



V.S.R. GOVERNMENT DEGREE & P.G. COLLEGE

MOVVA-521135, KRISHNA DISTRICT, ANDRHA PRADESH

NAAC Accredited with "A" Grade (3.01 CGPA)

ISO 9001:2015, 14001:2015, 50001:2011 Certified Institution

(Affiliated to Krishna University)



Email Id: gdcjkc.movva@gmail.com

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Phone No: 08671 252451

Website: www.gdcmovva.ac.in

PROFILE



Botany

V.S.R. GOVERNMENT DEGREE & P.G. COLLEGE, MOVVA



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History of the College & Department:

The institution was established in the year 1984. As per the G.O.Ms.No .509/EDN dated 28/11/1984, By the efforts of Sri Mandava Janaki Ramaiah Chairman of Kshethraiah General & Technical Education Society. Prof M.V.Rama Sarma Vice Chancellor of Sri Venkateswara University Tirupati who belongs to Movva inaugurate the degree college.

This college was started, during the academic year 1983-84 with the efforts and good wishes of elders and the elite people of the town visualizing the great need of it for promoting rural education in this backward region, in a permanent building. The first principal was Major Ch.Rajeswara Rao. At the time inception the college had 20 faculty i.e. Arts and commerce. The strength of the students applied and got admitted in both faculties in the first year of its inception was only nine. With the passage of time the college has unprecedented growth over the years. At present the strength of the college is 642.

Department Profile:

B.Sc. (Bt.B.C) course with Botany, Bio technology and Chemistry was introduced in this college during the academic year 2008-2009. As a part of this, the Department of Botany was established in the same year i.e, 2020-2021.B.Sc with combination of zoology was introduced in the academic year 2020.

From 2008 – 09 academic year science courses were started with combinations of BZC groups. It is the only government degree college for Krishna district and has been catering to the educational needs of for the past 23 years. This college is one of the few government institutions that are greatly admired for its location being in the heart of the town.

Department of Botany was established in 2008. The Department was recognized for teaching in the various areas of Botany. A well-balanced curriculum having theory and practical and qualified faculty has been the hall mark of this Department.

Based on the National Education Policy (NEP) 2020 college started Botany Honours Programme from Academic Year 2023-2024

[VIEW](#)

The Department offers an undergraduate program which is in affiliation with Krishna University, Machilipatnam, Krishna District.

The Department has also implemented the Choice- based Credit System for grading B. Sc students since the year 2015, which offers flexibility in the structuring and assessment of courses. Department of botany has a collaboration with K.V.K Gantasala, Movva mandal, Krishna district. The overall goal of Botany Department has been to impart quality education at under-graduate level along with continuous efforts on basic and applied aspects of plant science.

Highlights of the department:

- The department has one Regular lecturer, having N.E.T qualified and Ph.D, Pursuing and all of them have rich teaching experience.
- In addition to the regular teaching aids, ICT (Google classroom, You Tube channels and Google site) tools are used regularly in teaching learning process.
- Department has one well equipped laboratory to conduct practicals. Equipments like Spectrophotometer (elico), binocular microscopes (6), autoclave, Bacteriological incubator, Digital PH meter, centrifuge (12000rpm), compound microscopes (06), Dissection microscopes (06), herbarium cement rake etc.
- Department has a departmental library with reference books, question banks, study materials, previous question papers etc., which are kept for student's usage.
- Department organizing field trips relevant to the subject.
- Study projects, assignments are given to the students.
- Student seminars, quizzes and group discussions.
- Botany Honours Programme From Academic Year 2023-2024.
- The AP State Council of Higher Education (APSCHE) has constituted an Expert Committee vide Procs. No. APSCHE/AC-I/CBCS-2023-24/Review Dt. 13.03.2023 under the Chairmanship of Prof. K. Rama Mohana Rao, ViceChairman AP State Council of Higher Education. On the recommendations of the Committee, 4-year UG Honours Program with a single Major and one minor is introduced from the A.Y.2023-2024



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VISION & MISSION

VISION:-

- ▶ To Provide skill oriented & Quality education to the students to make them an in-depth knowledge of Botanical science and sensitize the plants & environment to explore and not exploit.
- ▶ To apply conventional and non-conventional tools to understand plant process.

MISSION:-

- ▶ Motivate students towards skill-based courses using their potentiality to their best and to develop recently realized skills through projects.
- ▶ To create environmental awareness to make them eco-friendly.
- ▶ To guide and encourage students to get good placements.
- ▶ To involve students to participate in Eco natural club.

AIMS AND OBJECTIVES

- ▶ To promote need based education.
- ▶ To create awareness on higher studies through Career Guidance.
- ▶ To work for the overall development of the students by imparting necessary knowledge and skills in the subject as well as related activities so as to enable them to face the future challenges.

SWOC ANALYSIS

STRENGTHS

- **Experienced faculty, capable of using ICT tools.**
- **One Equipped laboratory.**
- **Quality contribution towards college administration work.**
- **Adequate number of Bio visual chats (No. 60).**

WEEKNESSES

- **Lab space is inadequate as compared to the strength.**
- **Lack of ground area for the development of botanical garden.**
- **No PG programme in Botany.**

OPPORTUNITIES

- **To start PG botany**
- **To offer certificate courses related to Fruit culture & Vegetable culture.**

CHALLENGES

- **To enhance self- reliance among the students.**
- **Few of Intelligent students got married during I & II year.**



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FORMER FACULTY MEMBERS

Name of the lecturer	From-To	Educational qualification
V.Naga Lakshmi	01/08/2016 to 30/06/2018	M.Sc., B.Ed.
Dr.J.Ramudu	01/07/2018 to 2021	M.Sc., B.Ed., PhD.
Dr.R.Venkatesh	2021 to 07/07/2022	M.Sc., PhD. A.P.S.E.T
M.Anil Kumar	07/07/2022 to till to date	M.Sc., M.A (Lit),B.Ed. ,N.E.T

TEACHER'S PROFILE

Name of the Teacher	Qualification	Year of Joining	Designation	Specialization	Experience
M.Anil Kumar	M.Sc.,M.A(Lit),B.Ed N.E.T	2011	Lecturer in Botany	Cyto Genetics	12 years

FACULTY POSITION

Sanctioned posts for the Department of is one and at present one regular faculty is working in the sanctioned post.

Criterion-I: CURRICULAR ASPECTS



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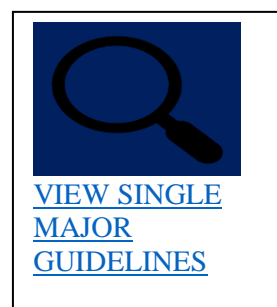
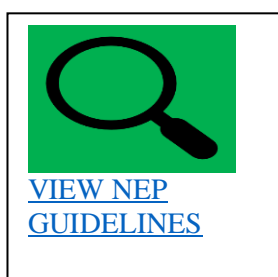
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CURRICULAR ASPECTS

We follow the syllabus framed by the Krishna University, Machilipatnam. From the academic year 2016-17 Choice based Credit System (CBCS) has been introduced in the curriculum by university. As per the almanac of the university every semester has 15 weeks of instruction period and 60 to 90 instruction hours per semester including 30 hours of practical classes. A revised CBCS syllabus has been implemented from 2021-22 academic year and we follow the same.

The National Education Policy (NEP) 2020 recognizes that higher education plays an extremely important role in promoting human as well as societal well-being and in developing India as envisioned in its Constitution - a democratic, just, socially conscious, cultured, and humane nation upholding liberty, equality, fraternity, and justice for all. It notes that "given the 21st -century requirements, quality higher education must aim to develop good, thoughtful, well-rounded, and creative individuals". In accordance with the NEP 2020, the UGC has formulated a new student centric "Curriculum and Credit Framework for Undergraduate Programmes (CCFUP)" incorporating a flexible choice-based credit system, multidisciplinary approach, and multiple entry and exit options. This will facilitate students to pursue their career path by choosing the subject/field of their interest. In consonance with NEP 2020 the Government of Andhra Pradesh rolled out a redesigned CBCS curriculum for 4-year UG Honours Programmes from the year 2020-21. With the CCFUP guidelines released in December 2022, the AP State Council of Higher Education has taken up the task of redesigning the curricular framework for the UG Degree Programmes. The AP State Council of Higher Education (APSCHE) has constituted an Expert Committee vide Procs. No. APSCHE/AC-I/CBCS-2023-24/ Review Dt. 13.03.2023 under the Chairmanship of Prof. K. Rama Mohana Rao, Vice Chairman AP State Council of Higher Education. On the recommendations of the Committee, 4-year UG Honours Program with a single Major and one minor is introduced from the A.Y.2023-2024



At the beginning of even and odd semester's departmental semester plan is prepared by the department and individual semester plans are prepared by the faculty members. Apart from the regular curriculum department of botany organized awareness programmes on the importance of protecting environment. As part of green initiative and beautification of the campus, department of botany actively involved in plantation of saplings in association with NSS & Eco club. Department of botany prepare the data base of plants in the college campus and create QR codes to plants. With the help of QR codes students learn about the plants very easily.

PAPERS & CREDITS

C.B.C.S – BOTANY COURSE From 2020-21

S. No.	Semester	Title of the Course (Paper)	Hours /week	Max. Marks (SEE)	Marks in CIA	Credits
1.	Sem.-I/ Course-1	Fundamentals of Microbes and Non-vascular Plants	04	75	25	03
	Course-1 Practical	Fundamentals of Microbes and Non-vascular Plants	03	Max. Marks-50 Internal assessment at Semester end		02
2.	Sem.-II/ Course-2	Basics of Vascular plants and Phytogeography	04	75	25	03
	Course-2 Practical	Basics of Vascular plants and Phytogeography	03	Max. Marks-50 External assessment at Semester end		02
3.	Sem.-III/ Course-3	Anatomy and Embryology of Angiosperms, Plant Ecology and Biodiversity	04	75	25	03
	Course-3 Practical	Anatomy and Embryology of Angiosperms, Plant Ecology and Biodiversity	03	Max. Marks-50 Internal assessment at Semester end		02
4.	Sem.-IV Course-4	Plant Physiology and Metabolism	03	75	25	03
	Course-4 Practical	Plant Physiology and Metabolism	03	Max. Marks-50 External assessment at Semester end		02
5.	Sem.- IV Course- 5	Cell Biology, Genetics and Plant Breeding	04	75	25	03
	Course-5 Practical	Cell Biology, Genetics and Plant Breeding	03	Max. Marks-50 External assessment at Semester end		02
		Domain related Skill Enhancement Courses (02)	03	75	25	03

6.	Sem.– V Course – 6 & 7	- Three (3) pairs of courses (each pair has 2 related courses) will be offered, student has to choose a pair of courses.	03	Max. Marks-50 Internal assessment at Semester end		02
			03	75	25	03
			03	Max. Marks-50 Internal assessment at Semester end		02

6C	Plant Tissue Culture	3	25	75	3	3	50	2
7C	Mushroom Cultivation	3	25	75	3	3	50	2



B.Sc., Honours in BOTANY:MAJOR

Academic Year 2023-24 onwards

COURSE STRUCTURE

Year	Semester	Course	Title	No. Hrs./ Week	No. of Credits
I	I	1	Introduction to Classical Biology	5	4
		2	Introduction to Applied Biology	5	4
	II	3	Non-vascular Plants –(T)	3	3
		4	Non-vascular Plants –(P)	2	1
II	III	5	Origin of Life and Diversity of Microbes –(T)	3	3
		6	Origin of Life and Diversity of Microbes –(P)	2	1
		7	Vascular Plants –(T)	3	3
		8	Vascular Plants –(P)	2	1
	IV	9	Plant Pathology and Plant Diseases –(T)	3	3
		10	Plant Pathology and Plant Diseases –(P)	2	1
		11	Plant Breeding –(T)	3	3
		12	Plant Breeding –(P)	2	1
		13	Plant Biotechnology –(T)	3	3
	14	Plant Biotechnology –(P)	2	1	
	15	Anatomy and Embryology of Angiosperms –(T)	3	3	
16	Anatomy and Embryology of Angiosperms –(P)	2	1		
17	Plant Ecology, Biodiversity and Phytogeography –(T)	3	3		

