



**Government College Rajahmundry**

An Autonomous Institution since 2000  
Affiliated to Adikavi Nannaya University

**NAAC**  
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**(RAF-2017)**



## **DEPARTMENT OF BIOTECHNOLOGY**

### **DEEKSHARAMBH 2024-2025**

## **STUDENT INDUCTION PROGRAMME FOR NEWLY ADMITTED I B.SC. BIOTECHNOLOGY 2024-2025**

### **Introduction :**

### **Objectives:**

- To aid new students in adjusting to their new academic environment.
- To provide them with a smooth transition into the core of their degree programmes by introducing the ethos and culture of the institution.
- To aid participants in developing progressive and emotional ties with peers and faculty members in order to understand and self-reflect.
- To instill the importance of cleanliness and wellness, as well as to assist them in realising the strength that lies inside them.
- In order to bridge the gaps and encourage people to explore their academic interests and pursue academic excellence, it is necessary to rewrite and reform the foundational ideas.
- To increase one's self-awareness, sensitivity, and understanding of those around them, as well as of society at large and nature.
- To encourage holistic development by exposing students to a wide range of extracurricular, co-curricular, and curriculum-based activities.

# **Report on Student Induction Program 2024-2025**

## **1. Event**

The Student Induction Programme was conducted for First year newly admitted students in two weeks from 12<sup>th</sup> August to 31<sup>st</sup> August 2024

## **2. Participants:**

First Year students of B.Sc Single major Biotechnology batch

## **3. Objective:**

Student Induction Programme is designed to orient single major biotechnology students about the institute, Autonomy and departmental activities, Institute Orientation, students were familiarized about facilities and infrastructure of their core department, student interaction Proficiency Module ,professional & social body activities, Holistic Multidisciplinary Education (HME), Professional Skills-I, Activity Based Learning-I & II, Proficiency module (Soft Skills), student centric teaching ,learning process, evaluation & assessment system, course objective, course outcome, learning objective and learning outcome, Formative assessment, ERP, Universal Human values (Value Education & Professional Ethics), Literary (Debate/Public speaking),Creative Arts, Physical Health and related activities (Yoga & fitness) and NEP2020.

## STUDENT INDUCTION PROGRAMME - SCHEDULE

Date	Class	Activity	Name of the lecturer
12/08/2024	10Am-11Am	Certificate Verification	Dr.B.Nageshwari
	11Am-12Pm	Certificate Verification	Dr.B.Nageshwari
	12Pm-01Pm	Basic Data Collection	Dr.K.Anusha



Date	Class	Activity	Name of the lecturer
13/08/2024	10Am-11Am	Basic Data Collection	Dr.B.Nageshwari
	11Am-12Pm	Mentor - Mentee group - Introduction within the group	Dr.B.Nageshwari
	12Pm-01Pm	Biotechnology Department tour & College website orientation	Dr.K.Anusha



<b>Date</b>	<b>Class</b>	<b>Activity</b>	<b>Name of the lecturer</b>
17/08/2024	10Am-11Am	Institution Orientation - IQAC,COE,AO, Academic Cell	Dr.B.Nageshwari
	11Am-12Pm	Introduction to Bridge course in biotechnology and scope and PRE- TEST for the newly joined students	Dr.B.Nageshwari Dr.K.Anusha I.Parnika Sai
	12Pm-01Pm	Facilities in Campus, Biotech department familirization. Mentoring students goals, Family expectations	I.Parnika Sai





Date	Class	Activity	Name of the lecturer
19/08/2024	10Am-11Am	Institution vision, Mission, Core values ,Student code & Conduct policy and progress policy- etiquette etc.,	Dr.K.Anusha
	11Am-12Pm	Scope and Branches and career opportunities in Biotechnology	Dr.B.Nageshwari I.Parnika Sai
	12Pm-01Pm	Single major system- Minor, Majors introduction,Orientation on projects, CSPs etc., Eco-Friendly Rakhi Celebrations 2024 Parthenium Awareness week-2024- Introduction	Dr.B.Nageshwari Dr.K.Anusha I.Parnika Sai



Date	Class	Activity	Name of the lecturer
20/08/2024	10Am-11Am	Importance of science and Importance of Biotechnology	I.Parnika Sai Dr.K.Anusha Dr.B.Nageshwari
	11Am-12Pm	Bridge course-5. Bio molecules and importance	Dr.K.Anusha
	12Pm-01Pm	Mentoring students about gratitude, physical activity Parthenium week- Day-2- Effect of Parthenium	Dr.K.Anusha

