

**IDEAL COLLEGE OF ARTS & SCIENCES**  
(Autonomous, NAAC Accredited B)  
**Dr. PVN RAJU VIDYAPRANGANAM**  
**SAMALKOTA ROAD, KAKINADA**

**DEPARTMENT OF CHEMISTRY**

Value added course for the year 2020-21

**Handling of Reagents**

**UNIT – I**

General Instructions for safe working in organic chemical laboratories – Personal protection, conduct in the laboratory, tidiness and cleanness, accident procedure storage of chemicals in laboratory areas, glassware and waste disposal

**UNIT-II**

General laboratory apparatus.

**UNIT-III**

Planning of experiments and recording of results, calculation of yields

**UNIT-IV**

Hazards in organic chemistry laboratories: explosive compounds, potentially dangerous mixtures, flammable solvents

**UNIT-V**

Reactive inorganic reagents – Strong acids, strong bases, halogens, reactive halides chromates, dichromates.



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SAMALKOTA ROAD, KAKINADA**

## **DEPARTMENT OF CHEMISTRY**

**Value added course for the year 2020-21**

### **Handling of Reagents**

<b>MON</b>	<b>TUE</b>	<b>WED</b>	<b>THU</b>	<b>FRI</b>	<b>SAT</b>
<b>11.15-12.15</b>	<b>11.15-12.15</b>	<b>11.15-12.15</b>	<b>11.15-12.15</b>	<b>11.15-12.15</b>	<b>11.15-12.15</b>



# IDEAL COLLEGE OF ARTS AND SCIENCE (A), KAKINADA.

												9-11-2020						10-11-2020						11-11-2020						12-11-2020						13-11-2020						23-11-2020																						
1	2	3	4	5	6	1	2	3	4	5	6	1	2	3	4	5	6	1	2	3	4	5	6	1	2	3	4	5	6	1	2	3	4	5	6																													
1.	2	0	0	6		B.	B	A	L	A	P	U	J	I	T	H	A	A						P						P						P	P					P						A																
2.	2	0	0	7		A.	B	H	A	R	G	A	V	R	A	M							P						P						P						P						A						P											
3.	2	0	1	3		A.	D	W	I	T	E	S	H	A	R	A	N	I							P						P						P						P						P						P									
4.	2	0	1	5		P.	G	O	N	T	H	A	M							A						P						P						P						P						A														
5.	2	0	1	6		N.	G	O	W	T	H	A	M	S	R	I							P						P						P						P						P						A											
6.	2	0	1	9		P.	J	A	H	N	A	V	I	S	A	T	Y	A							P						P						A						P						P						P									
7.	2	0	2	1		K.	J	O	S	T	H	N	A	R	A	N	I							P						P						P						P						A						P										
8.	2	0	3	0		P.	M	O	U	N	T	K	A	V	I	J	A	Y	A							A						P						P						P						A						P								
9.	2	0	3	1		Y.	N	A	G	A	D	U	R	G	A							A						P						P						P						P						A												
10.	2	0	3	9		K.	R	A	M	Y	A	V	A	I	S	H	N	A	V	I							P						P						P						P						P						P							
11.	2	0	4	4		S.	S	A	I	L	A	K	S	H	M	I							P						P						P						A						P						P											
12.	2	0	4	7		P.	S	A	N	D	E	E	P													P						P						A						P						P														
13.	2	0	2	3		N.	L	A	L	I	T	H	A	N	I	R	A	N	J	A	N	A							A						P						P						P						A						P					
14.	2	0	3	7		K.	R	A	J	E	S	H													P						P						P						P						P															
15.	2	0	4	9		S.	S	I	R	I	V	A	R	A	L	A	K	S	H	M	I							P						P						P						P						A						P						
16.	2	0	5	0		Ch.	S	I	R	I	S	H	A													P						P						P						P						P						A								



# IDEAL COLLEGE OF ARTS AND SCIENCE (A), KAKINADA.

24-11-2020		25-11-2020		26-11-2020		14-12-2020		15-12-2020		16-12-2020		5-01-2021		6-01-2021		7-01-2021		27-01-2021		28-01-2021		29-01-2021		05-02-2021		04-02-2021			
1	2	3	4	5	6	1	2	3	4	5	6	1	2	3	4	5	6	1	2	3	4	5	6	1	2	3	4	5	6
P		P		A		P		P	P			A		P		P		A		P	P		P		P				
A		A		P		P		P		P		A		P		P		P		P	P		P		P				
P		P		A		P		P		P		P		P		P		A		P	P		P		A				
P		P		P		A		P		P		A		A		P		P		P	A		P		P				
A		P		A		P		P		P		P		P		P		A		A		P		P		A			
P		P		P		P		A		P		P		P		P		A		P	P		P		P				
P		A		P		P		P		P		A		P		P		P		P	P		P		A		P		
P		P		P		P		A		P		P		P		P		P		P	P		P		P		A		
P		A		P		P		P		P		P		A		A		P		P	P		P		P				
A		P		P		P		P		P		A		P		P		P		P	P		P		P		A		
A		A		A		P		P		P		P		A		P		P		P	P		A		P		A		
P		P		P		P		P		P		A		P		P		P		P	P		A		P		P		
P		P		P		P		P		P		P		A		P		P		P	P		A		P		P		
P		P		P		P		P		P		P		A		P		P		P	P		A		P		P		
P		P		P		P		A		P		P		P		P		A		P	P		A		P				
A		P		P		P		P		P		P		P		P		P		P	A		P		P		P		
P		P		A		P		P		A		P		A		P		A		P	P		A		P				



# IDEAL COLLEGE OF ARTS AND SCIENCE (A), KAKINAD

													9-11-2020						10-11-2020						11-11-2020						12-11-2020						13-11-2020						23-11-2020					
	1	2	3	4	5	6	1	2	3	4	5	6	1	2	3	4	5	6	1	2	3	4	5	6	1	2	3	4	5	6	1	2	3	4	5	6	1	2	3	4	5	6						
17.	2	0	6	3	M.	TEJA							P	P	A				P	P	A				P	P	A				P	P	A				P	P	A									
18.	2	0	7	5	M.	VIJAY KUMAR							A	P	P				P	P	P				P	P	A				P	P	A															
19.	2	0	7	7	M.	YAMUNA SATYA PRAVALI													A	P	P				P	P	P				P	P	A															
20.	2	0	8	3	G.	MANNE SWAMY							P	P	P				P	P	P				A	P	P				P	P	P															
21.	2	1	0	9	G.	HEMA							P	P	P				P	P	P				P	P	P				P	P	A															
22.	2	1	1	2	P.	KIRAN KUMAR							P	A	P				P	A	P				P	A	P				P	A	P															
23.	2	1	1	3	T.	LAKSHMI PRASANNA							P	P	P				P	P	P				A	P	P				P	P	P															
24.	2	1	2	2	P.	RAMBABU							P	P	P				P	P	P				P	A	A				P	A	A															
25.	2	1	2	5	T.	SATISH							A	A	P				A	A	P				P	P	A				P	P	A															
26.	2	1	2	8	Ch.	SIVASANKAR							A	P	P				A	P	P				P	P	A				P	P	A															
27.	2	1	3	6	P.	VAMSI							P	P	A				P	P	A				P	P	A				P	P	A															
28.	2	1	4	3	S.	V.V LAKSHMI							P	P	A				P	P	A				P	P	P				P	P	P															
29.	2	1	4	7	Ch.	VIJAY							P	P	P				P	P	P				P	P	P				P	P	P															
30.	2	5	0	1	G.	BHAVANI							A	P	A				A	P	A				P	P	P				P	P	P															
31.	2	5	1	1	K.	KANAKA LAKSHMI							P	P	P				P	P	P				P	A	P				P	A	P															
32.	2	5	1	8	K.	M.KEERTHANA							P	P	P				P	P	P				A	P	P				P	A	P															



# IDEAL COLLEGE OF ARTS AND SCIENCE (A), KAKINADA.

	09-11-2020						10-11-2020						11-11-2020						12-11-2020		13-11-2020		23-11-2020	
	1	2	3	4	5	6	1	2	3	4	5	6	1	2	3	4	5	6	1	2	3	4	5	6
33.	2	5	2	3	K.	NISSY						P	P	P				A		P		P		
34.	2	5	2	4	J.	POORNIMA						P	P	P				P		A		P		
35.	2	5	3	0	N.	SUPRIYA						A	P	P				A		P		P		
36.	2	5	3	1	J.	SURESH						P	P	A				P		P		A		
37.	2	6	0	8	P.	DHARMA TEJA						P	P	A				P		A		P		
38.	2	6	2	4	N.	SWAMI						P	A	P				P		P		A		
39.	2	5	3	7	K.	VENNELA						P	A	P				P		P		P		
40.	2	0	2	2	V.	KEERTHANA						A	P	P				A		P		P		
41.	2	0	2	9	P.	MOUKTHIKA						P	P	P				P		A		A		
42.	2	0	7	9	T.	RAMTARUN						A	P	A				P		P		P		



# IDEAL COLLEGE OF ARTS AND SCIENCES

(A.P.Govt., Aided., Autonomous & NAAC B)

**Dr. P.V.N. RAJU VIDYAPRANGANAM**

Samalkot Road, KAKINADA  
DEPARTMENT OF BOTANY

Value added course on  
**SEED TECHNOLOGY**

## SYLLABUS

### UNIT I

#### General Introduction:

- Seed Definition – Difference between seed and grain.
- Seed as a basic input in agriculture.
- Role of high quality seed in increasing and sustaining crop production.
- Seed quality concept, quantity control in seed production characteristics of sowing quality seeds.
- Mode of reproduction in relation to seed production – classification of crops plants in relation of mode reproduction and choice of methods for seed production.

