

IDEAL COLLEGE OF ARTS AND SCIENCES
AUTONOMOUS & NAAC B
Dr. P.V.N RAJU VIDYAPRANGANAM
SAMALKOT ROAD, KAKINADA

LIST OF NEW COURSES

Academic Year - 2020 - 2021

S.No	Name of the New Courses	Department	Program
1	A Course in Communication and soft skills	English	BA, B.Com, B.Sc.
2	A Course in Reading and Writing Skills	English	BA, B.Com, B.Sc.
3	Kavya Sudha	Telugu	B.Sc., B.A, B.Com
4	Adhunika Bharathi	Telugu	B.Sc., B.A, B.Com
5	Mechanics Waves & Oscillations	Physics	MPC, MPCS
6	Electrical Appliances Skill Development	Physics	MPC, MPCS
7	Wave Optics	Physics	MPC, MPCS
8	Solar Energy Skill Development	Physics	MPC, MPCS
9	Problem Solving in C	Computer Science	B.Sc.(M.P.CS)
10	Data Structures using C	Computer Science	B.Sc.(M.P.CS)
11	Inorganic and Physical chemistry	Chemistry	B.Sc., Chemistry
12	Organic and General chemistry	Chemistry	B.Sc., Chemistry
13	Fundamentals Microbs and non Vascular Plants	Botany	B.Sc., B.Z.C
14	Basic of Vascular plants and phytogeography	Botany	B.Sc., B.Z.C
15	Plant Nursery	Botany	B.Sc., B.Z.C
16	Fruit and vegetable preservation	Botany	B.Sc., B.Z.C
17	Animal diversity -1 Biology of non chordates	Zoology	B.Sc., B.Z.C
18	Animal diversity -2 Biology of chordates	Zoology	B.Sc., B.Z.C
19	Ansient Indian History & Culture	History	BA
20	Medieval Indian History & Culture	History	BA
21	Indroduction to Political Science	Political Science	BA

S.No	Name of the New Courses	Department	Program
22	Basic Organs of the Government	Political Science	BA
23	Micro Economics Analysis	Economics	BA
24	Macro Economics Analysis	Economics	BA
25	Fundamentals of Accounting (1A)	Commerce	B.Com
26	Business Organisation and Management (1B)	Commerce	B.Com
27	Business Environment (1C)	Commerce	B.Com
28	Financial Accounting (2A)	Commerce	B.Com
29	Business Economics (2B)	Commerce	B.Com
30	Banking Theory and Practice (2C)	Commerce	B.Com
31	Seed science and technology	Agriculture	B.Voc
32	Fundamentals of horticulture	Agriculture	B.Voc
33	Fundamentals of Agronomy	Agriculture	B.Voc
34	Seed science and technology	Agriculture	B.Voc
35	Fundamentals of soil science	Agriculture	B.Voc
36	Entomology	Agriculture	B.Voc
37	Protected cultivation of Horticultural crops	Sustainable Agriculture	B.Voc
38	Fundamentals of Pathology	Sustainable Agriculture	B.Voc
39	Commercial Vegetable Production	Sustainable Agriculture	B.Voc
40	Agricultural Extension and rural sociology and psychology	Sustainable Agriculture	B.Voc
41	Plant Physiology	Sustainable Agriculture	B.Voc
42	Weed management and Fodder crop production	Sustainable Agriculture	B.Voc
43	Farm power and machinery	Sustainable Agriculture	B.Voc
44	Livestock farming	Sustainable Agriculture	B.Voc
45	Seed science and technology	Sustainable Agriculture	B.Voc
46	Fundamentals of horticulture	Sustainable Agriculture	B.Voc
47	Fundamentals of Agronomy	Sustainable Agriculture	B.Voc
48	Seed science and technology	Sustainable Agriculture	B.Voc
49	Fundamentals of soil science	Sustainable Agriculture	B.Voc

