

# DEPARTMENT OF BOTANY

1. **Name of the Department & Its year of establishment** : BOTANY  
: 1978 -1979

2. **Names of Programme /Courses offered (UG, PG, Ph.D., Integrated Masters; Integrated Ph.D., etc.)**

Sl. No.	Name of Programme	Subject	Year of affiliation	No. of sections	Sanctioned strength	Total Student strength (2014-15)	Remarks
1.	B.Sc., ALLIED	BOTANY	1978 -1979	1	48	48	I Year
2.	B.Sc., (SF)	Plant Biology And Biotechnology	2008 -2009	1	40+40+40	120	I, II & III year

3. **Inter-disciplinary courses and departments involved**

✚ In UG level, in **Part IV** inter-disciplinary Courses like **Skill Based Elective** are offered in all the six semesters -**Major Elective** in the second year and final year as mandatory to all the students.

Interdisciplinary courses		Departments involved
UG Level	Skill Based Elective	Zoology and Chemistry
	Non - Major Elective	

**4. Annual/Semester/Choice Based Credit System:**

✓ **Semester pattern with Choice Based Credit System**

**5. Participation of the department in the courses offered by other departments:**

✚ Our department extending the research oriented Skills to  
Chemistry and Zoology Students and Research Scholars

**6. Number of teaching posts sanctioned and filled (Professors / Associate Professors / Asst. Professors)**

Post	Sanctioned	Filled	Vacant
Associate Professor	-	-	-
Assistant Professor	1	1	-
Guest Faculty	4	2	2

**7. Faculty profile with name, qualification, designation, specialization (D.Sc. / D.Litt. / Ph.D. / M.Phil., etc.)**

Sl. No.	Name & Qualification	Designation	Specialization	No. of Year's Experience	No. of Ph.D. students guided in the last 5years
01	Dr. B. SANKAR, M.Sc., M.Phil., Ph.D.	Assistant Professor	Plant Physiology	07	----
02	Mr. R. ELANGO VAN, M.Sc., B.Ed., M.Phil., M.A(T), M.A(E),	Assistant Professor	Taxonomy	14	----
03	Dr. A. INDRAJITH, M.Sc., M.Phil., Ph.D.	Assistant Professor	Environmental Stress Physiology	04	----

**8. Percentage of classes taken by temporary faculty-Programme-wise information**

Sl.No.	Programmes	Session
1.	UG	6

**9. Programme - wise Student Teacher Ratio**

Sl.No.	Name of the Programme	Student teacher ratio
1.	UG	15:1

**10. Number of academic support staff (technical) and administrative staff sanctioned and filled:**

Sl.No.	Staff	Sanctioned	Filled
1.	Lab Assistant	1	---
2.	Museum Keeper	---	---
3.	Sweeper	---	---

**11. Number of faculty with ongoing projects from a) national b) international funding agencies and c) Total grants received. Mention names of funding agencies and grants received project-wise.**

**Completed Projects:-**

Sl. No.	Name of the Faculty	Project title	Name of the Project	Grant Agency	Amount Sanctioned (Rs.)
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**On-Going Projects:**

Sl. No	Name of the Faculty	Project title	Name of the Project	Grant Agency	Amount Sanctioned (Rs.)
.	----	----			---

**Accepted Projects:**

Sl. No.	Name of the Faculty	Project title	Name of the Project	Grant Agency	Amount Sanctioned (Rs.)
-	--	-----	-	-	-

**12. Departmental projects funded by DST-FIST; DBT, ICSSR, etc.; total grants received:**

01	----	----				----
02	-----	----				-----

**13. Research facility / Centre with**

✚ State recognition

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✚ National and International recognition

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**14. Publications:**

✓ Number of papers published in peer reviewed journals (national/ international)

S. No.	Name of the staff	No. of papers publishd in reputed journals	No. of books Published	No. of papers presented in Seminars	Citation Index	h-index	i10-index	Invited Lectures
1	Dr. B. SANKAR, M.Sc., M.Phil., Ph.D.	36	----	----	3036	26	28	1
2.	Mr. R. ELANGO VAN, M.Sc., B.Ed., M.Phil., M.A(T)., M.A(E).,	1	---	--	--	--	--	--
3.	Dr. A. INDRAJITH, M.Sc., M.Phil., Ph.D.	8	--	---	---	---	---	---

**\* Author for correspondence for all the Research papers and Papers presented in Seminars**

- ✓ Number listed in International Database (For e.g. Web of Science, Scopus, Humanities International Complete, Dare Database - International Social Sciences Directory, EBSCO host, etc.):
- ✓ All the research papers are published during this assessment period were found in

- ❖ Google Scholar
- ❖ Research Gate
- ❖ Scopus
- ❖ Get cited
- ❖ Web of Science

For instance, all the faculty names of our department are in almost all the scientific journals data base.

