

Department of Botany

The Department of Botany, Giriraj Government College was established in 1956. At the time of establishment the education imparted was pre-university course and under graduation. Sree K.V.S. Ramakoti was the first Head holding the charge of the Botany department.

B.Sc course with a combination of Botany, Zoology and Chemistry was offered initially. B.Sc course in combination with Botany, Biotechnology and Chemistry was started in the year 2001-2002 as a self-finance course.

M.Sc (Botany) course was started in 2016 -17 with an intake of 30 students. now it's intake 60

Botany Syllabus -UG

	Subject	Year	Semester	Link
1	Botany	I	Semester -I & II	Link
2	Botany	II	Semester-III & IV	Link
3	Botany	III	Semester-V & VI	Link

Botany Syllabus - PG (M.Sc.Botany)

Subject	Year	Semester	Link
Botany	I & II	Semester-I,II,III & IV	Link

Courses Offered 2020-2021-First Year with Botany Combination

S.No.	Groups (Subjects Combination)
1	Botany-Biochemistry-Chemistry
2	Botany-Chemistry-Biotechnology
3	Botany-Chemistry-Computer Science
4	Botany-Zoology-Biotechnology
5	Botany Zoology-Chemistry
6	Botany-Zoology-Computer Science
7	Botany-Biochemistry-Biotechnology
8	Botany-Biochemistry-Computer Science
9	Botany-Zoology-Psychology

Teaching Staff:

	Faculty Name	Faculty-UG/PG	Qualification	Designation	Profile Link
	<u>Dr.P.Latha</u>	<u>UG</u>	<u>M.Sc.,B.Ed., M.Phil,Ph.D</u>	<u>Head, Department of Botany</u>	<u>View Profile</u>
	<u>Deepak Parmar</u>	<u>UG</u>	<u>M.Sc.,B.Ed., ,(Ph.D)</u>	<u>Asst.Prof.of Botany</u>	<u>View Profile</u>
	<u>Dr.P.Ravi Raj</u>	<u>UG</u>	<u>M.Sc.,B.Ed., ,Ph.D</u>	<u>Asst.Prof.of Botany</u>	<u>View Profile</u>

	<u>D.Latha</u>	<u>UG</u>	<u>M.Sc.,B.Ed., (Ph.D)</u>	<u>Contract Lecturer</u>	<u>View Profile</u>
	<u>M.Gopal</u>	<u>UG</u>	<u>M.Sc.,B.Ed.</u>	<u>Contract Lecturer</u>	<u>View Profile</u>
	<u>Dr.T.Narsimha Swamy</u>	<u>PG</u>	<u>M.Sc.,B.Ed. Ph.D</u>	<u>Guest Lecturer</u>	<u>View Profile</u>
	<u>Dr.Vemula Suresh</u>	<u>PG</u>	<u>M.Sc.,B.Ed. Ph.D</u>	<u>Guest Lecturer</u>	<u>View Profile</u>
	<u>Amreen Ara</u>	<u>PG</u>	<u>M.Sc.,B.Ed.</u>	<u>Guest Lecturer</u>	<u>View Profile</u>
	<u>Dr.Y.Venkatesh warlue</u>	<u>PG</u>	<u>M.Sc.,B.Ed., Ph.D</u>	<u>Guest Lecturer</u>	<u>View Profile</u>

Succession List of the Heads of Botany Department

S.No.	Name of the Head of the Department	Qualification	Period
1	Sr. K.V.S.Ramkoti	M.Sc.	1956 - 1972
2	Smt.R. Janakidevi	M.Sc	1972 - 1973
3	Sr.K.Srinivas Rao	M.Sc	1973 - 1975
4	Smt.Janaki Devi	M.Sc	1975 - 1977
5	Dr.Bhairavanath	M.Sc., Ph.D	1977 - 1986
6	Sr. M.Venkata Reddy	M.Sc	1986 - 1986
7	Sr. N.Krishnudu	M.Sc	1986 - 1988
8	Dr.V.Narayan Reddy	M.Sc.,Ph.D	1988 - 1990
9	Dr.Bhairavanath	M.Sc.,Ph.D	1990 - 1996
10	Dr.V. Narayan Reddy	M.Sc.,Ph.D	1996 - 1998
11	Sri.V.Rajagopal	M.Sc	1998 - 2000
12	Sr.M.Venkata Reddy	M.Sc	2000 - 2004
13	Sri.Krishna Reddy	M.Sc.,B.Ed	2004 - 2010
14	Sri.K.Devender Babu	M.Sc.,B.Ed	2010 - 2017

15	Dr.B.Nagaraju	M.Sc.,M.Ed.,M.A, Ph.D	2017 - 2018
16	Smt.T.Umakiran	M.Sc.M.Ed	2018 -2018 Feb.-July
17	Dr.B.Nagaraju	M.Sc.,M.Ed.,M.A, Ph.D	2018 -2018 July-Aug.
18	Smt.K.Shobha Rani	M.Sc.,B.Ed	2018 -2018 Sep.-Nov.
19	Dr.P.Latha	M.Sc.,B.Ed.,M.Phil, Ph.D	2018 -

Departmental Library :

There are nearly ... reference books available in the college central library on Language and Literature.