S.No	Name of the New Courses	Department	Program
50	Entomology	Sustainable Agriculture	B.Voc
51	Chemistry	Industrial Aquaculture and Fisheries	B.Voc
52	Zoology	Industrial Aquaculture and Fisheries	B.Voc
53	Inland and Marine Fisheries	Industrial Aquaculture and Fisheries	B.Voc
54	Aquaculture Nutrition	Industrial Aquaculture and Fisheries	B.Voc
55	Fish Genetics And Aquaculture Bio-Technology	Industrial Aquaculture and Fisheries	B.Voc
56	Chemistry	Industrial Aquaculture and Fisheries	B.Voc
57	Zoology	Industrial Aquaculture and Fisheries	B.Voc
58	Pathology in Aquaculture	Industrial Aquaculture and Fisheries	B.Voc
59	Ornamental Fishes	Industrial Aquaculture and Fisheries	B.Voc
60	Fish Microbiology and By-products	Industrial Aquaculture and Fisheries	B.Voc
61	Freshwater Aquaculture, Brackishwater Aquaculture and Mari culture	Industrial Aquaculture and Fisheries	B.Voc
62	Chemistry	Commercial Aquaculture	B.Voc
63	Zoology	Commercial Aquaculture	B.Voc
64	Biology of Finfishes and Shellfishes	Commercial Aquaculture	B.Voc
65	Priciples of Aquaculture	Commercial Aquaculture	B.Voc
66	Chemistry	Commercial Aquaculture	B.Voc
67	Zoology	Commercial Aquaculture	B.Voc

S.No	Name of the New Courses	Department	Program
68	Freshwater, Brackishwater and Mariculture	Commercial Aquaculture	B.Voc
69	Crafts and Gears in Aquaculture	Commercial Aquaculture	B.Voc
70	FOOD PRODUCTION TRENDS	Food Technology	B.Sc
71	FUNDAMENTALS OF FOOD MICROBIOLOGY	Food Technology	B.Sc
72	FUNDAMENTALS OF FOOD CHEMISTRY	Food Technology	B.Sc
73	FOOD QUALITY MANAGEMENT	Food Technology	B.Sc
74	BASIC PRINCIPLES OF FOOD PRESERVATION	Food Technology	B.Sc
75	FOOD SCIENCE AND NUTRITION-1	Food Technology	B.Sc
76	Principles of Management	Digital Marketing	BBA
77	Managerial Economics	Digital Marketing	BBA
78	Fundamentals of Digital Marketing and Digital Markets	Digital Marketing	BBA
79	Accounting For Management	Digital Marketing	BBA
80	Digital & Social Media Marketing	Digital Marketing	BBA
81	E-Commerce	Digital Marketing	BBA
82	Applied Mathematics-1	Software Development	B.Voc
83	Introduction to IT Tools	Software Development	B.Voc
84	IT Foundations and Programming Concepts	Software Development	B.Voc
85	Photoshop and Flash	Software Development	B.Voc
86	Applied Mathematics-II	Software Development	B.Voc
87	C Programming	Software Development	B.Voc
88	Internet Applications	Software Development	B.Voc
89	Microsoft Advanced Excel	Software Development	B.Voc


IQAC Coordinator

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Principal

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IDEAL COLLEGE OF ARTS AND SCIENCES (A)
ENGLISH COURSE STRUCTURE UNDER CBCS
2020-2021

Year	Semester	Title	Max. Marks	Credits
I	i	Skill Enrich-I English Praxis Course -I (A Course in Communication & Soft skills)	100	03
	ii	Skill Enrich-II English Praxis Course -II (A Course in Reading and Writing Skills)	100	03
II	III	Skill Enrich-III English Praxis Course -III (A Course in Communication & Soft skills)	100	03
		Communication & Soft skills (CSS-I)	50	02
	IV	(Foundation Course-IV) A Course in Communication & Soft Skills (CSS-II)	50	02

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TELUGU COURSE STRUCTURE UNDER CBCS
2020-2021

Year	Semester	Title	Max. Marks	Credits
I	I	Kavya Sudha	100	03
	II	Adhunika Bharathi	100	03
		Performing Arts	50	02
II	III	Saahithi Sourabham	100	03
	IV	Leadership Education	50	02