		10	Plant Ecology, Biodiversity and Phytogeography–(P)	2	1
		11	Plant Resources and Utilization–(T)	3	3
			Plant Resources and Utilization–(P)	2	1
III	V	12	Cell Biology and Genetics–(T)	3	3
			Cell Biology and Genetics–(P)	2	1
		13	Plant Physiology and Metabolism–(T)	3	3
			Plant Physiology and Metabolism–(P)	2	1
		14 A	Organic Farming–(T)	3	3
			Organic Farming–(P)	2	1
			OR		
		14 B	Seed Technology–(T)	3	3
			Seed Technology–(P)	2	1
		15 A	Mushroom Culture Technology–(T)	3	3
			Mushroom Culture Technology–(P)	2	1
			OR		
	15 B	Plant Propagation Techniques–(T)	3	3	

Semester	Course No. & Title of the course	Hours/ week (Th.)	No. credits (Th.)	Hours/ week (Pr.)	No. credits (Pr.)
VII	16 (A) Plant Systematics (OR)	3	3	2	1
Core Courses	16 (B) Plant Developmental Biology				
	17 (A) Plant Molecular Biology (OR)	3	3	2	1
	17 (B) Plant Genetic Engineering				
	18 (A) Crop Physiology (OR)	3	3	2	1
	18 (B) Plant Biochemistry				
VII	19 (A) Phyto-medicines and Ethnobotany (OR)	3	3	2	1
Skill Enhanced Courses (SEC)	19 (B) Herbal Technology				
	20 (A) Soil fertility and Conservation (OR)	3	3	2	1
	20 (B) Agroforestry				
VIII	21 (A) Phyto-biodiversity and Conservation (OR)	3	3	2	1
Core Courses	21 (B) Phytochemistry and Pharmacognosy				
	22 (A) Bioinformatics and Computational Biology (OR)	3	3	2	1
	22 (B) Omics in Plant Science				
	23 (A) Plant Cytogenetics (OR)	3	3	2	1
	23 (B) Biostatistics and Intellectual Property Rights				

VIII Skill Enhanced Courses (SEC)	24 (A) Biofertilizers and Biopesticides (OR) 24 (B) Industrial and Environmental Biotechnology	3	3	2	1
	25 (A) Gardening and Landscaping (OR) 25 (B) Floriculture	3	3	2	1

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[Model Curriculum \(2021-22\).](#)

[VIEW](#)

[Model Curriculum \(2023-24\).](#)



[VIEW](#)



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DEPARTMENT OF BOTANY - INDIVIDUAL TIME TABLES

SEM- II, IV & VI (2022-2023)

Lecturer Name: **MANIL KUMAR**

PERIODS								
DAY	1st period	2st period	3rd period	4th period	5th period	6 th period	7 period	8TH PERIOD
Monday	VI	IV	BOT-II	IV				
Tuesday	BOT-III	IV		IV	VI	VI	VI-LAB	
Wednes day	VI	IV	VI	IV	BOT	BOT PRACT-II		
Thursday		VI	VI	VI LAB		IV	IV LAB	
Friday	BOT-II	IV	IV					VI
Saturday	VI	BOT-II	VI		IV	IV	IV LAB	

Lecturer Name: **MANIL KUMAR-I,III,V Semesters**

PERIODS								
DAY	1st period	2st period	3rd period	4th period	5th period	6 th period	7 period	8TH PERIOD
Monday		BOT-1	BOT-1		BOT-III	ACC		
Tuesday		SDC	BOT-1				BOT-III	
Wednes day		BOT-III			BOT-I	BOT-I	ACC	
Thursday	BOT-III				BOT LAB-III	BOT LAB	BOT LAB	
Friday	BOT-I	BOT-III						
Saturday								

V Semester Students in Long term Internship

Table:1.2 FACULTY WISE WORKLOAD

S.NO	Name of the Faculty	Theory (Hours)	Practical (Hours)	TOTAL
1	M.ANIL KUMAR-I,III,V Semesters	24	8	32
2	M.ANIL KUMAR-II, IV&VI	18	12	30



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Criterion-II:

TEACHING, LEARNING & EVALUATION



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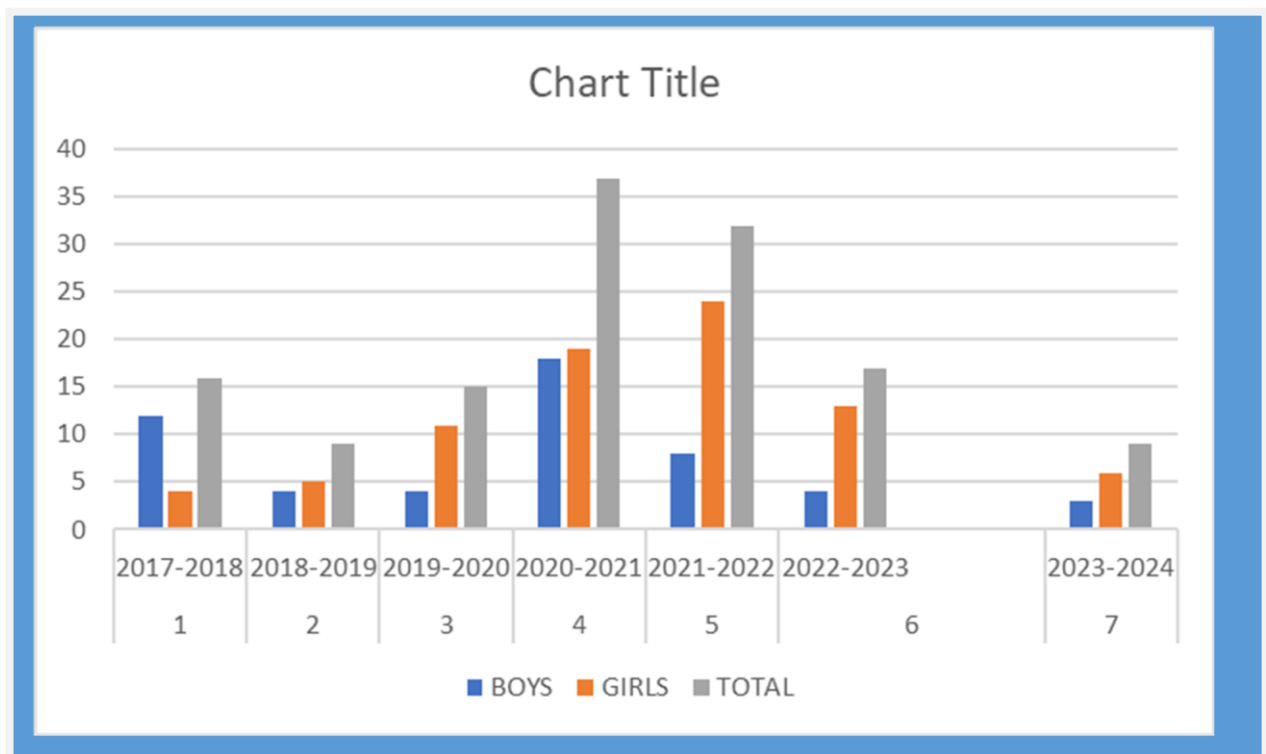
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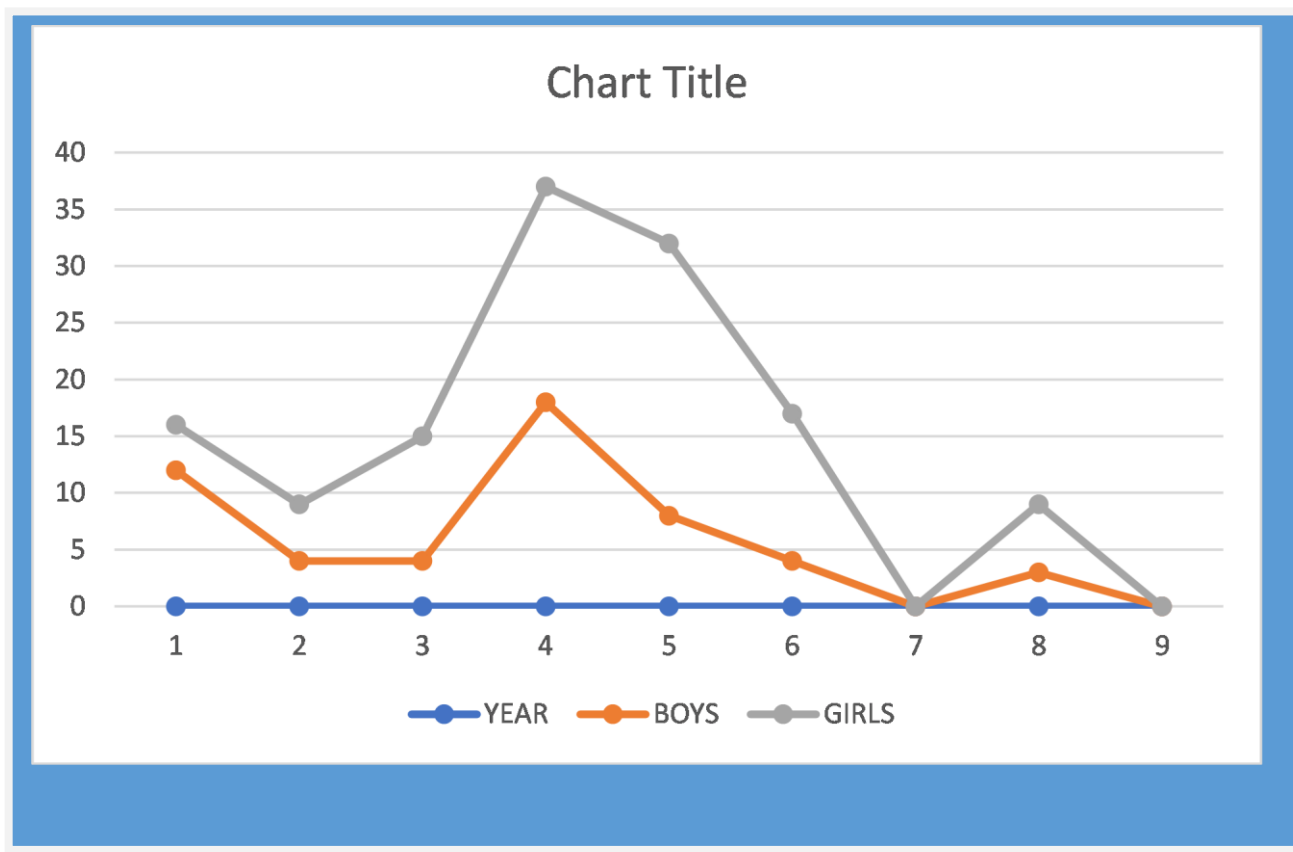
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STUDENT ENROLLMENT AND PROFILE:(2017 to 2023)

Sl.No	YEAR	BOYS	GIRLS	TOTAL
1	2017-2018	12	4	16
2	2018-2019	4	5	9
3	2019-2020	4	11	15
4	2020-2021	18	19	37
5	2021-2022	8	24	32
6	2022-2023	4	13	17
7	2023-2024	3	6	9

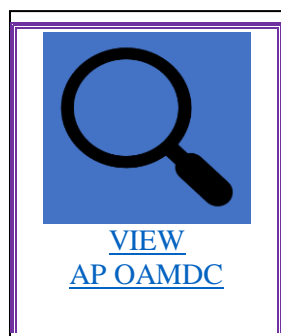




It is clearly observed from the graph that 82% seats were filled in the academic year 2017-2018.