### UNIT II

#### Development & Training of varieties:

- System of breeding and testing of crop varieties and hybrids in self, often and cross pollinated crops.
- System of release and notification of varieties for general cultivation.

#### Varietals purity and its maintenance:

- Genetic purity of varieties – concepts.
- Life span of varieties and factors responsible for their deterioration.
- Methods of maintenance of genetics purity and techniques of maintenance breeding.
- Generation system of seed multiplication.
- System and methods of production of nucleus, breeder, foundation and certified seed.

### UNIT III

#### Flowering & Seed Production:

- Flowering in crop plants, its modification for hybrid seed production.
- Factors affecting seed set – temperature, relative humidity, day length, wind velocity and directions of flowering, anthesis, pollen viability, stigma receptivity, nutrition and irrigation

#### Male Sterility & Self Incompatibility

- Male sterility, its genetics and use in hybrid seed production.
- Self incompatibility – its genetics and use in hybrid seed production.



S.No.	Admission No.	Name of the Pupil	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15
2182501	A. Anjali		01/9/2021		08/9/21		15/9/21		22/9/21		29/9/21		30/9/21				06/10/21
			P		P		P		P		P		P				P
2182505	V. Harikaraj																
			P		P		P		P		P		P				
2182512	B. Praveenkumar																
			P		P		P		P		a		a				
2182513	T. Raghavendra																
			P		P		P		P		P		P				
2182520	M. Suresh Kumar																
			P		P		P		P		P		P				
2182527	Mohammad Rizwana																
			a		P		P		P		a		P				
2182530	Y. Sri. N. Pawanesh																
			a		a		P		P		P		a				
2182531	B.K.N. Kumar																
			P		P		a		P		P		P				
2182532	K. Rakswari																
			P		P		P		P		P		P				
2182601	N. Brahmaji																
			a		a		P		P		P		P				
2182602	P. Chandra Lokesh																
			P		P		P		P		P		P				
2182603	S. Mahesh Babu																
			P		P		P		P		P		P				
2182605	G. Durga Babu																
			P		P		P		P		P		P				
2182607	B. Sri Durga Srinivasu																
			P		P		P		P		a		a				

Number Present M  
Daily E  
Initials M  
E







# **Value Added Course On Plant Propagation and Nursery Management**

**Academic Year 2020-21**

**Department of Botany**

## **Syllabus**

### **1. Basics of Nursery Management**

- Introduction to Nursery and Identification of Plants
- Plant Propagation-Methods and Classifications
- Factors affecting Plant Growth
- Plant Growth Regulators
- Introduction to Landscaping
- Lawn Making

### **2. Seed Propagation**

- Seed as Propagule
- Germination of Seeds
- Seed Dormancy and viability



- Seed Production- Methods of collection, processing etc
- Hybrid seeds Production
- Seed Treatment
- Classes of Seed
- Seed Testing
- Artificial Seeds

### **3. Seed Propagation**

- Propagation through Stolons, runners, Offsets, bulbs, Corms, Rooted Crowns, division, Cuttings
- Grafting and budding
- Root Stock-Scion Relationship
- Special practices in Nursery management
- Micro-Propagation (tissue Culture/ In-Vitro Culture)
- Apomixis and polyembryony

### **4. Commercial nursery management**



- Nursery – site selection ,layout , records
- Nursery structures
- Potting, repotting
- Nursery management of major crops
- Progeny Orchard
- Problems in nursery management and its control
- Agri – enterprises – stages of establishing enterprise, Project Identification ,step to be considered in setting up an enterprise, Feasibility report, Product selection.



S.No.	Admission No.	Name of the Pupil	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15
2182501		A. Anjali		01/9/2021		08/9/21		15/9/21		22/09/21		29/09/21		30/9/21		06/10/21	
			P		P		P		P		P		P		P		P
2182505		V. Harikaraji	P		P		P		P		P		P				
2182512		B. Praveenkumar	P		P		P		P		A		A				
2182513		T. Raghavendra	P		P		P		P		P		P				
2182520		M. Suresh Kumar	P		P		P		P		P		P				
2182527		Mohammad Rizwana	A		P		P		P		A		P				
2182530		Y. Sri. N. Pawanesh	A		A		P		P		P		A				
2182531		B.K.N. Kumar	P		P		A		P		P		P				
2182532		K. Malkswari	P		P		P		P		P		A				
2182601		N. Brahmasi	A		A		P		P		P		P				
2182602		P. Chandra Jakesh	P		P		P		P		P		P				
2182603		S. Mahesh Babu	P		P		P		P		P		P				
2182605		G. Durga Babu	P		P		P		P		P		P		A		
2182607		B. Sri Durga srini -vasu	P		P		P		P		A		A				
Number Present M																	
Daily E																	
Initials M																	
E																	



NAME OF THE INSTITUTE

## PUPIL'S ATTENDANCE REGISTER

S.No.	Admission No.	Name of the Pupil	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15
2182608		G. Sri Lekha		0/9/21		8/9/21		15/9/21		22/9/21		29/9/21		30/9/21		06/10/21	
			P	P	P	P	P	P	P	P	P	P	P	P	P	P	P
2182609		S. Vamsi		a	a		P		P		P		a		a		a
			a	a	a	a	a	a	a	a	a	a	a	a	a	a	a
2182610		S. L. Pravalikha		a	a		a		a		P		P		a		a
			P	P	P	P	P	P	P	P	P	P	P	P	P	P	P
2182611		A. S. Sai Ram		P	P		P		P		P		a		a		a
			P	P	P	P	P	P	P	P	P	P	P	P	P	P	P
2182612		G. Ravi		P	P		P		P		P		P		P		P
			P	P	P	P	P	P	P	P	P	P	P	P	P	P	P
2182613		Y. V. Dora Babu		P	P		P		P		P		P		P		P
			P	P	P	P	P	P	P	P	P	P	P	P	P	P	P
2182614		G. Anil Kumar		a	P		a		P		P		a		P		P
			a	a	a	a	a	a	a	a	a	a	a	a	a	a	a



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Dr. PVN RAJU VIDYAPRANGANAM  
SAMALKOTA ROAD, KAKINADA

DEPARTMENT OF ZOOLOGY

VALUE ADDED COURSE: 2020 - 21

SYLLABUS: COMPARATIVE ANATOMY AND FUNCTIONAL ORGANIZATION  
OF INVERTEBRATES AND VERTEBRATES

Duration: 30 Hours

Unit - I

- 1.0. Origin of coelom
- 1.1. Acoelomates, Pseudocoelomates
- 1.2. Coelomates: Prostomia and Deuterostomia
  
- 2.0. Excretion
- 2.1. Organs of excretion: Coelom, Coelomoducts, Nephridia and Malphigian tubules.
- 2.2. Mechanism of excretion.

Unit - II

- 3.0. Vertebrate integument and its derivatives
- 3.1. Development, general structure and function of skin and its derivatives
- 3.2. Glands, scales, horns, claws, nails, hoofs, feathers and hairs
  
- 4.0. General plan of circulation in various groups
- 4.1. Blood
- 4.2. Evolution of heart
- 4.3. Evolution of aortic arches and portal systems

Unit - III :

- 5.0. Nervous system and Urino-genital system.
- 5.1. Evolution of urino-genital system in vertebrates.
- 5.2. Comparative anatomy of the brain in relation to its functions.
- 5.3. Nerves-cranial, peripheral and autonomous nervous systems.
  
- 6.0. Electric organs & Receptors.
- 6.1. Simple receptors- types of Receptors, Primary and secondary receptors.
- 6.2. Chemoreception- Organs of Olfaction and taste
- 6.3. Lateral line system and lateral line organs of fish- Neuromast organs.



# IDEAL COLLEGE OF ARTS AND SCIENCE (A), KAKINADA

													2-9-21						9-9-21						16-9-21						23-9-21						30-9-21						1-10-21					
	1	2	3	4	5	6	1	2	3	4	5	6	1	2	3	4	5	6	1	2	3	4	5	6	1	2	3	4	5	6	1	2	3	4	5	6	1	2	3	4	5	6						
1.	2	1	8	2	5	01	Amaradi	anjali					P						a						P						a						P											
2.	2	1	8	2	5	05	Vuram	Harikaji					a						P						P						P						P											
3.	2	1	8	2	5	12	Boroga	Aaveen	Kumar				P						a						P						a						P											
4.	2	1	8	2	5	13	TeKi	Raghavendra											P						P						P						P											
5.	2	1	8	2	5	20	masabattula	Suresh	Kumar				P						P						a						P						a											
6.	2	1	8	2	5	27	mohammad	Rizwan					a						P						P						P						P											
7.	2	1	8	2	5	30	Yanamad	Sinagar	bandra Pawansh				P						P						a						a						P											
8.	2	1	8	2	5	31	Buswa	Kishna	Vagcer	Kumar			a						a						P						a						P											
9.	2	1	8	2	5	32	Kudupudi	Malleswari					P						P						a						P						P											
10.	2	1	8	2	6	05	Gokeda	Naga	Durgabhai				a						a						P						a						P											
11.	2	1	8	2	6	07	Bondada	Sri	Durga	Srinivas			P						P						a						P						P											
12.	2	1	8	2	6	11	Atapaka	Siva	Sai	Ram			P						a						a						a						P											
13.	2	20	04	0	25	01	Gampala	Bhavani					P						a						a						P						P											
14.	2	20	04	02	53	9	Poti	Isani	Satya	Sri			P						P						a						P						P											
15.	2	20	04	02	52	4	Janipalli	Poornima					P												a						P						P											