IDEAL COLLEGE OF ARTS AND SCIENCES(A)
PHYSICS COURSE STRUCTURE UNDER CBCS

2020-2021

Year	Semester	Paper	Title	Marks	Credits	
I	I	I	Mechanics, waves and oscillations	100	04	
			Practical	50	01	
		Skill Development	Electrical Appliances	50	02	
	II	II	II	Waves optics	100	04
				Practical	50	01
		Skill Development	Solar Energy	50	02	
			Community Service Project	100	04	
II	III	III	Optics	100	03	
			Practical	50	02	
	IV	IV	Thermodynamics & Radiation Physics	100	03	
			Practical	50	02	
III	V	V	Electricity magnetions & Electronics.	100	03	
			Practical	50	02	
		VI	VI	Modern Physics	100	03
				Practical	50	02
	VI any one paper from A,B and C any one cluster from I, II, and III	VII A	VII A	Anylos and digital electronics	100	03
				Practical	50	02
		VII A1	VII A1	Introduction to micro procesolsand micro controller	100	03
				Practical	50	02
		VII A2	VII A2	Computational Methods and programming	100	03
				Practical	50	02
		VII A3	VII A3	Electronic Instrumentation	100	03
				Practical		02
		VII B	VII B	Material Science	100	03
				Practical	50	02
		VII B1	VII B1	Fundamentals of Nano Science	100	03
				Practical	50	02
		VII B2	VII B2	Synthesis and charactriztion of nano Materials	100	03
				Practical	50	02
		VII B3	VII B3	Applications of Nano Materials and Devices	100	03
				Practical	50	02
VII C	VII C	Renewable Energy	100	03		
		Practical	50	02		
VII C1	VII C1	Solar thermal and photo voltaic aspects	100	03		
		Practical	50	02		
VII C2	VII C2	Wind hydro energies	100	03		
		Practical	50	02		
VII C3	VII C3	Energy Storage divices	100	03		
		Practical	50	02		

IDEAL COLLEGE OF ARTS & SCIENCES : KAKINADA

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Department of Computer Science

Structure of Computer Science Syllabus 2020-2021

Semester	Paper Code	Subject	Hrs./ Week	Credits	IA	ES	Total
I B.Sc. Computer Science Syllabus under CBCS w.e.f. 2020-2021 Batch							
I	C1	Problem Solving in C	4	3	30	70	100
	C1-P	Problem Solving in C Lab	2	2		50	50
II	C2	Data Structures using C	4	3	30	70	100
	C2-P	Data Structures using C Lab	2	2		50	50
		Community Service Project Work (2 months)		4			100
II B.Sc. Computer Science Syllabus under CBCS w.e.f. 2015-2016 Batch							
III	3	Object Oriented Programming Using Java	4	3	25	75	100
	3-P	Object Oriented Programming Using Java Lab	2	2		50	50
IV	4	Data Structures	4	3	25	75	100
	4-P	Data Structures using Java Lab	2	2		50	50
III B.Sc. Computer Science Syllabus under CBCS w.e.f. 2015-2016 Batch							
V	5	Database Management System	4	3	25	75	100
	5-P	Database Management System Lab	2	2		50	50
	6	Software Engineering	4	3	25	75	100
	6-P	Software Engineering Lab	2	2		50	50
VI	7	<u>Elective-I</u> Computer Networks	3	3	25	75	100
	7-P	Computer Networks Lab	2	2		50	50
	8A	<u>Elective-II (Cluster-A)</u> 1. Foundations of Data Science	3	3	25	75	100
	8A-P	Foundations of Data Science Lab (through R)	2	2		50	50
	8B	2. Big Data Technology	3	3	25	75	100
	8B-p	Big Data Technology Lab (Hadoop)	2	2		50	50
	8C	Project Work	5	5	25	75	100

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CHEMISTRY COURSE STRUCTURE UNDER CBCS

