

BOTANY



Welcome

**NAAC Peer Team Members
(19th September, 2024)**

DEPARTMENT OF BOTANY

SHANTI PRASAD JAIN COLLEGE, SASARAM



World-renowned botanist **Janaki Ammal** was born on November 4, 1897

SUGARCANE QUEEN



Known for her work in the **fields of cytogenetics and phytogeography**

Created several high-yielding hybrid varieties of sugarcane

The Ministry of Environment and Forestry instituted **the National Award of Taxonomy in her name in 2000**

Collected valuable plants of medicinal and economic value from the rain forests of Kerala

Honoured with the **Padma Shri in 1977**





Presentation

(19th September, 2024)

BY

AZRA PERVEEN

Department of Botany



AZRA PERVEEN

**Head
of the Department**

The department of Botany established in the year 1952 with three-sanctioned post for teachers. The classes of U.G and P.G conduct under CBCS SYLLABUS. Two Separate laboratory are available for U.G and P.G. The departmental library has sufficient number of books for both the courses. The performance of the students is overall satisfactory. Student participate in extra curricular activities i.e. Seminar, Yoga, Debate, Plantation,

NCC, NSS & Sports etc. Our motto of education is to aware the students about Local and Global Problems. We are now facing problems like water conservation, Global Warming, Climate Change, Sustainable agriculture. We need to adopt such a life style and practices, which minimize the load of pollution in the atmosphere.

We support weaker section of students to provide coaching and also guide the students for competitive exam like B.P.S.C, CSIR, NET & GATE etc.

Lab facilities likely to be updated at research level to execute experimental task which target for new discoveries and advances in science. A circular is needed for training the teachers to new technologies, which are applicable in respective field for research, work.



About the Department

The Department was established in 1952 with three sanctioned posts of teachers. In 1996 P.G. Course was offered by the university. At present one permanent and two contractual full-time teachers are working sanctioned seats for UG students is fifty whereas in P.G there are seventy eight. Seats only. One Non-teaching staff of 4th grade is working whose status is permanent. Two laboratories are functioning-one for P.G. and one for U.G. The departmental library is rich in which books for UG and P.G courses are available. Laboratory is well equipped as per need.



Our Vision

To promote the culture of learning by educating students in the basics of plant science, its related components and evolving advancements that will serve science in Twenty-First century. To be distinguished as a renowned academic institution recognized for its innovation, excellence and inventions, producing the best human resource in the field of plant science and help them to realize their full potential in ways that benefits society.



MISSION

The main mission of Botany Department is to make college “ A GREEN CAMPUS”. To educate students with the fundamental knowledge and application of scientific methods, skills and attitudes with the help of conventional and modern tools to understand everything related to plant. The aim of the Department is to produce highly qualified botanists who have broad knowledge of modern and applied plant science and excellent career prospects.



Name of the Department : Botany		
Particulars	P.G	U.G
Program offered System	Semester System	CBCS System
Course offered	M.Sc. (Botany)	B.Sc. (Botany)
Course Approved Year	1996	1952
Students Sanctioned Seat	78	50
Course Duration	2 Years	4 Years
Academic Session	2023-25	2023-27
Current Admitted Student	81	46



Faculty Strength

Designation	Sanctioned	Filled
Professors	03	01
Associate Professors		Nil
Assistant professor		Nil
Guest Faculty		02

Permanent Teacher - 01

Guest Teacher - 02

Total Full Time Teachers - 03



Permanent Teachers Profiles

Names	Qualification	Designation	Years of Experience	Total No. of Ph.D. Awarded
Dr. Arza Perveen	Ph.D.	Professor	27 Years	01



Guest Teachers Profiles

Name	Qualification	Designation	Years of Experience
Dr. OM PRAKASH SINGH	Ph.D.	Guest Faculty	15
Dr. SHWETA KUMARI	Ph.D.	Guest Faculty	1

- Total No. of Staff — 01
- No. of Technical Staff — 00
- No. of Non-Technical Staff — 01