- The Department also maintains its own library of about 55 reference books. Students are encouraged to borrow them regularly.
- Old Question papers of University exams as well as Internal exams are maintained in the departmental library for reference.

★ **List of Department Library Books-[View Link](#)**

❖ **[Result Analysis -View Link](#)**

Seminars /Conference

Academic Year	Date of the National Seminar/ Conference	Theme of the Seminar	Resource Persons	View Link
2012-2013	20 th February, 2013	“Recent Trends in Plant Sciences”	<p>Dr.P.Prakash Vice Chancellor, BRAOU HYD</p> <p>M.N.V Prasad University of Hyderabad</p> <p>Prof. Pullaiaah Choudary S.K University Ananthapur</p> <p>Prof. Seeta Ram Rao, Professor, OU</p> <p>Dr. S. Mohan Karuppayil, Professor, SRTM University</p>	View Images

<p>2015-2016</p>	<p>21st & 22nd December, 2015</p>	<p>“Biodiversity Conservation and Role of Student Youth”</p>	<p>Dr. M R G Reddy, IFS Addl. PCCF, MOEF & CC Regional office Chennai</p> <p>Dr. VenkataRamana, Asst. Prof, Nizams College, Hyd</p> <p>Dr. Srinivasulu Asst. Prof. of Zoology Osmania University , HYD</p> <p>Dr. K. Joseph, Head Scientist, Regional Rice and Sugarcane Research Station, Rudrur, Nizamabad</p>	<p><u>International e- Publication</u></p>
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<p>2017- 2018</p>	<p>29th December 2017</p>	<p>İmportance of Ethnomedicinal Validation of Regional Flora and Fauna for Value Added Products</p>	<p>Dr. B. Dinesh Kumar, Deputy Director, HOD Drugs Division, NIN</p> <p>Prof. Pullaiaah Choudary Dept of Botany, Sri Krishnadevaraya University, Ananthapur</p> <p>Dr. N. Harishankar, Scientist NCLAS, NIN HYD</p> <p>Dr. M.M.V Baig , Nanded</p> <p>Dr. M. Aruna, Telangana University</p> <p>Dr. Ch. Sambashivarao Principal ,Scientist RSRRS Rudrur NZB</p>	<p>View Images-1</p> <p>&</p> <p>View Images</p>
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<p>2020-2021</p>	<p>08th February 2021</p>	<p>International Conference on "Plants and Environment "</p> <p>organized by Dept.of Botany Girraj Government College(A),Nizamabad in Collaboration with Council for Green Revolution, Hyderabad & Dept.of Botany ,Telangana University,Nizamabad</p>	<p>Guest of Honour : Prof Naseem, Dean, Faculty of Science & Computer Science & Registrar ,Telangana University</p> <p>Resource Persons: 1.Dr.Maqbool Ahmed Head,Dept.of Botany,School of Sciences,Maulana Azad National Urdu University,Gachibowli, Hyderabad Topic :- The World of Mushrooms</p> <p>2.Dr.Shyam Kumar Bhandari, USA, Topic-Molecular tools that drives Scientific research: Basic Principle and application of blotting techniques</p> <p>3. Dr.Chandranatha Mahendranathan Eastern University,Sri Lanka Topic Post-harvest losses of fruits and vegetables in developing countries</p>	<p>View Images & Live streaming YouTube Video</p>
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			<p>4.Prof Abdullah Mohammad Shohael, Ph.D</p> <p>Dept.of Biotechnology & Genetic Engineering Jahanirnagar University,Bangladesh</p> <p>Topic :-Microbes in Applied Research to Improve food and Human Health</p> <p>5.Prof.Anjana Singh</p> <p>Tribhuvan University,Nepal</p> <p>Topic:Symbiotic effect of mycorrhizae on plants</p> <p>6.Dr.Madhusudhan Reddy</p> <p>Dept.of Botany Yogi Vemana University,Kadapa,A.P</p> <p>Topic: Ex-Situ conservation of endemic and threatened plants of Eastern Ghats,India</p> <p>7.Dr.N.Amaresen</p> <p>Asst. Professor C.G .Bhakta Institute technology Uka Tarsadia University</p>	
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			<p>Maliba campus, Bardoli Surat, Gujarat Topic: Microbial mediated mitigation of various Environmental stress in plants</p> <p>8.C. Umamaheshwar Reddy Environmental Scientist Council for Green Revolution, Hyderabad Topic: Plants for a living Planet</p>	
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Workshops

Year	Dates of the Workshop	Topic of the Workshop	Resource Persons	View Link
2013-2014	20 th -21st January, 2014	Two- day workshop on Modern trends and opportunities to students of life Sciences	<p>Dr.Pullaia choudary Prof. Sk University Ananthapur</p> <p>Dr. Venu Adl. Director BSI HYD</p> <p>Dr. Venkataramana Asst. Prof. Nizam College Hyderabad</p> <p>Dr. Alope Choarge BSI Hyderabad</p> <p>Dr. Gangadar Rao Rtd. Prof. OU HYD</p>	View Images
2017-2018	12th September, 2017	Plant Systematics – Recent Trends	<p>Dr. Venkataramana Asstt. Prof. Nizam College Hyderabad</p> <p>Dr. Sadashivaiah Asst. Prof GDC Wanaparthi.</p>	View Images
2018-2019	15 th &16 th february, 2019	Techniques in Biotechnology	<p>Dr.Rajesh Goud Gajula, Director Primer Biotech Research Centre Hyderabad</p> <p>ChandraShekher Kagitha, Durga Prasad, Junior Scientists,Primer Biotech Research</p>	View Images