# IDEAL COLLEGE OF ARTS AND SCIENCE (A), KAKINADA

													2-9-21		9-9-21		16-9-21		23-9-21		30-9-21		01-10-21		
	1	2	3	4	5	6	1	2	3	4	5	6	1	2	3	4	5	6	1	2	3	4	5	6	
17.	2200402507	Chakka	Gaundhama	P	P	P	P	P	P	P	P	P	P												
18.	2200402519	Tatapudi	mounika	a	P	P	a	P	P	a	P	P	P												
19.	2200402506	Nasa	Ganga Kumer	P	P	P	P	P	P	P	P	P	P												
20.	2200402531	Jagu	Suresh	a	P	P	P	P	P	a	P	P	P												
21.	2200402524	Namsa	Swamy	a	P	P	P	P	P	P	P	P	P												
22.	2192603	peddireddi	Anirudh	P	P	a	a	a	P																
23.	2192606	mediseti	Archana	P	P	P	P	P	P	P	P	P	P												
24.	2192609	Bandsru	Gangaraju	a	P	P	a	P	P																
25.	2192617	Pedapatruni	naveenkumer	P	a	P	a	P	a	P	a														
26.	2192619	Reddy	Rajunscript	a	P	P	P	P	P	P	P														
27.	2192622	Palivele	Sarjaya	P	P	P	P	a	P																
28.	2192620	Beera	Rajesh	P	a	P	P	a	P																
29.	2192624	Kuniseti	Siva	P	P	a	a	P	P																
30.	2192625	Pallela	Somi Reddy	a	P	P	a	P	a	P	a														
31.	2192502	P. A. J. ITH	Kumara	P	a	P	P	a	P																



# IDEAL COLLEGE OF ARTS AND SCIENCE

													16-9-21		23-9-21		30-10-21		01-11-21					
	1	2	3	4	5	6	1	2	3	4	5	6	1	2	3	4	5	6	1	2	3	4	5	6
33.	2	1	9	2	5	43	P.S. D. Prasad						P		P		P		A		P		P	
34.	2	1	9	2	5	30	A. Ramprasad						P	P	P		P		A		A			
35.	2	1	9	2	5	33	P. Ramana reddy						P		P		P		P		P		P	
36.	2	1	9	2	5	34	D. Rameyyamma						A		A		A		P		P		P	
37.	2	1	9	2	5	39	U S H A R A M.						P		P		P		P		A		A	
38.	2	1	9	2	6	02	V. Akshya						P		P		P		P		P		P	
39.	2	1	9	2	6	03	P. ANRUDH						P		P		P		A		A		P	
40.	2	1	9	2	6	08	P. Durga Kumar						P		P		P		P		P		P	
41.	2	1	9	2	6	18	G. N A Y A N A						P		P		P		A		A		P	
42.	2	1	9	2	6	27	N. Surendra						P		P		P		P	P	P		P	
43.	2	1	9	2	6	29	K. Suresudha						P		P		P		A		P		P	
44.	2	1	9	2	6	30	S. Vandana						A		A		P		P		P		P	
45.	2	1	9	2	6	31	V. Vani Anja Lakshika						P		P		P		P		P		P	
46.	2	1	9	2	6	32	S. Veera Varahelu.						P		P		P		P		P		P	
47.	2	1	9	2	5	29	N. RAJU						P		P		P		P		P		P	



**IDEAL COLLEGE OF ARTS AND SCIENCES**  
**(Autonomous & NAAC B)**  
**Dr . P V N RAJU VIDYAPRANAGANAM**  
**Samalkot Road, KAKIANDA**

**Value Added Course**  
**SKILL DEVELOPMENT COURSES**  
**Academic Year 2020-21**  
**Department of HISTORY**  
**Syllabus**

**Unit – I : TOURISM**

Tourism – What is Tourism – Characteristics of Tourist Places – Guidance in Tourism – Meaning of Guidance – Types of Tour Guidance – Government / Department Regulations

**Unit – II : TYPES OF GUIDES**

Types of Guides – Characteristics of a Guide – Duties and Responsibilities of a Guide – The Guiding Techniques – Guide's personality – Training Institutions – License. Leadership and Social Skills – Presentation and Communication Skills – Working with different age and linguistic groups – Working under difficult circumstances – Precautions at the site – Relationship with Fellow Guides and Officials.



## **Unit – III : GUEST RELATIONSHIP MANAGEMENT**

Guest Relationship Management – Personal and Official – Arrangements to Tourists – Coordinating transport -- VISA / Passport – Accident / Death – Handling Guests with Special Needs / Different Abilities – Additional skills required for Special / Adventure Tours – Knowledge of Local Security and Route Chart – Personal Hygiene and Grooming – Checklist – Code of Conduct



# IDEAL COLLEGE OF ARTS AND SCIENCES

(Autonomous & NAAC B)

Dr. P.V.N. RAJU VIDYAPRANGANAM

Samalkot Road, KAKINADA

## III B.A. HISTORY

SL.N O	ADMN. NO	ROLL. NO	NAME OF THE STUDENT	PHONE NO	SIGNATURE
1	21806	2191001	ADARSH BATHULA	9603071406	
2	21650	2191005	BALA SWARAJ GEDDADA	8179291625 7997911168	
3	21598	2191008	CHANDRA BRUVAN NEELAPU	9848820098 7981075177	
4	21548	2191011	CHIRAN JEEVI DADALA	7287057890	
5	21626	2191016	DIVYA PRASAD KALAGAPUDI	7981805280 7673933419	
6	21634	2191024	HEMA LATHA MANGAM	7981954592	
7	21805	2191027	LEELA PRAVEEN KUMAR NURUKUR	7815891699	
8	21616	2191028	MADHU SRINIVAS ANDUBOYINA	9666002803	
9	21566	2191039	RAJESH BEERA	7288820413	
10	21568	2191040	RAJESH MOTUKURI	9866532729	
11	21454	2191041	RAJESH URUMU	8367699219	
12	21641	2191042	RAJU MARADA	9398257565	
13	21790	2191045	SADHA SIVA PEKETI	9182184788	
14	21510	2191050	SIVA RAMA KRISHNA VANAMADI	6301251297	
15	21453	2191058	SWAMI KALYANAPU	7997682481	
16	21642	2191059	SWAROOP KUMAR KANDIKATLA	7095710210	
17	21625	2191060	SYAMALA DEVI SEELAM	7569441595	
18	21373	2191062	VAMSI KARTHEEKA	7794877332	
19	21673	2191068	VIJAY KUMAR PASUPULETI	8955119507	



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# Pupils Attendance Register

1	2	3	4	5														
				1	2	3	4	5	6	7	8	9	10	11	12	13		
21806	1.	Adarsh. B						a		a								
21650	2	Baleswaraj. G.								a								
21598	3	Chandrabhuvan. N								a			a					
21548	4	Chiranjeevi. D																
21626	5	Divya Prasad. K						a										
21634	6	Hemalatha. M																
21805	7	Leela praveen Kumar. N											a					
21616	8	Madhu Srinivas. A																
21566	9	Rajeshu Beera																
21568	10	Rajeshu. M																
21454	11	Rajeshu. U.																
21641	12	Raju. M																
21790	13	Sadasiva. P																
21510	14	Sivaramakrishna. V.											a					
21453	15	Sivani. K.											a					
21642	16	Swaroop Kumar. K											a					
21625	17	Syamaladevi. S																
21373	18	Vamsi Kartheeka																
21673	19	Vijay. Kumar P																

Sept.  
 9/9/21  
 16/9/21  
 23/9/21  
 30/9/21







**Value Added Course on**  
***R Programming Language***  
**Department of Mathematics**  
**Syllabus**

**1. Fundamentals of R Language**

1. About R tutorial
2. Introduction to R
3. About R, Do & Don't
4. Why R programming Language

**2. Overview of R Language**

1. General Properties
2. First Program - Hello World
3. Core Characteristics

**3. Operators in R Language**

1. Operator Introduction
2. Arithmetic Operators
3. Relational Operators
4. Logical Operators
5. Assignment Operators
6. Miscellaneous Operators











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# Pupils Attendance Register

1	2	3	4	5													
				1	2	3	4	5	6	7	8	9	10	11	12	13	
233		Jagadam Rahul		a	a	a	a	a	a	a	a	a	a	a	a	a	a
234		Mediseti Ratnamraju		1	a	a	a	a	a	a	a	a	a	a	a	a	a
235		Crubbala Rithitha		1	a	a	a	a	a	a	a	a	a	a	a	a	a
236		Bhupathi Robin James		1	a	a	a	a	a	a	a	a	a	a	a	a	a
237		Dulla Sai praseeda		a	1	a	a	a	a	a	a	a	a	a	a	a	a
239		Kanugonda sandeep kumar		1	a	a	a	a	a	a	a	a	a	a	a	a	a
240		Dona Sahib		1	a	a	a	a	a	a	a	a	a	a	a	a	a
241		Tinumalasetti Sriram		a	a	a	a	a	a	a	a	a	a	a	a	a	a
242		Thummabpalli Sri Satyanarayana		1	a	a	a	a	a	a	a	a	a	a	a	a	a
243		Baddila Srinivas		a	a	a	a	a	a	a	a	a	a	a	a	a	a
244		Kokkiligadda Srinivas		a	1	a	a	a	a	a	a	a	a	a	a	a	a
245		Oleti Srinivas		1	1	a	a	a	a	a	a	a	a	a	a	a	a
246		Jivi-reddi Srinu		a	a	a	a	a	a	a	a	a	a	a	a	a	a
247		Crumpalli sunil kumar		1	a	a	a	a	a	a	a	a	a	a	a	a	a
248		Crubbala tarunbabu		a	1	a	a	a	a	a	a	a	a	a	a	a	a
249		Dharmavarepu veerababu		1	1	a	a	a	a	a	a	a	a	a	a	a	a
250		Kadali veera venkata Ramana		a	a	a	a	a	a	a	a	a	a	a	a	a	a
251		Kammidi Venkata Kumar		1	a	a	a	a	a	a	a	a	a	a	a	a	a
252		Mandala Venkata Ramana		1	1	a	a	a	a	a	a	a	a	a	a	a	a
253		Pilli Venkata Siva Durga		1	1	1	1	1	1	a	a	a	a	a	a	a	a
254		weelapala Venugopal		1	a	a	a	a	a	a	a	a	a	a	a	a	a
255		Kotikalapudi vijay kumar		1	1	1	1	1	1	1	1	a	a	a	a	a	a

ఉదయము హాజరు : బాలురు  బాలికలు   
 ఉపాధ్యాయుని సంతకం.  
 సాయంత్రం హాజరు : బాలురు  బాలికలు   
 ఉపాధ్యాయుని సంతకం.