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

Program Outcomes

- PO1: Professional knowledge:** Acquire comprehensive knowledge of major concepts, theoretical principles and experimental findings to various subjects in pure sciences such as Physics, Chemistry, Botany, Zoology, Mathematics, etc.
- PO2: Critical thinking and Cognitive skills:** Convey the intricate science information effectively and efficiently, analyze and solve the problems related to plants, animal sciences without relying on assumptions and guesses.
- PO3: Environment and sustainability:** Understand the impact of the professional engineering solutions in societal and environmental contexts, and demonstrate the knowledge of, and need for sustainable development.
- PO4: Effective Communication:** Demonstrate familiarity with and ability to analyze both verbally and in writing issues and forms of contemporary art with a clear understanding of historical precedents.
- PO5: Instruments and Experiments:** Acquired the skills in handling scientific instruments, planning and performing in laboratory experiments and drawing logical inferences from the scientific experiments.
- PO6: Research and Analysis:** Demonstrate analytical skill and proficiency in a range of tools and techniques used in research in science and interdisciplinary.
- PO7: Employability and higher Education:** Show proficiency in professional, employability and soft skills required for higher education and placements.
- PO8: Ethics:** Imbibe ethical, moral and social values in personal and social life leading to highly cultured and civilized personality in science field.
- PO9: Science and Society:** Apply reasoning informed by the scientific knowledge to assess societal, health, safety, legal and cultural issues and the consequent responsibilities relevant to the professional science practice.
- PO10: Interdisciplinary Learning:** Integrate academic curriculum with other cocurricular goals, such as career development, life-long learning, develop interdisciplinary learning and opportunity to extend their knowledge across disciplines.



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

Program Specific Outcomes

PSO1: Taxonomic studies will help in exploration of flora.

PSO2: Microbiology and plant diseases will enable to know about the various microbes and plant diseases, respectively along with their control.

PSO3: Laboratory works will provide knowledge of various techniques and scientific equipments efficiently.

PSO4: Study of Basic Genetics will have the way of deciphering complex modern Biology.

PSO5: Development of awareness about the type of pollution and their control.

PSO6: Study of RDT, Molecular Biology, Biotechnology and others will help in developing genetically engineered crops, protecting endangered plants and large scale production of different vaccines including very recently developed Corona-19 vaccine too.

PSO7: Acquire awareness towards gender, environment, sustainability, human values, and professional ethics and understand the difference between acting, responding, reacting to various social issues.



Research & Publications

Books/Edited Volumes/Chapter During 2017-18 to till Date

Sl.No	Name of the Teacher	Title of the Books/Edited Volumes/Chapter	Year of Publications
01.	Dr. Azra Perveen	Shodh-sanchayan	2023



Research & Publications

Journals/Conferences/Seminars

During 2017-18 to till date

Sl. No	Name of the Teacher	Total No. of Article/Research Paper	Total No. of Paper in National/International conference
01	AZRA PERVEEN	09 Research Paper	08 National 01 International
02	OM PRAKASH SINGH	07 Research Paper	04 National 01 International
03	Dr. SHWETA KUMARI	04 Research Paper	02 National



Awards/Achievements/Recognitions

Name of the Teacher	Year of Award	Name of Awards	Name of Awarding Body/Agency
Dr. OM PRAKASH SINGH	2016	BIHAR JYOTI AWARD	BIHAR ART & CULTURAL DEVELOPMENT COUNCIL
Dr. OM PRAKASH SINGH	2020	BIHAR KESRI SAMMAN	SARGAM KALA & SAMAJ KALYAN MANCH



Our Faculties Participation in Refresher/Orientation/FDP

Name of the Teacher	Total No. of Refreshers	Total no. of Orientation	Total No. of FDP/Workshop
AZRA PERVEEN	02	1	---
OM PRAKASH SINGH	03	01	01



Academic Activities Conducted by the Department

Title of Program/Activities	Date	Details of Recourse Person
Roles of Microbes in field of Agriculture	10.08.2019	Dr. Hanuman Singh
Common Health Issues in female healing through Ayurveda.	14.08.2019	Dr. Sahala Yasmin
Climate change	05.03.2024	Dr. Sriniwas Singh