2019-2020	19 th 20 th 21 st , 29 th September 2019	Techniques in Soil & Water testing	<p>T.Venkat Ravinder Dist. Director of Agriculture Officer, Nizamabad</p> <p>V.Ravindher- Agricultural Officer (Famer's training Unit), Nizamabad.</p> <p>Deepthi Devara Agricultural Officer, Nizamabad.</p> <p>B.Divya Agricultural Officer, NZB.</p>	View Images
2019-2020	21 st November 2020	Microscope Techniques	<p>Shaik Akbar Pasha, Asst. Prof of Microbiology</p> <p>Dr.P.Raviraj, Asst. Prof. of Botany</p> <p>Deepak Parmar, Asst. Prof. of Botany</p>	View Images
2019-2020	28 th February 2019	Herbarium Techniques & Pollen Morphology	<p>Dr.A.Vijaya Bhasker Reddy Head Dept.of Botany , Nizam College(A), Nizamabad.T.S</p> <p>Dr.P.Ravi Raj , Asst. Prof.of Botany,Girraj Government College(A) Nizamabad</p>	View Images & View Images

<p>2020-2021</p>	<p>23rd March 2021</p>	<p>Webinar workshop on Soil & Water testing Methods for Plant growth & Developmen t</p>	<p>T.Venkat Ravinder Assistant Director of Agriculture Officer, Nizamabad</p> <p>V.Ravindher- Agricultural Officer (Famer's training Unit),Nizamabad.</p> <p>Deepthi Devera, Agricultural Officer, Nizamabd.</p> <p>B. Divya, Agricultural Officer, Nizamabad</p> <p>D.Sree Lekha , Agricultural Officer, Nizamabad</p>	<p>View Images</p>
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Guest/ Extension Lectures / Webinar

S.No	Topic	Resource Person	Date	
1	Biogeochemical Cycles	Dr. B Vidya Vardhini, Professor, Telangana University	14.08.2013	
2	Bio-Diversity	Dr. M. Aruna, Associate Professor, Telangana University	30.09.2013	
3	Pteridophytes: General Characters	Deepak Parmar, Assistant Professor of Botany, Govt. Degree College, Armoor	06.01.2014	
4	r-DNA Technology	Dr. Jaipal, Assistant Professor of Botany, GDC, Jadcherla	07.01.2014	
5	Seed Technology	N. Sandhya Kishore, Asst. Professor, Regional Rice Research Station, Rudrur	07.02.2014	
6	Gene Expression – Lac and Tryptophan Operon	D. Annapurna, Assistant Professor of Botany	07.03.2014	

7	Grafting Methods and Vegetative Propagation	M. Aurna, Associate Professor, Telangana University	08.01.2014	
8	Phytohormones and Phytochromes	Dr. A.A Haleem Khan, Assistant Professor, Telangana University	23.09.2014	
9	Marselia	P. Latha, Lecturer in Botany, GDC, Armoor	20.02.2015	
10	Gene Concept, Gene Regulation	Abdul Haleem Khan, Assistant Professor, Telangana University	23.02.2015	
11	Equisetum and Stellar Evolution	Deepak Parmar, Assistant Professor of Botany, GDC, Armoor	25.02.2015	
12	Embryology of Angiosperms	Dr. M. Aruna, Associate Professor, Telangana University	10.09.2015	
13	Phytohormones	Prof. Vidya Vardhini, Telangana University	28.09.2015	
14	Bio-Diversity	Dr. Abdul Haleem Khan, Assistant Professor, Telangana University	06.10.2015	

15	Seed Technology	Smt. Pallavi, Assistant Professor, Agricultural Polytechnic, Rudrur	01.02.2016	
16	Tissue and Organ Culture	Dr. Abdul Haleem Khan, Assistant Professor, Telangana University	02.02.2016	
17	Horticultural Techniques and Bonsai	P. Latha, Lecturer in Botany, GDC, Armoor	24.02.2016	
18	Human Genomics	Dr. Harsha Vardhan Doddapaneni, Assistant Professor, Library Production, Human Genome Sequencing Centre, Dept. of Molecular Human Genetics, Baylor College of Medicine, Texas	07.07.2017	View image
19	Modern Trends in Taxonomy	P. Ravi Raj, Assistant Professor of Botany, SRNK, GDC, Banswada	22.08.2017	
20	General Account on Embryology	K. Devender Babu, Retd Hod, Department of Botany, Girraj Government College, Nizamabad	06.02.2018	

21	Bennettiales and Plant Fossils	Deepak Parmar, Assistant Professor of Botany, Govt.Degree College, Armoor	10.02.2018	
22	rDNA Technology	Dr. N. Pundari Goud, Retd. Lecturer in Botany	21.02.2018	
23	Biodiversity	Dr.B.Nagaraju, Retd Lecturer in Botany Girraj Govt.College(A), Nizamabad	20-09-2019	
24	"Organic farming "	Sri.Prachetan, Organic farming Trainer Nizamabad	26-09-2019 to 27-09-2019	
25	Gene Organization	T.Uma Kiran Asst.Prof of Botany Govt.Degree College(A),Nizamabad	30-03-2019	
26	Extension Lecture / Awareness Programme on Organic Farming	V. Ravinder, Farmer training Centre (FTC) Agriculture Officer Nizamabad	17-08-2019	View images
27	National Webinar on Plant Succession -Hydrosere & Xerosere	Dr.A.Vijaya Bhasker Reddy, HOD, Department of Botany Nizam College(A), Osmania University,Hyderabad	05-05-2020	View images

