



Loyola College, Kunkuri

496225, Jashpur, Chhattisgarh

Annual report of Botany Department 2016-2017



Department of Botany:

Profile of the Department of Botany

The present department of Botany was established in 2005. Since its inception, the department is continuing its academic programme which comprises of Under Graduate course and General Course in Botany. The department first started its General course in Botany in 2005 and since it is running successfully. The department follows the syllabus of University of Sarguja. A variety of teaching and learning techniques are employed to impart knowledge and skills to learning techniques are employed to impart knowledge and skills to students at Department of Botany.

At present there are faculties in the Department who are specialized in various fields of Botany like Taxonomy and Ecology of Angiosperms, Plant Physiology And Biochemistry, Microbiology, Cell Biology, Molecular Genetics And Plant Biotechnology and Psychology. One laboratory assistants are also there in the Department.

The Department of Botany aims at promoting an integral understanding for utilization of plants and to explore underlying mechanisms for promoting eco-friendly environment. Additionally, all our energies are directed are grooming talent through academic and co-curricular activities. Purpose is to nurture well-trained visionary manpower.

Our goal is to provide students with quality classrooms experience with opportunities for learning scientific method through laboratory practical session and field work, so that they acquire the biological literary, critical thinking skills necessary for successful carrier in education, industry, to continue their education in graduate and Professional Schools.

The Botany Department has 1 well equipped laboratories. Students which is well equipped with microscopes, projector, and other necessary instruments, chemicals and glassware.

We also have a well-established Botanical garden of medicinal plants, a lab which displays rare exhibits of specimens, fossils, models and a departmental Library which volumes large number of books including books and journals, supporting the major interests of the botany department. Emphasis is on all aspects of plant science including Microbiology, Algae, Fungi, Bryophytes, Pteridophytes, Gymnosperm, Ecology, Anatomy, Cell and Molecular Biology, Biotechnology, Plant Physiology and Biochemistry, Angiosperm Taxonomy etc. Students are give permission to access the library whenever required, The library also houses several Botany practical manuals which are very helpful during the practical sessions.

About Botany

Botany, branch of biology that deals with the study of plants, including their structure, properties, and biochemical processes. Also included are plant classification and the study of plant diseases and of interaction with the environment.

Botany Careers

A bachelor's degree, at the very least, is necessary for most careers in Botany. An individual who wants to become a fields like botany, plant science, or plant biology, depending on the college; alternatively, they may major in general biology and take botany classes as part of this major.

Challenges for Botany Department

Departmental visibility and marketing to high school students and general education students at the university continues to be a challenge. Students just do not know what botany is and what kinds of career opportunities are available to botany majors. The botany department has done an effective job of cobbling together equipment from various sources to develop effective teaching labs.

Name of Department : **Botany**

Name of Incharge : Assit.Prof. Miss. Sangeeta Yadav (H.O.D.)

Asst. Prof. Miss. Sharda Singh

Name of Other Members : Dr. Oscar S. Tirkey S.J. (Principal)

Non Teaching Staff: Miss. Tikeshwari Anant (Lab Technician)

Faculty Profile:

S.No.	Name of Faculty	Academic Qualification	Teaching Experience	Teaching Classes
1.	Sangeeta Yadav	M.Sc., DCA, B.Ed., PGDCA	School – 02 Years, 7 Month. College -02	9 to 12 th B.Sc.-I, II,III
2.	Sharda Singh	M.Sc., PGDCA	01	B.Sc.-I, II,III
3.	Tikeshwari Anant	M.A.(Sanskrit)	07	Practicals

Degree College Course:

S.No.	Year	Course	Title
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		Code/Paper	
1.	B.Sc. FirstYear	26 A/ First Paper	Diversity of microbes and cryptogams
2.	B.Sc. FirstYear	26 B/ Second Paper	Cell biology and genetics
3.	B.Sc. SecondYear	26 A/ First Paper	Diversity of seed plants and their systematics
4.	B.Sc. SecondYear	26 B/ Second Paper	Structure, development and reproduction in flowering plants
5.	B.Sc. Third Year	26 A/ First Paper	Plant physiology, biochemistry and biotechnology
6.	B.Sc. Third Year	26 B/ Second Paper	Ecology and utilization of plants
7.	All year students	26 P Practical	Botany practical for all year students related to their subject.