- ✓ **Citation Index – range/ average:**
  - \* The articles which are published from the department having Citation indices from **1 to 1000**
- ✓ **SNIP and SJR:**
  - \* The research articles were published from the department in various reputed journals are covered by Scopus and other data base along with their SNIP (Source normalized Impact per journal) and SJR (SCImago Journal Rank).
- ✓ **Impact factor–range /average:**
  - \* All the papers with impact factor ranging from **0.5 to 3.5**
- ✓ **h-index:**
  - \* All the Research Supervisors and Scholar with publications do have individual **h-index** ranging between **1 and 15**.
- ✓ **i10-index:**
  - \* All the Research Supervisors and Scholar with publications do have individual **i10-index** ranging between **1 and 20**.

**15. Details of patents and income generated:**

**16. Areas of consultancy and income generated:**

**17. Faculty recharging strategies**

**Orientation / Refresher and Training Programmes**

Sl.No.	Name of the faculty	Number of Attended Orientation / Refresher Courses
1.	Dr. B. SANKAR, M.Sc., M.Phil., Ph.D.	04

**Papers presented in Seminars**

Sl.No.	Year	No. of Papers Presented		
		State	National	International
1.	Dr. B. SANKAR,	-	-	-
2.	Mr. R. ELANGO VAN,	-	-	-
3.	Dr. A. INDRAJITH,	-	-	-

**18. Students projects**

- ✓ Percentage of students who have done in-house projects including inter-departmental

**Name of the Student with placement and prize won**

**BHARATHIDASAN UNIVERSITY RANK HOLDERS**

**ACADEMIC YEAR 2010 – 2011**

Degree	Name	Batch	University Rank
B.Sc.,	M. Vardhini	(Batch 2008 – 2011)	1 <sup>st</sup>

**19. Seminars / Conferences / Workshops organized and the source of funding (national / international) with details of outstanding participants, if any.**

**Workshops organized by**

Sl. No.	Seminar	State / National/ Lecture	Date	Grant from Agency	Organizing Secretary
1.	One day	Guest Lecture	24 <sup>th</sup> September 2012	Poompuhar College	Dr. B. SANKAR, M.Sc., M.Phil., Ph.D.

**20. Outstanding participants who graced the occasions**

**21. Student profile course-wise**

Academic Year		No. of Students appeared	Pass	No. of first class	No. of Dist.	University Rank obtained	Students went for higher education (%)	Students went for Job (%)
April 2013	UG	09	08	07	01	--	--	--
April 2014	UG	15	04	04	--	--	--	--
April 2015	UG	23	05	05	--	--	--	--
April 2016	UG	20	08	08	--	--	04	--
April 2017	UG	18	10	10	--	--	02	--

## 22. (a) Admission Details

Academic Year		Total Admission	FC		BC		MBC		SC		ST	
			M	F	M	F	M	F	M	F	M	F
2013-2014	UG	30	-	-	01	01	02	02	17	07	-	-
2014-2015	UG	23	-	-	01	-	01	03	13	05	-	-
2015-2016	UG	38	-	-	03	-	02	03	16	14	-	-
2016-2017	UG	18	-	-	-	-	01	01	12	04	-	-
2017-2018	UG	25	-	-	-	-	01	02	17	05	-	-

## 22 (b) UG Programmes

Year of study	Applications received	Selected		Total
		Male	Female	
2013-14	35	20	10	30
2014-15	34	15	08	23
2015-16	49	21	17	38
2016-17	38	13	05	18
2017-18	32	18	07	25

## 22. (c) PG Programmes

Year of study	Applications received	Selected	
		Male	Female
2013-14	---	---	---
2014-15	---	---	---
2015-16	---	---	---
2016-17	---	---	---
2017-18	---	---	---



**23. (d) Ph.D. Programmes**

Doing		Awarded before the assessment period		Awarded during the assessment period		Thesis Submitted
Male	Female	Male	Female	Male	Female	
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**24. Diversity of students**