**Photographs of Academic Activities
Conducted by the Department**



Photographs of Academic Activities Conducted by the Department



Department of Botany



Galaxy S21 FE 5G



Galaxy S21 FE 5G



Galaxy S21 FE 5G



Galaxy S21 FE 5G

Students actively participated in Interactive Smart Classroom

Students actively participated in Classroom





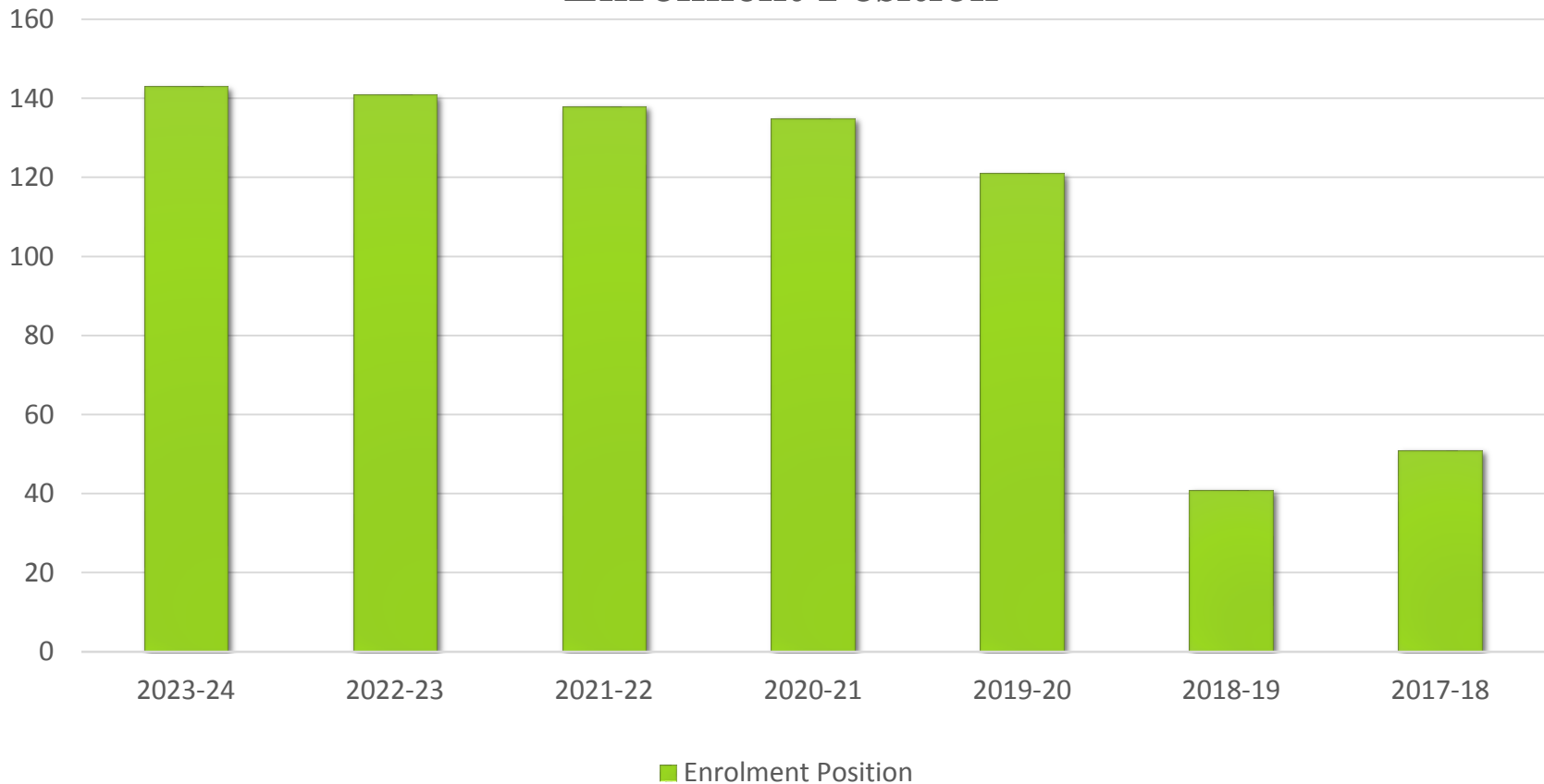
**Enrolment Position in U.G Programme
Session - 2017-18 to 2023-24**