# పిల్లల హాజరుపట్టి

రోజుల సంఖ్య.....  
 నగటు హాజరు.....

														6						
14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	హాజరైన దినములు		
																	బాలురు	బాలికలు		
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# IDEAL COLLEGE OF ARTS & SCIENCES: KAKINADA

(A.P. Govt. Aided, Autonomous, NAAC Accredited B, Affiliated to ANU-R)

## Department of Computer Science

### Web Designing Syllabus

#### Unit-I: Computer Basics

10 hrs

Computer definition – Types of Computer – Logical Organization of a Digital Computer – Memory: Main Memory: RAM, ROM and Cache – Secondary Memory: Magnetic type, Floppy disk, Hard disk, Compact disk – Input devices – Output devices – Operating system: Definition, functions of an operating system, Types of Operating systems : Brief details of batch processing, Multi Programming, multi-tasking, time sharing, real time operating systems – Introduction to Windows, Desktop, File, Folder, My Computer, My documents, Recycle bin, Internet Explorer, Windows Explorer – Types of Programming Languages.

#### UNIT-II: HTML Basics

18 hrs

Introduction: Internet Technologies: Internet Browsers

Introduction: HTML, XML, and the World Wide Web.

HTML: Basic HTML, The Document body, Text, Hyperlinks, Adding more formatting, Lists, Tables, Using colors and images, Images.

More HTML: Multimedia objects, Frames, Forms-towards interactivity, The HTML document Head in detail, XHTML- An evolutionary markup.

#### UNIT-III: Introduction to the Style Sheets and Java Scripts.

18 hrs

Cascading Style Sheets: Introduction, Using styles, Simple examples, Defining your own styles, Properties and values in styles, Style sheets- A worked example, Formatting blocks of information, Layers.

An introduction to Java Script: What is dynamic html, Java Script, Javascript—The basics, Variables, String manipulation, Mathematical functions, Statements, Operators, Arrays, Functions.

#### UNIT-IV: Objects in Java Script and DHTML.

18 hrs

Objects in Java Script: Data and objects in java script, Regular expressions, Exception Handling, Built-in objects, Events.

Dynamic HTML with Java Script: Data validation, Opening a new window, Messages and Confirmations, The status bar, writing to a different frame, Rollover buttons, Moving images, multiple pages in a single download, A text-only menu system, Floating logos.

#### UNIT-V: ASP and XML.

18 hrs

Active Server Pages and Java: Active Server Pages, Java.

XML: Defining Data for Web applications: Basic XML, Document type definition, XML schema, Document Object Model, Presenting XML

#### Reference Books

- HTML Complete – Sybex (BPB)
- Mastering HTML 4 Premium Edition – Ray (BPB)
- HTML Example Book – Farrar (BPB)
- Mastering WEB DESIGNING – Maccoy (BPB)
- Learn Advanced HTML with DHTML – Ramalho (BPB)
- Effective Web Design – Navarro (BPB)



IDEAL COLLEGE OF ARTS & SCIENCES (A)::KAKINADA  
Department of Computer Science  
Add on Course: WEB DESIGNING  
Student Registration/Nominal Roll

1	2182203	Amrutha Yakkala
2	2182204	Anil Kumar Boddu
3	2182205	Anil Kumar Neelapu
4	2182206	Anusha Erugula
5	2182207	Arun Kumar Koppiseti
6	2182208	Ashok Kumar Moyyeti
7	2182209	Bhairava Swamy Kamadi
8	2182210	Chandra sekhar Bandaru
9	2182212	Deepak Petla
10	2182213	Dhana Lakshmi Pandiri
11	2182214	Gitendra siva Ashok Pappala
12	2182215	Jyothi Veera Venkata Durga Anmisha Gonthina
13	2182216	Karthik Dunna
14	2182217	Keerthi Pulla
15	2182218	Kowshik Kotha
16	2182219	Kumari Darapu
17	2182220	Lazarus Raju Golla
18	2182221	Lokesh Kumar Kalla
19	2182223	Mani Kondala Rao Sunkara
20	2182224	Manikanta Sudheer Guptha Vellampalli
21	2182225	Naguru Babu Malladi
22	2182227	Neeraja Mediseti
23	2182228	Niharika Uppuluri
24	2182229	Rajesh Surada
25	2182230	Raju Seelam
26	2182231	Ramesh Pabbineedi
27	2182232	Ramyra Chintala
28	2182233	Rushikesh Raju Pandu Raju
29	2182234	Sai Mahesh Pandurekula
30	2182235	Sai Manikanta Barre
31	2182236	Sai Ranjith Teja Kunchangi
32	2182237	Sai Suresh Gajji
33	2182238	Samuel Mortha
34	2182239	Sandeep Madem
35	2182242	Sita Mahalakshmi Madem



IDEAL COLLEGE OF ARTS & SCIENCES (A)::KAKINADA  
Department of Computer Science  
Add on Course: WEB DESIGNING  
Student Registration/Nominal Roll

36	2182243	Sri Ram Kopanathi
37	2182244	Sri Satya Siddhu Jagadish Ranganadham
38	2182245	Srinu Kamadi
39	2182246	Sudheer Sadhanala
40	2182247	Sulthan Mohiddin Shaik
41	2182248	Sunitha Jakka
42	2182249	Tataji Malladi
43	2182250	Uday Prakash Kakara
44	2182251	Venkata Lakshmi Tangella
45	2182252	Venkata Satyanarayana Durga Prasad Marra
46	2182253	Venkatesh Madhavarapu
47	2182254	Vijaya Kumar Jeeri
48	2182255	Vishnu Vardhan Savalarapu
49	2182257	Yedukondalu Rekadi
50	2182258	Udaya Subhash Vanga



**IDEAL COLLEGE OF ARTS & SCIENCES: KAKINADA**  
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**Department of Computer Science**

**Paper Title : Computer Skills**

**UNIT – I**

**Task-1 - Assembling a Personal Computer**

Detailed demonstration of disassembling and assembling of a PC should be given by the instructor. Lab instructors should verify the work and follow it up with a viva. Also students need to go through the video which shows the process of assembling a PC. A video would be given as part of the course content.

Every student should disassemble and assemble the PC back to working condition.

**UNIT – II**

**Task-2 - Windows XP Installation**

Detailed demonstration of Windows XP installation should be given by the instructor. Every student should individually install MS Windows on the personal computer. Lab instructor should verify the installation and follow it up with a viva.

**Task-3 - Linux Installation**

Detailed demonstration of Linux installation should be given by the instructor. Ultimately the system should be dual boot with Windows XP and Linux.

Every student should install Linux on the computer. This computer should have Windows installed. The system should be configured as dual boot with both Windows and Linux. Lab instructors should verify the installation and follow it up with a Viva.

**UNIT – III**

**Task-4 - Basic Commands in Linux**

Basic system administration in Linux which includes:

Basic Linux commands in bash, Create hard and symbolic links, Text processing,  
Using wildcards

**Reference Books**

1. Comdex Information Technology course tool kit Vikas Gupta, WILEY Dreamtech.
2. The Complete Computer upgrade and repair book, Cheryl A Schmidt, WILEY Dreamtech.
3. Introduction to Information Technology, IITL Education Solutions limited, Pearson Education.



IDEAL COLLEGE OF ARTS & SCIENCES (A)::KAKINADA  
Department of Computer Science  
Add on Course: COMPUTER SKILLS  
Student Registration/Nominal Roll

S.No.	Roll No.	Name of the Student
1	2200402201	AJAY KUMAR VISWASULA
2	2200402202	AKASH ADLA
3	2200402203	AMULYA GOROINTA
4	2200402204	ASHOK MADUGULA
5	2200402205	CHAITANYA KUMAR KOPPISETTI
6	2200402206	CHINNA NADIGATLA
7	2200402207	DATTA VENKATA SIVA SATYANARAYANA MAJJI
8	2200402208	DEVI VENKATA SATYA DURGA BHAVANI PYLA
9	2200402209	DINESH VEERENDRA NALAM
10	2200402210	DIVYA IJJAPU
11	2200402211	DIVYA SRI VASAMSETTI
12	2200402212	DURGA MANIKANTA PRASAD PRASADULA
13	2200402213	DURGA PRASAD AKULA
14	2200402214	DURGA PRASAD MAKKA
15	2200402215	ESWARA RAO DUNGA
16	2200402216	GUNA SEKHAR KALADI
17	2200402217	HARATHI GOWRI CHEEPURI
18	2200402218	KRISHNA PARVATHI GORAKAPUDI
19	2200402219	LAKSHMAN KOPPANA
20	2200402220	LAKSHMI DURGA BAI RAMAVATH
21	2200402221	LOKESH PALIVELA
22	2200402222	MAHESH KORUPROLU
23	2200402223	MANOJ SAI NURUKURTHI
24	2200402224	MOHAN VENKATARAJU UNDAVILLI
25	2200402225	NAGA SANDEEP MUTYALA
26	2200402226	NANDINI KORUPROLU
27	2200402227	NAVEEN PANPOTHI
28	2200402228	NITHEESH KUMAR BODAPATI
29	2200402229	PRADEEP KUMAR SINGAM
30	2200402230	RAJESH ANKAM REDDY
31	2200402231	RAMU KOPPISETTI
32	2200402232	ROOPA KOPPISETTI
33	2200402233	SAI TATABBAI GARAGA
34	2200402234	SAMYUKTHA SIRIMISSETTY