Name of the Course (refer question no. 2)	% of students from the College	% of students from the State	% of students from other States	% of students from other countries
B. Sc.	100%	100%	---	---
M. Sc.	---	---	---	---
Ph. D.	---	---	---	---
M. Phil.	---	---	---	---

**25. How many students have cleared Civil Services, Defense Services, NET, SLET, GATE and any other competitive examinations?**

Sl. No.	Name of the Examination	No. of Students
1.	SET	--
2.	TNPSC	---
3	TET/TRB	---

## 26. Student progression

Student progression	Percentage against enrolled
UG to PG	50%
PG to M.Phil.	20%
PG to Ph.D.	15%
Ph.D. to Post-Doctoral	05%
Employed	10%
✚ Campus selection	35%
✚ Other than campus recruitment	
Entrepreneurs	30%

## 27. Diversity of staff

Percentage of faculty who are graduates	
Of the same parent university	60%
From other universities within the State	40%
From other universities from other States	NIL

## 28. Number of faculty who were awarded Ph.D., during the assessment period.

Year	Ph.D.,
2013-2018	----

## 29. Present details about infrastructural facilities

### a) Library:

Department: For U.G. - Nil

### b) Internet facilities for staff and students:

- 24 Hours unlimited Broad band internet facility is available in the Botany Department for the use of Staff members and research scholars.

- c) Total number of class rooms : 03
- d) Class rooms with ICT facility :
- Video projection and latest ICT gadgets.
- e) Students laboratories : 01
- All Major Practical equipments related to Botany Practicals are available in UG laboratories.
- f) Research laboratories : ----

**30. Number of students of the department getting financial assistance from College and Government.**

Year	No. of students getting financial assistance	
	U.G (Govt. Scholarship)	TN.CM.FP
2013 - 14	30	---
2014 - 15	23	---
2015 - 16	38	20
2016 - 17	18	10
2017 - 18	25	25

**31. Was any need assessment exercise undertaken before the development of new program(s)? If so, give the methodology.**

- ✓ The basis for the importance for introducing a new Programme will be discussed in the departmental meeting along with the copies of UGC/CSIR/DST brochures/syllabi.

**32. Does the department obtain feedback from**

**a) Faculty on curriculum as well as teaching-learning -evaluation? If yes, how does the department utilize it?**

- ✓ Yes, the suggestions given by the Staff members directly involved in the new Programme or syllabi are always considered as an effective feedback. The merits and demerits posed by the teacher concerned will be discussed in the BOS meeting and subsequent changes are updated periodically.

- ✓ Faculty members from other institutions are also involved in feeding feed-back in regular basis during the Evaluation of practical examinations.

**b) Students on staff, curriculum as well as teaching-learning-evaluation and what is the response of the department to the same?**

- Students are free to make comments/suggestions upon the methodology of teaching process (class-room teaching as well as laboratory demonstrations) adapted by the individual teachers directly to the Head of the Department
- By the directions of the Principal and IQAC, the Head of the department meets all the classes to verify the completion of the syllabus, well in advance, before the last working day of each semester.
- Every semester, IQAC conducts Feedback evaluation of teachers, infrastructure, laboratory conditions, etc., of the department and subsequently there port is considered with due weight-age for further constructive and progressive implementation.

**c) Alumni and employers on the Programmes and what is the response of the department to the same?**

**33. List the distinguished alumni of the department (maximum-05)**

**34. Give details of student enrichment Programmes (special lectures / workshops / seminar) with external experts.**

- a) Departmental seminars at UG levels are a rout in e-academic process in the department

Sl. No.	Title	State / National/ Guest Lecture	Date	Grant from Agency	Resource Person
01.	<b>NATURAL DYES FOR TEXTILES AND ART</b>	Guest Lecture	24 <sup>th</sup> September 2012	UGC	<b>Mrs. SAGARIKA DEVI</b> Founder, Kala Aur Katha & Research Scholar, Shri AMM MCRC, Chennai – 113.

**35. List the teaching methods adopted by the faculty for different Programmes.**

Sl. No.	Programme	Teaching Methods Adopted
1.	UG	Conventional Chalk and Talk method, questioning and answering approach, displaying of charts, exhibiting the proto-type models, usage of Slide projectors, Motion pictures, OHP presentations, assigning problems to solve independently, library hour, invited talks by external expertise, supply of well -prepared study materials and guidelines for Practical and up-dated theories behind practical's well before the commencement of laboratory experimental Practical's. Informations from News Papers & magazines- Science & Technology.

