab - IV	100	45
3.	4BCA8	Minor Summer Assignment	100	45
4.	4BCA9	Professional Personality Skill	50	23
<b>Aggregate Marks</b>			<b>350</b>	<b>158</b>

- (a) Group-A (Theory Papers) Full Marks : 500 Pass Marks : 225  
 (b) Group-B (Sessional Works) Full Marks : 350 Pass Marks : 118  
**Aggregate Marks of IInd Semester : 850 Pass Marks : 338**



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## SEMESTER - V

**Group A: (Theory Group)** Theory papers to be examined by University through examination conducted at the end of semester.

Sl. No.	Sem. & Paper Code	Name of Subject	Full Marks	Pass Marks
1.	5BCA1	Component Architecture and Programming (COM, DCOM)	100	40
2.	5BCA2	Multimedia Tools & Applications	100	40
3.	5BCA3	Programing in JAVA	100	40
4.	5BCA4	Oracle RDBMS	100	40
5.	5BCA5	Computer Centre Management	100	40
<b>Aggregate Marks</b>			<b>500</b>	<b>225</b>

**Group B: (Practical & Continuous Evaluation)** Sessional work papers to be evaluated internally, however during Computer Lab. test atleast two external university examiners must be present. Evaluated answer sheet and marks foil shall be forwarded to the university, Controller of Examinations.

Sl. No.	Sem. & Paper Code	Name of Subject	Full Marks	Pass Marks
1.	5BCA6	Internal Assessment & Term Work	100	45
2.	5BCA7	Computer Lab - V	100	45
3.	5BCA8	Professional Personality Skills	50	23
<b>Aggregate Marks</b>			<b>250</b>	<b>113</b>

- (a) Group-A (Theory Papers) Full Marks : 500 Pass Marks : 225  
 (b) Group-B (Sessional Works) Full Marks : 250 Pass Marks : 118  
**Aggregate Marks of IInd Semester : 750 Pass Marks : 338**

## SEMESTER – VI

This semester Comprises of only Major Project and Internal assessment & Term work both are to be evaluated internally in presence of atleast two external examiners of University.

Sl. No.	Sem. & Paper Code	Name of Subject	Full Marks	Pass Marks
1.	6BCA1	Major Project	500	225
2.	6BCA2	Internal Assesment & Term work	100	45
<b>Aggregate Marks</b>			<b>600</b>	<b>275</b>

### SUMMARY OF SEMESTERWISE DISTRIBUTION OF MARKS

Semesters	Group- A Theory Paper Examined by Univ.		Group- B Sessional Work Evaluated internally		Aggregate	
	F.M	P.M	F.M	P.M	F.M	P.M
1 <sup>st</sup>	500	225	250	113	750	338
II <sup>nd</sup>	500	225	350	158	850	383
III <sup>rd</sup>	500	225	250	113	750	338
IV <sup>th</sup>	500	225	350	158	850	383
V <sup>th</sup>	500	225	250	113	750	338
VI <sup>th</sup>	Major Project -			500	225	270
	Internal Assessment			100	45	
<b>Grand Total</b>					<b>4550</b>	<b>2048</b>

NOTE :-



## Academic Activities Conducted by the Department

Title of Program/Activities	Date	Details of Recourse Person
Mini Expo	10.08.2021	Mr. Gopal Narayan Singh
World Computer Literacy Day	02.12.2023	Dr. Navin Kumar
Drawing & Essay Written Competition	12.01.2024	Dr. Kri. Sangita Kushwaha
Voter Awareness Campaign	27.04.2024	Dept. of BCA
National Induction 5.0 With Gurudev	22.08.2024	Sri Sri Ravishankar
World Suicide Prevention Day	10.09.2024	Dr. Afreen