- ❖ The syllabus is design by the University according to competitive exam like NET, SET, GATE, Research field, Forestry etc.
- ❖ The course is designed such that majorly all the theoretical course are accompanied by practical classes to provide a hands-on experience to the students.
- ❖ This acquaints them with the necessary skills and professional understanding of the scientific concepts and helps them use this experience in real-life situations during their careers.
- ❖ The course is a combination of various papers and topic which help a student learn in detail the concepts related to botany.

Classes and subject wise marks distribution:-

Subject	Paper	Total marks	Min. marks
Botany	First	50	} 33
	Second	50	
	Practical	50	17

Department Highlights:

- ❖ Total No. Of Faculty member: 03
- ❖ Total no. of students in B.Sc. First:88
- ❖ Total no. of students in B.Sc. Second:89
- ❖ Total no. of students in B.Sc. Third:80
- ❖ Total no. of students in B.Sc.:257

Staff achievement

- ❖ Sangeeta Yadav I have attend in Loyola College kunkuri Mushroom production Workshop by Pooja kumari and Sheetal Bang National Institute of social work and social science Bhubaneshwar.
- ❖ Sharda Singh I have attend in Loyola College Kunkuri Mushroom production Workshop by Pooja Kumari and Sheetal Bang National Institute of Social work and Social Science Bhubaneshwar.

Students Achievement

- ❖ B.Sc. I,II,III Year students attend in Loyola College Kunkuri Mushroom production Workshop by Pooja Kumari and Sheetal Bang National Institute of Social work and Social Science Bhubaneshwar.

Research Paper published

- ❖ Sangeeta Yadav I published paper TRADITIONAL MEDICINAL PLANTS in KUNKURI JASHPUR (C.G.) under JOURNAL of SCIENTIFIC LETTERS. TRADITIONAL MEDICINAL PLANTS in KUNKURI JASHPUR (C.G.) for the award of degree of M.Phil.
- ❖ Sharda Singh I published paper STUDIES OF ETHNOMEDICINAL PLANT OF BAGICHA JASHPUR CHHATTISGARH under JOURNAL OF SCIENTIFIC LETTERS. STUDYOF ETHNOMEDICINAL PLANTS OF

BAGICHA JASHPUR CHHATTISGARH for the award of degree of M.Phil.

Other Innovative practices:

- ❖ Orientation of Faculty Memberse on Skill Development Scheme: Dr. Fr. Pankhratius Toppo S.J. conducted on Orientation lecture on Training Programme. **(1-2July)**



Departmental Activities

- * Combine orientation for first year student. **(4th July)**



* Classes start for first year students.

(5th July)

* Practical start was done for all year students.

(9th July)



* Meeting on Women Cell held on 18/07/2016.



* Classes start for second and third year students.

(26 July)

* Celebrate on Loyola Day held on 31/07/2016.



* Department meeting is held every month.



* 15 August (Independence Day) is celebrated.



* Student's Election took place on 26/8/2016.

* B.Sc. First year students were welcomed on 23/9/2016.



*Seminar for each year students On - Fungi, Bryophyta, gene expression, Botanical nomenclature, flower, leaf, respiration, plants and environment, . **(October)**

* Teachers doing practical in our botany lab.



* Attendance counting of first, second and third year students.

First counting- **October 2016** Second counting- **February 2017**

***Mini Project**- Miss Sangeeta Yadav conducted a lecture on “*how your project(Plant tissue culture) should be related to basic principle of Botany*”.

*Plantation by students. **(July, September, November)**



***Botanical Herbal garden maintained by students. (September)**



***Quarterly examination only for first year and result. (September)**

* **Unit test**- for each year students on every month.