M. Suresha

### About Parthenium Plant

scientific classification

Kingdom : Plantae  
 clade 1 : Tracheophytes  
 clade 2 : Angiosperms  
 clade 3 : Eudicots  
 clade 4 : Asteroide  
 order : Asterales  
 family : Asteraceae  
 sub family : Asteroideae  
 tribe : Heliantheae  
 sub-tribe : Ambrosiinae  
 Genus : Parthenium  
 species : parthenium hysterophorus


Advantages

Recently many innovative uses of this allopathic plant have been discovered. parthenium hysterophorus confers many health benefits.

- relieves fever skin inflammation.
- rheumatic pain
- diarrhoea
- urinary tract infections

U. Sumantha


### Parthenium Venation : (Boo)



→ It is Congress Grass (Parthenium) plant is "Boo".  
 → Parthenium flowers that are a fast growing, annual herb that produces white flowers

Parthenium bood with five lobes + single plant can produce up to 100,000 seeds.

### Parthenium flower :-



Parthenium is an invasive weed which has multiple negative impacts on human and animal health as well as crop yields and biodiversity

→ small, white, 4mm across, with five distinct lobes, and grows on the stem tips.

→ Parthenium grows during the Parthenium flower spring and summer months, between April & November

→ It grows rapidly to a height of around 15 metres and spreads its seeds fast and wide

Date	Class	Activity	Name of the lecturer
21/08/2024	10Am-11Am	Student disciplinary policy- etiquetes as a student,human ( needs of self and body)	Dr.B.Nageshwari
	11Am-12Pm	Bridge course - Bioanalytical techniques	I.Parnika Sai
	12Pm-01Pm	Assessment of student writing skills- through essay writing task on scope and branches of biotechnology Parthenium week-Day-3- Plant Identification & Collection	I.Parnika Sai Dr.K.Anusha

Date	Class	Activity	Name of the lecturer
22/08/2024	10Am-11Am	NCC - orientation, JKC	Dr.K.Anusha
	11Am-12Pm	Bridge course- Cell biology & Microbiology	Dr.K.Anusha
	12Pm-01Pm	Assessment of thinking ability through quiz on scientists. Parthenium week-Day 4 – Mechanism of action of Parthenium on Lungs	Dr.K.Anusha Dr.B.Nageshwari I.Parnika Sai

Date	Class	Activity	Name of the lecturer
23/08/2024	10Am-11Am	Co-curricular activities (cultural )	Dr.B.Nageshwari
	11Am-12Pm	Bridge course- Immunology	I.Parnika Sai
	12Pm-01Pm	Library tour & ICT tools Usage & Botany Lab Visit & Zoology Lab Visit & Microbiology Lab Visit	Dr.B.Nageshwari Dr.K.Anusha I.Parnika Sai

## About Parthenium Plant

scientific classification

Kingdom	: Plantae
clade 1	: Tracheophytes
clade 2	: Angiosperms
clade 3	: Eudicots
clade 4	: Asteroide
order	: Asterales
family	: Asteraceae
sub family	: Asteroideae
Tribe	: Heliantheae
Sub-tribe	: Ambrosiinae
Genus	: Parthenium
Species	: Parthenium hysterophorus

Advantages

Recently many innovative uses of this highly notorious plant have been discovered. Parthenium hysterophorus confers many health benefits.

- Vandy feet skin inflammation.
- Rheumatic pain
- Diarrhea
- urinary tract infections

Parthenium Venation : (Boo)

→ It is Congress Grass (Parthenium) plant is "Boo".  
→ Parthenium flowers that are 0.5 cm long, and are herb that produces white flowers.

Parthenium bud with five lobes + single plant can produce up to 100,000 seeds.

Parthenium flower :

Parthenium is an invasive weed which has multiple negative impacts on human and animal health as well as crop yields and biodiversity.



→ small, white, 4 mm across, with five distinct lobes, and grow on the stem tips.

→ Parthenium grows during the Parthenium flower spring and summer months, between April & November.

→ It grows rapidly to a height of around 1.5 metres and spreads its seeds far and wide.