## mini Expo





**World Suicide Prevention Day**



**Voter Awareness Campaign**



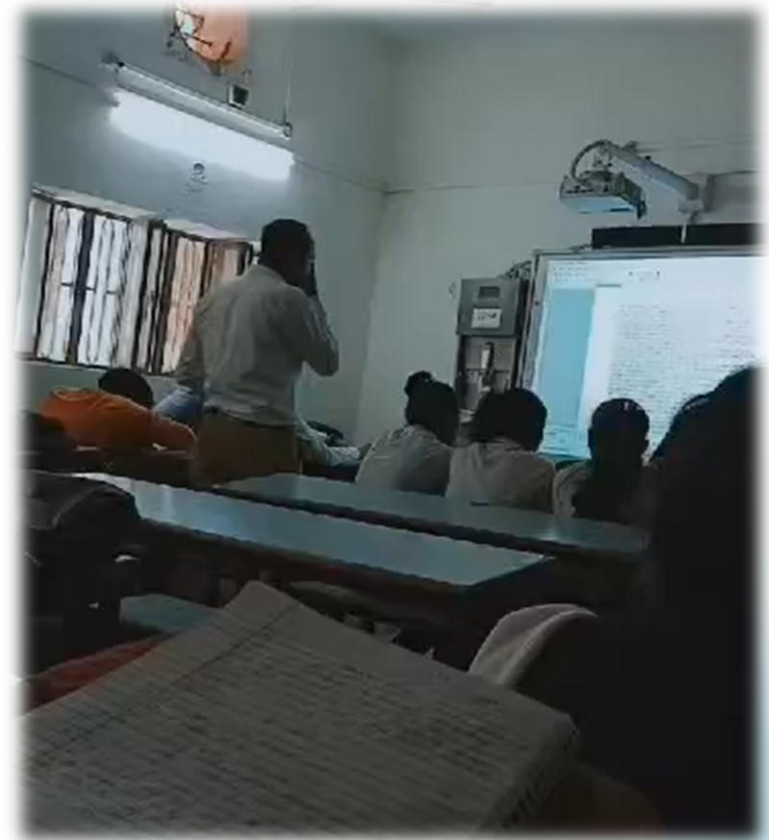
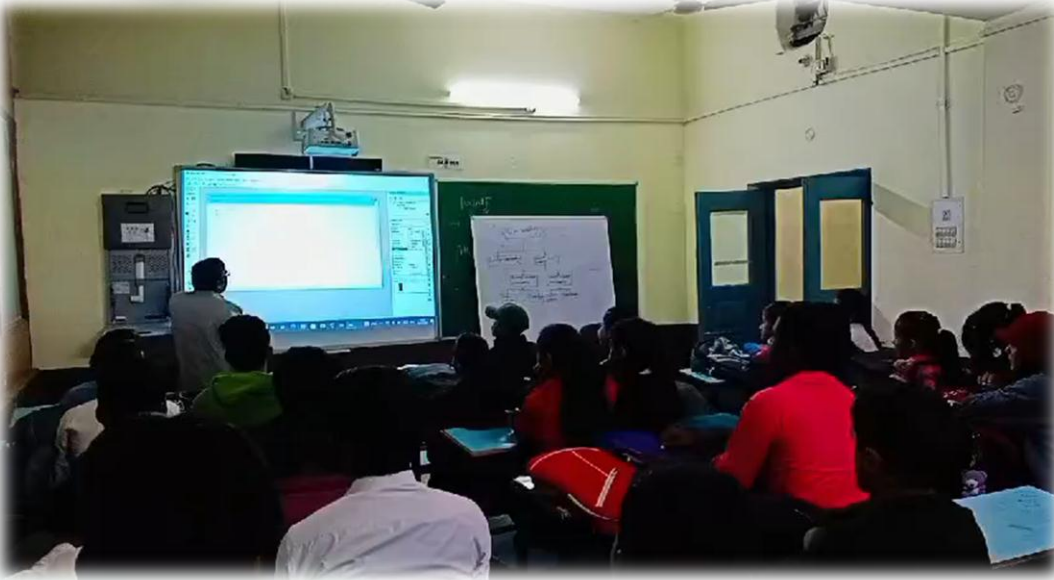
**Drawing & Essay Written Competition**