Thanks to OAMDC admission process, Intake was increased to 09 in the academic year 2018.

216 seats were filled in this academic year. In terms of percentage this academic year recorded decreased trend. There was a significant jump in the enrollment was observed in the academic year 2019-20. Out of 30 seats, students were enrolled in this academic year. A small decrease in the enrolment was observed in the 2020-21 academic year. Because of discontinuation of the BZC&BT.B.C., courses. There are 92 life science students with botany combination students in the current academic year. Out of which 30 students are studying in the first year, 30 students are studying in the second year and 32 students are studying in the final year. It can be seen in the following pie. In the Academic year 17 Students joined in Botany as a subject. In 2023 Academic in the part of NPS 2020 Botany subject play as major subject.





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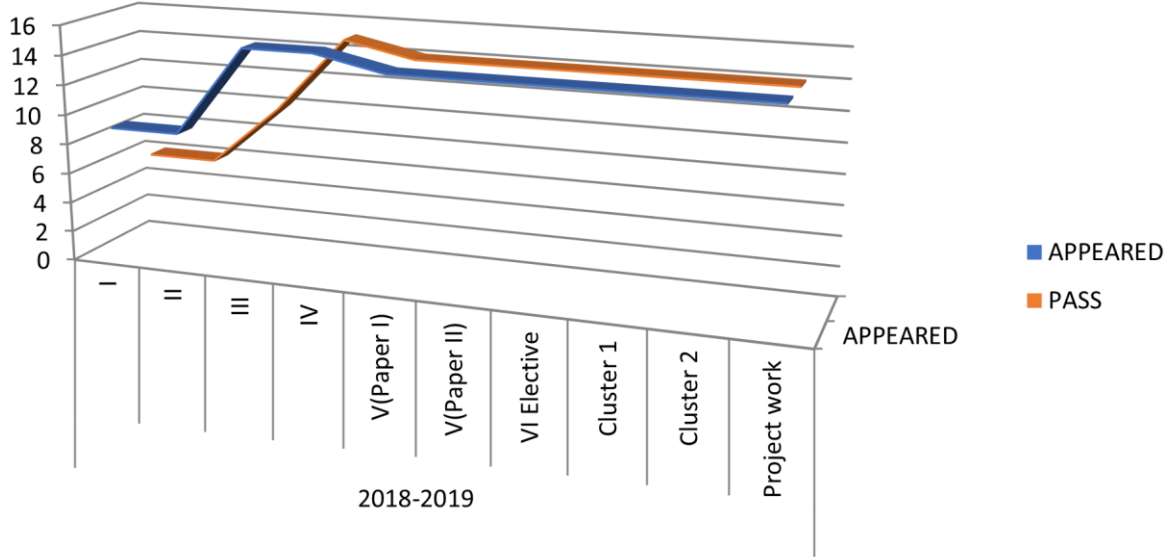
RESULT ANALYSIS:

SEMSTER/PAPER WISE RESULT FROM 2017-22

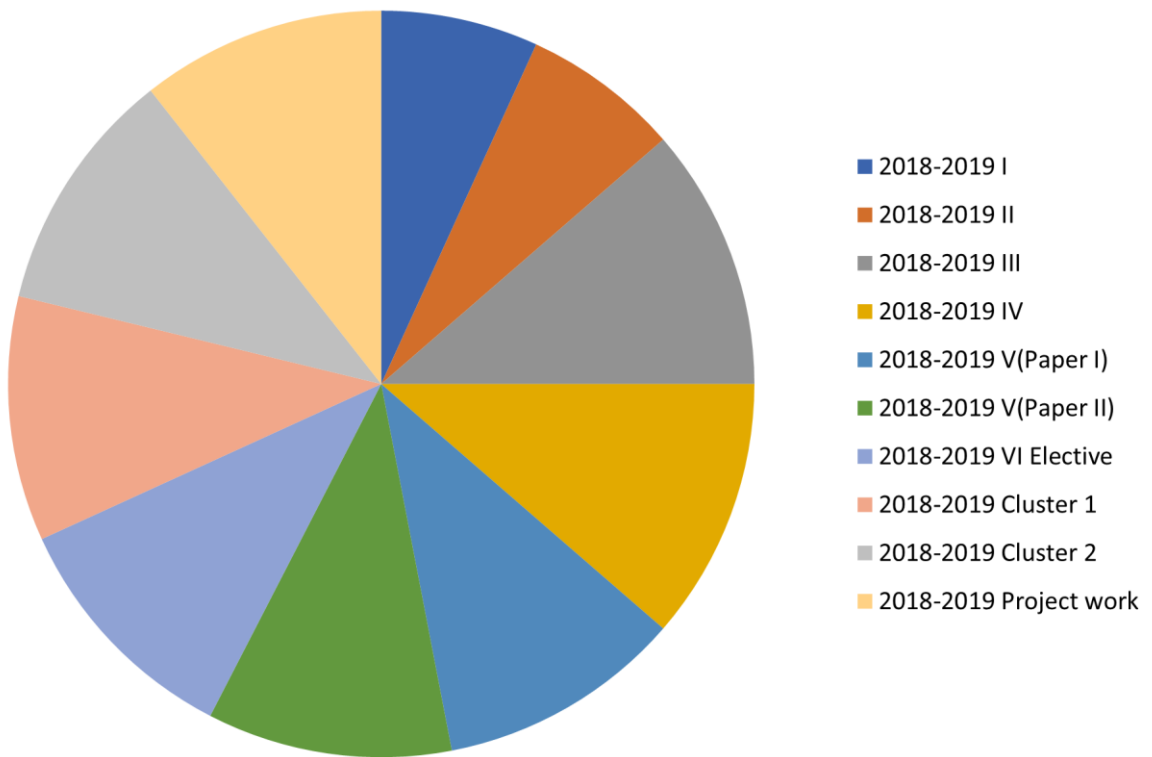
RESULTS ANALYSIS FROM 2017-2022

Sl.No	YEAR	SEMESTER	APPEARED	PASS	PASS%
1	2017-2018	I	16	15	94
2		II	16	16	100
3		III	16	16	100
4		IV	16	16	100
5		V(Paper I)	5	5	100
6		V(Paper II)	5	5	100
7		VI Elective	5	5	100
8		Cluster 1	5	5	100
9		Cluster 2	5	5	100
10		Project	5	5	100

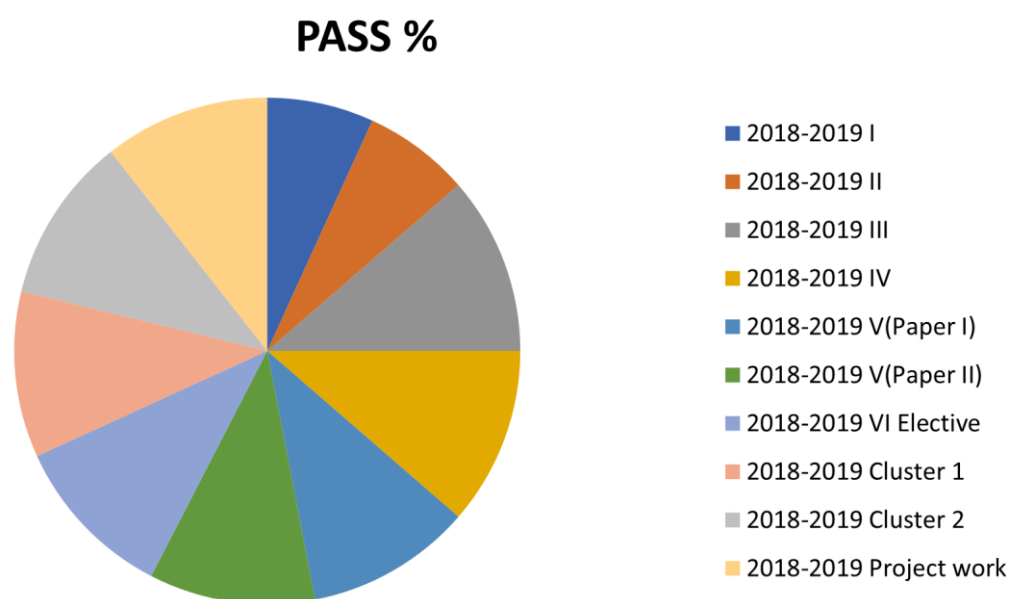
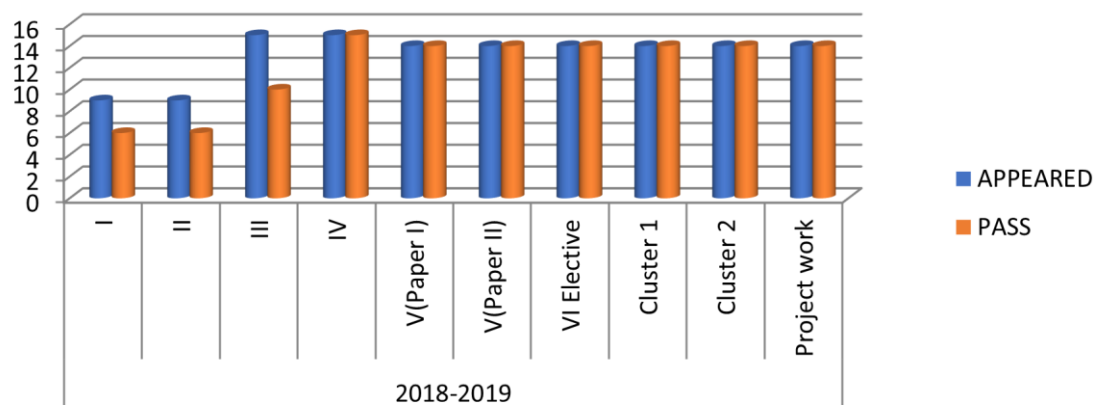




