

Department of Botany

Annual Report - March, 2017

College was reopened on 9th June 2016 for the academic year 2016-17. A general body meeting was conducted by Principal Dr.Sr.P.Mercy for the faculty members and assigned the duties such as time table setting, work load allotment and planning of department activities for the academic year 2016-17. One day orientation programme was organized to staff on the topic “International Trends in Higher Education” by Dr.Annie Mary Fernandez, Chennai and on “Carrier Enhancement for studies” by Mr.D.Paul Sundar, Chennai. Classes were started on 13th June 2016 for II & III year degree students and on 20th June 2017 for I Year degree students.

Number of BZC students on the rolls for the academic year 2016-17

S.No	Class	No. of students admitted	No. of students left	No. of students newly admitted	Present strength
1	I BZC	70	3	-	67
2	II BZC	65	1	-	64
3	III BZC	56	2	-	54

Work load of Botany was distributed equally among 3 members of the department. Syllabus was planned & classes were taken accordingly. Faculty members succeeded in taking classes regularly and completed the syllabus in time.

Results: October 2016 results

S.No	Class	Paper	Semester	No.of students appeared	No.of students passed	No.of students failed	Pass percentage
1	I BZC	I	I	67	64	3	95.52%
2	II BZC	II	III	64	56	8	87.5%
3	III BZC	III	V	51	49	2	96.07%

4	III BZC	IV	V	51	51	Nil	100%
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Results: April 2017 results

S.No	Class	Paper	Semester	No.of students appeared	No.of students passed	No.of students failed	Pass percentage
1	I BZC	I	II	65	65	Nil	100%
2	II BZC	II	IV	63	61	2	96.8%
3	III BZC	III	VI	49	47	2	95.9%
4	III BZC	IV	VI	49	48	1	97.9%

To improve the subject skills of average and above average students, the teaching and learning methods implemented were, Power point presentations, Seminars, Discussions, Quiz Programmes. For the slow learners Field study, Group study, Question & Answer sessions methods were implemented during remedial coaching.

Botany Activities 2016-17

College activity:

1. **20th & 21st June 2016: Orientation programme to I year students –**

20.06.2016: Interaction between management, staff, freshers and their parents.

21.06.2016: Introducing college culture, examination system, various committies, curricular, co-curricular and extra curricular activities to the freshers. Talent hunt, competitions and prize distribution.

Guest Lectures Organized:

1. **20th August 2016: Guest Lecture organized** – Dr. Vani, visiting scientist at University of Illinois, Rush University, Chicago, delivered a guest lecture to all BZC student on topic “Potential Antioxidants and Free Radical Properties of Crude Extracts and Active Ingredients in Medicinal Plants”.
2. **31st August & 2nd September 2016: Guest Lecture organized** – Mrs D.Lumbini Devi Gave a Lecture on Tissue culture to III BZC students.
3. **15th and 22nd September 2016: Guest lecture organized** - Mrs Y.Neeraja Gave a Lecture on origin of life-Theories, archaebacteria, mycoplasma and whittkar classification to 1st BZC students.
4. **21st & 23rd September 2016: Guest lecture organized** – Sr.P.Sunila rani gave a lecture & demonstration on gram staining techniques to 1st BZC students.
5. **2nd November 2016: Guest lecture organized** – Dr. B.Prasanna, MD, (Ayur), Asst.Prof.AYUSH, Dr.N.R.S.Ayurvedic Medical College, Vijayawada, delivered a lecture on “Role of common medicinal plants in primary health care” to III BZC students.
6. **2nd November 2016: Guest lecture organized** – Dr. Y. Ratna Priyadarshini, MD, (Ayur), Asst.Prof.AYUSH, Dr.N.R.S.Ayurvedic Medical College, Vijayawada, delivered a lecture on “Outlines of Ayurveda o Holistic Approach” to II BZC students.

Guest lectures Delivered:

1. **22nd November 2016: Guest lecture delivered** - Dr.N.Nagavardhanam delivered a lecture on “Plant products – Herbal therapy” to women cell students.
2. **26th November 2016: Guest lecture delivered** - Dr.N.Nagavardhanam delivered a lecture on “Plant products – Herbal therapy” to I, II & III B.Sc, Home science students.

