

Loyola College, Kunkuri

# 496225, Jashpur, Chhattisgarh

# **Annual report of Botany Department 2015-2016**



Department of Botanny:

**Introduction** 

Department of Botany in "Loyola College Kunkuri" was established in 2005 with an ambition to pursue high level of teaching theory, practical and research. Presently the department supports undergraduate program of the institute. This department has well-equipped and spacious Lab. The study of Botany, dealing with the structure, function, classification and evolution of plants, has inspired many great minds. Plants are unique as solar energy converters and providers of energy for all heterotrophic organisms. It is fascinating to study the wide spectrum of reproductive in algae, fungi, lichens, bryophytes, processes gymnosperms and flowering plants. A students of botany has been learing these aspects together with taxonomy, anatomy, plant pathology,

plant breeding, plant physiology, plant biochemistry, ecology, cytology, genetic, cytogenetics and plant biotechnology.

# **About Botany Department**

The department of botany was established in 2005 it has two permanent faculty members. The department offers B.Sc. degree collaboration with microbiology, zoology and biotechnology in botany. It has always maintained good academic results and also consultancy services.

Faculty participants in seminar, workshops at national levels. Students are encouraged to take up individuals project to meet their academic requirements.

# The objectives of curriculum development are listed below:

- To update course content by introducing recent developments in plant sciences.
- ➤ To provide the students of bachelor's programme in botany, an opportunity to one or more courses in allied disciplines to help them pursue specialization in interdisciplinary areas.
- To make provision for improvement in the quality of laboratory and field work in the lack of which the students are not able to appreciate the beauty and variety of form, structure, function and ecological significance of plants and their biological services.
- Each course shall be assigned credits depending on the quantum of work required to be done in each semester. The formula for assigning credits to a course is based on the number of contact hours per week.

## Name of Department :

# Botany

Name of Incharge :

Assit.Prof. Miss. Khushboo Xalxo

	(H.O.D.)
	Asst. Prof. Miss. Sangeeta Yadav
	(H.O.D.) (10/12/2015)
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	Teaching	Teaching
		Qualification	Experience	Classes
1.	Khushboo Xalxo	M.Sc.	02	B.ScI,
				II,III
2.	Sangeeta Yadav	M.Sc., DCA	<b>School</b> – 02	9 to 12 <sup>th</sup>
		B.Ed.,PGDCA	Years, 7	
			Month.	
			College -01	B.ScI,
				II,III
3.	Tikeshwari Anant	M.A.(Sanskrit)	06	Practicals

# **Degree College Course:**

S.No.	Year	Course	Title
		Code/Paper	
1.	B.Sc. FirstYear	26 A/ First	Diversity of microbes and
		Paper	cryptogams
2.	B.Sc. FirstYear	26 B/ Second	Cell biology and genetics

		Paper		
3.	B.Sc. SecondYear	26 A/ First	Diversity of seed plants and	
		Paper	their systematics	
4.	B.Sc. SecondYear	26 B/ Second	Structure, development and	
		Paper	reproduction in flowering	
			plants	
5.	B.Sc. Third Year	26 A/ First	Plant physiology, biochemistry	
		Paper	and biotechnology	
6.	B.Sc. Third Year	26 B/ Second	Ecology and utilization of	
		Paper	plants	
7.	All year students	26 P	Botany practical for all year	
		Practical	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
	First	50	)
Botany	Second	50	} 33

Practical	50	17
Tactical	50	17

# **Department Highlights:**

- Total No. Of Faculty member: 03
- ✤ Total no. of students in B.Sc. First:124
- ✤ Total no. of students in B.Sc. Second:60
- Total no. of students in B.Sc. Third:45
- Total no. of students in B.Sc.:229

# **Staff Acheivements:**

Miss Sangeeta Yadav I have research ANTIBACTERIAL activity of LEAF, ROOT and SEED of SOLANUM LYCOPERSICUM and CORIANDRUM SATIVUM from GURU GHASIDAS VISHWAVIDYALAYA BILASPUR (C.G.)

Miss Sangeeta Yadav I have attend the B.Ed. Internship program in GOVT. GORL'S MIDDEL SCHOOL, JANJGIR, C.G. followed by UTKARSH EDUCATION COLLEGE SARAKHON, JANJGIR (C.G.)

# Association Activities:

- Students of undergraduate presentation on given assignment topic related to algae, fungi, bryophytes and angiospermic & physiological anatomy of plant on regular internal of class.
- Students of UG –III worked on a small project Herbal plant in our local area and visited to District Forest office of Jashpur district on 05 November 2015.