IDEAL COLLEGE OF ARTS & SCIENCES (A)::KAKINADA  
Department of Computer Science  
Add on Course: COMPUTER SKILLS  
Student Registration/Nominal Roll

S.No.	Roll No.	Name of the Student
35	2200402235	SANKARA SAI NANDAN MULAMPAKA
36	2200402236	SANTHI RAJU DIMMALA
37	2200402237	SANYASI RAO SAITINI
38	2200402238	SIVA RAMA KRISHNA KOTA
39	2200402239	SNEHANJALI THOTAKURA
40	2200402240	SRI KALA DURGA KONDETI
41	2200402241	SURENDRA REVURI
42	2200402242	SURYAKALA MANDA
43	2200402243	V D G M L JAHNAVI VENDURTI
44	2200402244	VARAHA GOWRI INDU POLUPARTHI
45	2200402245	VEERA PRABHAKARA RAO CHAVVAKULA
46	2200402246	VEERA VENKATA SATYANARAYANA VINJAMURI
47	2200402247	VEERABHADRA VINAY KARRI
48	2200402248	VENKATA SATYA SAI VISWANADHULA
49	2200402249	VINAY KUMAR PALIVELA
50	2200402250	VIVEK GORLA
51	2200402251	VEERESH DHARANIKOTA
52	2200402252	RUDRASRI SRI SATYA GOVIND SAI PADALA
53	2200402253	SATYA VENKATESH VADLAMURI



Roll No

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54 X X X X X X X X X X X X X X

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57 X X X X X X X X X X X X X X

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# IDEAL COLLEGE OF ARTS & SCIENCES

(Autonomous and NAAC B)

DR.PVN RAJU VIDYAPRANGANAM

Samarlakot Road, KAKINADA

Department of Physics

2020-2021

## APPLICATIONS OF PHYSICS IN EARTH SCIENCES

This course is intended for the students to know the applications of physics in the field of Earth sciences. It helps in finding and understanding the Physical concepts of Physics in easy way.

### Unit-1: GRAVITY AND MAGNETIC GEOPHYSICAL METHODS

Earth's Gravity field, Properties of Newtonian potential, Laplace's and Poissons's equations, Green's theorem, Gauss law, concept of gravity anomaly. Earth's main magnetic field, origin and temporal variations (outlines only), Geomagnetic elements, Vectorial representation, spatial variation, Basic concepts, Coulombs law of magnetic force and fields, Magnetic anomalies.

### Unit-2: RESISTIVITY AND ELECTROMAGNETIC GEOPHYSICAL METHODS

Principle of electrical methods of prospecting – Electrical fields in Geophysics- current and potential in the Earth. Electromagnetic Induction, Primary-Secondary field relations, Vector Diagram- Real and Imaginary components resolving.

### Unit-3: ATMOSPHERIC THERMODYNAMICS

Gas Laws, Hydrostatic Equation – Geopotential, Reduction of pressure to sea level, Adiabatic Processes – the dry adiabatic lapse rate, Water Vapor in Air – moisture parameters, The second law of Thermodynamics – the Carnot cycle, Entropy, the Clausius – Clapeyron equation, The First Law of Thermodynamics – Joule's law, specific heats, Enthalpy.

### Unit-4: ATMOSPHERIC DYNAMICS

Forces governing the atmospheric motions and their classifications as body and surface forces, conservative and nonconservative forces, equation of motion in rotating frame, Coriolis force and its physical nature.

### Unit-5: CLOUD PHYSICS

Nucleation of water vapor condensation – cloud condensation nuclei, Curvature and solution Effects, Growth of cloud droplets in warm clouds – Growth by condensation, growth by collection, growth by condensation and Collision - Coalescence, Microphysics of cold clouds – nucleation of ice particles; ice nuclei, growth of ice particles in clouds, formation of precipitation in cold clouds.



Sr No	Roll No	Name of the student	Signature
1)	2182131	R. Ram Sai	Rai Sai
2)	132	K. R. Krishna	K.R. Krishna
3)	134	A. Sai Govindu	Sai Gov
4)	137	ch. Sandeep	Sandeep
5)	140	N. S. Murthy	N.S. Murthy
6)	205	N. Anil Kumar	N. Anil Kumar
7)	206	E. Anusha	E. Anusha
8)	210	D. Ch. Stephan	Stephan
9)	211	M. Charan Swamy	Charan Ch.
10)	218	K. Koushik	K. Koushik
11)	219	D. Kumari	D. Kumari
12)	220	G. Lazarus Raju	Lazarus Raju
13)	221	K. Lokesh Kumar	Lokesh Kumar
14)	224	V. Manikanta S. Gupta	Manikanta S. Gupta
15)	227	M. Neeraja	M. Neeraja
16)	228	D. Neelavika	Neelavika
17)	230	S. Raju	S. Raju
18)	234	P. Sai Mahesh	P. Sai Mahesh
19)	232	Ch. Ranja	Ch. Ranja
20)	231	P. Ranja	P. Ranja
21)	233	P. Rushikesh Raju	P. Rushikesh Raju
22)	237	G. S. Suresh	G. S. Suresh
23)	238	M. Samel	M. Samel
24)	239	M. Sandeep	M. Sandeep
25)	240	K. Satish	K. Satish
26)	241	G. S. K. Abith	K. Abith
27)	242	M. Seetha Mahalaxmi	M. Seetha Mahalaxmi
28)	244	R. S. S. S. Jagadeesh	R. S. S. S. Jagadeesh
29)	248	J. Suneetha	J. Suneetha
30)	250	K. Uday Anil Kumar	K. Uday Anil Kumar



Sr No	Rgd No	Name of the student	Signature
31)	2182251	T. V. Laxmi	Laxmi
32)	252	M. V. S. N. D. Prasad	M. V. S. N. D. Prasad
33)	254	J. V. Kumar	J. V. Kumar
34)	255	S. V. Vardhan	S. V. Vardhan
35)	256	P. V. Kumar	Kund
36)	401	V. A. Raju	
37)	403	D. Ch. Mouli	R. Ch. Mouli
38)	406	K. D. Prasad	K. D. Prasad
39)	407	M. G. Rao	Rao
40)	410	T. Jovaprasad	Cava Prasad
41)	411	G. P. Kumar	G. P. Kumar
42)	412	L. Sai Kumar	Sai Kumar
43)	413	G. Sandhya V. Laxmi	G. Sandhya
44)	415	K. S. S. Ram	K. S. S. Ram
45)	416	K. Sechu	Sechu
46)	419	Ch. Siva S. Prasad	Ch. Siva
47)	421	B. Subrahmanyam	B. Subram
48)	2182423	M. Swarna Latha	Swarna
49)	422	G. Swamy	G. Swamy
50)	446	G. Teja	Teja
51)	201	B. Abishhek	B. Abhishek
52)	202	A. A. Santhosh	A. A. Santhosh
53)	123	V. Manikanta	V. Manikanta
54)	126	S. Nagesh	S. Nagesh
55)	128	P. L. S. Sou	P. L. S. Sou
56)	127	Sh. N. Jani	Sh. N. Jani
57)	135	T. S. Kumar	T. S. Kumar
58)	002	M. A. L. Sou	M. A. L. Sou
59)	121	M. Maulu	M. Maulu
60)	120	D. Lakshmi	D. Lakshmi



S.No	Reg No	Name of the Student	Signature
61)	2182117	Ch. l. Rao	Ch. l. Rao
62)	122	M. mahesh.	Mahesh.
63)	110	G. Dwiga prasad	G. Dwiga prasad
64)	111	G. Dwiga prasad	G. Dwiga prasad
65)	027	S. Nanda.	S. Nanda
66)	051	T. Pavani	Pavani
67)	036	P. Ramesh.	P. Ram
68)	026	D. manikanta	D. manik
69)	103	Ch. B. Rishi	Rishi
70)	113	P. Gopalam.	P. Gopalan.
71)	114	M. Haribabu.	Har. M.
72)	115	P. H. S. Ram	Ram
73)	116	S. Jyoshini	Jyoshini
74)	118	M. lakshman	M. laksh.
75)	041	T. S. latha	T. S. latha
76)	2182046	M. Tejavathi	M. Tejavathi
77)	047	K. V. M. Rao	K. V. M. Rao
78)	048	S. V. Dwiga	S. V. Dwiga
79)	049	S. V. manikanta	Manik
80)	052	D. V. Suresh	Suresh
81)	055	K. V. prasad	prasad
82)	057	T. M. Raju	T. M. Raju
83)	101	K. Anupama	Anupama
84)	008	D. D. Sirisha	Sirisha
85)	011	T. D. prasad	prasad
86)	016	Y. Jagadeesh	Jagadeesh
87)	018	A. Madhavi	Madhavi
88)	020	A. J. mahendra	A. J. mahendra
89)	021	G. maheswari	maheswari
90)	104	Ch. Ch. Shelcar	Shelcar