Field Trips:

1. **10th & 11th July 2016: Botanical tour** – A Botanical tour was organized to Addatheegala, East Godavari district. 42 III B.Z.C students were attended and benefited. The students prepared Ayurvedic medicines under the guidance of medical practitioner Mr. Bullayya. They collected and acquired knowledge on many medicinal plants and their uses in medicine preparation.
2. **27th to 29th August 2016: Botanical tour** – Botanical tour was organized to Maaredumilli, Rampachodavaram and Addatheegala to II BZC students for collection of Herbarium. 47 students and participated in this tour and collected various varieties of plants under the guidance of Malludora, Babu, Sathyavathi. Students prepared Herbarium under the guidance of Bullayya who is expert in Herbarium preparation.
3. **7th January 2017: Field trip** – Botany department organized a field trip to II BZC students to YSR Horticulture University, Venkataramannagudem, Tadepalligudem.
4. **23rd to 26th February 2017: Botanical Tour** - Botany department organized a Botanical Tour to Ooty from 23rd to 26th February 2017 for I BZC students.

Seminars Organized:

1. **4th & 5th January 2017: National seminar organized** – Botany dept organized a UGC National seminar on “Innovative Research in Food and commercial crops for their sustainability and challenges”.

Paper presentation – Dr.N.Nagavardhanam presented two papers on “Azolla fern: A promising Bio-fertilizer for sustainable Rice production” and “Biopesticides: An Eco-friendly approach for insect pest management”.

Seminars attended, papers presented and published:

1. **22nd & 23rd July 2016: National seminar Attended** - Dr. N. Nagavardhanam attended National seminar on “Women Empowerment: Across the Continents”, organized by Environmental Advisory for Sustainable Trust (EAST).

Paper presentation - Dr. N. Nagavardhanam Presented a paper on “Girl Child – Human Rights”.

2. **29th & 30th July 2016: National seminar** - Dr. N. Nagavardhanam attended National seminar on “Innovation Entrepreneurship and Sustainable Value Chain in a Challenging Environment” organized by PRIMAX Foundation, Bengaluru, Karnataka, India. **Paper presentation** - Dr. N. Nagavardhanam presented a paper on “Potentialities of rural Marketing in Consumer Durables – with particular reference to Bhimadolu Village in Andhra Pradesh”.

3. **10th to 12th August 2016: International Seminar** - Dr. N. Nagavardhanam attended National seminar on “Human Trafficking in Asian Countries: Dynamics and Dimensions” organized by the department of Political Science, Government College (UG&PG- Autonomous), Ananthapuramu, in association with Rural Development Trust.

4. **18th to 19th August 2016: National Seminar** - Dr. N. Nagavardhanam attended National seminar on “Moving towards Choice Based Credit System (CBCS) in Higher Education – A Road Map” organized by Ch.s.d.st.Theresa’s Autonomous college for women, Eluru.

5. **2nd & 3rd September 2016: National seminar** - Dr. N. Nagavardhanam attended National seminar on “Emerging Trends in Environment and Sustainable Development” organized by Depts. of Botany, Biotechnology and Microbiology, in collaboration with Andhra Loyola Institute of Engineering & Technology Andhra Loyola college, Vijayawada, Krishna Dt, A.P.

Paper presentation - Dr. N. Nagavardhanam Presented a paper on “Biofertilizers; An Eco-Friendly approach for Sustainable Agriculture”