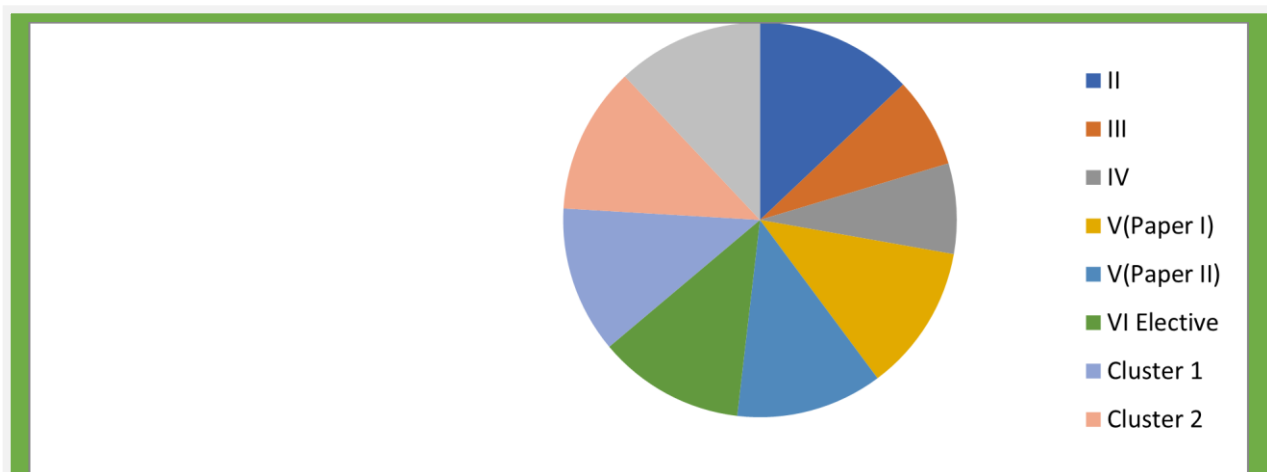
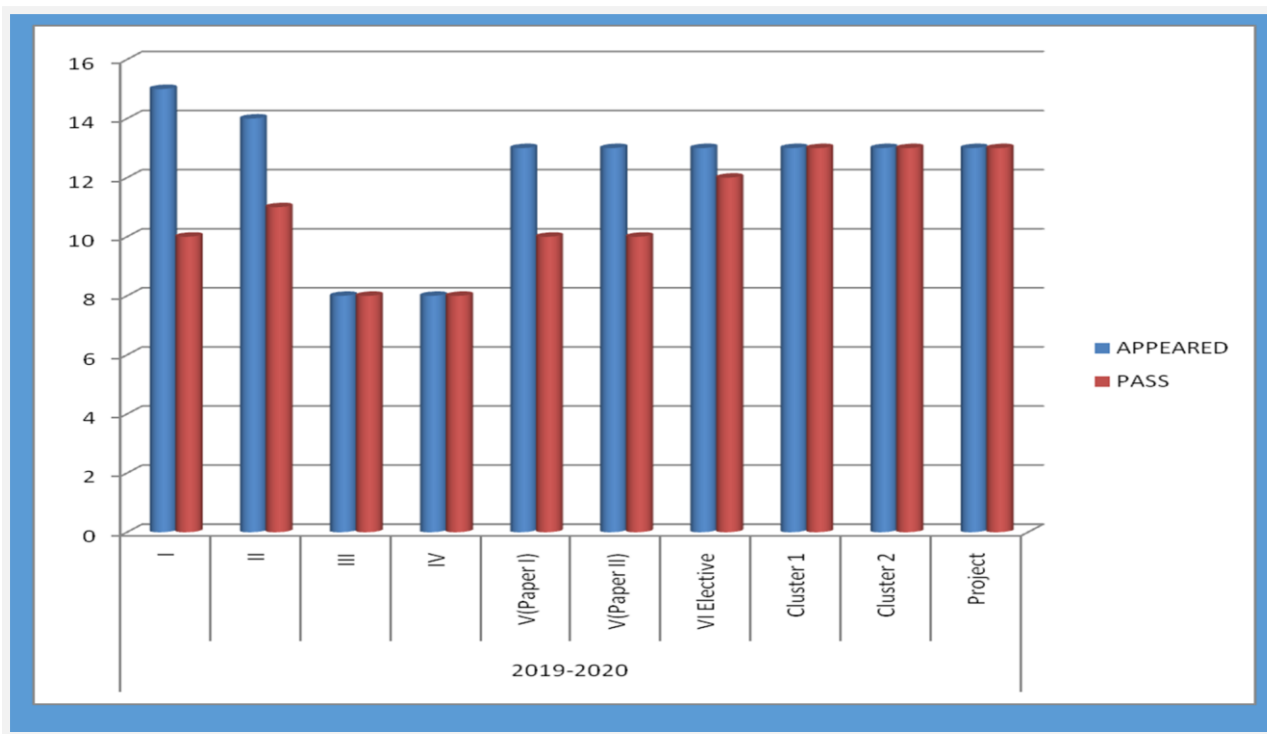
APPEARED



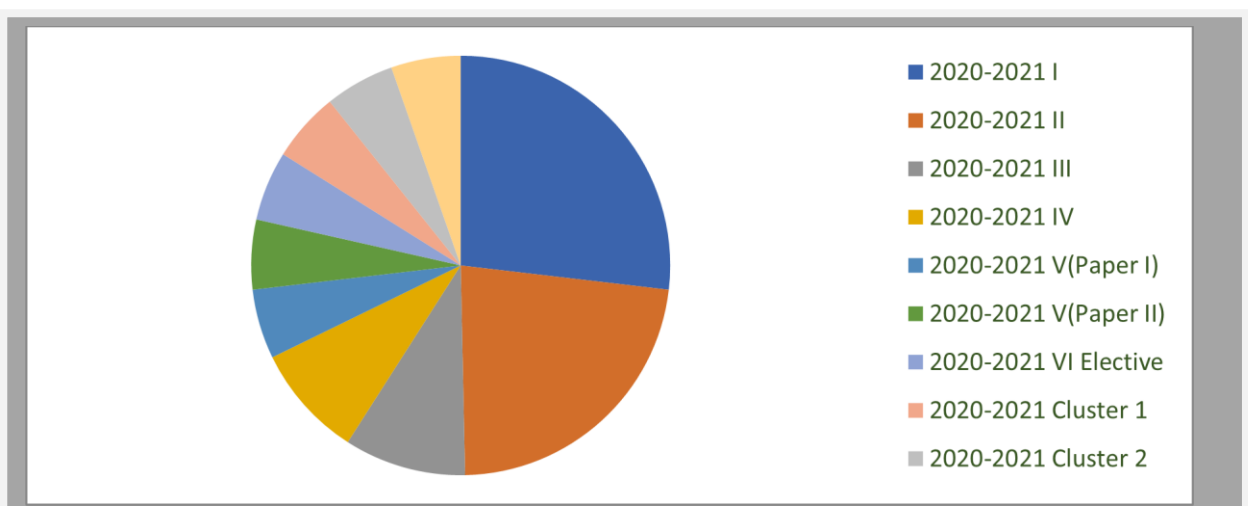
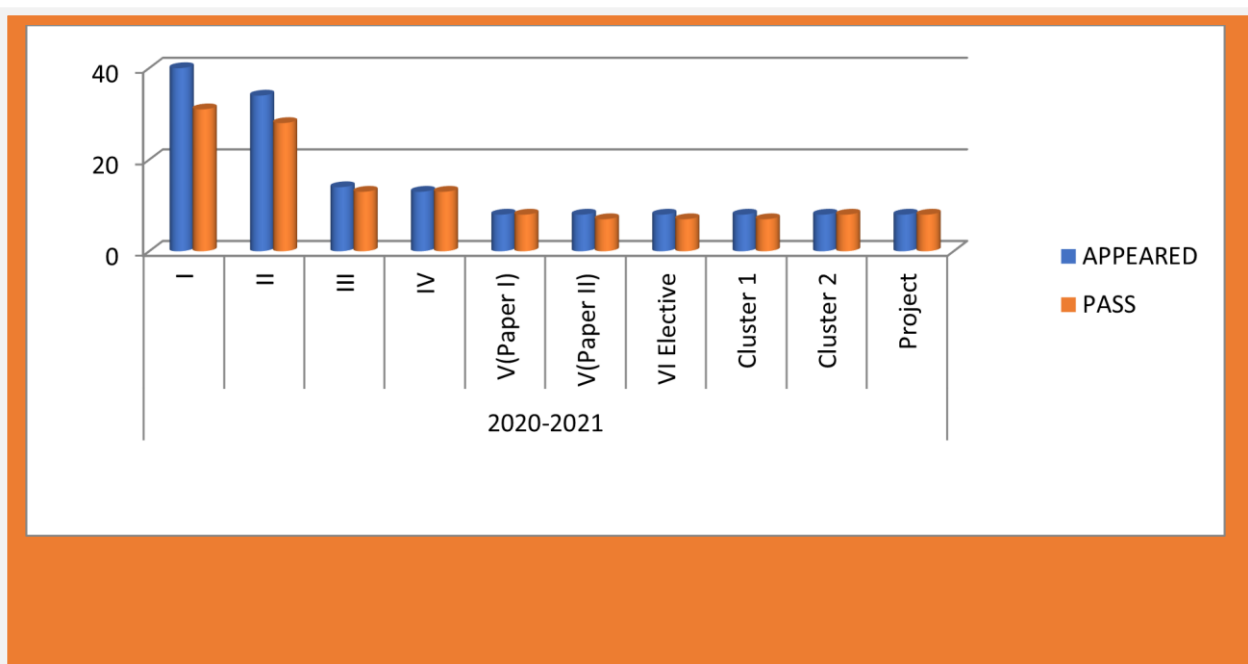
Sl.No	YEAR	SEMESTER	APPEARED	PASS	PASS%
1	2018-2019	I	9	6	67
2		II	9	6	67
3		III	15	10	67
4		IV	15	15	100
5		V(Paper I)	14	14	100
6		V(Paper II)	14	14	100
7		VI Elective	14	14	100
8		Cluster 1	14	14	100
9		Cluster 2	14	14	100
10		Project work	14	14	100