2020-2021

Year	Semester	Paper	Title	Marks	Credits	
I	I	I	Inorganic and Physical Chemistry	100	03	
			Practical - I	50	02	
	II	II	Organic and General chemistry	100	03	
			Practical - II	50	02	
				Community Service Project	100	04
II	III	III	Inorganic and Organic Chemistry	100	03	
			Practical - III	50	02	
	IV	IV	Physical Chemistry and Spectroscopy	100	03	
			Practical - IV	50	02	
III	V	V	Inorganic, Organic and Physical chemistry	100	03	
			Practical-V	50	02	
		VI	VI	Inorganic, Organic and Physical chemistry	100	03
				Practical -VI	50	02
	VI Any one Elective paper from VII A, B, C	VII A	VII A	Elective: Analytical Method in Chemistry	100	03
				Practical- VII A	50	02
		VII B	VII B	Elective: Environmental Chemistry	100	03
				Practical: VII B	50	02
		VII C	VII C	Elective : Green Chemistry	100	03
				Practical -VII C	50	02
	Any one Cluster from	VIII A	VIII A	Cluster Elective I:		
				VIII-A-1 : Polymer Chemistry	100	03
				VIII-A-2: Instrumental Methods of Analysis	100	03
				VIII-A-3: Analysis of Drugs, Foods, Dairy Products & Biochemical Analysis	100	03
				Practical VIII-A-1	50	02
Practical VIII-A-2				50	02	
Project Work				50	02	
Cluster Elective II:						
VIII - B-1 Fuel Chemistry and Batteries				100	03	
VIII - B-2 Inorganic materials of Industrial Importance				100	03	
		VIII B				

Year	Semester	Paper	Title	Marks	Credits	
	VIII A, B, C	VIII B	VIII - B-3 Analysis of Industrial Products	100	03	
			Practical VIII - B-1	50	02	
			Practical VIII - B-2	50	02	
			Project Work	50	02	
		VIII C	Cluster Elective 1I:			
			VIII - C-1 Organic Spectroscopic Techniques	100	03	
			VIII - C-2 Advanced Organic Reactions	100	03	
			VIII - C-3 Pharmaceutical and Medicinal Chemistry	100	03	
			Practical VIII - C-1	50	02	
			Practical VIII - C-2	50	02	
			Project Work	50	02	

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BOTANY COURSE STRUCTURE UNDER CBCS

2020-2021

Year	Semester	Paper	Title	Hours/ Week	Max. Marks(S EE)	Marks in CIA	Credits
I	I	I	Fundamentals of Microbes and Non-Vascular Plants	04	70	30	03
			Fundamentals of Microbes and Non-Vascular Plants - Lab	03	Max.Marks-50 internal assessment at semester end		02
	II	II	Basics of Vascular Plants and Phytogeography	04	70	30	03
			Basics of Vascular Plants and Phytogeography - Lab	03	Max.Marks-50 External assessment at semester end		02
	II		Community Service Project		100		04
	II	III	III	Plant Taxonomy and Embryology	04	75	25
Plant Taxonomy and Embryology - Lab				03	Max.Marks-50 internal assessment at semester end		02
IV		IV	Plant Physiology and Metabolism	04	75	25	03
			Plant Physiology and Metabolism - Lab	03	Max.Marks-50 External assessment at semester end		02
V	V	V	Cell Biology, Genetics and Plant Breeding	04	75	25	03
			Cell Biology, Genetics and Plant Breeding - Lab	03	Max.Marks-50 internal assessment at semester end		02
				Plant Ecology and Phytogeography	04	75	25