**World Computer Literacy Day**



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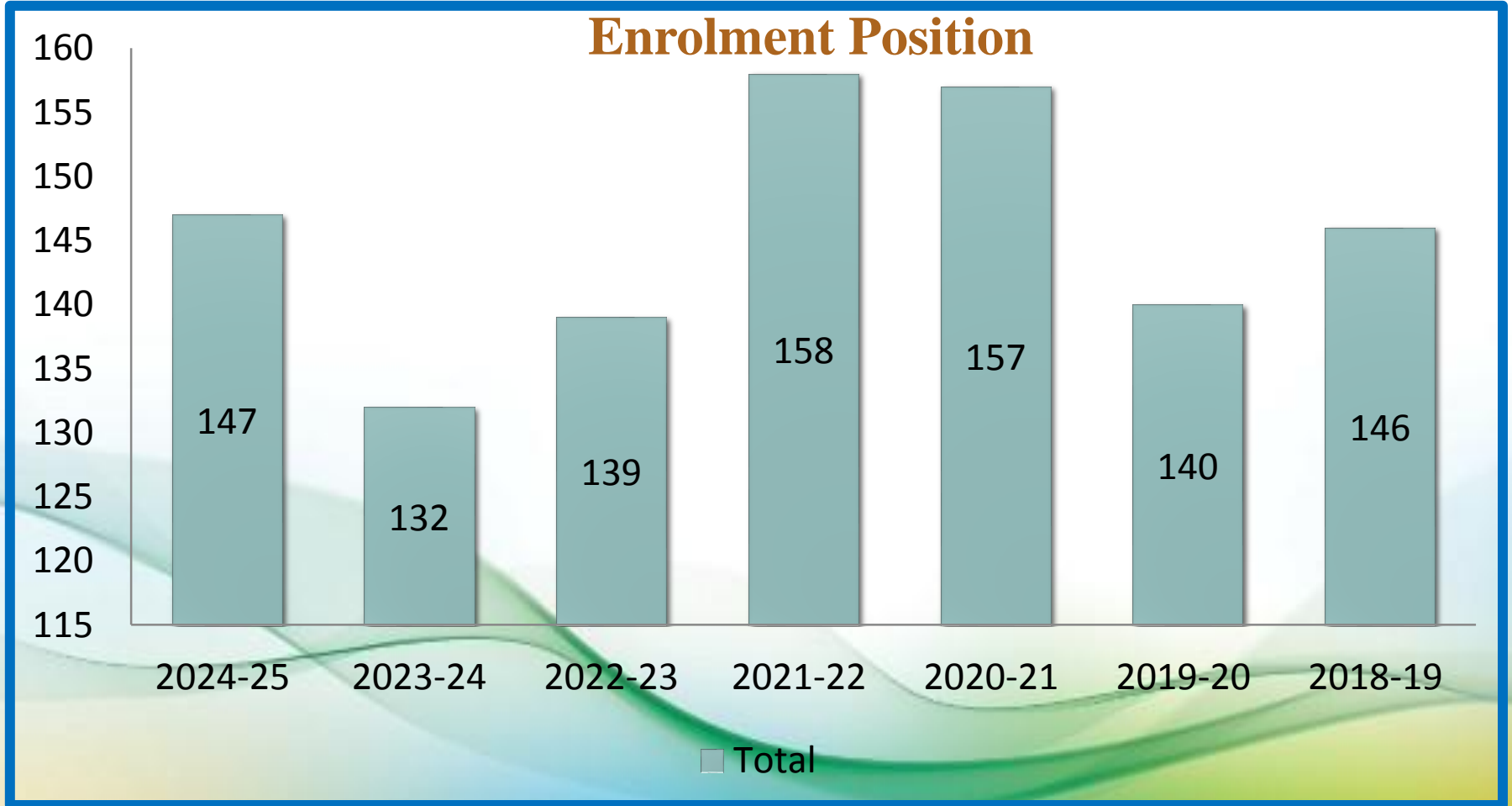


## Enrolment Position in U.G Programme Session - 2018-19 to 2024-25

Session / Year	Part -I	Part -II	Part -III	Total
2024-25	60	54	33	147
2023-24	60	40	32	132
2022-23	49	34	56	139
2021-22	44	56	58	158
2020-21	60	58	39	157
2019-20	60	44	36	140
2018-19	60	42	44	146