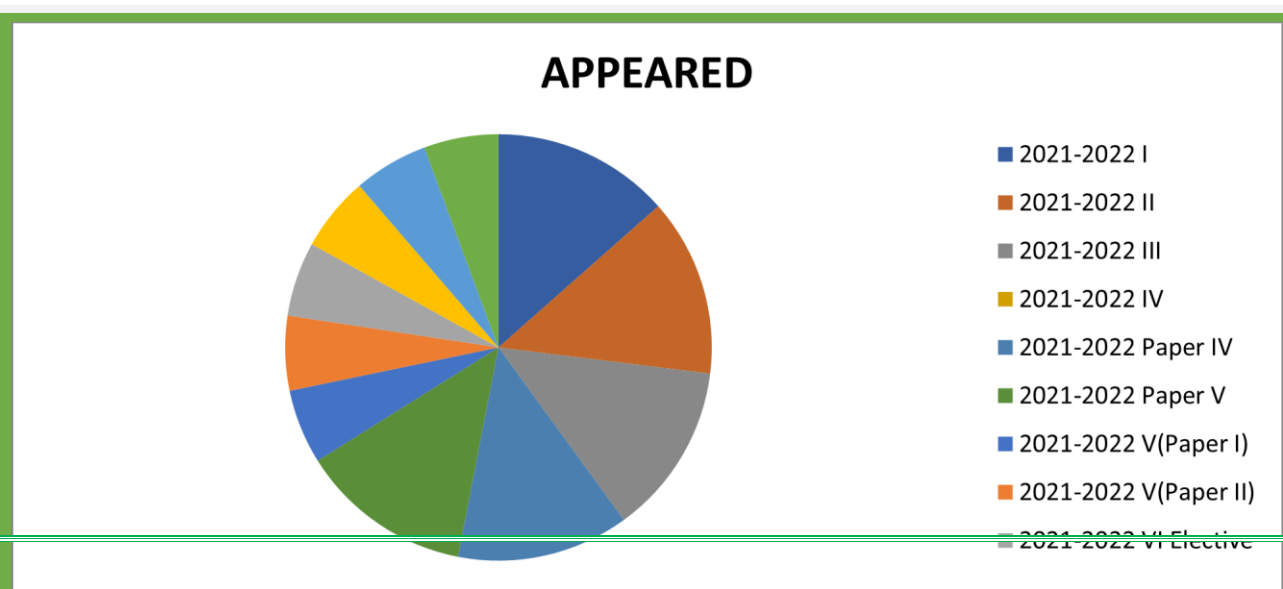
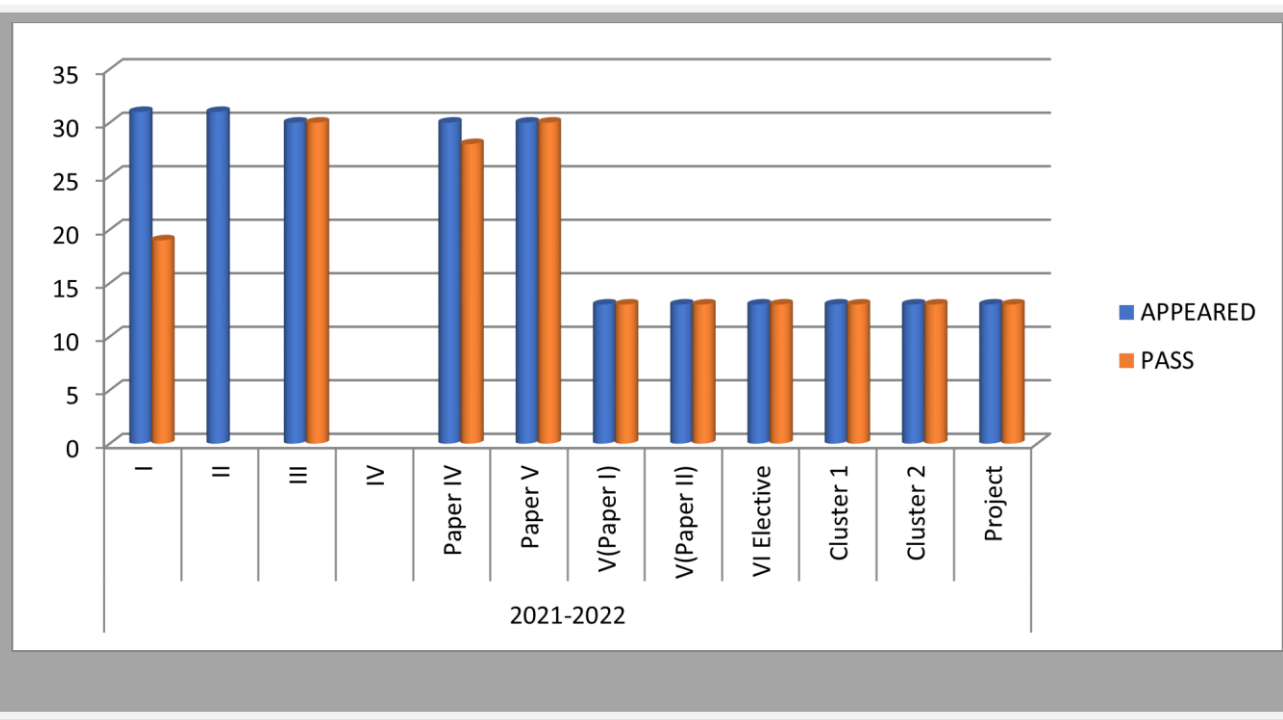
Sl.No	YEAR	SEMESTER	APPEARED	PASS	PASS%
1	2019-2020	I	15	10	67
2		II	14	11	79
3		III	8	8	100
4		IV	8	8	100
5		V(Paper I)	13	10	77
6		V(Paper II)	13	10	77
7		VI Elective	13	12	92
8		Cluster 1	13	13	100
9		Cluster 2	13	13	100
10		Project	13	13	100



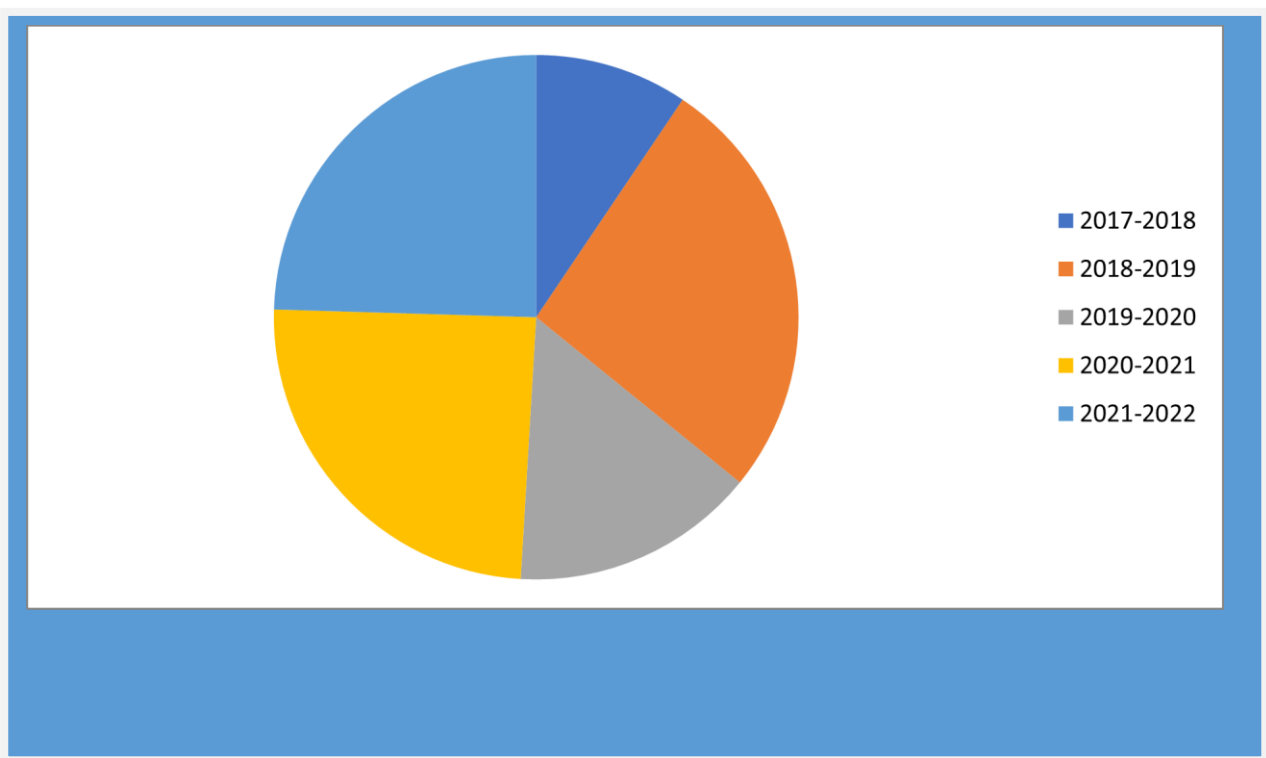
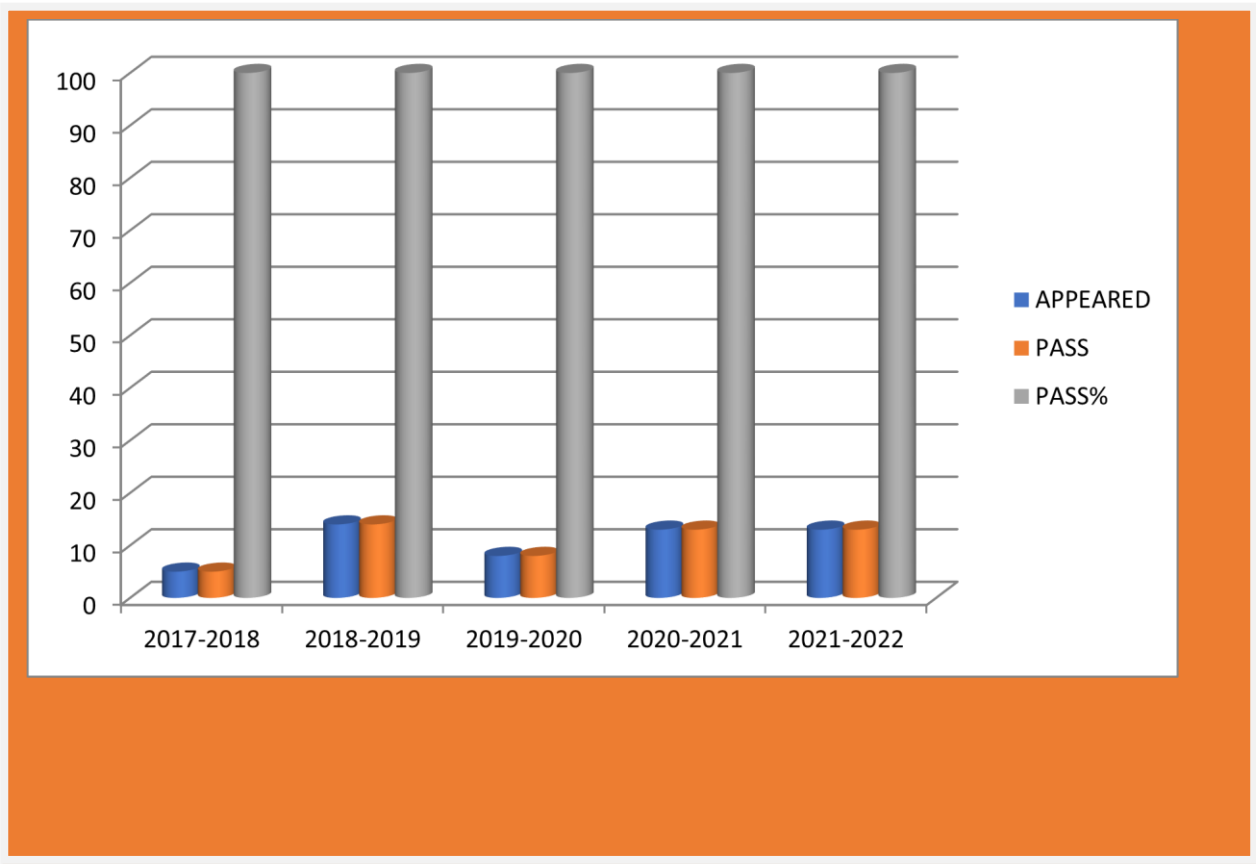
Sl.No	YEAR	SEMESTER	APPEARED	PASS	PASS%
1	2020-2021	I	40	31	78
2		II	34	28	82
3		III	14	13	93
4		IV	13	13	100
5		V(Paper I)	8	8	100
6		V(Paper II)	8	7	88
7		VI Elective	8	7	88
8		Cluster 1	8	7	88
9		Cluster 2	8	8	100
10		Project	8	8	100



Sl.No	YEAR	SEMESTER	APPEARED	PASS	PASS%
1	2021-2022	I	31	19	61
2		II	31		
3		III	30	30	100
4		Paper IV Paper IV	30 30	28 30	93 100
5		V(Paper I)	13	13	100
6		V(Paper II)	13	13	100
7		VI Elective	13	13	100
8		Cluster 1	13	13	100
9		Cluster 2	13	13	100
10		Project	13	13	100



BOTANY PASSED OUT STUDENTS FROM 2017 to 2022



It is observed from the above graph that Semester-I results recorded declining trend up to 2017-18 academic year. This is largely because of intake of students has been increased from 2018-19 onwards. In the 2020-21 academic years these results have been climbed up. Semester-II results are also showing the same trend. It is alarming that semester-III, IV results are showing declining trend. Fifth and sixth semester results are ranging from 91-100%. In the academic year 2022-2023 Total 30 students appeared Botany Exam.30 students passed VI Semester Botany two papers.