Session / Year	Part -I	Part -II	Part -III	Total
2023-24	46	49	48	143
2022-23	49	47	45	141
2021-22	48	45	45	138
2020-21	46	47	42	135
2019-20	49	44	28	121
2018-19	16	14	11	41
2017-18	14	11	26	51



Enrolment Position in U.G Programme Session - 2017-18 to 2023-24

Enrolment Position





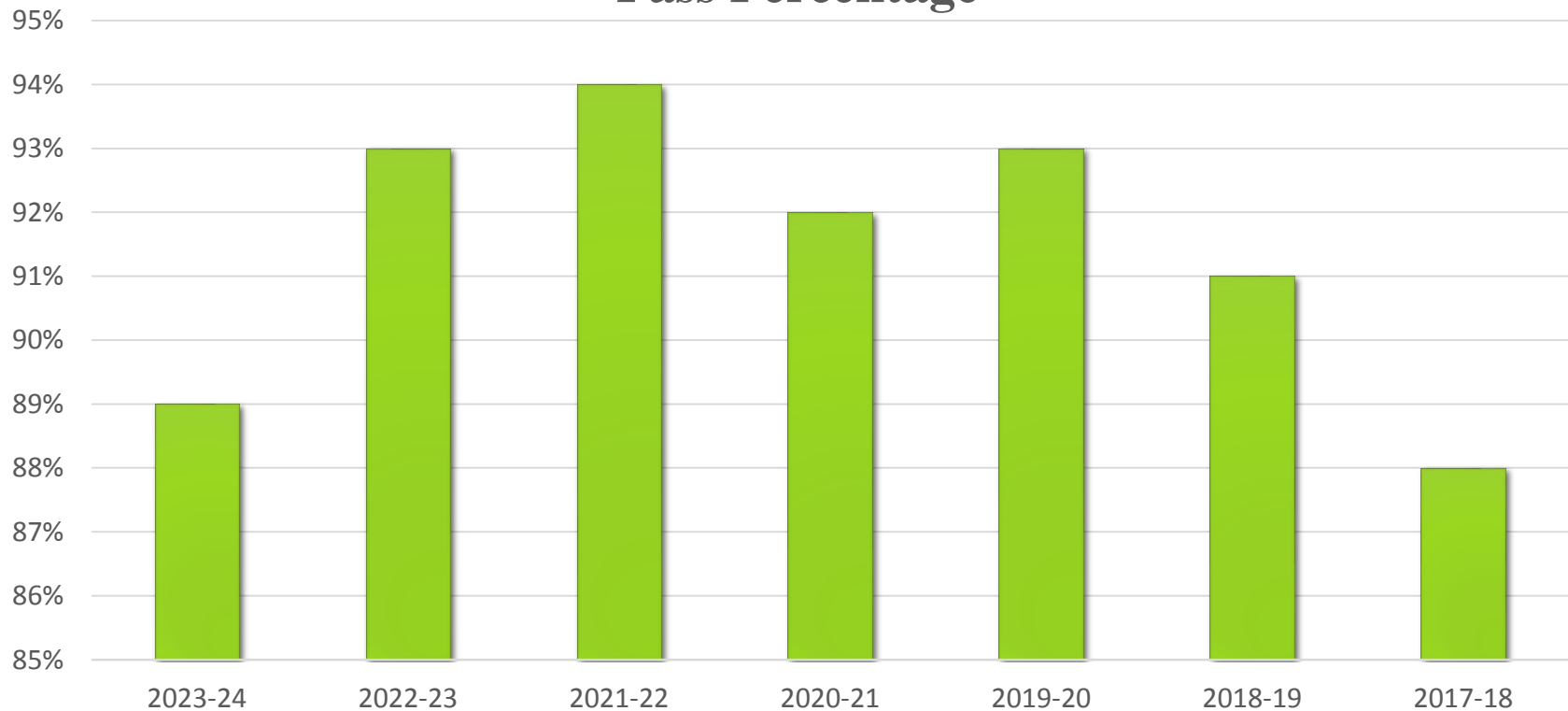
**U.G. Pass Percentage Final Year
Session - 2017-18 to 2023-24**