# Activities:

Classes start for first year students.

(July)

✤ Practical start was done for all year students.



# Eco club

Plantation of China rose, Sadabahar and Tulsi in August 2015 and November 2015 by undergraduates.

Plantation of Rose plants by UG-I during month of November \* – December in 2015.

Plantation of pea, mustard, china rose, sadabahar, Medicinal plants-Tulsi, neem,tinospora, lemon, anar, Timber plant, Spices plant, beverage plant- Tea by Teachers and UG-II and III 2015.



- ✤ A record of medicinal plants was prepared by B.Sc.III year 2015 January.
- ↔ B.Sc.I year students make related model from syllabus .



# <u>Workshop</u>

A two day workshop on "Grafting technique in Rose and Onion cultivation" during this session plantation of *solanum nigrum*, *Argemone Mexicana*, *Tagetes patula* (marigold).

# **Guest Lecture**

A guest lecture by Mrs Nishi Ekka Assist. Professor of Botany, Govt. College Duldula. On 21 January 2015 on topic Alternation of generation in Ectocarpus, Binomial Nomenclature, Typification and morphological , physiological adaptation in hydrophytes, xerophytes plants.



# Herbarium Collection:

The end of session every year a best herbarium sheet is collected from students herbarium in placed under herbarium collection file was maintained. A such type of collection was prepared by lab technician under guidance of Assist. Prof. which are the preservative of such local plant found in our local plant community.





# **Botanical garden**

A report on botanical garden it was set up in 1947 as the foundation of Loyola School Kunkuri is placed during that time it came in existence. The plant were planted by the Loyola School facult. Now a days this garden comes under the faculty of Botany Department Loyola College Kunkuri. It consist of Sal, Mango, Litchi, Bamboo, Jamun and Jackfruit tree seen to be like a small forest.



As we know that botanical garden consist of various type of plants. And we are in practice to generate botanical garden by naming the plant and tree or by name plating. List of such tree present in Botanical Garden.

<u>Unit tests</u> : B.Sc. I, II and III year for the practice of students for their main exams. To overcome their exam phobia. Revision of done syllabus unit. To practice more and more answer writing pattern. Experience enhancement of exam habit. Monthly unit tests were conducted for students.



✤ The students of our department participate in NSS, Sports,

Cultural activity and Blood Donation.

- ✤ Celebrate Sports Day on 12/12/2015.
- Celebrate Sarva Dharma Sammelan on 19/12/2015.
- Monthly each student's (B.Sc. I, II and III Year) attendance was recorded.
- ✤ Model examination was conducted.

# **\*** <u>Revision of curriculum 2015-2016</u>

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

- ✤ Practical exams were conducted.
- ✤ Annual exam was conducted by university.

Sangeeta Yadav Assistant Professor H.O.D. of Botany Loyola College Kunkuri

#### LOYOLA COLLEGE KUNKURI

### **DEPARTMENT OF BOTANY**

#### **SESSION -2015-16**

## CLASS- B. Sc. I YEAR

HEAD OF DEPARTMENT	-Miss.	KHUSHBU XALXO
	- Miss.	SANGEETA YADAV (10.12.2015)
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 PHYTOPHTHORA 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.

## BRYOPHYTA

- Object.10 Study of Vegetative and Reproductive Structure of MARCHANTIA and its Identification on the Basis of Characters.
- Object.11 Study of Vegetative and Reproductive Structure of ANTHOCEROS and its Identification on the Basis of Characters.

### PTERIDOPHYTA

- Object.12 Study of Vegetative and Reproductive Structure of EQUISETUM and its Identification on the Basis of Characters.
- Object.13 Study of Vegetative and Reproductive Structure of LYCOPODIUM and its Identification on the Basis of Characters.
- Object.14 Study of Vegetative and Reproductive Structure of SELAGINELLA and its Identification on the Basis of Characters.
- Q.15 Preparation and Study of Slides for Mitosis using Aceto Orecein or Aceto Carmine

Technique from Onion Root Tips.

Object.16 To Study the Plants Diseases.

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

Object.17 To Study f the given Specimens.