S.No	Rgd. No	Name of the student	Signature
91)	2182106	M.D.D. vijay	M.D.D. Vijay
92)	429	R. Venkatesh	Venka Reddy
93)	431	K. A: Reddy	G.L. Raju
94)	220	G.L. Raju	K. Laksh
95)	221	K. lokesh Kumar	Gupta
96)	224	V. m. S. Gupta	M. Neeraja
97)	227	M. Neeraja	U. Neeraj
98)	228	U. Heeharika	R
99)	230	S. Raju	D. Sai
100)	234	P. Sai mahesh	Ch. Ranjya
101)	232	Ch. Ranjya	T. Ranjya
102)	231	T. Ranjya	P. Ashoo
102)	233	P. Rushikesh Raju	Sush
104)	237	Gr. S. Suresh.	m samuel
105)	2132238	M. Samuel	M. Gaur
106)	239	M. Sandeep	K. Satek
107)	240	K. Satish	G. S. Kalit
108)	241	Gr. S. Kedharnath	Lawani
109)	242	M. S. M. Lakshmi	R. S. S. S.
110)	244	R. S. S. S. Jagadeesh	J. Suneetha
111)	248	J. Suneetha	K. Upk
112)	250	K. Udhay prakash	T. V. Lak
113)	251	T. V. lakshmi	M. V. S. P. P.
114)	252	M. V. S. N. D. prasad	Kumar
115)	254	J. V. Kumar	S. V. Vard
116)	255	S. V. Vardhan	P. V. Kumar
117)	256	P. V. Kumar	V. A. Raj
118)	401	V. A. Raju	R. Ch. A.
119)	403	P. Ch. mouli	K. D. Prasa
120)	406	K. D. prasad	



S.No	Regd No	Name of the Student	Signatures
121)	2182407	M. G. Rao	MGR
122)	410	T. Lova Prasad	Lova Prasad
123)	411	E. P. Kumar	EPK
124)	412	L. S. Kumar	L.S. Kumar
125)	413	G. S. V. Lakshmi	G.S.V. Lakshmi
126)	416	K. Seshu	K. Seshu
127)	419	Ch. S. S. Prasad	Ch. S. S. Prasad
128)	421	V. Subrahmanyam	V. Subrahmanyam
129)	423	M. S. Latha	M. S. Latha
130)	422	G. Swamy	G. Swamy
131)	146	G. Tejavalathi	G. Tejavalathi
132)	201	B. Abhishek.	B. Abhishek



# IDEAL COLLEGE OF ARTS & SCIENCES

(Autonomous and NAAC B)

DR.PVN RAJU VIDYAPRANGANAM

Samarlakot Road, KAKINADA

Department of Physics

2020-2021

## Mathematical Methods of Physics

This course is intended for the students to solve the quantitative problems in physics and prepare for the post graduate entrance examinations. It helps in finding and understanding the Physical concepts of Thermodynamics, Electromagnetism and Modern Physics in easy way.

### Unit-1: Calculus:

Calculus of single and multiple variables, partial derivatives, Jacobian, imperfect and perfect differentials, Taylor expansion, Fourier series.

### Unit-2: Vector Calculus:

Vector algebra, Vector Calculus, Multiple integrals, Divergence theorem, Green's theorem, Stokes' theorem.

### Unit-3: Differential Equations:

First-order equations and linear second-order differential equations with constant coefficients.

### Unit-4: Matrices:

Matrices and determinants, Algebra of complex numbers.

### Unit-5: Few Basic Functions in Physics

Plotting of functions-Beta and Gamma Functions-Riemann Zeta Function-Dirac Delta Function

### Unit 6: Probability and Statistics

Probability, Multiplicity, Combinatorics-Bernoulli Distribution-Poisson and Gaussian Distribution-Boltzman Power law-Lorentzian Distribution.



S.No	Rgd. NO	Name of the student	Signature
1)	2182131	R. Ram Sai	R. Ram Sai
2)	2182132	K. Rama Kouishna	K. Rama Kouishna
3)	2182134	A. Sai Govindu.	A. Sai Govindu.
4)	2182137	Ch. Sandeep	ch. sandeep
5)	2182138	N.S. Murthy	<del>MS</del>
6)	2182205	N.A. Kumar	N.A. Kumar
7)	2182206	G. Anusha	Anusha
8)	2182210	B. Chandra Shekhar	Chandra Shekar
9)	2182211	M. Charan Swamy	<del>Ch</del>
10)	2182218	K. Koushik	K. Koushik
11)	2182219	D. Kumari	D. Kumari
12)	2182220	G.L. Raju	G.L. Raju
13)	2182221	K.L. Kumar	K.L. Kumar
14)	2182224	V.M.S. Gupta	V.M.S. Gupta
15)	2182227	M. Neeraja	M. Neeraja
16)	2182228	V. Neharika	Neharika
17)	2182230	S. Raju	S. Raju
18)	2182234	P. S. Mahesh	PS
19)	2182232	Ch. Ramya	Ch. Ramya
20)	2182231	P. Ramesh	P. Ramesh
21)	2182233	P. R. Raju	P. R. Raju
22)	2182237	G. S. Suresh	G. S. Suresh
23)	2182238	M. Sambhavi	Sambhavi
24)	2182239	M. Sandeep	M. Sandeep
25)	2182240	K. Satish	K. Satish
26)	2182241	G. S. Kethanath	G. S. Kethanath
27)	2182242	M. S. Mahalaxmi	M. S. Mahalaxmi
28)	2182244	R. S.S. Jagadeesh	R. S.S. Jagadeesh
29)	2182248	J. Suneetha	J. Suneetha
30)	2182250	K. Day prakash	Day prakash



S.No	Rgd NO	name of the students	Signature
31)	2182251	T. Venkatalaxmi	T. Venkala Laxmi
32)	252	M. V. S. N. D. Prasad	M. V. S. N. D. Prasad
33)	254	J. Vijay Kumar	J. Vijay Kumar
34)	255	S. V. Vardhan	S. V. Vardhan
35)	256	P. Vivek Kumar	P. Vivek Kumar
36)	2401	V. P. Raju	V. P. Raju
37)	403	R. Ch. Mouli	Mouli
38)	406	K. D. Prasad	K. D. Prasad
39)	407	M. Ganeshwararao	M. Ganeshwararao
40)	410	T. Lova Prasad	T. Lova Prasad
41)	411	E. P. Kumar	E. P. Kumar
42)	412	L. S. Kumar	L. S. Kumar
43)	413	J. S. V. Laxmi	J. S. V. Laxmi
44)	2115	K. S. S. Ram	K. S. S. Ram
45)	2182416	K. Seethu	K. Seethu
46)	419	Ch. S. S. Prasad	Ch. S. S. Prasad
47)	421	B. Subrahmanyam	B. Subrahmanyam
48)	423	M. S. Latha	M. S. Latha
49)	422	G. Swami	G. Swami
50)	146	G. Teja	G. Teja
51)	201	B. Abhilash	B. Abhilash
52)	202	A. A. Santhosh	A. Santhosh
53)	123	V. Manikanta	V. Mani Kant
54)	126	S. Nagendra	S. Nagendra
55)	128	P. N. Satya Sri	P. N. Satya Sri
56)	127	S. N. Jani	N. Jani
57)	125	T. S. Kumar	T. S. Kumar
58)	002	M. Asha Latha Sri	Ashalatha
59)	121	M. Madhu	M. Madhu
60)	120	D. Lakshmi	D. Lakshmi

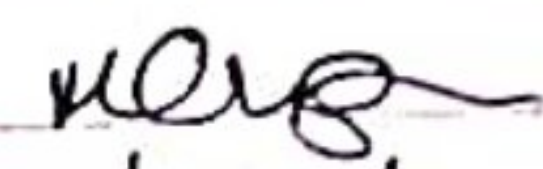
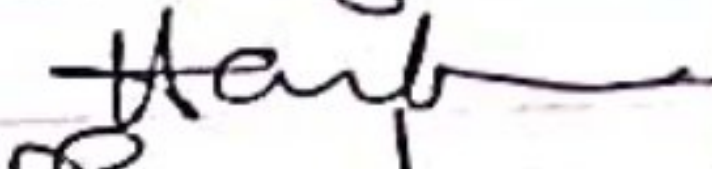
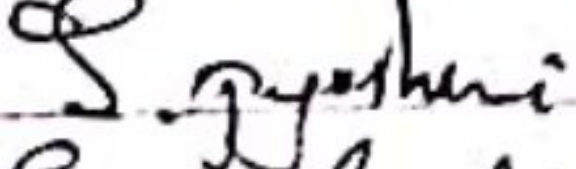
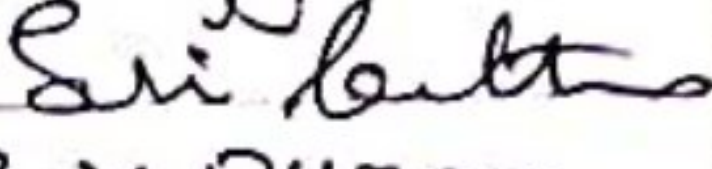
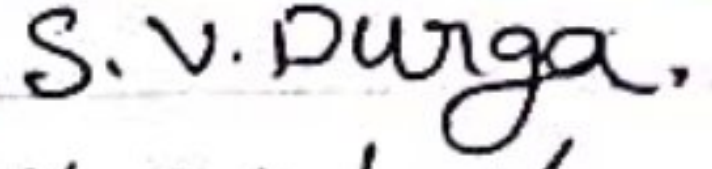
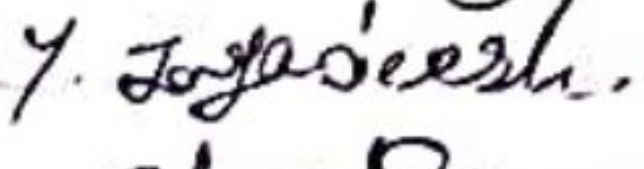
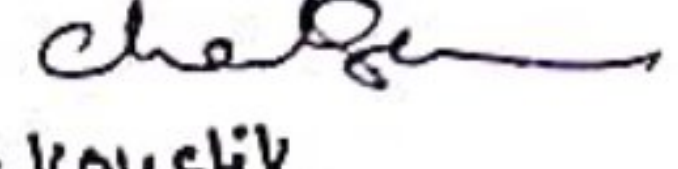
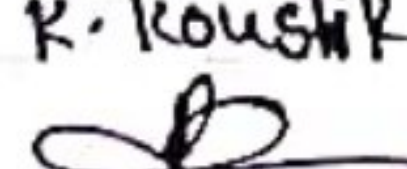
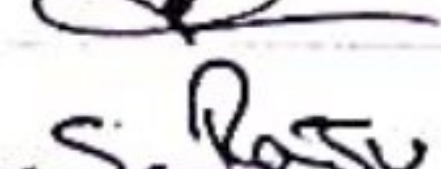
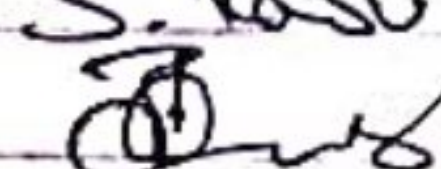