Session / Year	Total No. of Appeared Students in Final Year	Total No. of Pass Student	Overall Pass Percentage
2023-24	46	41	89%
2022-23	56	52	93%
2021-22	47	44	94%
2020-21	49	45	92%
2019-20	28	26	93%
2018-19	11	10	91%
2017-18	26	23	88%



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

Pass Percentage



■ Pass Percentage



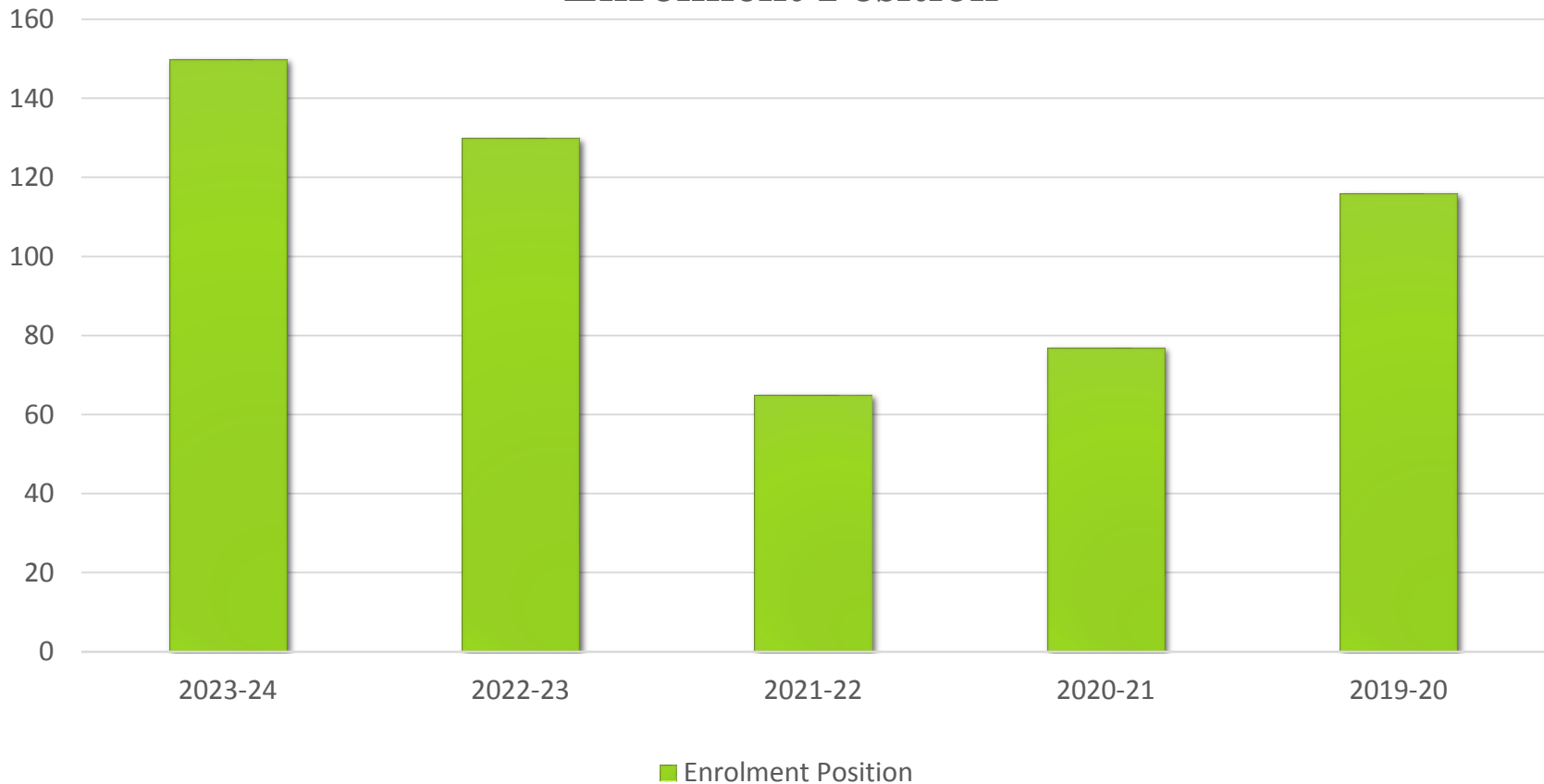
Enrolment Position in P.G Programme Session – 2019-20 to 2023-24