6. **22nd & 23rd September 2016: National seminar** - Dr.N.Nagavardhanam attended National seminar on “Environmental protection and Sustainable Development issues and challenges (EPSPIC) organized by dept of chemistry, Botany, Sir CR Reddy College (A), Eluru.
7. **22nd & 23rd December 2016: International Conference attended** - Dr.N.Nagavardhanam attended International seminar on “New Approaches in Agricultural, Food & Environmental Sciences” (Pulses for sustainable development & food security) organized by Botany, Biotechnology & Microbiology, Andhra Loyola College (Autonomous), Vijayawada, Krishna Dist, A.P, India, in association with UGC, APCCB, APCOST, AP Forest & ALIET.
Paper presentation – Dr.N.Nagavardhanam presented a paper on “Organic fertilizer for Eco-friendly & sustainable Agriculture”.
8. **3rd & 4th February 2017: International conference** –Dr.N.Nagavardhanam attended two days International conference on “Sustainable Tourism: Trends, Challenges and Oppurtunities” organized by EAST (Environmental Advisory for Sustainable Trust) Tirunelaveli in collaboration with Department of management studies, CH.S.D.St.Theresa’s college for women, Eluru.
Paper presentation - Dr.N.Nagavardhanam presented a paper on “Botanical Gardens in Tourism”.
9. **27th & 28th January 2017: National seminar** – Dr. N.Nagavardhanam attended national seminar on “Emerging trends in life sciences” organized by Department of Botany JMJ college for Women Autonomous Tenali.
Paper presentation – Dr.N.Nagavardhanam presented a paper on “Importance of medicinal plants and their conservation”.

Workshops and Training programmes attended:

1. **18th to 24th August 2016: National Workshop** - Dr. N. Nagavardhanam attended on Week National Work shop in “Quality Improvement in Higher Education” under Faculty Enrichment Programme (Multi-Disciplinary) organized by Sir.C.R.Reddy Autonomous college, Eluru, in collaboration with Adikavi Nannaya University.

2. **14th November 2016: Work shop attended** – Dr.N.Nagavardhanam and Ms.B.Asha latha attended workshop on “BHUVAN Portal” at Ch.S.D.St.Theresa’s (A) College for women, Eluru.
3. **9th January 2017: International workshop** - Dr.N.Nagavardhanam & Mrs.G.Rani attended International one day work on “International studies – A path way to carrier abroad” organized by English department.
4. **19th January 2017: National workshop** – Dr. N.Nagavardhanam attended oneday National workshop on “Dissemination of Geospatial Technology for Development Andhra Pradesh” organized by Krishna University, Machilipatnam in Association with APSAC, Vijayawada.

Project work:

1. **26th August 2016: Project Rough Draft Submission** – 16 III BZC students submitted rough draft of projects on Ayurvedic medicine preparation such as Triphala choornam, Ruthusthulanthaka vatte, Hinghvashtakachooram, ethnobotanical studies on few medicinal plants near Addatheegala, E.G.Dt., A.P Under the Guidance of Dr.N.Nagavardhanam and Mrs.G.Rani. Mr. Gopinath, lecturer in Mathematics reviewed the projects and appreciated the work.
2. **2nd November 2016: Project Viva – External viva panel members:** Dr.K.Prasada Rao, Regional Director, AYUSH. Dr.Y.Ratna Priya Darshini, MD (Ayur), Asst.Prof.AYUSH, Dr.B.Prasanna,MD, (Ayur), Asst.Prof.AYUSH, Dr.N.R.S.Ayurvedic Medical College, Vijayawada.

Topics:

- A study on preparation of Ayurvedic medicine Triphala choornam at Laya foundation vanantharam Addatheegala, East Godavari District, A.P.
- A study on preparation of Ayurvedic medicine Ruthusthulanthaka vatte at Laya foundation vanantharam Addatheegala, East Godavari District, A.P.
- A study on preparation of Ayurvedic medicine Hinghvashtaka choornam at Laya foundation vanantharam Addatheegala, East Godavari District, A.P.

- A study on Cultivation of Tomato and Capsicum plants in shade net at Ch.S.D.St.Theresa's (A) college for women, Eluru.
- A study on Collection and preservation of plants near D.Bhimavaram forest area.
- A study on Collection and preservation of plants near Pinjerukonda forest area.
- A study on collection and preservation of plants in a Tribal area Maddigadda near Addateegala forest.

BOS attended:

1. **4th April 2016: BOS meeting** – Dr. N. Nagavardhanam attended BOS meeting as University Nominee at Government Autonomous Degree College, Rajamahendravaram.
2. **2nd July 2016: BOS meeting** - Dr. N. Nagavardhanam attended BOS meeting as subject expert at Y. N. College, Narsapur.
3. **14th July 2016: BOS meeting** – Dr. N. Nagavardhanam attended BOS meeting as subject expert at Sir.C.R.R. Autonomous Degree College, Eluru.