ATTAINMENT OF COURSE OUTCOMES

Formula for Calculation course outcome index is

$$COI = \frac{(n_{A^+}(4) + n_A(3.75) + n_{B^+}(3.5) + n_B(3) + n_{C^+}(2.5) + n_C(2) + n_D(1.5))}{N}$$

Where n_x = *Number of students obtained grade x*

N = *Total Number of Students attended the Course Exam*

Course Attainment: We say a course is said to attained if $COI \geq 4$

Program Outcomes (PO) and Program Specific Outcomes (PSOs)	
CO No	Course (Course Code) /Attainment & Correlation
I SEMESTER	
Fundamentals of Microbes and Non-vascular Plants-1003BOT20	
CO1	Explain origin of life on the earth,
CO2	Illustrate diversity among the viruses and prokaryotic organisms and can categorize
CO3	Classify fungi, lichens, algae and bryophytes based on their structure, reproduction and life cycles
CO4	Analyze and ascertain the plant disease symptoms due to viruses, bacteria and fungi.
CO5	Recall and explain the evolutionary trends among amphibians of plant kingdom for their shift to land habitat Evaluate the ecological and economic value of microbes, thallophytes and bryophytes.
II SEMESTER	
Basics of Vascular plants and Phytogeography-2003B0T20	
CO1	Classify and compare Pteridophytes and Gymnosperms based on their morphology, anatomy, reproduction and life cycles.
CO2	Justify evolutionary trends in tracheophytes to adapt for land habitat. Explain the process of fossilization and compare the characteristics of extinct and extant plants.
CO3	Critically understand various taxonomical aids for identification of Angiosperms. Analyze the morphology of the most common Angiosperm plants of their localities and recognize their families.
CO4	Evaluate the ecological, ethnic and economic value of different tracheophytes and summarize their goods and services for human welfare
CO5	Locate different phytogeographical regions of the world and India and can analyze their floristic wealth.
III SEMESTER	
Anatomy and Embryology of Angiosperms, Plant Ecology and Biodiversity-3003BOT20	
CO1	Understand on the organization of tissues and tissue systems in plants. Illustrate and interpret various aspects of embryology
CO2	Discuss the basic concepts of plant ecology, and evaluate the effects of environmental and biotic factors on plant communities.
CO3	Appraise various qualitative and quantitative parameters to study the population and community ecology.
CO4	Correlate the importance of biodiversity and consequences due to its loss.

CO5	Enlist the endemic/endangered flora and fauna from two biodiversity hot spots in India and assess strategies for their conservation.
IV SEMESTER	
Plant Physiology and Metabolism-4003BOT20	
CO1	Comprehend the importance of water in plant life and mechanisms for transport of water and solutes in plants
CO2	Evaluate the role of minerals in plant nutrition and their deficiency symptoms. Interpret the role of enzymes in plant metabolism
CO3	Critically understand the light reactions and carbon assimilation processes responsible for synthesis of food in plants.
CO4	Analyze the biochemical reactions in relation to Nitrogen and lipid metabolisms. Evaluate the physiological factors that regulate growth and development in plants.
CO5	Examine the role of light on flowering and explain physiology of plants under stress conditions
IV SEMESTER ,Cell Biology, Genetics and Plant Breeding-4003BOT-B	
CO1	Distinguish prokaryotic and eukaryotic cells and design the model of a cell. Explain the organization of a eukaryotic chromosome and the structure of genetic material.
CO2	Demonstrate techniques to observe the cell and its components under a microscope.
CO3	Discuss the basics of Mendelian genetics, its variations and interpret inheritance of traits in living beings.
CO4	Elucidate the role of extra-chromosomal genetic material for inheritance of characters. Evaluate the structure, function and regulation of genetic material.
CO5	Understand the application of principles and modern techniques in plant breeding. Explain the procedures of selection and hybridization for improvement of crops.
VI SEMESTER	
Plant Tissue Culture-6003BOT20-C1	
CO1	Comprehend the basic knowledge and applications of plant tissue culture.
CO2	Identify various facilities required to set up a plant tissue culture laboratory.
CO3	Acquire a critical knowledge on sterilization techniques related to plant tissue culture.
CO4	Demonstrate skills of callus culture through hands on experience
CO5	Understand the biotransformation technique for production of secondary metabolites.
VI SEMESTER ,Mushroom Cultivation-6003BOT20-C2	
CO1	Understand the structure and life of a mushroom and discriminate edible and poisonous mushrooms.
CO2	Identify the basic infrastructure to establish a mushroom culture unit.

CO3 Demonstrate skills preparation of compost and spawn.

Academic Year 2020-21

DEPARTMENT OF BOTANY					
Semester & Year : I semester 2020					
Title of the paper:		Fundamentals of Microbes and non vascular plants Dept of Botany		Course Code :1003BOT20	
CO ATTAINMENT LEVEL					
COS	CO Attainment Level (INTERNAL)	CO Attainment Level (EXTERNAL)	DIRECT CO Attainment Level =INTERNAL 25%+External 75%	Indirect CO AL	Total CO ATL Direct COATL=80%+20% Indirect ATL
CO 1	3	3	3	3	3
CO2	3	3	3	3	3
CO3	3	3	3	3	3
CO4	3	3	3	3	3
CO5	3	3	3	3	3

FINAL CO ATTAINMENT 3

VSR GOVERNMENT DEGREE AND PG COLLEGE					
DEPARTMENT OF BOTANY					
Semester & Year : II semester 2020					
Title of the paper:		Basics Of Vascular Plants And Phytogeography		Course Code :2003BOT20	
CO ATTAINMENT LEVEL					
COS	CO Attainment Level (INTERNAL)	CO Attainment Level (EXTERNAL)	DIRECT CO Attainment Level =INTERNAL 25%+External 75%	Indirect CO AL	Total CO ATL Direct COATL=80%+20% Indirect ATL
CO 1	3	3	3	3	3
CO2	3	3	3	3	3
CO3	3	3	3	3	3
CO4	3	3	3	3	3
CO5	3	3	3	3	3

FINAL CO ATTAINMENT 3

VSR GOVERNMENT DEGREE AND PG COLLEGE
DEPARTMENT OF BOTANY

Semester & Year : III semester 2022

Title of the paper: Anatomy and Embryology of Angiosperms, Plant Ecology and Biodiversity

Course Code :3003BOT20

CO ATTAINMENT LEVEL

COS	CO Attainment Level (INTERNAL)	CO Attainment Level (EXTERNAL)	DIRECT CO Attainment Level =INTERNAL 25%+External 75%	Indirect CO AL	Total CO ATL Direct COATL=80%+20%Indirect ATL
CO 1	3	3	3	3	3
CO2	3	3	3	3	3
CO3	3	3	3	3	3
CO4	3	3	3	3	3
CO5	3	3	3	3	3

FINAL CO ATTAINMENT

3

VSR GOVERNMENT DEGREE AND PG COLLEGE
DEPARTMENT OF BOTANY

Semester & Year : IV semester 2022

Title of the paper: Plant Physiology And Metabolism

Course Code :4003BOT20-A

CO ATTAINMENT LEVEL

COS	CO Attainment Level (INTERNAL)	CO Attainment Level (EXTERNAL)	DIRECT CO Attainment Level =INTERNAL 25%+External 75%	Indirect CO AL	Total CO ATL Direct COATL=80%+20%Indirect ATL
CO 1	3	3	3	3	3
CO2	3	3	3	3	3
CO3	3	3	3	3	3
CO4	3	3	3	3	3
CO5	3	3	3	3	3

FINAL CO ATTAINMENT

3

DEPARTMENT OF BOTANY

Semester & Year : IV semester 2022

Title of the paper: Cell Biology, Genetics And Plant Breeding Course Code :4003BOT20-B

CO ATTAINMENT LEVEL

COS	CO Attainment Level (INTERNAL)	CO Attainment Level (EXTERNAL)	DIRECT CO Attainment Level =INTERNAL 25%+External 75%	Indirect CO AL	Total CO ATL Direct COATL=80%+20%Indirect ATL
CO 1	3	3	3	3	3
CO2	3	3	3	3	3
CO3	3	3	3	3	3
CO4	3	3	3	3	3
CO5	3	3	3	3	3

FINAL CO ATTAINMENT 3

VSR GOVERNMENT DEGREE AND PG COLLEGE
DEPARTMENT OF BOTANY

Semester & Year : VI semester 2023

Title of the paper: Plant Tissue Culture Course Code :6003BOT20-C1

CO ATTAINMENT LEVEL

COS	CO Attainment Level (INTERNAL)	CO Attainment Level (EXTERNAL)	DIRECT CO Attainment Level =INTERNAL 25%+External 75%	Indirect CO AL	Total CO ATL Direct COATL=80%+20%Indirect ATL
CO 1	3	3	3	3	3
CO2	3	3	3	3	3
CO3	3	3	3	3	3
CO4	3	3	3	3	3
CO5	3	3	3	3	3

FINAL CO ATTAINMENT 3

VSR GOVERNMENT DEGREE AND PG COLLEGE

DEPARTMENT OF BOTANY

Semester & Year : VI semester 2023

Title of the paper: Mushroom Cultivation

Course Code :6003BOT20-C2

CO ATTAINMENT LEVEL

COS	CO Attainment Level (INTERNAL)	CO Attainment Level (EXTERNAL)	DIRECT CO Attainment Level =INTERNAL 25%+External 75%	Indirect CO AL	Total CO ATL Direct COATL=80%+20%Indirect ATL
CO 1	3	3	3	3	3
CO2	3	3	3	3	3
CO3	3	3	3	3	3
CO4	3	3	3	3	3
CO5	3	3	3	3	3

FINAL CO ATTAINMENT

3

From above table it is observed that Course outcomes are attained in every course.



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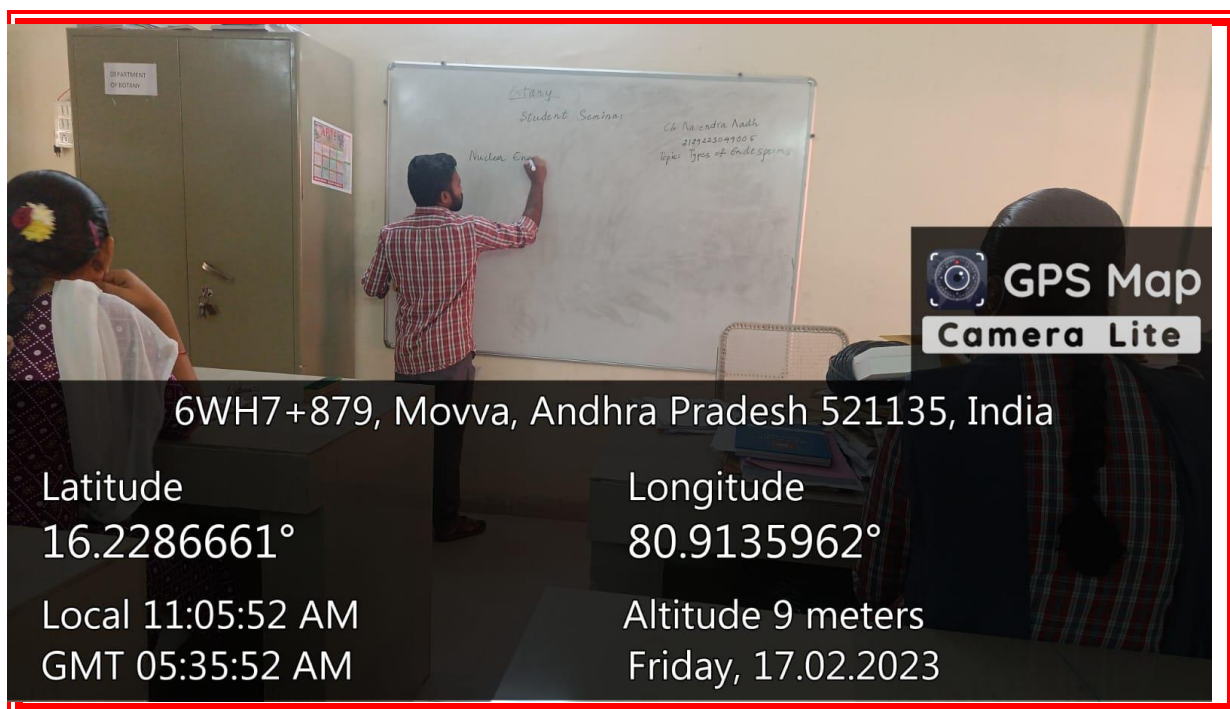
Phone No: 08671 252451