28	National Webinar on "NIF Genes in Klebsiella pneumoniae and Career Opportunities for UG & PG Students in Life Science"	Prof. B.Vidya Vardhini, Department of Botany, Telanagana University	13-05-2020	View Images
29	National Webinar on Evolution of Sporophyte in Bryophytes and Stelar Evolution in Pteridophytes	Padala Thirupathi, Head, Department of Botany Asst.Prof. of Botany Govt.Degree College for Women Jagtial	24-02-2021	View images
30	National Webinar on Biodiversity: Hotspots of India	Prasanna Harikrishna, Asst.Prof Of Botany SRR Govt.Arts & Science College,Karimnagar	23-02-2021	View images
31	Extension Lecture on Biofertilizers and Organic Farming	V. Ravinder, Farmer traing Centre (FTC) Agriculture Officer Nizamabad	04-0302021	View Images
32	National Webinar Webinar on "Effect of Blue Light Emitted from Electronic Screens on Memory"	Ande Jeevan Rao, Rtd DVEO & Memory Trainer Nizamabad	31-03-2021	View images

33	Webinar on Ecosystem Restoration on the Occasion of World Environment day	A.Uma Shankar Kumar Asst.Dean -IQAC KSRM College of Engineering National Youth and IG -NSS Awardee	05-06-2021	View Images
34	Women and Human Rights in India Dept.of Botany & Food and Nutrition of RBVRR Women's College, Hyderabad in Association with Dept.of Botany & WEC of Girraj Government College(A), Nizamabad	Dr.B.Sravanthi Asst.Prof.of Law Department of Law Telangana University, J.Bhanupriya Sakhi Centre Adminstrator, Sakhi One Stop Centre, Nizamabd	11-06-2021	View Images & YouTube Link

❖ **Botany Laboratory-**

[Department of Botany-List of Laboratory Equipments-View Link](#)

Botanical Garden - [View images](#)

The Department of Botany maintains a Botanical Garden which consists of Wild and Ornamental Plants. The botanical garden caters to the needs of students for their practical work, the students collect plant twigs from the garden for their taxonomy practicals. Under Shade net .

Shade Net - 100 square yards and Botanical garden area 1350 square yards.

Shade net:

MRP studies are carried out under shadenet.

The department is also planning to study the rare Medicinal plants under the shade net

Surviving plants -[View Images](#) & [View images](#)

[Botany Department activities-2020-2021: View Link](#)

Best Practices :

- Herbarium to promote the regular collection and prepare & display on Notice Board by Faculty and Students study Projects.
- Vinaya Chavathi 21-leaves -Exhibition
- Free Coaching to PG entrance and Competitive Examinations
- Collaboration with Forest Department, Urban Biodiversity to prepare saplings, Plantlets, Nursery grafting techniques for plantation
- Collaboration with the horticulture department to train the students on various gardening techniques.
- Maintenance of Shade net in campus
- Environmental awareness programmes
- Social responsibility is generated in the students by involving the students in social outreach programmes like Maintaining Greenery in the Campus, Swachha Campus

Annual Curricular Plans (lecturer-wise):

Each Lecturer is directed to prepare an Annual curricular plan depending upon the classes allotted to him/her, incorporating all the required Curricular, Co-Curricular and extracurricular activities as mentioned in the Departmental Action Plan.

Student centric activities for improved learning

- Student centric activities are planned and adopted for improved student learning, also facilitating life-long learning and knowledge management that contributes to student's holistic development. some of the student centric activities adopted are:
- Quiz
- Certificate Courses
- Project Works
- Field Visits
- Student Seminars
- Encouragement to participate in National/State Seminars and Workshops
- The details of the student centric activities conducted are maintained in a record.

Teaching, Learning and Evaluation:

Catering to Diverse Needs of Students

- Orientation classes for I Year students
- Remedial Classes
- Add-On Courses/ Certificate courses
- Timetable with details of courses

Teaching Learning Process

- Annual Curricular Plans (lecturer-wise)
- Student centric activities for improved learning
- Study Projects
- Guest Extension Lectures
- Student Seminars
- ICT based teaching & e-learning resources
- Innovative Teaching approaches

Evaluation Process

- **Internal Examinations**
- **Semester Examinations**
- **Result Analysis of last 5 years**

ICT based teaching

- Classes are taken using PPT's or videos to enhance the learning of the students.
- ICT based teaching is given prominence.