* **Education tour** – Students of B.Sc.I, II and III year went to Puri and Bhubaneswar Tour . NISER Research centre, Nandankanan Zoological park, Jagarnath temple, Sun temple, Lingraj temple, Chilka Lake, Kanjia lake, Kiakani lake. **(8-12December)**

Kolkata Tour

(9-16 November)

Ramkrishna paramhans swami vivekanand, Dakshineshwari temple, Birla temple, Indian museum, Zoological survey of India(Research centre), Zoological park, Nicco park, The Acharya Jagdish Chandra Bose Indian Botanical garden in Howrach , Bridge, Eden garden, Victoria memorial, Science City.



NISER Research centre



Nandankanan Zoological park



Sun temple



Chilka Lake



Jagarnath temple



Lingaraj temple



Osean



NISER Research centre



Kanjia lake





Botanical garden



Science City



**The Acharya Jagdish Chandra
Bose Indian Botanical garden**

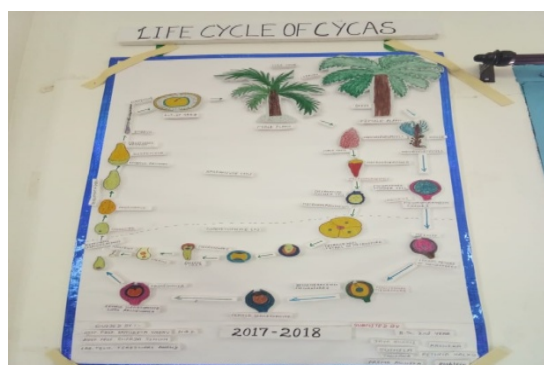


Eden garden

Kolkata Tour

* Model submission by students.

(December)



* Photo session with staff and students



* The students of our department participate in NSS, Sports, Cultural activity and Blood Donation.



* Botanical Rangoli competition organized for students.



*Motivational classes were provided for B.Sc. I, II and III year students by Asst. Prof. Sangeeta Yadav (HOD), Asst.Prof. Sharda Singh .

*Model exam start for each year students. **(16 January)**

*Model exam result shown on 31/1/2017.

*Herbarium for second year students only. **(January)**



*Remedial Classes for each year students. **(February)**



*Students are taken to One day Picnic Sangam and Nageratuku local place this year botany department. This place enriched with lot of natural heritage and full of different plant species.



* **Revision of curriculum 2016-2017**

This year the I,II and III year B.Sc.Botany Syllabus has been Revised.

* Practical examination.

(17-18 February)

*Annual examination start on 2/3/2017.

* Mushroom Production workshop by Pooja Kumari and Sheetal Bang
(National institute of social work and social sciences Bhubaneswar
in Loyola College Kunkuri . (April)



Head of Department
Assist. Prof. Sangeeta Yadav
Loyola College Kunkuri

LOYOLA COLLEGE KUNKURI
DEPARTMENT OF BOTANY

SESSION -2016-17

CLASS- B. Sc. I YEAR

HEAD OF DEPARTMENT - Miss. **SANGEETA YADAV**
ASST. PROF. - Miss. **SHARDA SINGH**
LAB TECHNICIAN - Miss. **TIKESHWARI ANANT**

EXPERIMENT LIST:

Object.1 To Study of the Microscope Compound Microscope and Dissecting Microscope.

ALGAE

Object.2 Study of Vegetative and Reproductive Structure of VOLVOX and its Identification on the Basis of Characters.

Object.3 Study of Vegetative and Reproductive Structure of VOUCHERIA and its Identification on the Basis of Characters.

Object.4 Study of Vegetative and Reproductive Structure of OEDOGONIUM and its Identification on the Basis of Characters.

Object.5 Study of Vegetative and Reproductive Structure of SARGASSUM and its Identification on the Basis of Characters.

Object.6 Study of Vegetative and Reproductive Structure of ECTOCARPUS and its Identification on the Basis of Characters.

FUNGI

Object.7 Study of Vegetative and Reproductive Structure of PYTHIUM and its Identification on the Basis of Characters.

Object.8 Study of Vegetative and Reproductive Structure of CERCOSPORA and its

Identification on the Basis of Characters.