Date	Class	Activity	Name of the lecturer
24/08/2024	10Am-11Am	Student disciplinary policy- helping nature, to society, peer interaction	Dr.B.Nageshwari
	11Am-12Pm	Bridge course-Molecular Biology	Dr.K.Anusha
	12Pm-01Pm	Career counselling, Importance of team work & Central Instrumentation Laboratory Visit & Biotechnology Lab Visit	I.Parnika sai





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order	: Asterales
family	: Asteraceae
sub family	: Asteroideae
tribe	: Heliantheae
sub-tribe	: Ambrosiinae
Genus	: Parthenium
Species	: Parthenium hysterophorus

Advantages

Recently many innovative uses of this highly noxious plant have been discovered. Parthenium hysterophorus confers many health benefits.

- Vandy feet skin inflammation.
- Rheumatic pain
- Diarrhea
- urinary tract infections

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Date	Class	Activity	Name of the lecturer
28/08/2024	10Am-11Am	Swoc Analysis, LRSW analysis and Assessment of students speaking and conversational skills by speech on importance of biotechnology in modern days/ Dictation	Dr.K.Anusha Dr.B.Nageshwari I.Parnika Sai
	11Am-12Pm	Bridge course -Plant and Animal Biotechnology	I.Parnika Sai
	12Pm-01Pm	Fine arts department visit and Indoor Stadium Visit- Physical education department (sports)	Dr.K.Anusha I.Parnika Sai



Date	Class	Activity	Name of the lecturer
29/08/2024	10Am-11Am	Oriention about internships (6 months & 2 Months & CSP)	Dr.B.Nageshwari
	11Am-12Pm	Bridge course –Environmental and Industrial Biotechnology	Dr.B.Nageshwari I.Parnika sai
	12Pm-01Pm	Sports day Celebrations – Running for Boys, Kho-Kho and Kabaddi for Girls	Dr.B.Nageshwari I.Parnika Sai





Date	Class	Activity	Name of the lecturer
30/08/2024	10Am-11Am	Human Values and Professional Ethics	Dr.K.Anusha Dr.B.Nageshwari I.Parnika Sai
	11Am-12Pm	Bridge course - Nano biotechnology	I.Parnika Sai
	12Pm-01Pm	Physics lab Visit & Geology Lab visit	Dr.B.Nageshwari Dr.K.Anusha I.Parnika Sai









Date	Class	Activity	Name of the lecturer
31/08/2024	10Am-11Am	Post bridge course evaluation- CAT	I.Parnika Sai Dr.K.Anusha
	11Am-12Pm	Feed back on bridge course And feedback on SIP ( Student Induction Programme)	Dr.K.Anusha I.Parnika Sai Dr.B.Nageshwari
	12Pm-01Pm	Closure Remarks & Peer Interaction	Dr.K.Anusha Dr.B.Nageshwari I.Parnika Sai



## DEPARTMENT OF BIOTECHNOLOGY

**SIP- BRIDGE COURSE SCHEDULE\_2024****CORE ASSESSMENT EVALUATION**

Date	Class time	Activity	Name of the Lecturer
17-08-2024	11am-12pm	Introduction to Bridge course in biotechnology and scope and PRE-TEST for the newly joined students	Dr.B.Nageshwari Dr.K.Anusha I.Parnika
19-08-2024	11am-12pm	Scope and Branches and career opportunities in Biotechnology	Dr.K.Anusha I.Parnika Dr.B.Nageshwari
20-08-2024	11am-12pm	Importance of science and Importance of Biotechnology	I.Parnika Dr.B.Nageshwari Dr.K.Anusha
20-08-2024	11am-12pm	Biomolecules and Importance	Dr.K.Anusha
21-08-2024	11am-12pm	Bioanalytical Techniques	I.Parnika
22-08-2024	11am-12pm	Cell Biology & Microbiology	Dr.K.Anusha
23-08-2024	11am-12pm	Immunology	I.Parnika
24-08-2024	11am-12pm	Molecular Biology	Dr.K.Anusha
27-08-2024	11am-12pm	Genetic Engineering	I.Parnika Dr.B.Nageshwari
28-08-2024	11am-12pm	Plant and Animal Biotechnology	I.Parnika
29-08-2024	11am-12pm	Environmental and Industrial Biotechnology	Dr.B.Nageshwari I.Parnika
30-08-2024	11am-12pm	Nanobiotechnology	I.Parnika
31-08-2024	11am-12pm	Post Bridge evaluation test- CAT and feedback	Dr.B.Nageshwari Dr.K.Anusha I.Parnika