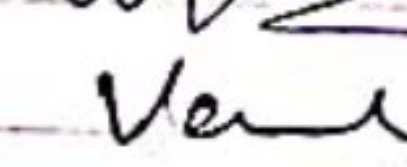
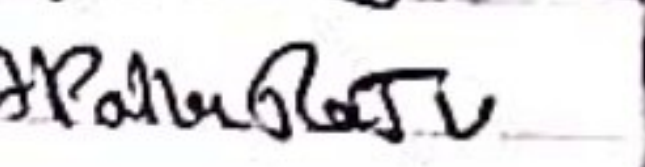



S.No	Rgd No	Name of the Student	Signature
61)	218219	Ch. l. Rao.	ch. l. Rao.
62)	122	M. Mahesh.	m. mahesh
63)	110	G. D. Prasad.	G. D. Prasad
64)	111	G. Durga prasad.	G. Durga Prasad
65)	027	S. Nanda.	S. Nanda
66)	031	T. pavani	T. Pavani
67)	036	P. Ramesh.	P. Ramesh
68)	023	D. manikanta	D. Manikanta
69)	103	Ch. D. Harish.	Ch. D. Harish
70)	113	P. Gopalam.	P. Gopalam
71)	114	M. Haribabu.	M. Haribabu
72)	115	P. H. S. Ram.	P. H. S. Ram
73)	116	S. Jyothini	S. Jyothini
74)	118	M. Laxman.	M. Laxman
75)	2182041	T. Souletha	T. Souletha
76)	046	M. Jayavathi	M. Jayavathi
77)	047	K. U. M. Rao.	K. U. M. Rao
78)	048	S. Veera Durga.	S. Veera Durga
79)	049	S. V. Manikanta.	S. V. Manikanta
80)	052	D. V. Suresh.	D. V. Suresh
81)	055	K. V. Prasad.	K. V. Prasad
82)	054	T. M. Raju	T. M. Raju
83)	101	K. Anupama.	K. Anupama
84)	008	D. D. Sirisha	D. D. Sirisha
85)	011	T. D. Prasad	T. D. Prasad
86)	016	Y. Jagadish.	Y. Jagadish
87)	013	A. Madhavi	A. Madhavi
88)	020	A. T. Mahendra.	A. T. Mahendra
89)	021	G. Maheswari	G. Maheswari
90)	104	Ch. Chancha Sekoo	Ch. Chancha Sekoo



Sr No	Page No	Name of the Student	Signature
90)	2182106	N. D. vijay	N. D. vijay
92)	429	R. Venkatesh.	R. Venkatesh
93)	431	K. Ashi Reddy.	K. Ashi Reddy
94)	224	V. N. Sudheer.	V. N. Sudheer
95)	240	K. Satish.	K. Satish
96)	250	K. Uday prakash.	K. Uday prakash
97)	254	J. vijay kumar.	J. vijay kumar
98)	406.	K. D. prasad.	K. D. prasad
99)	411	E. P. kumar	E. P. kumar
100)	422	G. Swamy	G. Swamy
101)	202	A. Adhitya.	A. Adhitya
102)	108	P. N. S. Sou	P. N. S. Sou
103)	121	M. madhu.	M. madhu
104)	118	M. lakshman	M. lakshman
105)	040	S. veera durga.	S. veera durga
106)	057	T. marikanta Raju	T. marikanta Raju
107)	134	A. Sai Govindhu	A. Sai Govindhu
108)	140	N. Salya Narayana.	N. Salya Narayana
109)	123	V. marikanta	V. marikanta
110)	201	B. Abhilash.	B. Abhilash
111)	2182416	K. Seenu	K. Seenu
112)	412	L. Sai kumar.	L. Sai kumar
113)	406	K. Durga prasad.	K. Durga prasad
114)	256	P. vivek kumar	P. vivek kumar
115)	250	K. Uday prakash	K. Uday prakash
116)	2112	M. Seetha mahalaxmi	M. Seetha mahalaxmi
117)	232	Ch. Ranga.	Ch. Ranga
118)	252	M. V. S. N. D. prasad.	M. V. S. N. D. prasad
119)	146	G. Teja	G. Teja
120)	122	M. Mahesh.	M. Mahesh



Srno	Rgd NO	Name of the Student	Signature
121)	218240	M. Ganeshwar Rao	
122)	114	M. Hari babu	
123)	116	S. Jyothini	
124)	041	T. Sri latha	
125)	048	S. V. Durga.	
126)	016	Y. Jagadeesh.	
127)	210	D. Chandrashekar	
128)	218	K. Koushik	
129)	221	K. Lokesh Kumar	
130)	230	S. Raju	
131)	244	R. Jagadeesh.	
132)	254	J. Vijay Kumar	
133)	255	S. Vishnu vardhan	
134)	401	V. Appala Raju.	



IDEAL COLLEGE OF ARTS & SCIENCES

VIDYUT NAGAR – KAKINADA.

Department of Computer Science.

B.Voc (Software Development) – Semester - I

Value Course Name: Introduction of coding for App Development

by using Scratch Programming

Staff Name: PPR Mohan

A.Y.2020-21

Syllabus:

Course Goals

1 Programming

Students are introduced to several programming concepts and practice implementing them using Scratch software.

2 Game Modification

Students design, modify and create games and movies using programming in Scratch.

3 Construction and Design

Students practice building and designing WeDo robots to be programmed using Scratch software.

Course Topics

1 Scratch

Students learn about Scratch and how to program with it.

2 Movement

Students learn how to make characters in Scratch move and speak.

3 Appearances

Students learn how to modify the appearance of their characters through colours and costumes.

4 Character Creation

Students learn how to create their own characters in Scratch.

5 Logic

Students learn various logic commands that are used in programming.

6. Projects

Students create a short movie, a simple game, and other projects to display what they have learn



## Course Schedule

### Day1 to Day4

#### Introduction to Course

Students introduce themselves and receive an overview of Scratch.

#### Introduction to Scratch

Students learn the layout of Scratch and are introduced to several types of coding blocks.

#### Movement

Students learn how to create movement in their Scratch programs.

### Day5 to Day7

#### Warmups

Students start each day with a quick Scratch activity that reviews a previous concept or introduces a new one.

#### Looks

Students learn about colour changes and costumes in Scratch.

#### Creating Sprites

Students learn how to create new characters in Scratch.

### Day8

#### Warmups

Students start each day with a quick Scratch activity that reviews a previous concept or introduces a new one.

#### Pens

Students learn how to draw lines and shapes using the Pen feature in Scratch.

#### Sounds

Students experiment with sound effects by creating melodies, layering sounds, and recording their own.

### Day9

#### Warmups

Students start each day with a quick Scratch activity that reviews a previous concept or introduces a new one.

#### Review

Students catch up and review the material they have covered.

### Day10

#### Warmups



Students start each day with a quick Scratch activity that reviews a previous concept or introduces a new one.

### Mini-Project: Movie

Students complete an animation project to demonstrate what they have learned so far about Scratch.

### Day 11

#### Warmups

Students start each day with a quick Scratch activity that reviews a previous concept or introduces a new one.

#### Scratch-a-Thon

Students review what we learned in Week 2 to begin designing games.

#### Logic

Students learn how to enter conditional commands into Scratch.

#### Inputs

Students learn how to incorporate keyboard and mouse commands in Scratch.

#### Broadcasting

Students learn how to create commands that cause changes in the game environment.

### Day 12

Warmups Students start each day with a quick Scratch activity that reviews a previous concept or introduces a new one.

Broadcasting Students learn how to create commands that cause changes in the game environment.

Random Numbers Students discuss how to implement random numbers in their programs.  
Introduction to Variables Students learn about variables and how they can be used in games.

Continuing Variables Students continue to learn about variables and create a game

### Day 13

#### Warmups

Students start each day with a quick Scratch activity that reviews a previous concept or introduces a new one.

#### Broadcasting

Students learn how to create commands that cause changes in the game environment.

#### Random Numbers

Students discuss how to implement random numbers in their programs.



### Introduction to Variables

Students learn about variables and how they can be used in games.

### Continuing Variables

Students continue to learn about variables and create a game.

### Day14

#### Warmups

Students start each day with a quick Scratch activity that reviews a previous concept or introduces a new one.

### Continuing Variables

Students continue to learn about variables and create a game.

### Mini Project - Balloon Shooter

Students apply knowledge of logic and variables to create a Balloon Shooter game.

### Day15

#### Warmups

Students start each day with a quick Scratch activity that reviews a previous concept or introduces a new one.

### Introduction to Final Project

Students learn the expectations for the final project and begin work on it.

### Continuing Final Projects

Students continue working on their final projects.

### Day16 to Last Date

#### Continuing Final Projects

Students continue working on their final projects.

### Sharing Projects

Students share their final projects with the class.

Material Link: <https://drive.google.com/file/d/1nChchvaEcSVq4CQhV-a1tf7GpkyCjgBQ/view>



**IDEAL COLLEGE OF ARTS & SCIENCES**  
**VIDYUT NAGAR – KAKINADA**  
Department of Computer Science

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B.Voc (Software Development)

Student Enrolled List: Enclosed.