## Enrolment Position in U.G Programme Session - 2018-19 to 2024-25



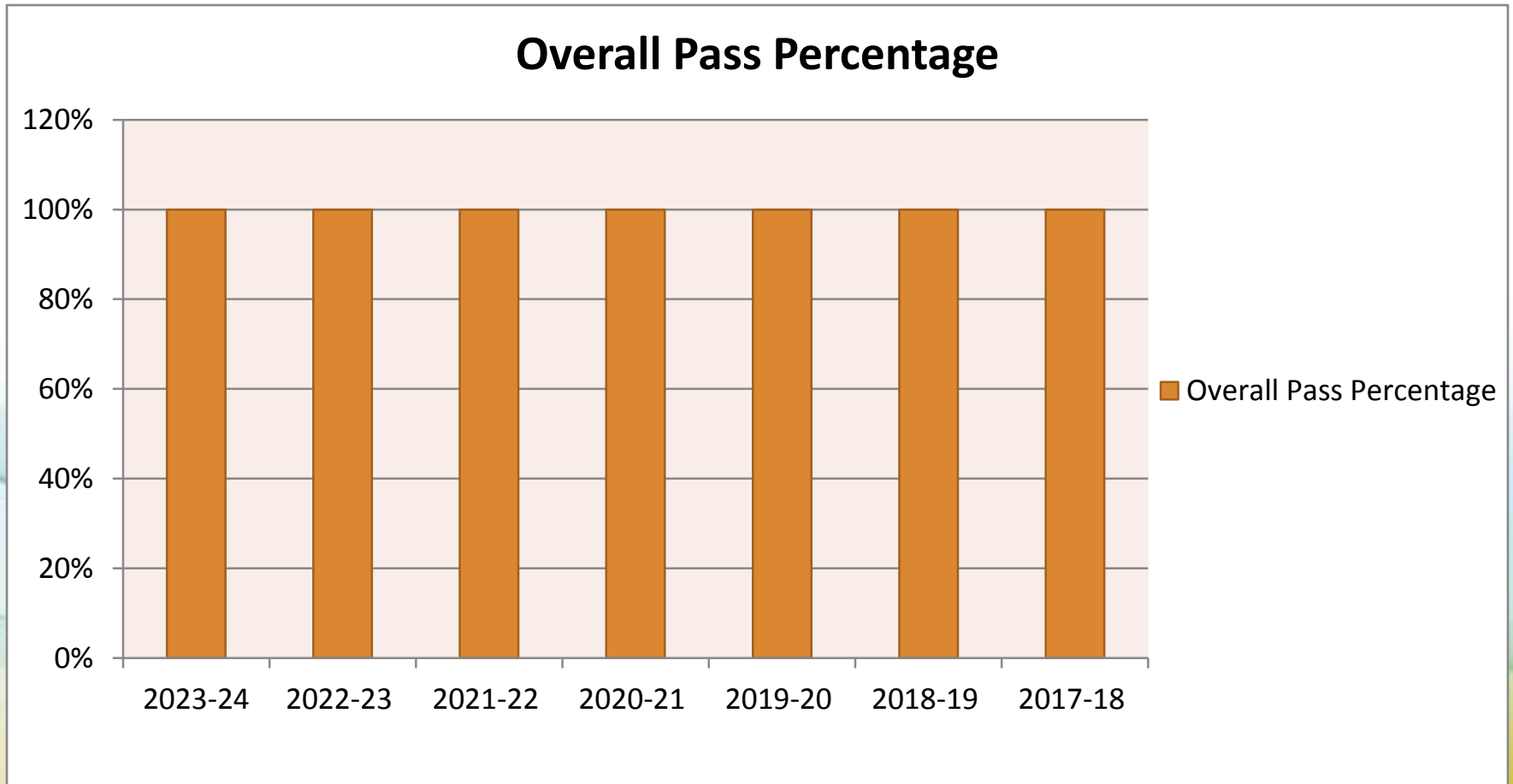


## U.G. Pass Percentage Final Year Session - 2017-18 to 2023-24

Session / Year	Total No. of Appeared Students in Final Year	Total No. of Pass Student	Overall Pass Percentage
2023-24	44	44	100%
2022-23	54	54	100%
2021-22	39	39	100%
2020-21	36	36	100%
2019-20	55	55	100%
2018-19	44	44	100%
2017-18	33	33	100%