Innovative Teaching approaches

- Participatory learning methods such as Seminars and Assignments are used in the classroom
- Study Projects , discussions, debates provide an experiential learning for the student
- **The department is providing e-notes through [webblog-
https://dobggc.blogspot.com](https://dobggc.blogspot.com) & activities through <https://botanyggcnzb.blogspot.com>**

Teacher Quality Enrichment training

- The regular teachers undergo in service Orientation courses and Refresher courses and other training programmes as directed by CCE,TS, Hyderabad as part of their continuous professional development.
- Most of the present faculty members have published papers in Journals

Evaluation Process

Internal Examinations

- Internal Assessment examinations are conducted twice per a semester for every student.
- The marks scored by the students are maintained in a record .
- Each Internal exam consists of 20 Multiple choice questions and is an exam for 20 marks.
- Student Seminars are assigned 5 marks
- Student Assignments consist of another 5 marks.

Semester Examinations

The Semester examinations are conducted at the end of each semester and the marks scored are maintained in a record.

Toppers in the course for the last 2 years:

UG

S.No	Academic year	Name of the Student
1	2016-2017	Ms. Deshmukh Kameswari
2	2017-2018	Ms. Rujuladev Sravya
3	2018-2019	Sumayya Fathima

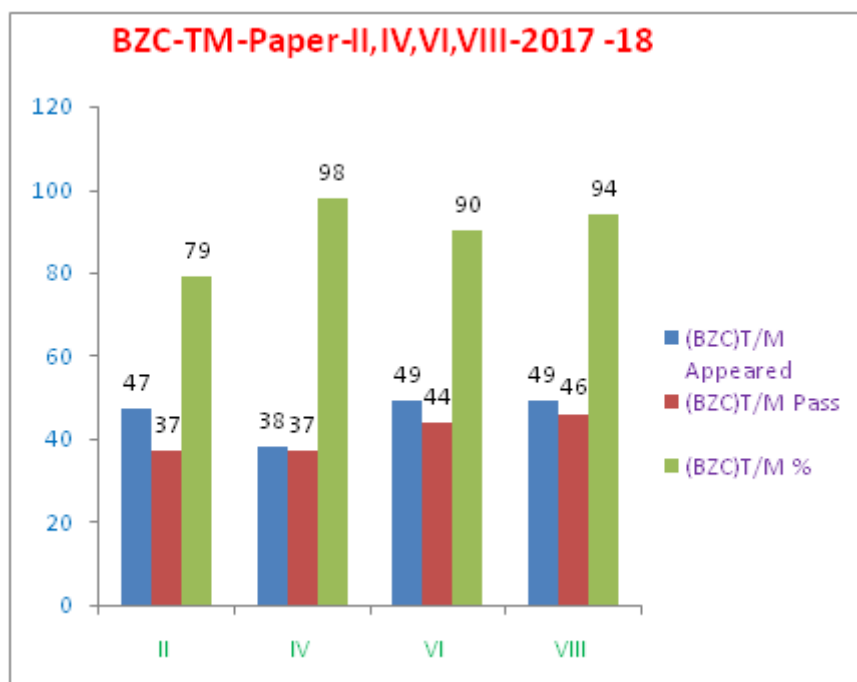
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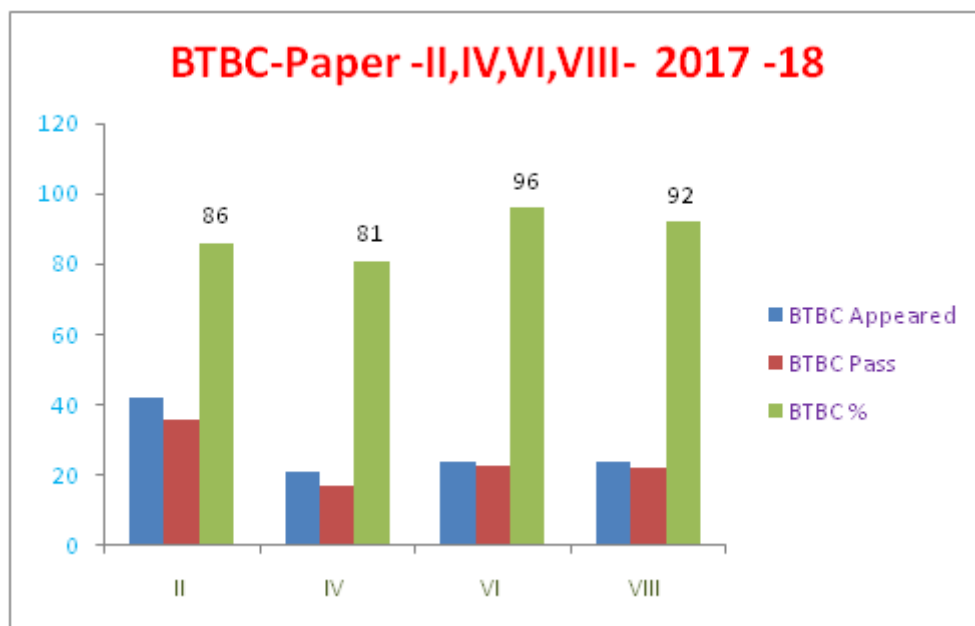
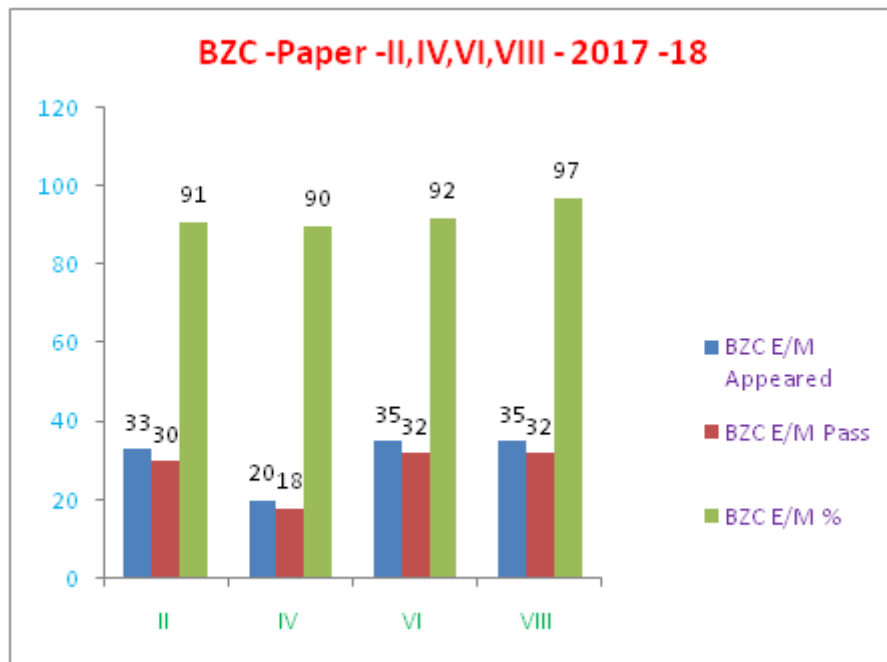
S.No	Academic year	Name of the Student
1	2017-2018	Deshmuk Kameshwari
2	2018-2019	Rajuldevi Sravya
3	2019-2020	Amballa Sruthi

