



DODLA KOUSALYAMMA GOVERNMENT COLLEGE FOR WOMEN

Nellore, Andhra Pradesh - 524003

Autonomous College, College with Potential For Excellence

Re-accredited with 'A' Grade by NAAC



DEPARTMENT OF BOTANY_PROFILE



Nellore, Andhra Pradesh, India

DKW College Bus Stop, Podalakur Rd, Ambedkar Nagar, Nellore, Andhra Pradesh 524003, India

Lat 14.439791°

Long 79.968135°

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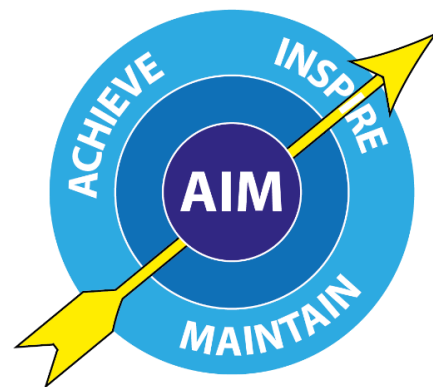
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The Department of Botany was established in the college during 1964 and completed 50 years. It has been enrolled for general stream of B. Sc (BZC & MBC) and offering a three years Bachelor of Science Degree. Botany department is one of the major departments in our college. The department is committed to the development of academic excellence in teaching. The department is highly motivated and excited to share both their knowledge and passion in the field of Botany. As an integral part of the undergraduate education, the department carries out extensive field work to ensure that our undergraduate programme is at par with the current requirements in Botany practical field. The Department is providing Departmental library facility with a number of reference books to support the needy students. The department is organizing awareness programmes, science exhibitions, research and various social service activities. The department is planning to organize National Conferences and workshops to inculcate research and competition culture among the faculty and students. Keeping pace with the advanced knowledge, the Department updates the curriculum from time to time and has introduced the Choice Based Credit System.

The aim of the Department is to strengthen its core activities of teaching, training and research. The department would also like to expand in future, the development of technology and industrial interaction under its auspices. The main thrust of the Department however is in the areas like Taxonomy of Angiosperm, Morphology, Anatomy, Wood analysis, Phytogeography, Pharmacognosy, Phytochemistry, Ethnobotany, Ecology, Phycology, Mycology, Bryology, Pteridology, physiology, cell Biology, Biotechnology, Molecular Biology, Genetics, Plant Breeding, Horticulture and conservation of Bio-diversity. The main aim of the Department is the academic, Educational and financial progress in Students by providing proper Education, Guidance and Skills.

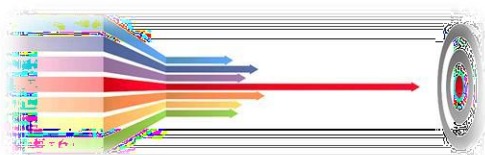


COURSES OFFERED:

- ✚ Bachelor of Science (B.Sc.) in Botany
- ✚ Certificate Courses
- ✚ Add-on Courses

DURATION:

- ✚ B.Sc. : 4 Years
- ✚ Certificate Courses : 3 Months
- ✚ Add-on Courses : 3 Months



ELIGIBILITY:

❖ B.Sc. (BZC & MBC)

Passed with **50%** aggregate marks (**35%** marks in case of candidate belonging to SC/ST) in **Intermediate (10+2)** examination or equivalent with English, Physics, **Chemistry** and **Botany & Zoology (Biology)**.

❖ Medium of Instruction: English/Telugu

Department Highlights:

- ❖ Since the initiation of the department, various educational trips have been organized for familiarizing the students with different plant species in their natural environment and research institutions.
- ❖ Staff of the Department are acting as the co-ordinators of various college committees like, COE, Eco club, Hostel, Discipline, Literary & cultural, Parent and teacher committee etc. and extending their hands whole heartedly for the smooth functioning of college activities
- ❖ Students of the department regularly focus on the development and maintenance botanical garden, maintenance museum of the department Clean and green in the campus, Plantation in the Campus.
- ❖ Different events are conducted by the department to enhance the awareness of the students regarding environmental issues like No plastic, Ozone Day, AIDS awareness rally, Water conservation etc...
- ❖ The Department Celebrates the International Women's Day, Science Day etc. and conducts the PPT presentation competitions, science exhibition every year.
- ❖ The Department organizes the different departmental events like, welcome and farewell programmes.
- ❖ The Department organizes the plantation drives in the College Campus periodically