Year	Semester	Paper	Title	Hours/ Week	Max. Marks(S EE)	Marks in CIA	Credits	
III		VI	Plant Ecology and Phytogeography - Lab	03	Max.Marks-50 internal assessment at semester end		02	
	VII & VIII any one paper from A,B and C any one cluster from I, II, and III	VII (A) - Elective	Organic forming and sustainable agriculture	04	75	25	03	
			Organic forming and sustainable agriculture - Lab	03	Max.Marks-50 External assessment at semester end		02	
		VII (B) Elective	Nursery, Gardening and Floriculture	04	75	25	03	
			Nursery, Gardening and Floriculture - Lab	03	Max.Marks-50 External assessment at semester end		02	
		VII (C) Elective	Plant Tissue culture and its Biotechnological applications	04	75	25	03	
			Plant Tissue culture and its Biotechnological applications - Lab	03	Max.Marks-50 External assessment at semester end		02	
		VIII (A1) Cluster	Plant Diversity and Human welfare	04	75	25	03	
			Plant Diversity and Human welfare - Lab	03	Max.Marks-50 External assessment at semester end		02	
		VIII (A2) Cluster	Ethanobotany and medicinal botany	04	75	25	03	
			Ethanobotany and medicinal botany - Lab	03	Max.Marks-50 External assessment at semester end		02	
				Pharmacognosy and phytochemistry	04	75	25	03

Year	Semester	Paper	Title	Hours/ Week	Max. Marks(S EE)	Marks in CIA	Credits
		VIII (A3) Cluster	Pharmacognosy and phytochemistry Lab	03	Max.Marks-50 External assessment at semester end		02
		VIII (B1) Cluster	Biological Instrumentation and methadology	04	75	25	03
			Biological Instrumentation and methadology - Lab	03	Max.Marks-50 External assessment at semester end		02
		VIII (B2) Cluster	Mushroom cultivation and Technology	04	75	25	03
			Mushroom cultivation and Technology - lab	03	Max.Marks-50 External assessment at semester end		02
		VIII (B3) Cluster	Internship/project work preferably either in an institution or Industry	—	100		03

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ZOOLOGY COURSE STRUCTURE UNDER CBCS 2020-21

YEA R	SEMESTER	PAPER	TITLE	MARKS	CREDITS			
I	I	I	Animal Diversity, Biology of Non chordates	100	03			
			Practical - I	50	02			
	II	II	Animal Diversity - Biology of Chordates	100	03			
			Practical - II	50	02			
			Community Project	100	04			
II	III	III	Cytology, Genetics and evolution	100	03			
			Practical - III	50	02			
	IV	IV	Embryology, Physiology and ecology	100	03			
			Practical - IV	50	02			
			V	Animal Biotechnology	100	03		
			Practical - V	50	02			
III	V	V	Animal Biotechnology	100	03			
			Practical - V	50	02			
		VI	VI	Animal Husbandry	100	03		
				Practical - VI	50	02		
				Any one Paper from A, B and C	VII (A)	Immunology	100	03
						Practical - VII (A)	50	02
	VII (B)*	Cellular Metabolism and Molecular Biology	100		03			
			Practical - VII (B)	50	02			
	** Any one cluster from I, II and III	VII (C)*	Bioinformatics	100	03			
				Practical - VII (C)	50	02		
		Cluster VIII-A**	Cluster Electives –VIII-A :					
			Medical Diagnostics					
			1. Clinical Biochemistry	100	03			
			2. Haematology	100	03			
			3. Clinical Microbiology	100	03			
Practical – VIII: 1			50	02				
Practical – VIII: 2	50	02						
Project Work	50	02						
Cluster VIII-B**	Cluster Electives –VIII-B :							
	Aquaculture							
	1. Principles of Aquaculture	100	03					
	2. Aquaculture Management	100	03					
	3. Postharvest Technology	100	03					
Practical – VIII: 1	50	02						
VI								

			Practical – VIII: 2	50	02
			Project Work	50	02
		Cluster VIII-C**	Cluster Electives – VIII-C : Sericulture		
			1. Gen. Sericulture, Mulberry cultivation and Management	100	03
			2. Biology of Mulberry Silk worm and Silk worm rearing Technology	100	03
			3. Silk Technology, Silk Marketing and Extension	100	03
			Practical – VIII: 1	50	02
			Practical – VIII: 2	50	02
			Project Work	50	02