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

## 5. Lycopodium 6. Marchantia

## Object.18 To Study f the given Permanent Slides.

## ALGAE

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

## FUNGI

- 1. Agaricus V.S.
- 2. Peziza ApotheciaV.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	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	Aceto Carmine	1	NIL
5	Aceto Orcein Stain	1	NIL
6	Fast Green	1	NIL

7	Cotton Blue	1	NIL
8	Spirit Solvent	1lit	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	NIL
8	Spirit Lamp	6	NIL
9	Match Box	1pkt	70
10	Brush	25	250
11	Forcep	10 small x 10 big	100x250
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	NIL
		Campus	

S NO	Permanent Slides	Quantity	Amount	
1	Estessemus Divides			
1	Ectocarpus Plumocular w.m	1	INIL.	
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	NIL	
3	Moss plant	1	NIL	
4	Funaria	1	NIL	
5	Lycopodium	1	NIL	
6	Marchantia	1	NIL	

## **DEPARTMENT OF BOTANY**

#### LOYOLA COLLEGE KUNKURI

#### **SESSION -2015-16**

#### CLASS- B. Sc. II YEAR

HEAD OF DEPARTMENT	- KHUSHBU XALXO	
	- SANGEETA YADAV (10.12.2015)	
LAB TECHNICIAN	- TIKESHWARI ANANT	

## **EXPERIMENT LIST:**

#### **Plant Discription**

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

MALAVACEAE 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 – DHATURA 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	Balance Weighing Machine	1	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
15	Test tube brush	6	NIL

S.N	Name of Plant Species	Quantity	Amount
О.			
1	MALAVACEAE FAMILY – HIBISCUS ROSA SINENSIS	Available in our	
		College campus	
2	FABACEAE FAMILY – BAUHINIA VERIEGATA	Available in our	
		College campus	
3	SOLANACEAE FAMILY – DATURA ALBA	Available in our	
		College campus	
4	APOCYNACEAE FAMILY – VINCA ROSEA.	Available in our	

		College campus	
5	LAMIACEAE FAMILY – OCIMUM SANCTUM.	Available in our	
		College campus	
6	ASCLEPIADACEAE FAMILY – CALOTROPIS	Available in our	
	PROCERA.	College campus	
7	BRASSICACEAE FAMILY – BRASSICA	Available in our	
	COMPESTRIS.	College campus	
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
1	Pinus Ovule V.S.	1	NIL
2	Pinus Female Cone	1	NIL
3	Cycas Ovule L.S.	1	NIL
4	Maize Root T.S.	1	NIL
5	Zea Mays Leaf V.S.	1	NIL
6	Cycas Root T.S.	1	NIL
S.NO.	Specimens	Quantity	Amount
1	Pinus Male Cone	1	NIL
2	Pinus Female Cone	1	NIL
3	Ephedra Male Cone	1	NIL
4	Ephedra Female Cone	1	NIL
5	Cycas Seed	1	NIL

## LOYOLA COLLEGE KUNKURI DEPARTMENT OF BOTANY SESSION -2015-16 CLASS- B.Sc. III YEAR

HEAD OF DEPARTMENT	-	- KHUSHBU XALXO	
	-	SANGEETA YADAV (10.12.2015)	
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 Quadrate method.
- Object 7. Determination of Density of Plant species in a given Plant community by Quadrate method.
- Object 8. Determination of Abundance of Plant species by Quadrate 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 V.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	Quadrate	8	NIL
6	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	NIL
5	Sucrose	1	NIL
6	Mom	2	NIL
7	Petroleum Jelly	1	NIL
8	Sodium Hypochlorite	1	NIL
9	Fehling Solution -A	1	NIL
10	Fehling Solution -B	1	NIL
11	Glucose	1	NIL
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	2 pkt	220
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	Forcep	10 smallx10big	NIL
12	Cotton	1	25
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	1 lit.	100
21	Test Tube Holder	20	NIL
22	Spirit Lamp	5	NIL
23	Candle	5	25
24	Test Tube Rack	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
•	Tradaccontia Loof	Available in our College compus	NII
1	Diant Turia	Available in our College campus	
2	Different Diset	Available in our College campus	
3	Different Plant	Available in our College campus	
4	Cucurdita Masteral	Available in our College campus	NIL NIL
5	Mustard	Available in our College campus	NIL
6	Ixora	Available in our College campus	NIL
/	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 – Sal,Sagwan,Sheesam	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	Теа	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- 2015-2016

## **Stock Material**

S.NO.	PARTICULARS	Quantity	Rate	Amount
1	Solvent for Spirit Lamp	4 x100ml	100	400
2	Plane Slide	3pkt	60	180
3	Cover Slip	4 pics	40	160
4	Forcep	1pkt	10	120
		2Bx		
5	Solvent for Spirit Lamp	500ml	100	200
6	Plane Slide	5pkt	110	550
7	Cover Slip	1pkt	234	2800
				4250
	Grand Total			

Head of Department

Assist.Prof. Sangeeta Yadav

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