- ❖ The Department conducts the expert lectures on topics like maintenance of plant samples, importance of clean energy sources, etc.
- ❖ Department has a museum having a collection of more than 145 species in herbarium, some preserved samples and seed samples.
- ❖ Department is maintaining a botanical garden in the college premises which is mainly concerned with the preservation of plants and education of the students of the college.

❖ The students of the

department are good in their academics and they are getting 100% result in the Autonomous examination.

❖ The department is

providing guidance and coaching for the academic progression of the students

❖ The department is

encouraging the students to participate in the NSS, NCC, Sports, Literary and cultural activities etc...

❖ Department is collecting funds voluntarily and donating them to the needy students

- ❖ Department is participating in several social service activities by conducting and participating in rallies of social awareness like AIDS rally, Swatch Bharath rally etc...
- ❖ The students are getting seats in the state universities and they are continuing their further education without fail till they get the self-sufficiency.

✚ **Number of teaching posts sanctioned: 3**

✚ **Faculty (Worked/ Working) :** Smt. Lalithamba (Rtd)
Smt. Audishesamma(Rtd)
Dr. E. Dorcas Joi (Transferred)
Dr. P.Victoria Rani (Working)
Dr. B. RajaRajeswari (Working)
Smt. K. Venkata Ramana (Working)



Important Publications Available in the Department:

- ✚ Management of Root-knot Nematode *Meloidogyne incognita* on Mulberry with *Passiflora foetida*. Agricultural Science Digest
- ✚ Moringa oleifera along with other herbs, the best remedy for heel pain.
International Journal of Scientific Development and Research, ISSN: 2455-2631
- ✚ Nematode *Meloidogyne incognita* Chitwood induced biotic stress on the phytochemical composition of mulberry leaves. INTERNATIONAL RESEARCH JOURNAL OF PHARMACY, ISSN 2230 – 8407
- ✚ Studies on Effect of Root Knot Nematode *Meloidogyne incognita* (Kofoid White) Chitwood on the Growth and Development of V1 Mulberry Variety and Silk Worm *Bombyx mori* L. International Journal of Applied Agricultural Research, ISSN 0973-2683
- ✚ Histopathological Studies of Mulberry Roots Infested by *Meloidogyne incognita* (Sem Analysis). Indian Journal of Agricultural Research”.
- ✚ GC-MS and In Silico Molecular Docking Analysis of Secondary Metabolites Present in Leaf Extract of *Cassia occidentalis*" 2020, 504-508 Published in Book: Medicinal Plants: Biodiversity, Sustainable Utilization and Conservation. Springer, Singapore. 04 April 2020
- ✚ Comparative Evaluation of Phytochemicals, Antioxidant and Antibacterial Efficiency of *Cassia occidentalis* and *Pithecellobium dulce* Leaves Extract, Journal of Hunan University(Natural Sciences) 2021, 48 (9),170-183
- ✚ Ameliorative Potentials of Ethanolic Leaves Extracts of *Cassia occidentalis* And *Pithecellobium dulce* On Diabetes Associated Metabolic Alterations in Streptozotocin-Induced Diabetic Rats: A Comparative Study", Journal of Cardiovascular Disease Research" 2021, 12 (3),1274-1285
- ✚ GC-MS Analysis and Wound Healing Efficiency of Ethanolic Leaves Extract of *Cassia occidentalis* and *Pithecellobium dulce* in Wistar Albino Rats: Comparative Study, Journal of Pharmaceutical Research International" 2021, 33 (44A), 156- 168

Number of Teaching Posts:

Post	Sanctioned	Filled
Lecturer	3	2 (Regular) 1.Contract base

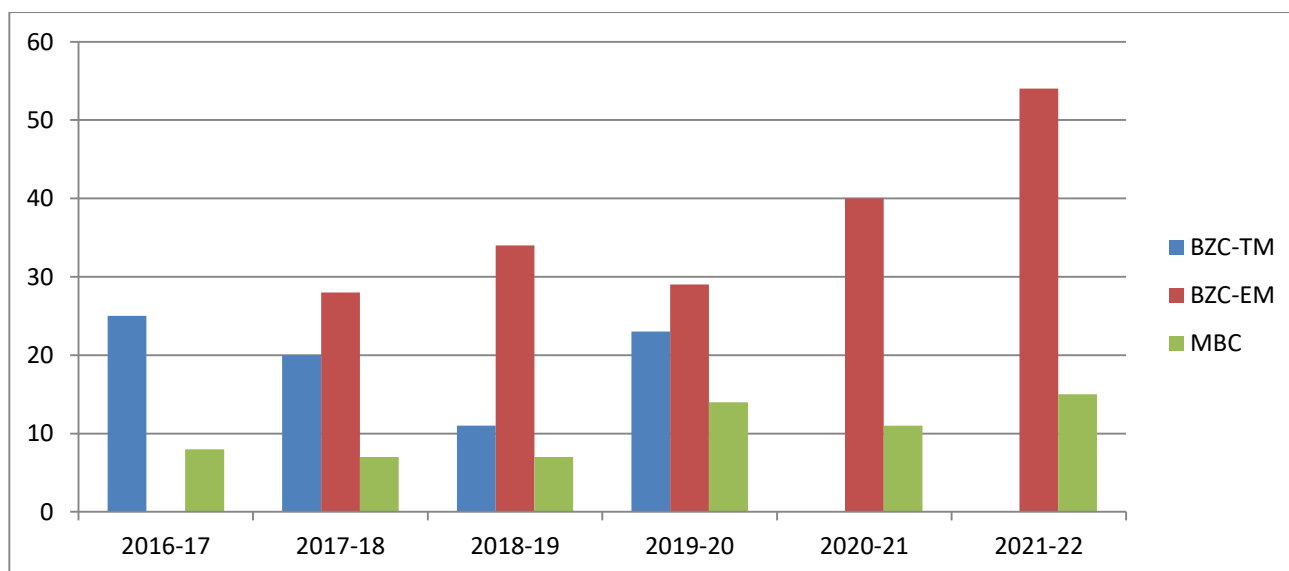
Number of Non Teaching Posts:

Post	Sanctioned	Filled
Herbarium keeper	1	1 (Regular)
Record Assistant	1	1 (Regular)

Admissions:

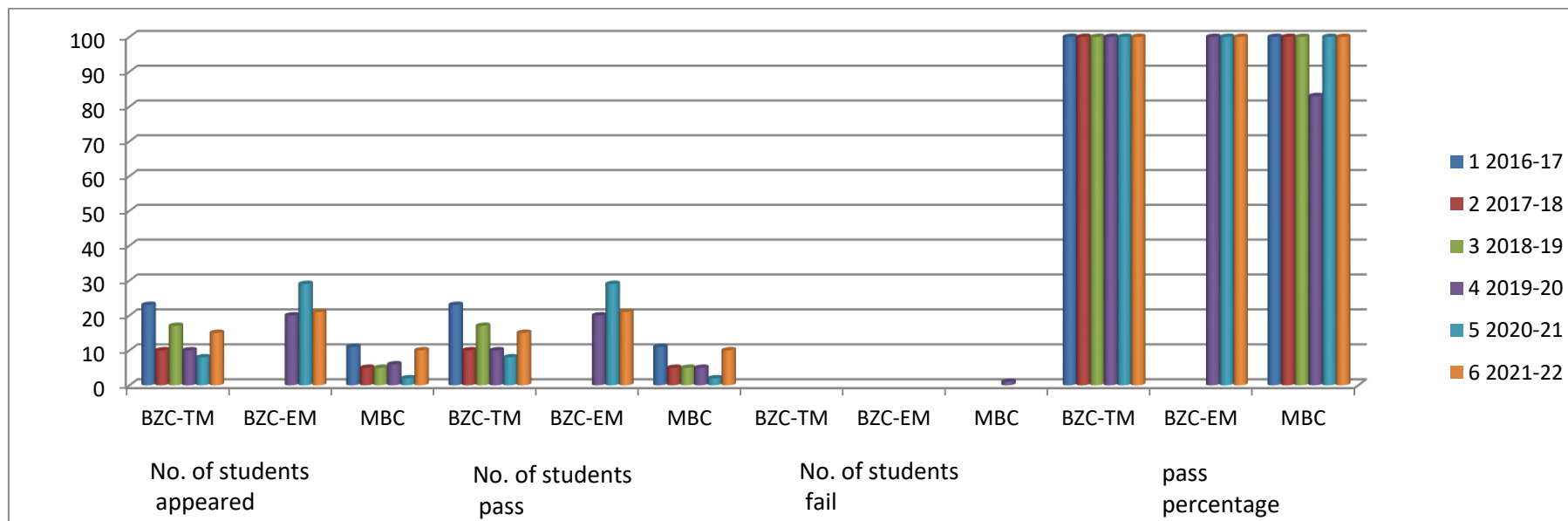
Intake – 60:

S. No	YEAR	NO OF STUDENTS ADMITTED BZC+MBC		
		BZC-TM	BZC -EM	MBC
1	2016-17	25	-	8
2	2017-18	20	28	7
3	2018-19	11	34	7
4	2019-20	23	29	14
5	2020-21	-	40	11
6	2021-22	-	54	15



Student profile

S. No	YEAR	NO OF STUDENTS APPEARED			NO OF STUDENTS PASS			NO OF STUDENTS FAIL			PASS%		
		BZC-TM	BZC - EM	MBC	BZC-TM	BZC - EM	MBC	BZC-TM	BZC - EM	MBC	BZC-TM	BZC - EM	MBC
1	2016-17	23	-	11	23	-	11	-	-	-	100	-	100
2	2017-18	10	-	5	10	-	5	-	-	-	100	-	100
3	2018-19	17	-	5	17	-	5	-	-	-	100	-	100
4	2019-20	10	20	6	10	20	5	-	-	1	100	100	83
5	2020-21	8	29	2	8	29	2	-	-	-	100	100	100
6	2021-22	15	21	10	15	21	10	-	-	-	100	100	100



STUDENT PROGRESSION TO HIGHER EDUCATION

Many students of the Department reached heights in their Professions. Number of students achieved good ranks in the **SPMVV.CET, SVU. CET** and **YOGI VEMANA, VSU CET** and other **P.G** Entrance Examination. Some of our outgoing U.G students joined in P.G Botany.

S. No	Department	Name of the student	Program graduated from	Name of the institution joined	Name of Program admitted to	H. NO /Rank/any other proof
1	Botany	K. Mounika	BSC, BZC	Andhra Christian college, Guntur, AN U.	MSC, Botany	10102087 (Rk-1118)
2		P. Alekyamanjari	BSC, BZC	V.S.U,Nellore	MSC, Botany	20101203 (15)
3		A.Usha	BSC, BZC	V.S.U, Nellore.	MSC, Botany	20101008 (113)
4		V. Pavani	BSC, BZC	S.V.U, Tirupati	MSC, Botany	1050290 (25)
5		R. Haritha	BSC, BZC	SPMVV, Tirupati.	MSC, Botany	
6		S. Bhargavi,	BSC, BZC	SPMVV, Tirupati.	MSC, Botany	
7		A.Spandana	BSC, BZC	S.V.U, Tirupati	MSC, Botany	
8		U. Kowsalya Devi,	BSC, BZC	Yogi vemana university, Kadapa.	MSC, Botany	

Departmental Activities:

- + **Plantation**
- + **Vanam manam**
- + **Guest lectures**
- + **Filed trips**
- + **Collection and Preservation of Herbaria**
- + **Quiz programmes**
- + **Student seminars**
- + **Health awareness programmes**
- + **Awareness programme on AIDS**
- + **Awareness programme on Corona**

Best practices:

- + **Distribution of plants to villagers**
- + **Prohibition of plastic in campus**
- + **Waste management in campus**
- + **Plantation to increase green cover**
- + **Maintenance departmental library to support student academics**