No of Students Enrolled & Completed: 30

Staff Name: PPR Mohan

Value Added Course Name: Introduction of Coding for APP Development.

A.Y.2020-21

1	2200401601	Eevuri Anil Kumar
2	2200401602	Patchari Satyanarayana
3	2200401603	Tirunamala Goutham Krishna
4	2200401604	Shaik Afzal Ahmed
5	2200401605	Koruprolu Venkatesh
6	2200401606	Saragada Bhuvanawari
7	2200401607	Kakarapalli Venkata Siva Suresh
8	2200401608	Gubbala Sudheer
9	2200401609	Dangeti Durga Prasad
10	2200401610	Datla Supreeth Varma
11	2200401611	Janapareddy Anil Kumar
12	2200401612	Naradasu Satish



13	2200401613	Pedapati Vinay Sai Kumar
14	2200401614	Singamsetti Durgaprasad
15	2200401615	Pulla Rama Govind
16	2200401626	U N Abhishek
17	2200401633	Pitla Raghu Ram
18	2200401634	Egala Vijaya Siva Krishna
19	2200401635	Kanchustambam Chandra Sekhar
20	2200401636	Kadiyala Surya Tejesh
21	2200401637	Rachabhathuni Devi Naga Venkat
22	2200401638	Medisetti Om Satyasiva Vara Prasad
23	2200401639	Neduri Manoj Venkata Durgasankar
24	2200401640	Kadali Satya Karthik
25	2200401641	Vittanala Jyotsna
26	2200401642	Gondyala Sai Revanth
27	2200401643	Baki Sri Anupama
28	2200401644	Velangi Sasibhushanam
29	2200401645	Cherukuri Jayaprakash
30	2200401646	Velusetty Kesava V Maheswara Santhosh





IDEAL COLLEGE OF ARTS AND SCIENCES  
(AUTONOMOUS NACC-B)  
DEPARTMENT OF FOOD SCIENCE AND TECHNOLOGY  
VALUE ADDED COURSE  
TITLE:FOOD PROCESSING AND PRESERVATION  
SYLLABUS

**Unit:1**

Food preservation: Definition, principles, importance of food preservation, traditional and modern methods of food preservation. Food additives – definition, types, Class I and Class II preservatives.

**Unit 2:**

Preservation by fermentation: curing and pickling; Hurdle technology, Non-thermal (e.g. high pressure processing) and minimal processing technologies Ionization radiation; Use of preservative

**Unit 3:**

Pasteurization: Definition, types, Sterilization, Canning - history and steps involved, spoilage encountered in canned foods, types of containers used for canning foods. Food irradiation – Principles, merits and demerits, effects of irradiation and photochemical methods.



**IDEAL COLLEGE OF ARTS AND SCIENCES**

**(AUTONOMOUS NACC-B)**

**DEPARTMENT OF FOOD SCIENCE AND TECHNOLOGY**

**VALUE ADDED COURSE**

**TITLE:FOOD PROCESSING AND PRESERVATION**

**LIST OF ENROLLED STUDENTS**



S.No	Roll number	Name of the student
1	2200402701	SANGADI VAMSI
2	2200402702	AMUJURI PAVANSAI
3	2200402703	CHINTOJU JANARDHANA RAMANA RAJU
4	2200402704	MOHAMMAD AZAM
5	2200402705	VITTANALA SIREESHA
6	2200402706	KANCHUMENU ESWARA SAI ANIL KUMAR
7	2200402707	ADIGARLA VENKATA DINESH
8	2200402708	MOHAMMED RAABIYA BASRI
9	2200402709	CHAVVAKULA LAKSHMI PRASANNA
10	2200402710	MOHAMMED MUZAMMIL SHARIEF
11	2200402711	CHALLA HEMA SHANKAR
12	2200402712	Bulusu Rujuhita Narayani
13	2200402714	ADAPA ASHOK
14	2200402715	PULLAKAVI SAI KRISHNA SUHRUTH
15	2200402717	KONALA DEEKSHITH
16	2200402718	PENKE ROHINI
17	2200402719	MANGAM MANIKANTA
18	2200402720	KAKARLAPUDI SAKETH VARMA
19	2200402721	VASKA LEKHANA
20	2200402723	PEDAPUDI MANASA
21	2200402724	DASARI AMRUTHA VARSHINI
22	2200402725	KUNCHANAPALLI SARITHA
23	2200402726	KOSURI HEVANYA DEVI



24	2200402727	DONGALA NANDEESWARI
25	2200402728	MALLIDI KASI ANNAPURNA
26	2200402729	MALLIPUDI SATYASRI
27	2200402730	POLAVARAPU DURGA TEJASWI
28	2200402731	NAKKA RAGHAVENDRA SAI KALYAN
29	2200402732	KAVYA PANDU
30	2200402733	PAMU BHUMIKA
31	2200402734	GORIKA AVINASH
32	2200402735	CHIRRI SURYA KIRAN
33	2200402736	THADERAMANA
34	2200402737	SHANEGALA KURUBA ASHOK
35	2200402738	EAGALA SUMANTH
36	2200402739	ADDANKI JYOTHSNA LAKSHMI PRIYA
37	2200402740	DATLA SATYA SURYA DEVI
38	2200402741	KOLLURI SAI MANASA



IDEAL COLLEGE OF ARTS AND SCIENCES  
(A.P. GOVT., AIDED, AUTONOMOUS & NAAC B)  
DR. P.V.N. RAJU VIDYAPRANGANAM, KAKINADA  
Department of Fisheries and Aquaculture  
Value Added Course on  
**Aquarium fishes and Management**  
2020-2021 Academic year

Syllabus

30 hours

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**Unit 1: Introduction**

- 1.1. Introduction to aquarium, ornamental fishes and Equipment and accessories- Aerators, filters and lighting.
- 1.2. World aquarium trade and present status. Design and construction of public fresh water and marine aquaria and oceanarium.
- 1.3. Water quality management in aquarium fishes, Biofilters in aquarium.

**Unit 2: Aquarium Management**

- 2.1. Setting up of aquarium – under gravel filter, pebbles, plants, drift wood, ornamental objects and selection of fishes, Quarantine measures.
- 2.2. Aquarium maintenance and water quality. Control of snail and algal growth.
- 2.3. Handling, care and transportation of fish. Temperature acclimation, oxygen packing.
- 2.4. Food and feeding-Source of feed, different types of food for aquarium fish, monitoring and adjusting.

**Unit 3: Freshwater Ornamental Fishes**

- 3.1. Species of ornamental fishes; their taxonomy and biology- Live bearers, Gold fish and koi, Gourami, Barbs and Tetras, angel fish, cichlids.
- 3.2. Setting up the tank-Choosing the tank, lighting and heating, filtration and aeration, choosing plants, preparing the tank.
- 3.3. Reproduction-General principles, Vitellin sack, Reproduction strategies, Egg-laying.



**IDEAL COLLEGE OF ARTS AND SCIENCES**

Autonomous & NAAC B

**Dr. P.V.N. RAJU VIDYAPRANGANAM**

Samalkot Road, KAKINADA

**Value Added Course**

**Skill Development Courses**

**Academic Year 2020-2021**

**Department of Political Science**

**Syllabus**

**Unit – I : Introduction**

Meaning of GUDA, concept of GUDA – structure of GUDA – objectives of GUDA.

**Unit – II : Powers and Functions of GUDA**

Power of GUDA – Functions of GUDA – Planning of GUDA – Works of GUDA.

**Unit – III : Budget of GUDA**

Central Budget of GUDA – State Budget of GUDA – Local Industries funding NGO funding.



# IDEAL COLLEGE OF ARTS AND SCIENCES

Autonomous & NAAC B

Dr. P.V.N. RAJU VIDYAPRANGANAM

Samalkot Road, KAKINADA

Roll No.	Name of the Student
2191006	YELUGUBANTI BHARATHI DHANALAKSHMI DURGA
2191007	GUTHULA BHASKAR
2191012	BAYYAVARAPU DEEPIKA
2191013	MUSINI DEVI SATISH KUMAR
2191020	SARA DURGA PRASAD
2191021	GALI GANESH
2191022	PATRI GANGADHARARAO
2191023	PENKE HARI SUBRAHMANYAM
2191031	GUNDRA NAGA CHAKRADHAR
2191032	SANGADI NAGURU
2191033	TAMU NANDU
2191036	KOPPADI PRASADU
2191037	BUDDULA PRAVEEN PRAKASH
2191038	POTHULA PRIYANKA
2191043	PESINGI RAJU
2191047	POTHULA SATISH
2191048	DEYYALA SATYA SURYANARAYANA
2191049	KADIYALA SIVA NAGENDRA
2191051	MADAKAM SIVAVARAPRASAD DORA
2191053	SIVANGI SRINIVAS
2191054	BONDU SUBHASH
2191055	BANDI SURESHKUMAR
2191065	GANTIMALLA VENKATA SIVA KUMAR
2191066	CHALLA VENKATESWARI
2191067	RAYUDU VENU
2191069	DADALA VIKRAM KUMAR



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Samalkot Road, KAKINADA

**Value Added Course**

**Skill Development Courses**

**Academic Year 2020-2021**

**Department of Political Science**

**Syllabus**

**Unit – I : Introduction**

Meaning of KUDA, concept of KUDA – structure of KUDA – objectives of KUDA.

**Unit – II : Powers and Functions of KUDA**

Power of KUDA – Functions of KUDA – Planning of KUDA – Works of KUDA.

**Unit – III : Budget of KUDA**

Central Budget of KUDA – State Budget of KUDA – Local Industries funding NGO's funding.



# IDEAL COLLEGE OF ARTS AND SCIENCES

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S.No.	Roll No.	Name of the Student
1	2191006	YELUGUBANTI BHARATHI DHANALAKSHMI DURGA
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