Website: www.gdcmovva.ac.in

STUDENT SEMINARS

LIST OF STUDENT SEMINARS 2017 – 23

https://docs.google.com/document/d/15RLgHoO35qeiDMd1j4rFB1Dk1h_u7BIU/edit?usp=drive_link&oid=105677893143865529705&rt_pof=true&sd=true



LIST OF STUDENT ASSIGNMENTS 2017 – 2023

https://docs.google.com/document/d/1pL59IPRvngHsh_WzURI5ZJrZIDV9HxdB/edit?usp=drive_link&oid=105677893143865529705&rt_pof=true&sd=true



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FIELD VISITS

https://drive.google.com/drive/folders/1BBIWpvuGCwis1r2z6mMPprKmqGW9owVr?usp=drive_link



Kondapalli V.S.R G.D.C Movva Staff & Students On 25/09/2018



5WHM+324, Ghantasala Palem, Andhra Pradesh 521133, India

Latitude
16.17710637°

Longitude
80.93254961°

Local 03:06:29 PM
GMT 09:36:29 AM

Altitude -71.46 meters
Friday, 11-26-2021



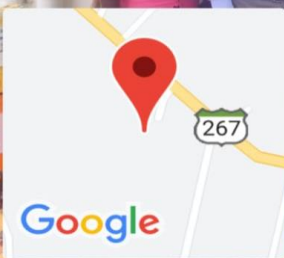
Ghantasala Palem, Andhra Pradesh, India

5WHM+324, Ghantasala Palem, Andhra Pradesh 521133, India

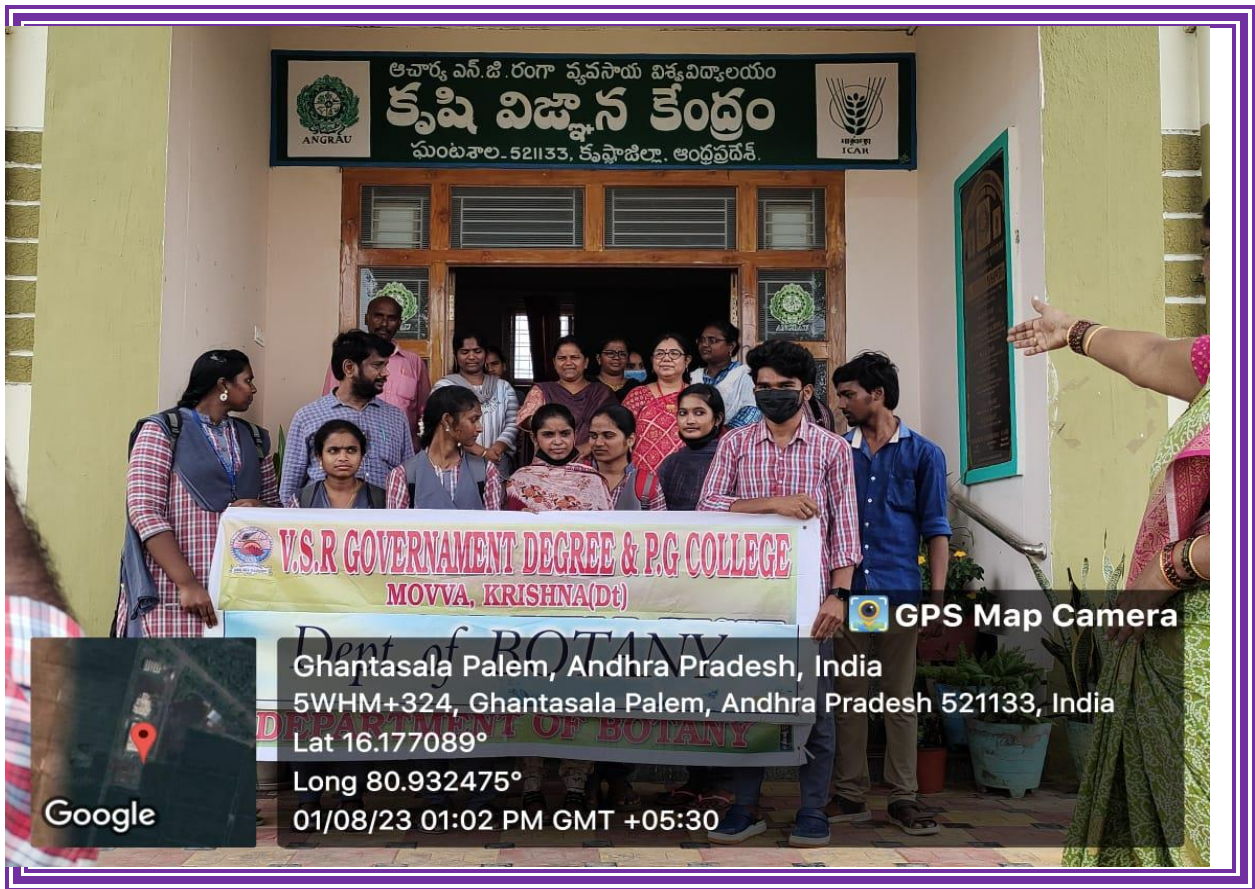
Lat 16.177101°

Long 80.932402°

26/09/22 12:21 PM



GPS Map Camera



SEMINARS & WORKSHOPS:

S. No	Title of the seminar/ Workshop	Date	Resource Person	No. of Students participated
1	Mushroom Cultivation	05/03/2020	Smt.M.Prasanna	80
2	Biodiversity	24/01/2022	Virtual	https://drive.google.com/drive/folders/1EFUxwAJRQx6k_ku4RYtd9jO3HBIcfo-u?usp=drive_link



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STUDENT STUDY PROJECTS:

Faculty members of the department are actively involved in doing student study Projects to inculcate research attitudes and scientific approaches among the students.

https://docs.google.com/document/d/191zYCGzhFm6kbB7myJMkv5bvA8B_5ABB/edit?usp=drive_1ink&oid=105677893143865529705&rtpof=true&sd=true

**CRITERION-III: RESEARCH,
INNOVATION & EXTENSION
ACTIVITIES**

Research Papers/Books/Chapters Published by the faculty

S.No	Name of the Faculty	Title of the paper	Name of the Journal/ Seminar	Year of Publication	ISSN number
1	J.RAMUDU	Root anatomical studies in some species of Coelogyneae (Orchidaceae) with reference to Ecological adaptations	J. Orchid Soc. India 32: 33-39(2018).	2018	J. Orchid Soc. India 32: 33-39(2018).
		Anatomical studies in some Indian Coelogyne(Orchidaceae).	Springer nature Singapore. Page 335-364.	2020	Springer nature Singapore. Page 335-364.
		Orchid seed Ultra structure Ecological and Taxonomic implications with reference to Epidendroideae (Orchidaceae).	Springer nature Singapore. Page 281-302	2020	Springer nature Singapore. Page 281-302
		Structural adaptations of Bulbophyllum and Dendrobium (Orchidaceae) to be epiphytic habitat and the phylogenetic implications	Springer nature Singapore. Page 303-342	2020	Springer nature Singapore. Page 303-342

Extension Activities

COMMUNITY SERVICE PROJECT (After II Semester)

[https://drive.google.com/drive/folders/1TyikTmI7A_KZE2vurTabk-?usp=drive link](https://drive.google.com/drive/folders/1TyikTmI7A_KZE2vurTabk-?usp=drive_link)

2-Month Internship Programme (After IV Semester)

[https://drive.google.com/drive/folders/1mAmitlffKorKMbT6syeXHskvuJi-Iww?usp=drive link](https://drive.google.com/drive/folders/1mAmitlffKorKMbT6syeXHskvuJi-Iww?usp=drive_link)

6-Month Internship Programme (V or VI Semester)

[https://drive.google.com/drive/folders/1IT0J6illqWFOOn2kqzKJIB5a0RGcQA6fy?usp=drive link](https://drive.google.com/drive/folders/1IT0J6illqWFOOn2kqzKJIB5a0RGcQA6fy?usp=drive_link)

Plantation of saplings as part of Haritha Haaram:

Department of botany actively involved in plantation of saplings in Haritha Andhra Pradesh programme, which is the flagship programme of the state government.



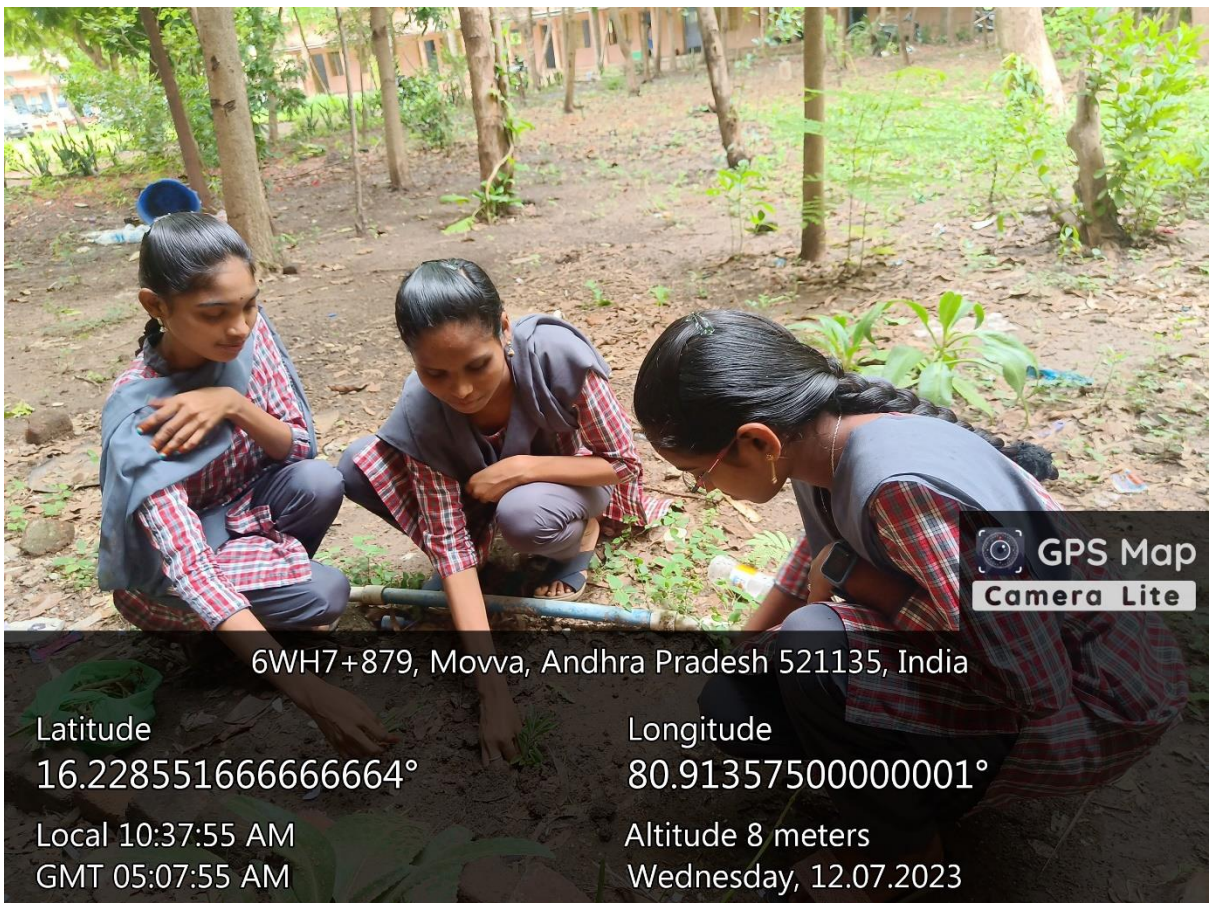
Har Ghar Tiranga on 15/08/2022 Plantation By Dr.S.Madhavi Principal ,M.Anil Kumar



World Environment Day on 05/06/2023



Dr.Pola Bhasker C.C.E A.P & VSR GDC Staff



GPS Map
Camera Lite

6WH7+879, Movva, Andhra Pradesh 521135, India

Latitude
16.228551666666664°

Longitude
80.91357500000001°

Local 10:37:55 AM
GMT 05:07:55 AM

Altitude 8 meters
Wednesday, 12.07.2023

Plantation By Botany Students on 12/07/2023



Plantation By RJDCE Dr.Ch.Krishna & VSR GDC Staff



Clean & Green By Botany students & M.Anil Kumar



Plantation Programme in the part of Meri Maati Mera Desh on 15/08/2023



Plantation By First Year Students & M. Anil Kumar

CRITERION- IV
INFRASTRUCTURE & LEARNING RESOURCES

1. Laboratory & Equipments:

Department of botany has one laboratory. One Laboratory have adequate equipments to conduct practicals for UG students. Lab- I has 30 seating capacity and lab-II has 25 seating capacity. List of equipments, glassware, Bio visual charts & furniture given in the table.