Object.09 Study of Vegetative and Reproductive Structure of ASPERGILLUS and its

Identification on the Basis of Characters.

Object.10 Study of Vegetative and Reproductive Structure of MUCOR and its

Identification on the Basis of Characters.

BRYOPHYTA

Object.11 Study of Vegetative and Reproductive Structure of MARCHANTIA and its

Identification on the Basis of Characters.

Object.12 Study of Vegetative and Reproductive Structure of ANTHOCEROS and its

Identification on the Basis of Characters.

Object.13 Study of Vegetative and Reproductive Structure of POLYTRICUM and its

Identification on the Basis of Characters.

PTERIDOPHYTA

Object.14 Study of Vegetative and Reproductive Structure of EQUISETUM and its

Identification on the Basis of Characters.

Object.15 Study of Vegetative and Reproductive Structure of LYCOPODIUM and its

Identification on the Basis of Characters.

Object.16 Study of Vegetative and Reproductive Structure of SELAGINELLA and its

Identification on the Basis of Characters.

Q.17 Preparation and Study of Slides for Mitosis using Aceto Orcein or Aceto Carmine

Technique from Onion Root Tips.

Object.18 To Study the Plants Diseases.

- | | |
|---------------------------|--------------------------------|
| 1. Late Blight of Potato | 2. Tikka Diseases of Groundnut |
| 3. Red Rot of Sugarcane | 4. Mosaic Diseases of Tobacco |
| 5. Citrus Canker Diseases | |

Object.19 To Study of the given Specimens .

1. Polytricum 2. Cara 3. Moss plant 4. Funaria

5. Lycopodium 6. Marchantia

Object.20 To Study f the given Permanent Slides.

ALGAE

1. Ectocarpus Plurilocular w.m.
2. Polysiphonia Cystocarp

FUNGI

1. Agaricus V.S.
2. Peziza Apothecia V.S

BRYOPHYTA

1. Moss Capsule
2. Marchantia Gemma-Cup V.S.

PTERIDOPHYTA

1. Pteris Rhizome
2. Lycopodium Cone L.S.

❖ List of Instruments, Chemicals, Requirements, Plant Species, Permanent Slides and Specimens.

S.NO.	Name of Instruments	Quantity	Amount
1	Compound Microscope	20	NIL
2	Dissecting Microscope	6	NIL
3	Light Microscope	1	22,700
4	Balance Weighing Scale	Available in College	NIL

S.NO.	Name of Chemicals	Quantity	Amount
1	Safranin Stain	1	NIL
2	Glycerin	1	NIL
3	Alcohol	1	NIL
4	Aceto Carmine	1	NIL
5	Aceto Orcein Stain	1	NIL
6	Fast Green	1	NIL
7	Cotton Blue	1	NIL
8	Spirit Solvent	1 lit	100
9	Distilled water	250 ml	NIL

S.NO.	Name of Requirements	Quantity	Amount
1	Slide	3 pkt	330
2	Cover slip	5 pic	200
3	Dropping Bottle	5	NIL
4	Dropper	6	NIL
5	Watch Glass	25	NIL
6	Needle	25	NIL
7	Blade	1pkt	45
8	Spirit Lamp	6	NIL
9	Match Box	1pkt	70
10	Brush	25	250
11	Forcep	10 small x 10 big	NIL
12	Cotton	1	25
13	Filter Paper	10	NIL
14	Beaker	1	NIL
15	Test Tube (10ml)	70	NIL

S.NO.	Name of Plant Species	Quantity	Amount
1	VOLVOX	1	NIL
2	VOUCHERIA	1	NIL
3	OEDOGONIUM	1	NIL
4	SARGASSUM	2	NIL
5	ECTOCARPUS	1	NIL
6	PHYTOPHTHORA	2	NIL
7	CERCOSPORA	1	NIL
8	ASPERGILLUS	2	NIL
9	MARCHANTIA	2	NIL
10	ANTHOCEROS	1	NIL
11	EQUISETUM	2	NIL
12	LYCOPODIUM	2	NIL
13	SELEGINELLA	2	NIL
14	Onion Root Tips	Available in college campus	NIL
15	MUCOR	2	50
16	PYTHIUM	2	NIL