Future Plans for the Department

- To procure a separate Research Lab
- To conduct a more in number Research Project work
- To provide P.G entrance guidance for more students and focus on helping more students into Central Universities.

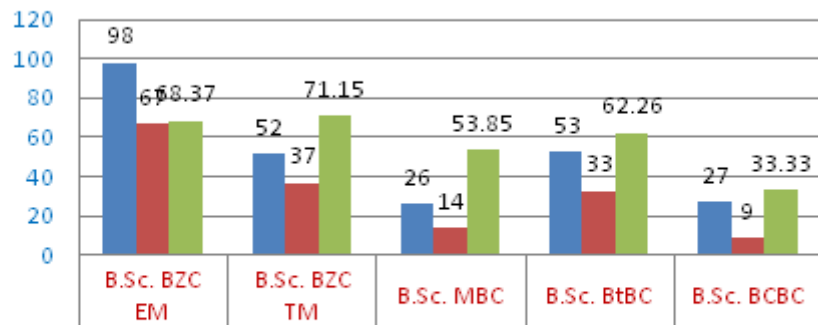
Result Analysis -UG





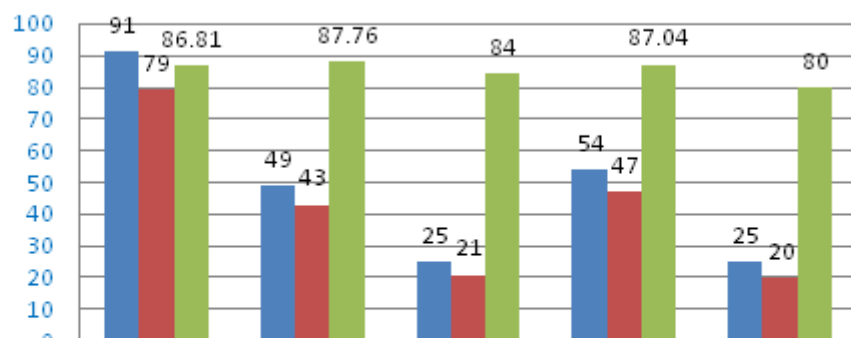
Botany Result Analysis-2018-2019

Semester I ; Paper I-2018-19



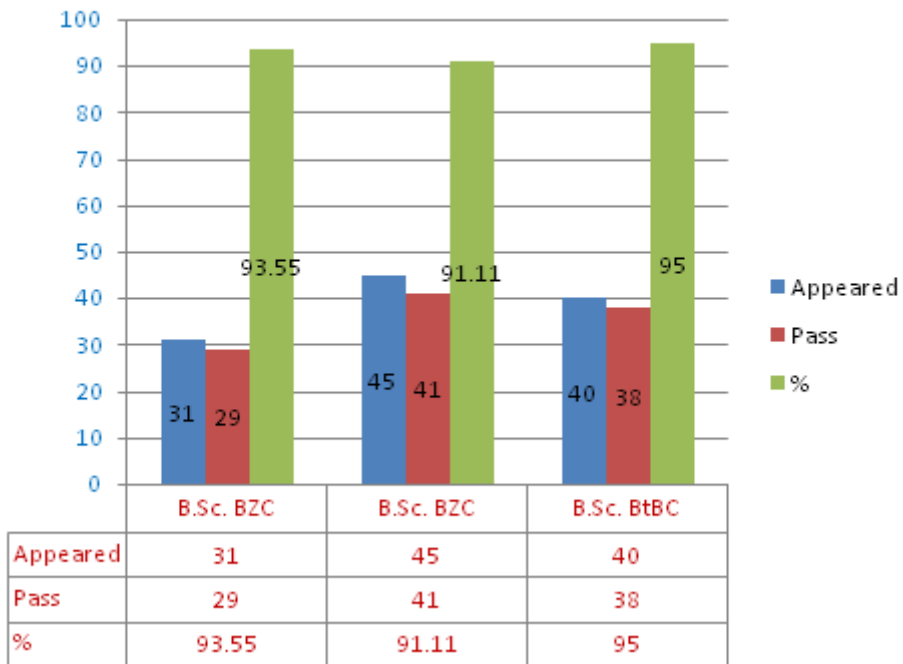
■ Appeared	98	52	26	53	27
■ Pass	67	37	14	33	9
■ %	68.37	71.15	53.85	62.26	33.33