## U.G Pass Percentage Session - 2017-18 to 2023-24



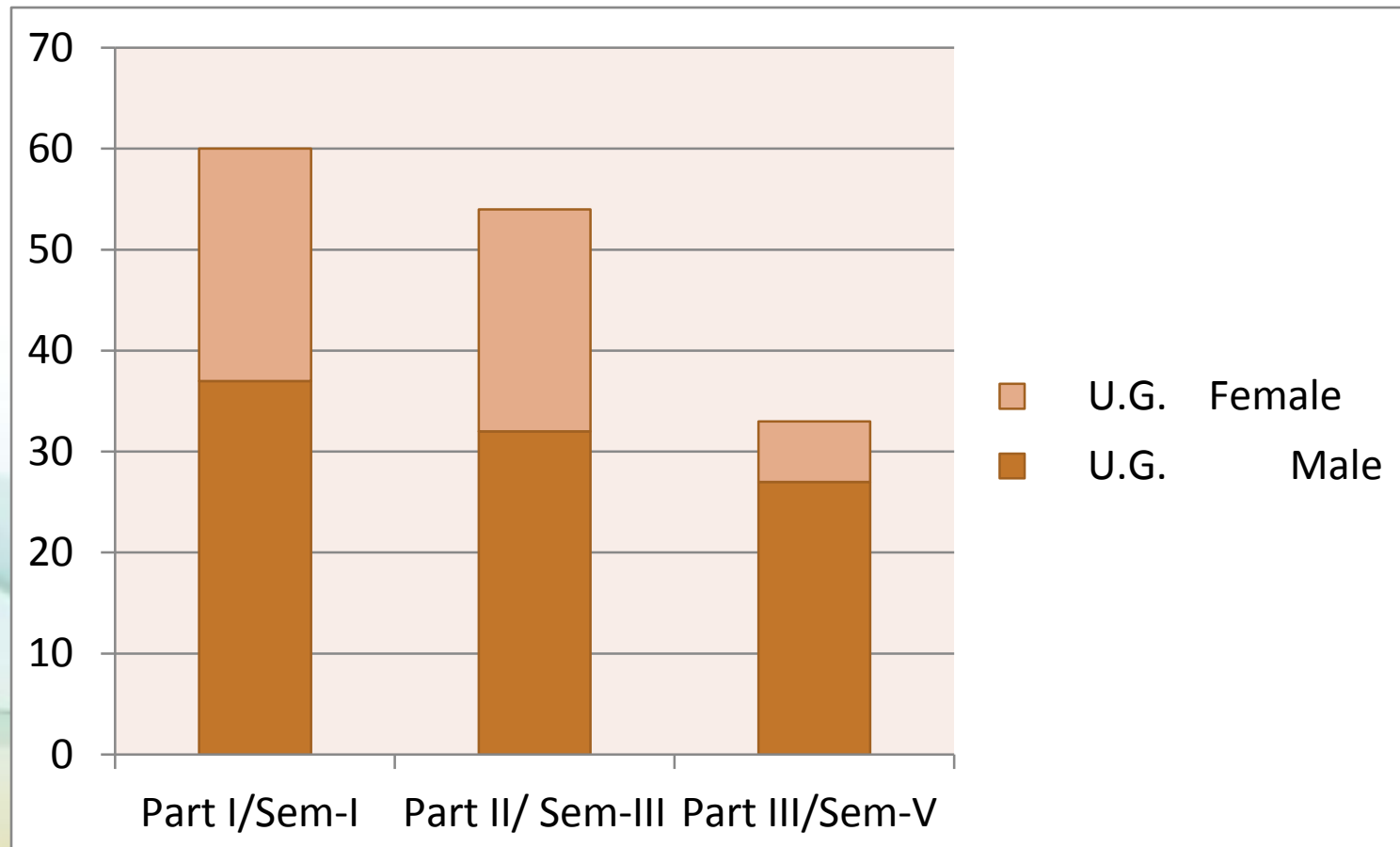


## Enrolment Position in Current Session Session – 2024-25

Session / Year 2024-25	U.G.	
	Male	Female
Part I/Sem-I	37	23
Part II/ Sem-III	32	22
Part III/Sem-V	27	6
<b>Total</b>	<b>96</b>	<b>51</b>
<b>Total (M+F)</b>	<b>147</b>	
<b>Grand Total (U.G )</b>		
<b>Pass Percentage</b>		



## Enrolment Position in U.G Programme Current Session - 2024-25





# DEPARTMENT OF BCA



**Session – 2020-23**



**Session – 2021-24**



**College Trip**



## Participation in Seminar/Conference & Symposia

Name of Teacher	Total no. of Participation in National Seminar/Conference & Symposia	Total no. of Participation in International Seminar/Conference & Symposia
ER. RAM CHANDRA SINGH	09	00



## Outstanding Achievement

- Placement for System Analyst, BPSC Teacher, Railway
- Maximum students of distinction marks.
- Our students are working on Reputed Post on Indian Govt.