S.NO.	Permanent Slides	Quantity	Amount
1	Ectocarpus Plurilocular w.m	1	NIL
2	Polysiphonia Cystocarp	1	NIL
3	Agaricus V.S.	1	NIL
4	Peziza Apothecia V.S	1	NIL

5	Moss Capsule	1	NIL
6	Marchantia Gemma-Cup V.S.	1	NIL
7	Pteris Rhizome	1	NIL
8	Lycopodium Cone L.S.	1	NIL
S.NO.	Specimens	Quantity	Amount
1	Polytricum	1	NIL
2	Chara	1	125
3	Moss plant	1	125
4	Funaria	1	NIL
5	Lycopodium	1	125
6	Marchantia	1	NIL

LOYOLA COLLEGE KUNKURI
DEPARTMENT OF BOTANY

SESSION -2016-17

CLASS- B. Sc. II YEAR

HEAD OF DEPARTMENT - SANGEETA YADAV

ASST. PROF. - SHARDA SINGH

LAB TECHNICIAN - TIKESHWARI ANANT

EXPERIMENT LIST:

Plant Description

Object.1 Description of Some Locally Available Plants and their Identification up to

MALVACEAE FAMILY – *HIBISCUS ROSA SINENSIS*

Object 2. Description of Some Locally Available Plants and their Identification up to

FABACEAE FAMILY – *BAUHINIA VARIEGATA*.

Object 3. Description of Some Locally Available Plants and their Identification up to

SOLANACEAE FAMILY – *DATURA ALBA*

Object 4. Description of Some Locally Available Plants and their Identification up to

APOCYNACEAE FAMILY – *VINCA ROSEA*.

Object 5. Description of Some Locally Available Plants and their Identification up to

LAMIACEAE FAMILY – *OCIMUM SANCTUM*.

Object.6 Description of Some Locally Available Plants and their Identification up to

ASCLEPIADACEAE FAMILY – *CALOTROPIS PROCERA*.

Object.7 Description of Some Locally Available Plants and their Identification up to

BRASSICACEAE FAMILY – *BRASSICA CAMPESTRIS*.

GYMNOSPERM

Object 8. Preparation and Study of the Temporary Slide of the V.S. of CYCAS LEAFLET.

Object 9. Preparation and Study of the Temporary Slide of the T.S. of CYCAS RACHIS.

Object 10. Preparation and Study of the Temporary Slide of the T.S. of PINUS NEEDLE.

Object 11. Preparation and Study of the Temporary Slide of the T.S. of OLDER STEM OF
PINUS .

Object 12. Preparation and Study of the Temporary Slide of the T.S. of OLDER STEM OF
EPHEDRA.

ANATOMY

Object .8 Preparation and Study of the Temporary Slide of the T.S. of SUNFLOWER STEM.

Object .9 Preparation and Study of the Temporary Slide of the T.S. of CUCURBITA STEM.

Object .10 Preparation and Study of the Temporary Slide of the T.S. of ZEA MAYS STEM.

EMBRYOLOGY

Object .11 To Study the Placentation in given Material .

Object .12 To Study of the given Specimens .

1. Pinus Male Cone 2 Pinus Female Cone 3 Cycas Seed

4. Ephedra Male Cone 5 Ephedra Female Cone

Object .11 To Study of the given Slides.