**36. How does the department ensure that Programme objectives are constantly met and learning outcomes monitored?**

- a) The system in curriculum facilitates to have a periodic and continuous assessment of the students through CIA and compulsory attendance.
- b) Inter-departmental analysis of both teachers and students in council of heads of the department level and departmental level after every semester ensures the status and directions of on-going trend in achieving the objectives of the Programmes.
- c) An effective and result-oriented monitoring mechanism is practiced by the PRINCIPAL to review the results of students and performance of teachers, every year.
- d) The interest and competition in selecting BOTANY subject by the students in admission process is an indicator for the department to ascertain the fulfillment of the objectives of our well-designed Programmes.
- e) No. of students appearing and getting succeeded in Competitive examinations is closely watched in regular manner.
- f) Periodical checking mechanism supported by feedback from students (of both current and out-going) and alumni and reports of IQAC, helps to take suitable remedial measures.

**37. Highlight the participation of students and faculty in extension activities.**

- ✚ Student's participation in Extension activities is made mandatory for all UG Programmes. The students of BOTANY do advised to participate in NSS, YRC and Sports etc.
- ✚ Students have been conducting awareness Programmes on "learning Science" and in particular, in BOTANY for near school children by deliberations and demonstration.
- ✚ The Staff's have conducted more than 5 one-day Programmes for the Higher Secondary School teachers who are handling BOTANY.
- ✚ Many of the staff members are actively involved in society-involved Associations and Organizations for the purpose of serving their intellectual expertise.

**38. Participation of faculties in Various Extension Activities**

**39. Give details of "beyond syllabus scholarly activities" of the Department.**

- ✓ Coaching to students for the preparation of UGC-CISR JRF cum Lecturer Test, SLET and other competitive examinations.
- ✓ Training the students to participate in BOTANY Quiz Programmes
- ✓ Training the students to inculcate the learning skills, inter-personal and intra-personal skill and career choosing skills (through workshops)

**40. State whether the Programme / department is accredited / graded by other agencies. Give details: Nil**

**41. Detail any five Strengths, Weaknesses, Opportunities and Challenges (SWOC) of the department**

**Strengths:**

- Effective Support in the form of laboratory equipments from the Government for the introduction of any new and innovative Research Programme.

- Even with moderate research possibilities, the department is capable of pursuing research in par with University departments and many leading institutions.
- Good and conducive opportunities for students vertical progress up to Research Level
- Thirst towards adaptability towards the up-dating of academic Programmes according to the demand.
- Female staff members outnumber the male staff members in the present and in student strength scenario where female students outnumber male students.

### **Weaknesses:**

- Substantial decrement in science learning due to the invasion of engineering studies and more over the Programmes in Botany are purely basic.
- Inability to network with other institutions (like other urban Colleges)
- Low profile of Teachers exposure towards advancement in Botany.
- Abolition of minor projects for college teachers and financial assistance to individual departments in the form of DST- FIST, has become unforeseen difficulty while progressing towards upwards.

### **Opportunities:**

- Wide scope for learning job-oriented certificate, diploma and PG Diploma course concurrently during the course duration.
- Students have chance to appear confidently in competitive examinations as extra-coaching on specific skill is set made available.
- Special coaching classes for NET/SLET/UGC-CSIR pave way to the students to go further in their academic excellence.
- Each student could enrich his/her technical skills as the related opportunities do available in the department.
- The past history and positive trend which prevails in the department help each and every student to expand their knowledge in all aspects.

### **Challenges:**

- Teaching Botany, seems to be tough task and that to the first generation learners make more challengeable. The success rate of the

department shows the success trend in meeting out such challenges in effective manner.

- Sudden transition from local language to English in Undergraduate level students is a regular taunting task. However, training through Bridge courses and spoken English labs help to get rid of the challenges.

### **Future plans of the department.**

- To set a Research Centre with the help of DST and UGC.
- To have more enriching programs for Staff and Students (like seminar, Symposia and Workshops).
- To get more projects from UGC, CSIR and DST

### **Achievements of the Department:**

- ✓ Since inception, the department has produced over 300 graduates in Botany
- ✓ One of the research departments in Bharathidasan University to pursue the experimental research.
- ✓ The department has grown with well-structured Programmes such as Undergraduate, Postgraduate and Research Programme with the job oriented Skill Based and Non Major Electives.

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