LIST OF EQUIPMENTS

S. No	Name of the Equipment	Number
1	Autoclave	1
2	Bacteriological Incubator (Labtech)	1
3	Bell Jar	4
4	Centrifuge (Remi)	1
5	Compound Microscopes (Binocular)	0
6	Compound Microscopes (Monocular)	5
7	Desktop Commuter	00
8	Desiccators	1
9	Dissection Microscopes	5
10	Hot Air Oven	1
11	LCD projector (Acer)	0
12	Mechanical Balance	0
13	Micropipette (200 micro letters)	02
14	Over Head Projector (OHP)	0
15	Laser jet printer cum Xerox (HP)	1
16	Spectrophotometer - Elico	1
17	Molls half leaf	1
18	Gaming's photometer	1
19	Air circulators	1
20	Aerobic & Anaerobic	1
21	Personal weighing machines	0

GLASSWARE

S.No	Name of the Glassware	No's
1	Beakers (100ml)	01
2	Beakers (250ml)	01
3	Beakers (500ml)	01
4	Pippettes (100ml)	01
5	Burets (50ml)	01
6	Burett Stands	01
7	Test tube stands	10
8	Petriplates	02
9	Petriplates small	03

Furniture:

S.No	Name of the Item	No
1	Work benches	8
2	Black metal round stools	30
3	Almara (Steel & Wooden)	02
4	Herbarium cabinet	0
5	Chart cabinets	0
6	Wooden stools (8Big+15small)	00
7	Lecture tables	01

Departmental Library:

Department of Botany has a library with 29 reference books, 5 Practical manuals, 4 PG entrance books and 5 other books. They are readily available for faculty and students in the department

Criteria -V

STUDENT SUPPORT & PROGRESSION



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STUDENT PROGRESSION

S.No	Name of the Student	Roll No	PG/ B.Ed Rank	Year	Institute Name
1	K.Chandrika 7995817172	1929223029012	M.Sc Botany	2020-2021	Krishna University
2	V.Kondala Rao	2029223044019	M.Sc Botany	2022-2023	ANU Guntur

CRITERION VI

GOVERNANCE LEADERSHIP AND MANAGEMENT



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DEPARTMENTAL MEETINGS

At the Department level, Department faculty members meet every month on a convenient date to discuss academic matters like distribution of the syllabus among the faculty, Review of coverage of syllabus, Result Analysis and Course Outcomes, important days to celebrate, ICT, Records, etc.

STAFF COUNCIL

At the college level, staff council is the apex body of the college in which important decision related to academic or non-academic matters are made and executed. In charge of every Department is a member of this body. Botany department in charges are actively participating in the meetings.

COORDINATOR/MEMBER OF VARIOUS COMMITTEES

Every faculty member is member of at least one committee. He/she does fulfil the work assigned by the coordinator of the committee.

Following table depicts responsibilities taken up by Department faculty members.



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MENTOR MENTEE SYSTEM

In each academic year, Principal allots mentor for each group/section. Mentor will facilitate election of CC (Class Counsellor), Class Representatives (CR-I, CR-II), Executive Council (EC-I, EC-II). Mentor takes responsibility of whole group/section. Mentor will communicate with the students through CRs or CCs. Mentor will guide the students in every academic aspect like Examinations, Fee payment, Feedback on marks obtained, maintaining decorum and advise them on issues on Scholarships.

S.No.	Academic Year	Mentor	Mentees
1	2017-2018	V.NAGA LAKSHMI	I B.Z.C
2	2018-2019	J.RAMUDU	II B.Z.C
3	2019-2020	J.RAMUDU	III B.Z.C
4	2020-2021	J.RAMUDU	I B.Z.C
5	2021-2022	R.VENKATESH	II B.Z.C
6	2022-2023	M.ANIL KUMAR	II B.Z.C
7	2023-2024	M.ANIL KUMAR	III B.Z.C



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FACULTY PARTICIPATED IN RC, OC, SEMINARS AND WORKSHOPS

2018 - 2023

Faculty of the department are regularly attending the seminars, workshops, refresher courses, orientation courses for professional development.

S.No	Name of the Faculty	No. of RC/O C	No. of Seminars /workshops /Webinar	No. of other activities (FIP, Extension Lecture etc)
i	J. RAMUDU	01	10	05
2	M.ANIL KUMAR	4	15	05

CRITERION VII

INSTITUTIONAL VALUES AND BEST PRACTICES



V.S.R. GOVERNMENT DEGREE & P.G. COLLEGE

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Website: www.gdcmovva.ac.in

INNOVATIVE PRACTICES

1. QR CODES TO PLANTS:

While the world seems to be going digital, people lack the time to read books and process the information they contain. So, we (department of botany) have decided to exploit the rapidly growing platform for unique purpose. Students in the college campus were seen using their smart phones, not to play games, take selfies, but to scan QR codes hung on the trees for its information.

These QR codes give students all the information they need to know about the tree or plant from its scientific name to its importance or value. They only need to put their smart phones to use.

2. SEED BALL MAKING AND PLANTATION: As part of this activity students were being trained in the construction of seed balls and seed bombing. Sri M.Anil Kumar botany train the students in construction of seed balls and seed bombing on either side of the roads while they come to the college by road.

A seed ball (or seed bomb) is a seed that is wrapped in a mixture of clay and cattle dung or compost. The cattle dung or compost helps protect the seed from predators such as birds, rodents and insects and extremes of temperature till the rains arrive. Once soaked, the seed ball will help retain and prolong a moist environment around the seed to promote germination. Essentially, the seed is 'pre-planted' and can be sown by depositing the seed ball anywhere suitable for the species, keeping the seed safely until the proper germination opportunity arises. Seed balls are an easy way to grow trees with a longer germination time span. They are inexpensive and can be easily dispersed over large areas which are often hard to reach. Direct seeding reduces shock of transplanting saplings and helps the young trees grow stronger roots and hence stronger trees.



V.S.R. GOVERNMENT DEGREE & P.G. COLLEGE

MOVVA-521135, KRISHNA DISTRICT, ANDRHA PRADESH

NAAC Accredited with "A" Grade (3.01 CGPA)

ISO 9001:2015, 14001:2015, 50001:2011 Certified Institution

(Affiliated to Krishna University)



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BEST PRACTICES

1. Medicinal Garden

Department of botany is maintaining a medicinal garden in 1000 square foot area in the college campus. Students are actively involved in the plantation of medicinal plant saplings, weed removal and watering the medicinal plants. So far, we have planted 20 species of medicinal plants. We also tagged these medicinal plants with QR codes. These QR codes give full information about the medicinal plants like scientific name, common name, habitat, useful part and the medicinal values.

2. ICT TOOLS USED IN TEACHING LEARNING & EVALUATION

For effective transformation of curriculum, the faculty members of the department use Information and communication technology tools in teaching.

ICT TOOLS used in teaching

➤ Power point presentations

➤ Individual YouTube channels

➤ Google class rooms

➤ Department Google Site

➤ Zoom classes

➤ Google forms

➤ Virtual labs

POWER POINT PRESENTATIONS (PPT's):

https://drive.google.com/open?id=1Vgt0bGc1e_lq763_En68qdW1vGQWUsFa&usp=drive_copy

https://drive.google.com/open?id=1Vp392PbqWqa3CQ-3FyaDWR8IPBBF9w5s&usp=drive_copy

https://drive.google.com/open?id=1VsDBIfIJ7kw8B7cPY0F_gCXosDhUFVTQ&usp=drive_copy

https://drive.google.com/open?id=1W1MvjKm9XnaMs-BoPz6ZjR1fPRx8aaLX&usp=drive_copy

https://drive.google.com/open?id=1W96PgyK858cnKC1GZqUmjO7wViWkNIDy&usp=drive_copy

https://drive.google.com/open?id=1WZZEKNheoqfMZzYkmVbIybb6YOqXsOg8&usp=drive_copy

https://drive.google.com/open?id=1W8QnmC_I9vxpal0eG51f9poymWcT8shu&usp=drive_copy

https://drive.google.com/open?id=10S6DUINRXPh4Js_kGYKimAtV7X7yc2pV&usp=drive_copy

https://drive.google.com/open?id=1W1hL8gfscLgo5SGN9H_FBdOKmMhVdvqd&usp=drive_copy

ZOOM CLASSES

Zoom platform is a platform which enables us to take online classes for the students. Faculty members in the department are extensively using this to reach out their students online. For the academic year 2019-20 & 2020-21, Department faculty members taught through online classes.

GOOGLE FORMS:

The faculty members of the department are regularly uses google forms to conduct quizzes and online survey purpose.

VIRTUAL LABS:

Virtual labs are used to demonstrate the experiments of botany.

SIGNIFICANT ACHIEVEMENTS

- Developed collaboration with KVK, Gantasala , Krishna district.
- Botany overall result 100% (Appeared 30 Pass30) including all papers.
- Achieved good ranks in PG and B. Ed entrance examinations.

ACTION PLAN

- Planning to develop roof garden, as there is no place in the college campus.
- Organization of seminars, workshops on global warming, pollution, biodiversity and other aspects of botanical interest.
- To develop collaboration with other institutes.
- Field trips to K.V.K Gantasala .If our college get good grade in NAAC and autonomous status, we are planning to introduce vocational papers related to agriculture as elective papers in the curriculum

YOUTUBE CHANNELS MAINTAINED BY THE FACULTY

S. No	Name of the Faculty	No of YouTube video's	Name of the channel
1	J.Ramudu	https://youtu.be/VKJqntfJjOs?list=PLGZ6Kpp6Ka83U50_o9zNCMWyADzgumK4_	02
2	J.Ramudu	https://www.youtube.com/@ramuorchidman	04
3	M.Anil Kumar	https://studio.youtube.com/channel/UCWypJo29Tq-QNkuCHTLHmDw/videos/upload?filter=%5B%5D&sort=%7B%22columnType%22%3A%22date%22%2C%22sortOrder%22%3A%22DESCENDING%22%7D	24