BOS meeting Organized:

1. **6th March 2017:** The Boards of Studies meeting in Botany was held on 06.03.2017 at 02.00 p.m. in the Department of Botany. Dr.S.Sai Durga Prasad, Head of Botany Department, KGRL college, Bhimavaram as University nominee, Mr.G.Shiva Kumar, Manager, Modelez India foods, Private Ltd, Eluru as Industrialist. Dr. N.Nagavardhanam, HOD of Botany was Botany Chair person, Mrs.G.Rani & Ms.B.Asha Latha, Lecturers in Botany were internal subject experts and Ms.M.Divya sree, III B.Sc. BZC, Ms. Y.Sowjanya, II B.Z.C were Student Representatives.

Student Seminars:

1. I B.Sc BZC students gave a seminar on Importance of plants on Archaeobacteria, Mycoplasma, Albugo structure & Reproduction, Economic Importance of Bacteria, Marchantia thallus, Marchantia sporophyte, Anthoceros sporophyte, Botanical name,

- Family, Economic importance of Teak wood, Neem wood, Rose wood, Red sanders wood from last week of January.
2. II B.Sc BZC students gave seminar on Importance of plants in health, Kitchen gardening, importance of ornamental plants, organic farming from last week of January.
 3. III B.Sc BZC students gave a seminar on hydroponics and presented a model for the IV paper from 23rd to 27th January 2017.
 4. III B.Sc BZC students gave a seminar on Mitosis, Mutations, Linkage, Plant cell, DNA Replication, Vavilov centers of crop plants from 6th to 9th February 2017.

Internship:

1. **10th to 17th 2017: Internship** - Botany department organized Internship programme to II BZC students on “Organic farming Techniques and Nursery Management” at Dr.Y.S.R.Horticulture University, Venkataramannagudem. 30 students were attended and benefited.

Achievements:

1. **24th September 2016: State NSS Award** - Dr.N.Nagavardhanam received “State Best NSS Programme Officer Award” by Govt of Andhra Pradesh organized at Dr. B. R. Ambedkar University, Srikakulam.

Extracurricular Activities:

1. **15th June 2016: Graduation day** - Dr. N. Nagavardhanam is in-charge of BZC students. Mrs.G.Rani in-charge of dress codes for BZC students.
2. **29th July 2016: Vanam Manam plantation Programme** – Staff and students of Botany dept planted about 50 medicinal plants in Botany Medicinal Garden near P.G. Block.
3. **3rd to 9th August 2016: Swatch Bharath** – 68 students of II BZC class prepared 18 plots for growing organic vegetables. Seeds of Amaranthus, Spinach, Basella, Bitter gourd, Bottle gourd, Snake gourd, Ridge gourd and Lady’s fingers were sown.

Saplings of Chillies and Brinjal were planted near Arts block. III BZC students planted the saplings of Capsicum and Tomato in shade net near science block.

4. **18th August 2016: Group singing Competitions** – Botany dept organized Patriotic group song competitions for whole college in connection to Azadi 70 and Yaad karo kurbani.
5. **22nd to 23rd August 2016: Sports & Games competitions**– Mrs. G.Rani acted as in-charge member to Ball badminton competitions for students.
6. **17th & 18th October 2016: External practical Examiner** - Dr.N.Nagavardhanam acted as external practical examiner for I BZC students of PB Siddhartha College, Vijayawada.
7. **23rd November 2016: V.C meet** – Adikavi nannaya university V. C invited Dr.N.Nagavardhanam to appreciate her for receiving “State Best NSS Programme Officer Award”.
8. **1st & 2nd December 2016: District science fair Inspire Judge** - Dr.N.Nagavardhanam acted as a inspire judge to District science fair.
9. **8th December 2016: Autonomy review committee visit** - Autonomy review committee members visited Botany department and lab, appreciated their work.
10. **19th December 2016: Crib Preparation** - Botany department members along with the students prepared a crib for semi-christmas celebrations.
11. **8th to 15th February 2017: National Youth Festival** -Dr.N.Nagavardhanam accompanied the students to 32nd All India Inter University National Youth Festival Kolhapur, Maharashtra organized by Shivaji University Kolhapur, Maharashtra sponsored by Ministry of youth affairs & sports, Govt.of India.

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