Session / Year	Part –I/ Sem-I	Part –II/ Sem-III	Total
2023-24	81	69	150
2022-23	78	52	130
2021-22	57	30	87
2020-21	33	58	91
2019-20	70	38	108



Enrolment Position in P.G Programme Session - 2019-20 to 2023-24

Enrolment Position





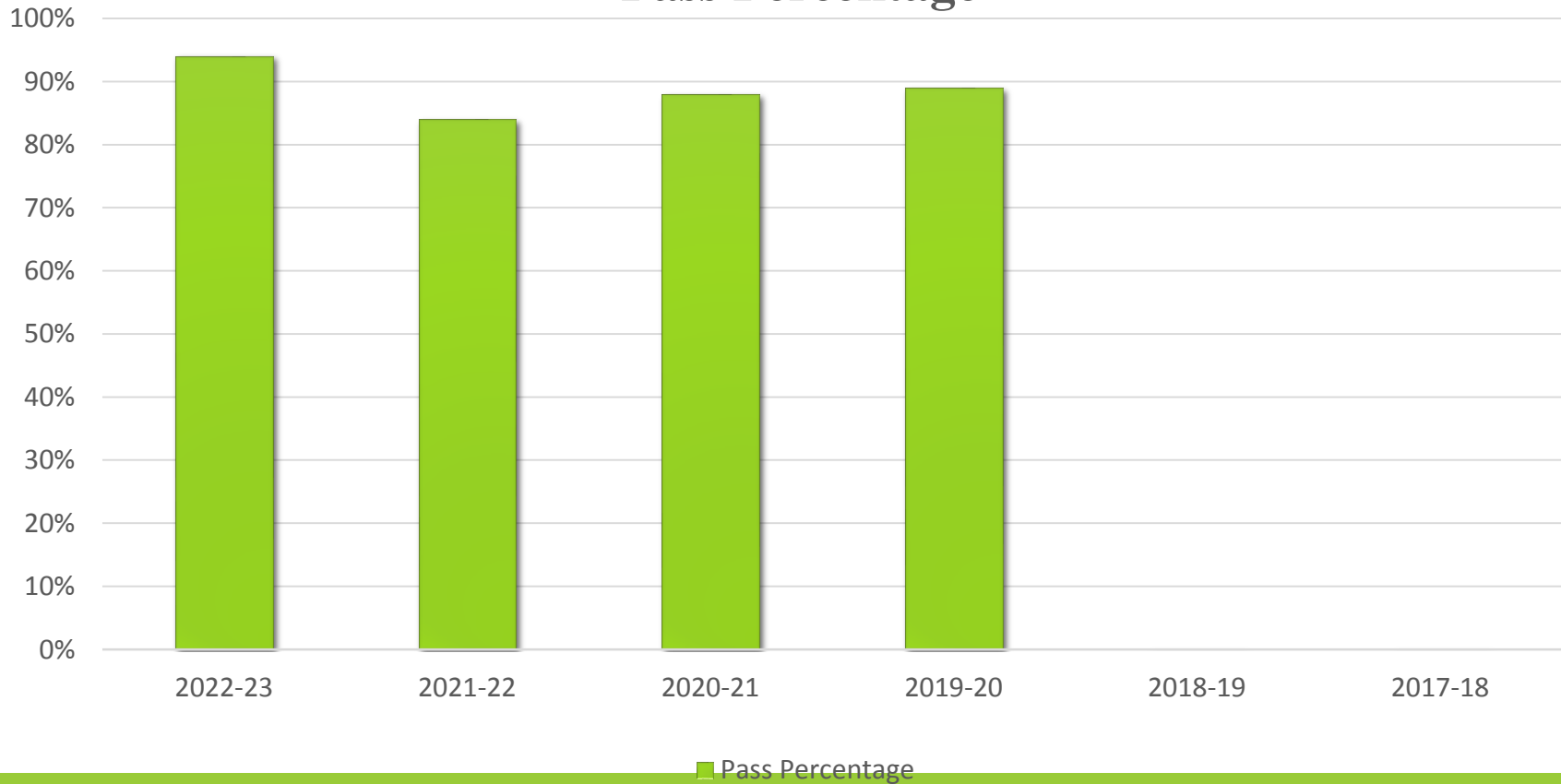
P.G. Pass Percentage Final Year Session – 2017-18 to 2022-23