1. Pinus Ovule V.S. 2. Pinus Female Cone 3. Cycas Ovule L.S.

4. Zea Mays Root T.S. 5. Zea Mays Leaf V.S. 6. Cycas Root T.S.

❖ **List of Instruments, Chemicals, Requirements, Plant Species, Permanent Slides and Specimens.**

S.NO.	Name of Instrument	Quantity	Amount
1	Compound Microscope	15	NIL
2	Dissecting Microscope	6	NIL
3	Magnifying Glass	2	NIL
4	Light Microscope	1	22,700
5	Balance Weighing Machine	Available in College	NIL

S.NO.	Name of Chemicals	Quantity	Amount
1	Safranin Stain	1	NIL
2	Glycerin	1	NIL
3	Alcohol	1	NIL

S.NO.	Name of Requirement	Quantity	Amount
1	Slide	3 pkt	330
2	Cover Slip	5 pic	200
3	Dropping Bottle	5	NIL
4	Dropper	6	NIL
5	Watch Glass	20	NIL
6	Needle	20	NIL
7	Blade	1pkt	45
10	Brush	10	100
11	Forcep	10 smallx10big	NIL
12	Cotton	1	25
13	Filter Paper	3	NIL
14	Beaker	1	NIL

S.NO.	Name of Plant Species	Quantity	Amount
1	MALVACEAE FAMILY – <i>HIBISCUS ROSA SINENSIS</i>	Available in our College campus	NIL
2	FABACEAE FAMILY – <i>BAUHINIA VERIEGATA</i>	Available in our College campus	NIL
3	SOLANACEAE FAMILY – <i>DATURA ALBA</i>	Available in our College campus	NIL
4	APOCYNACEAE FAMILY – <i>VINCA ROSEA.</i>	Available in our College campus	NIL
5	LAMIACEAE FAMILY – <i>OCIMUM SANCTUM.</i>	Available in our College campus	NIL
6	ASCLEPIADACEAE FAMILY – <i>CALOTROPIS PROCERA.</i>	Available in our College campus	NIL
7	BRASSICACEAE FAMILY – <i>BRASSICA COMPESTRIS.</i>	Available in our College campus	NIL
8	CYCAS LEAFLET	1	NIL
9	CYCAS RACHIS	1	NIL
10	PINUS NEEDLE	1	NIL
11	PINUS STEM	1	NIL
12	EPHEDRA STEM	1	NIL
13	SUNFLOWER STEM	1	NIL
14	CUCURBITA STEM	1	NIL
15	ZEA MAYS STEM	1	NIL

S.NO.	Permanent Slides	Quantity	Amount
	Pinus Ovule V.S.	1	NIL
	Pinus Female Cone	1	NIL
	Cycas Ovule L.S.	1	NIL
	Maize Root T.S.	1	NIL
	Zea Mays Leaf V.S.	1	NIL
	Cycas Root T.S.	1	NIL
S.NO.	Specimens	Quantity	Amount
	Pinus Male Cone	1	NIL
	Pinus Female Cone	1	NIL
	Ephedra Male Cone	1	NIL
	Ephedra Female Cone	1	NIL
	Cycas Seed	1	NIL

LOYOLA COLLEGE KUNKURI
DEPARTMENT OF BOTANY
SESSION -2016-17
CLASS- B.Sc. III YEAR

HEAD OF DEPARTMENT - SANGEETA YADAV
ASST. PROF. - SHARDA SINGH
LAB TECHNICIAN - TIKESHWARI ANANT

EXPERIMENT LIST:

Physiology

- Object 1. Demonstration of Endosmosis By Osmoscope of Potato .
- Object 2. Demonstration of Plasmolysis and Deplasmolysis in Plant cell.
- Object 3. To Study the types of Stomata in the Epidermal peel of Leaves.
- Object 4. Comparison of Stomatal and Cuticular transpiration by Four Leaf Method.
- Object 5. Experiment to Measure the rate of transpiration by Ganong Potometer.

Ecology

- Object 6. Determination of Percentage Frequency of Plant species in a given Plant community by Quadrature method.
- Object 7. Determination of Density of Plant species in a given Plant community by Quadrature method.
- Object 8. Determination of Abundance of Plant species by Quadrature method.

Utilization of Plants-

Object 9. Utilization of Plants-

1. **Food Plants** – Rice , Wheat ,Maize , Potato , and Sugarcane.
2. **Fibers-** Cotton and Jute.
3. **Vegetable Oils** – Groundnut , Mustard , and Coconut.
4. **Sources of fire Wood** – Timber and Bamboo.
5. **Spices** –Ginger , Turmeric , Clove , Cumin , Black Pepper.
6. **Medicinal Plants-** Belladonna , Opium , Tulsi , Aswagandha.