**IDEAL COLLEGE OF ARTS AND SCIENCES(A)
HISTORY COURSE STRUCTURE UNDER CBCS**

2020-2021

Year	Semester	Title	Max. Marks	Credits
I	I	ANCIENT INDIAN HISTORY & CULTURE	100	04
	II	Medieval Indian History & Culture	100	04
		Community Service Project	100	04
II	III	Indian History (1526-1761)	100	04
	IV	Indian History and Culture	100	04
III	V	History of Modern World (1453 to 1821)	100	04
		History of Culture of Andhra Desha	100	04
	VI	History of Modern World	100	04
		Cultural Tourism	100	04
		Popular Movements in Andhra Desa	100	04
		Contemporary History of Andhra Pradesh	100	04

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POLITICAL SCIENCE COURSE STRUCTURE UNDER CBCS
2020-2021

Year	Semester	Title	Max. Marks	Credits
I	I	Introduction to Political Science	100	04
	II	Basic Organs of the Government	100	04
		Community Service Project	100	04
II	III	Indian Government and Politics	100	04
	IV	Indian Political Process	100	04
III	V	Indian Political Thought	100	04
	VI	Western Political Thought	100	04
		International Relations	100	04
		Indian Foreign Policy	100	04
Contemporary Global Issues		100	04	

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Samalkot Road – Kakinada

DEPARTMENT OF ECONOMICS

B.A ECONOMICS COURSE STRUCTURE 2020-2021

YEAR	Paper	Semester	Title of the Paper	Credits	Marks
First Year	Paper – I	Semester - I	Micro Economics Analysis	4	100
	Paper – II	Semester – II	Macro Economics Analysis	4	100
			Community Service Project	4	100
Second Year	Paper – III	Semester – III	Macro Economics – I	4	100
	Paper – IV	Semester – IV	Macro Economics – II	4	100
Third Year	Paper – V	Semester – V	Economic Development and Indian Economy	4	100
	Paper – VI	Semester – V	Indian and Andhra Pradesh Economy	4	100
	Paper – VII A	Semester – VI	Agricultural Economics	4	100
	Cluster Elective - (A) Agri Business			4	100
	Paper – VIII A-1	Semester – VI	Agri Business Environment in Andhra Pradesh	4	100
	Paper – VIII A-2	Semester – VI	Agricultural output marketing	4	100
	Paper – VIII A-3	Semester – VI	Project Work	4	100

IDEAL COLLEGE OF ARTS AND SCIENCES(A)
COMMERCE COURSE STRUCTURE UNDER CBCS

2020-2021

Year	Semester	Title	Max. Marks	Credits
I	I	Fundamentals of Accounting	100	04
		Business Organization and Management	100	04
		Business Environment	100	04
	II	Financial Accounting	100	04
		Business Economics	100	04
		Banking Theory & Practice	100	04
		Community Service Project	100	04
II	III	Corporate Accounting	100	04
		Banking and theory practices	100	04
		Business statistics	100	04
	IV	Accounting for service Organizations	100	04
		Income Tax	100	04
		Business Law	100	04
		Entrepreneurship	50	02
III	V	Business Leadership	50	02
		Cost Accounting	100	04
		Goods and service tax	100	04
		Commercial Geography	100	04
		Rural and farm credit	100	04
		Central banking	100	04
		Project work	100	04
	VI	Tally	100	04
		Marketing	100	04
		Auditing	100	04
		Management accounting	100	04
		Marketing financial service	100	04
		Financial Service	100	04
		Project work	100	04