Session / Year	Total No. of Appeared Students in Final Year	Total No. of Pass Student	Overall Pass Percentage
2022-23	52	49	94%
2021-22	30	28	84%
2020-21	58	51	88%
2019-20	38	34	89%
2018-19	NIL	NIL	NIL
2017-18	NIL	NIL	NIL



P.G Pass Percentage Session - 2017-18 to till date

Pass Percentage





**Enrolment Position in Current Session
Session – 2023-24**

Session / Year 2023-24	U.G		P.G.	
	Male	Female	Male	Female
Part I/Sem I	7	12	30	52
Part II/ Sem-III	7	10	09	69
Part III	13	14		
Total	27	36	39	121
Total (M+F)	63		160	
Grand Total (U.G & P.G)	223			



PHOTOGRAPHS



OPPO K1 - ©Vandana Mishra



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
AZRA PERVEEN	02	
OM PRAKASH SINGH	03	



Our Distinguished Alumni Members

Sl. No.	Name of the Alumni with Address	Pass out Session	Organization Name/Address	Designation
01.	Ashok raj Raj Birla Aurangabad	1983		District Judge
02.	Dr. R.L. Saha	1968	S.P. Jain College	Professor
03.	Dr. Ahuja	1965	S.P. Jain College	Professor
04	Dr. Om Prakash Singh	2005	S.P. Jain College	Assistant Professor



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

- Good Strength of Students in U.G to P.G Course.
- Sufficient number of Books are available in the departmental library.
- Quality infrastructure
- A separate examination Building.
- 2 N.S.S and 2 N.C.C. unit are here for the students personality development.



SWOC Analysis of the Department

Weakness

- Number of Teachers are very few in ratio of students.
- There is no technician in the laboratory.
- There is no Central laboratory for Advance Research work.
- There is no conveyance facility for the students and Staffs.
- There is no ATM Facility in the campus.
- There is no Police Chowki in near by the college



SWOC Analysis of the Department

Opportunities:

- N.C.C & N.S.S
- Sports
- Career & Counselling Cell
- Aware of Health (GYM & YOGA)
- Coaching (Pre Examination Training Centre, BCEBC welfare Department) Govt. of Bihar.
- Distance Education Centre (IGNOU)



SWOC Analysis of the Department

Challenges:

- Number of teachers are very few in the ratio of the students.
- 100 percent attendance of Students.
- To provide job facilities to the students by campus selection.
- Practical knowledge likely to be given to the students at commercial level.
- Classes are suffering due to frequent held of examination throughout the years.



Future Plan of the Department

- To increase number of teachers in the department
- Well established research lab with latest apparatus.
- To open training centre for students & farmers (sustainable practices in agriculture and green imitative)
- To develop work culture among the students to give them part time job.
- To introduce new branches.



**THANK
YOU**

Department of Botany