7. **Beverages** – Tea and Coffee.

Biochemistry /Biotechnology

Object 10. To test the Polysaccharide starch.

Object 11. Prepare Glycerin mount of Iodine Stained thin Section of Potato tuber and Study Leucoplast in their cell.

Object 12. To Perform Starch test in Leaves.

Object 13. To test the Presence of Monosaccharide in Plant tissue Fehling –A and Fehling –B Moor's test.

Object 14. To test the Presence of Lipid in Plant Tissue .

Object 15 To test the presence of Protein in Plant tissue.

A. Xanthoproteic test.

B. Biuret test.

Object 16. General test for Carbohydrates in Plant tissue.

Object 17. To Study of the given Specimens.

1 Trapa 2. Typha 3. Oscillatoria 4. Eichhornia 5 Hydrilla

6 Asparagus 7 Opuntia 8 Pistia.

Object 17. To Study of the given Permanent Slides .

1. Casuarina stem T.S.

2. Trapa stem T.S.

3. Asparagus stem T.S.

4. Nerium Leaf T.S.

5. Hydrilla Leaf V.S.

❖ **List of Instruments, Chemicals, Requirements, Plant Species, Permanent Slides and Specimens.**

S.NO.	Name of Instrument	Quantity	Amount
1	Compound Microscope	15	NIL
2	Stop Watch	1	NIL
3	Vertical Stand	1	NIL

4	Ganong Potometer	5	NIL
5	Quadrant	8	NIL
6	Light Microscope	1	22,700
7	Balance Weighing Machine	Available in College	NIL

S.NO.	Name of Chemicals	Quantity	Amount
1	Safranin Stain	1	NIL
2	Glycerin	1	NIL
3	Alcohol	1	NIL
4	Salt Solution	1	10
5	Sucrose	1	NIL
6	Mom	2	10
7	Petroleum Jelly	1	450
8	Sodium Hypochlorite	1	NIL
9	Fehling Solution -A	1	NIL
10	Fehling Solution -B	1	NIL
11	Glucose	1	200
12	Iodine Solution	1	NIL
13	Sudan III	1	NIL
14	Osmic Acid	1	NIL
15	Nitric Acid	1	NIL
16	Sodium hydroxide	1	NIL
17	Biuret Reagent	2	NIL
18	Hydrochloric	1	NIL
19	Starch Solution	1	NIL
20	Silicon grease	1	NIL
21	Distilled Water	250 ml	NIL

S.NO.	Name of Requirement	Quantity	Amount
1	Slide	3 pkt	330
2	Cover Slip	5 pic	200
3	Dropping Bottle	6	NIL
4	Dropper	6	NIL
5	Watch Glass	20	NIL
6	Needle	20	NIL
7	Blade	1pkt	45
10	Test Tube Brush	10	NIL
11	Forceps	10 smallx10big	NIL
12	Cotton	1	NIL
13	Filter Paper	3	NIL
14	Knife	1m	20
15	Paper pin	1pkt	70
16	Petri Dish	40	NIL
17	Thread	1	20
18	Wide mouthed Bottle	3	75

19	Test Tube (10ml)	70	NIL
20	Spirit Solvent	2 lit.	200
21	Test Tube Holder	20	NIL
22	Spirit Lamp	5	NIL
23	Candle	5	25
24	Test Tube Stand	4	NIL
25	Pencil	1	5
26	Paper	3	6
27	Scale	3	30
28	Note Book	1	20
29	Beaker (500ml)	6	NIL
30	Porcelain Evaporating Dish Big	1	NIL
31	Porcelain Evaporating Dish Small	1	NIL
32	Funnel	6	NIL
33	Measuring Cylinder Small	3	NIL
34	Measuring Cylinder Big	2	NIL
35	Pipette	2	NIL
36	Spatula	1	NIL