Semester-II; Paper-II-2018-19

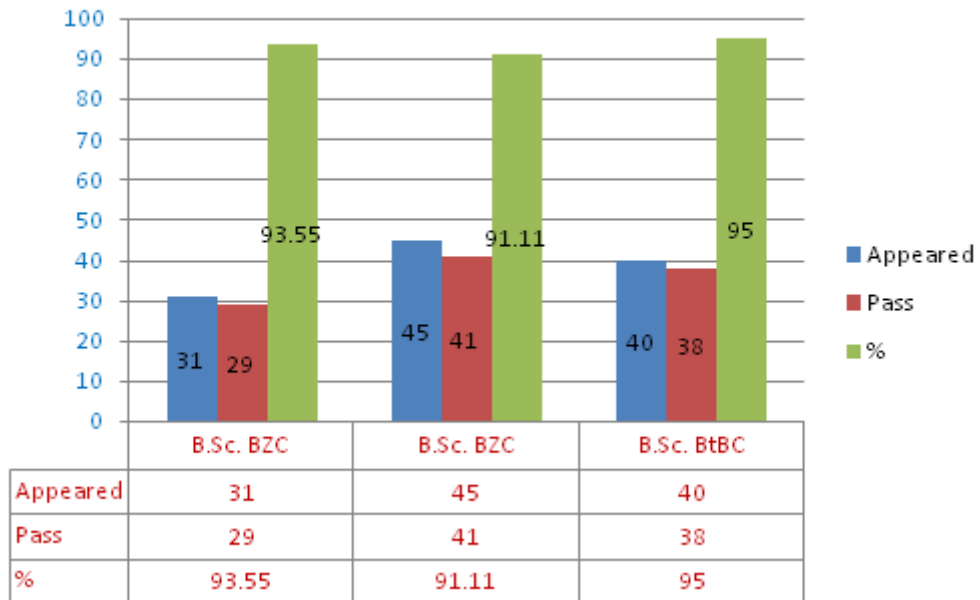


■ Appeared	91	49	25	54	25
■ Pass	79	43	21	47	20
■ %	86.81	87.76	84	87.04	80

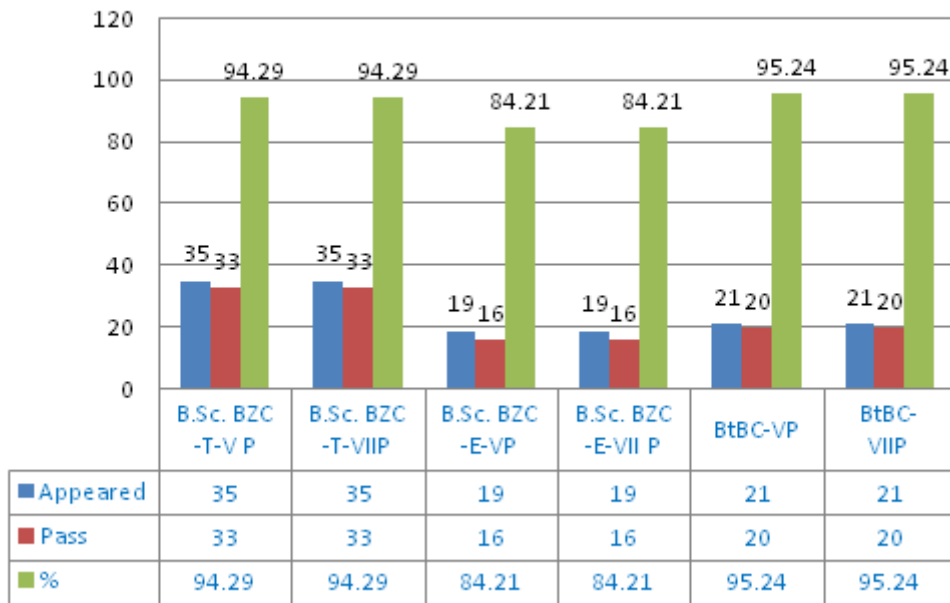
Semester III; Paper III-2018-19



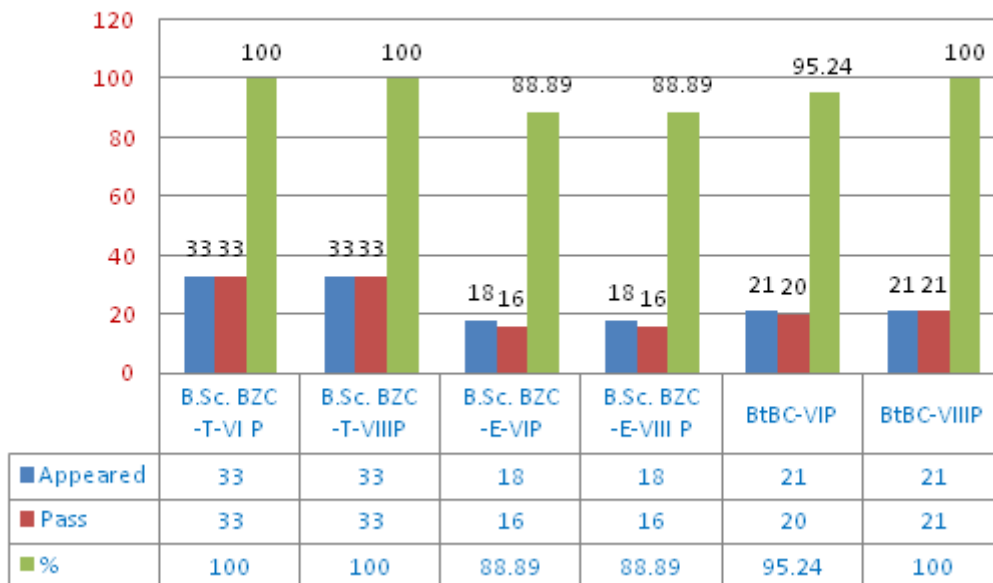
Semester IV; Paper IV-2018-19



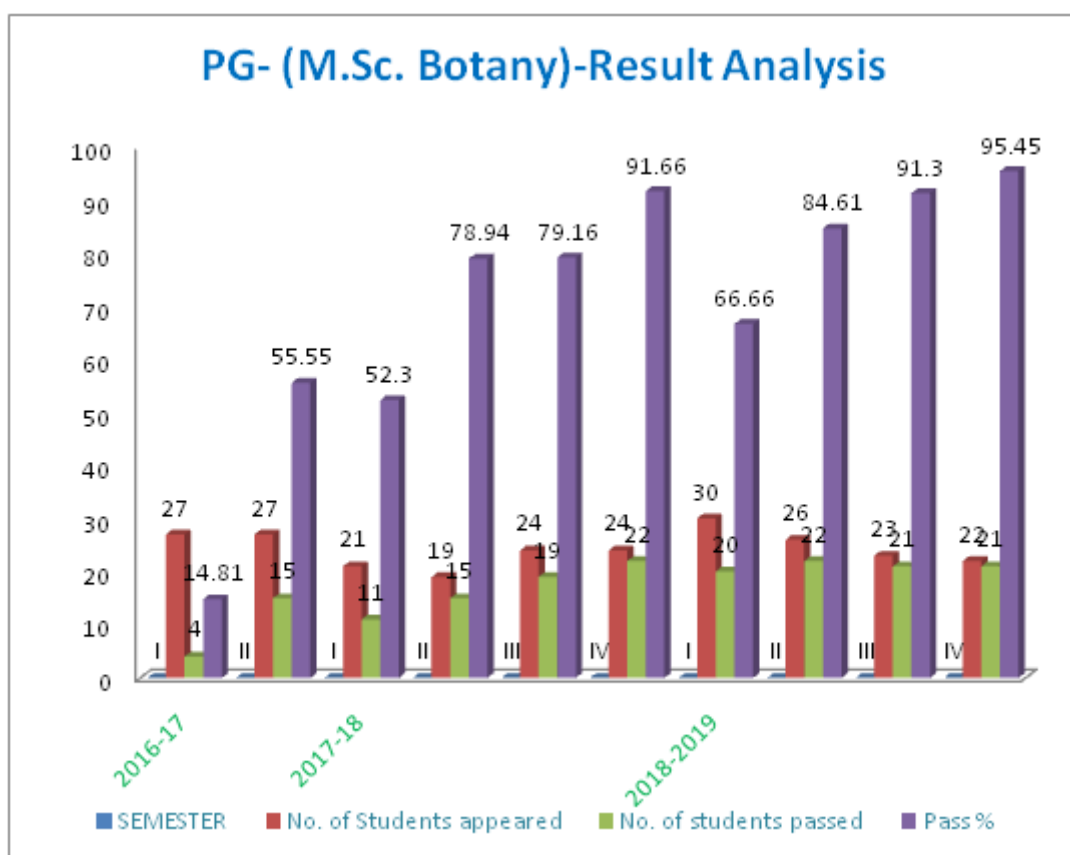
Semester-V; Paper-V & VII 2018-19



Semester-VI; PaperVI &VIII-2018-2019



Botany- PG- Result Analysis-2016-17, 2017-2018 & 2018-19



Extension activities

(Haritha Club/ NSS/NCC/TSKC/Eco-club/Social responsibility)

- The department encourages the students to take part in community services like Blood donation camps, Health camps, Green initiatives – Haritha Haram Programme, etc through extension wings NSS, NCC, WEC, ECo-club etc
- The staff of the department actively participate in many activities organized in the college at the institutional level like YUVATHARANGAM, etc.
- They also provide support to conduct literary activities like Quiz, Essay writing competitions etc at the college level, on days of importance like Human Rights Day, Seminars on ‘Voters Day’ etc.
- The faculty members have also been involved in career guidance programs as organised by TSKC- skill development wing of the college.