Sl. No.	Name of the Alumni with Address	Pass out Session	Organization Name/Address	Designation
01.	ABHISHEK KUMAR	2017-2020	N S MATRIX, NEW DELHI	SOFTWARE (SQL) DEVELOPER
02.	SHRUTI KUMARI	2017-2020	Q. BIOTECH S/W COMP., BANGALURU	WEB DESIGNNER T. L.
03.	PRIYANKA KUMARI	2018-2021	G. BRAND MEDIX, PATNA	D. M. EXECUTIVE



## Topper/Rank of our college U.G Students in University/District

Sl. No.	Session	Name of the Students	University Roll. No	Pass Percentage
1	2020-23	Anjali Raj	20301013	73.91%
2	2019-22	Kumari Priya	193010900026	72.41%
3	2018-21	Sonal Kumari	19301035	77.32%
4	2017-20	Divya	18301019	77.01%
5	2016-19	Gayatri Kumari	16141047	76.33%



## Best Practices of the Departments

- Avoiding the use of disposable cups.
- Switching off bulbs and ceiling fans after classes.
- Fostering character development among students.
- Encouraging students to use helmets while driving.
- Promoting awareness against tobacco use.
- Supporting the Swachh Bharat Abhiyan initiative.



## SWOC Analysis of the Department

### Strength

- AICTE APPROVED COURSES.
- ACTIVE IIC COUNCIL
- REGULAR CLASSES.
- WELL QUALIFIED AND EXPERIENCED FACULTIES.
- ADMINISTRATIVE SUPPORT.
- PERSONALITY DEVELOPMENT TOOLS AND TECHNIQUES.
- SPOKEN ENGLISH LAB.
- WELL EQUIPPED LABORATORY
- STUDENT DEVELOPMENT PROGRAM (TIME TO TIME)
- SMART CLASSES



# SWOC Analysis of the Department

## Weakness

- LIMITED SEATS(ONLY 60)
- LIMITED FUND (SELF NOURISHED COURSE)
- LACK OF LANGUAGE PROFICIENCY AMONG STUDENTS
- NO POST GRADUATE COURSE
- NO TRANSPORT FACILITY.



## SWOC Analysis of the Department

### Opportunities:

- DEMAND OF PROFESSIONAL COURSES IS INCREASING DAY BY DAY.
- SPECIALIZED FACULTIES
- INCREASE IN NUMBER OF FEMALE STUDENTS.
- SUPPPORTIVE ADMINISTRATION
- CREATION OF MORE PROFESSIONAL ATMOSPHERE



## SWOC Analysis of the Department

### Challenges:

- VERY LIMITED AREAS FOR IT RELATED JOB.
- LOCALITY LACKS IN INDUSTRIAL DEVELOPMENT.
- DIFFICULTY IN CALLING CAMPUS SELECTORS FROM OTHER DISTRICT OR STATE.
- POSSIBILITY OF JOB ONLY FROM GRADUATION COURSES IS VERY LOW.
- RESCUE AND CHECK BRAIN DRAIN
- PLACEMENT IN PASS OUT FOR GOVERNMENT/PRIVATE SECTOR



## Future Plan of the Department

- PREPARING AT ITS BEST TO GET M.C.A COURSE.
- AI & ROBOTICS LABORATORIES
- PREPARING FOR MORE SKILL DEVELOPMENT PROGRAMMES.
- LANGUAGE PROFICIENCY CLASSES.
- MORE SEMINARS, WORKSHOPS AND INDUCTIONS FOR STUDENTS.
- PROVIDING INDUSTRIAL TRAINING AND VOCATIONAL TRAINING TO STUDENTS.
- PLANNING TO MAKE A JOB DESK IN DEPARTMENT WITH THE HELP OF SOME OUTSOURCING AND AVAILABLE ORGANIZATIONS FOR WALK-IN INTERVIEWS FOR JOB ASSISTANCE.
- OVERALL WE ARE TRYING OUR BEST TO GET ACCEDEMIC AND JOB UNDER ONE ROOF TO SERVE THE PURPOSE OF PROFESSIONAL EDUCATION.



*Thank  
you*

**Presented By  
Department of BCA**