S.NO	Name of Plant Species	Quantity	Amount
1	Tradescantia Leaf	Available in our College campus	NIL
2	Plant Twig	Available in our College campus	NIL
3	Different Plant	Available in our College campus	NIL
4	Cucurbita	Available in our College campus	NIL
5	Mustard	Available in our College campus	NIL
6	Ixora	Available in our College campus	NIL
7	Tulsi	Available in our College campus	NIL
8	Palm	Available in our College campus	NIL
9	Doob Grass	Available in our College campus	NIL
10	Onion Leaf	Available in our College campus	NIL
11	Fresh Leaf	Available in our College campus	NIL
12	Potato	Available in our College campus	NIL
13	Groundnut seed	Available in our College campus	NIL
14	Besan	Available in Shop	10 Rs.
15	Rice	Available in our College campus	NIL
16	Wheat	Available in our College campus	NIL
17	Maize	Available in our College campus	NIL
18	Sugarcane	Available in our College campus	NIL
19	Cotton	Available in our College campus	NIL
20	Jute	Available in our College campus	NIL
21	Groundnut	Available in our College campus	NIL
22	Mustard	Available in our College campus	NIL
23	Coconut	Available in our College campus	NIL
24	Timber	Available in our College campus	NIL
25	Bamboo	Available in our College campus	NIL
26	Ginger	Available in our College campus	NIL

27	Asafoetida,	Available in our College campus	NIL
28	Cardamom,	Available in our College campus	NIL
29	Lesser	Available in our College campus	NIL
30	Cinnamon	Available in our College campus	NIL
31	Black Pepper	Available in our College campus	NIL
32	Black Pepper	Available in our College campus	NIL
33	Clove	Available in our College campus	NIL
34	Turmeric	Available in our College campus	NIL
35	Belladonna	Available in our College campus	NIL
36	Quinone	Available in our College campus	NIL
37	Aconite,	Available in our College campus	NIL
38	Aswagandha	Available in our College campus	NIL
39	Tulsi	Available in our College campus	NIL
40	Opium	Available in our College campus	NIL
41	Tea	Available in our College campus	NIL
42	Coffee	Available in our College campus	NIL

S.NO.	Permanent Slides	Quantity	Amount
1	Casuarina stem T.S.	1	NIL
2	Trapa stem T.S.	1	NIL
3	Asparagus stem T.S.	1	NIL
4	Nerium Leaf V.S.	1	NIL
5	Hydrilla Leaf V.S.	1	NIL
S.NO.	Specimens	Quantity	Amount
1	Trapa	1	NIL
2	Typha	1	NIL
3	Oscillatoria	1	NIL
4	Eichhornia	1	NIL
5	Hydrilla	1	NIL
6	Asparagus	1	NIL
7	Opuntia	1	NIL
8	Pistia	1	NIL

Head of Department
Assist.Prof. Sangeeta Yadav
Loyola College Kunkuri

LOYOLA COLLEGE KUNKURI
DEPARTMENT OF BOTANY
SESSION- 2016-2017

Stock Material

S.NO.	PARTICULARS	Quantity	Rate	Amount
1	Petroleum Jelly	4x 500ml	450	1800
2	Solvent for Spirit Lamp	6 x 500ml	100	600
3	Formaldehyde	1 x 5 lit.	800	800
4	Glucose	1 x500ml	200	200
5	Starch	1 x500ml	200	200
6	Ethanol	6 x 500ml	850	5100
7	Plane Slide	5pkt	110	550
8	Cover Slip	10 pic	40	400
9	Microscope XLX M.	1	22700	22700
	Specimen			
10	Lycopodium Clavatum	1	180	180
11	Anthoceros	1	180	180
12	Lichen	1	180	180
13	Polysiphonia	1	180	180
14	Chara	1	180	180
15	Moss Plant	1	180	180
	Material			
16	Marsilea	1	25	25
17	Polytrichum	1	25	25
18	Polysiphonia	1	25	25
19	Marsilea	1	150	150

20	Polytrichum	1	150	150
21	Polysiphonia	1	150	150
	Grand Total			525

Head of Department

Assis. Prof. Sangeeta Yadav

Loyola College Kunkuri