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NAAC B) DR. P.V.N. RAJU

VIDYAPRANGANAM, KAKINADA

Bachelor of Vocation: sustainable Agriculture

Course structure and syllabi: w.e from 2021-22 Admitted

Batch Semester -I

S. No	Course	Name of the Subject	Total Marks	Mid. Sem Exam	Sem.End Exam	Teaching Hours	Credits
1	First Language	English	100	30	70	4	3
2	Second Language	Telugu	100	30	70	4	3
3	Life Skill Course	Human Values & Professional Ethics	50	-- -	50	2	2
4	Skill Development Course	Plant Nursery (Botany)	50	---	50	2	2
5	Major 1	chemistry	100	30	70	4	4
	Major 2	Seed science and technology	100	30	70	4	4
	Core 1	Fundamentals of horticulture	100	30	70	4	4
8	Core 2	Fundamentals of agronomy	100	30	70	4	3
9	Major 1 Lab	Chemistry Lab	50	-- -	50	2	1
10	Major 2 Lab	Seed science and technology Lab	50	---	50	2	1
11	Core 1 Lab	Fundamentals of Horticulture lab	50	---	50	2	1
12	Institutional On Job Training	On Job Training	50	---	50	2	1
			900	180	720	36	29

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(A.P. GOVT., AIDED, AUTONOMOUS & NAAC B)
DR. P.V.N. RAJU VIDYAPRANGANAM, KAKINADA

Bachelor of Vocation: Sustainable Agriculture
Course structure and syllabi: w.e from 2020-2020 Admitted Batch
Semester III

II Year; Semester III

S.No	Course	Total Marks	Mid Sem Exam	Sem End Exam	Teaching Hours	Credits
General Education						
1.	English Communication Skills-III	100	25	75	4	2
2.	Chemistry (Inorganic and Organic Chemistry)	100	25	75	4	3
3.	Lab Practical	50		50	2	2
4.	Protected cultivation of Horticultural crops	100	25	75	4	3
5.	Lab Practical	50		50	2	2
Skill Education						
1	Fundamentals of Plant Pathology	100	25	75	4	4
2	Lab Practical	50	0	50	2	2
3	Commercial vegetable production	100	25	75	4	4
4	Lab Practical	50	0	50	2	2
5	Agriculture Extension, Rural Sociology And Psychology	100	25	75	4	4
6	On Job Training	50	0	50		2
	Total	850			32	30

Chaitan

N. Venaprasad.

Srinivasanthy CAT

Harsh

IDEAL COLLEGE OF ARTS AND SCIENCES
 (A.P. GOVT., AIDED, AUTONOMOUS & NAAC B)
 DR. P.V.N. RAJU VIDYAPRANGANAM, KAKINADA
Bachelor of Vocation: Sustainable Agriculture
Course structure and syllabi: w.e from 2020-20 Admitted Batch
Semester IV

II Year; Semester IV

S.No	Course	Total Marks	Mid Sem Exam	Sem End Exam	Teaching Hours	Credits
General Education						
1.	Computer fundamental and office tools	100	25	75	4	2
2.	Chemistry (Spectroscopy and Physical Chemistry)	100	25	75	2	3
3.	Lab Practical	50		50		2
4.	Plant Physiology	100	25	75	4	3
5.	Lab Practical	50		50	2	2
Skill Education						
1.	Weed Management and Fodder crop production	100	25	75	4	4
2.	Lab Practical	100	25	75	4	4
3.	Farm Power and Machinery	50	0	50	2	2
4.	Lab Practical	50	0	50	2	2
5.	Livestock Farming	100	25	75	4	4
6.	On Job Training	50	0	50		2
	Total	850			32	30

Chaitanya

N. Varaprasad.

Saenivarmusthyat

Harish.

IDEAL COLLEGE OF ARTS AND SCIENCES
(A.P. GOVT., AIDED, AUTONOMOUS & NAAC B) DR.
P.V.N. RAJU VIDYAPRANGANAM, KAKINADA

Bachelor of Vocation: Sustainable Agriculture

Course structure and syllabi: w.e from 2021-22 Admitted Batch

Semester -I

S. No	Name of the Subject	Total Marks	Mid. Sem Exam	Sem. End Exam	Teaching Hours	Credits
1	English	100	30	70	4	3
2	Telugu	100	30	70	4	3
3	Basic computer application (LS)	50	-- -	50	2	2
4	Electrical appliances (SD)	50	---	50	2	2
5	Chemistry (Inorganic and Physical chemistry)	100	30	70	4	4
6	Chemistry (Practical- Analysis of salt mixture)	50	30	50	2	1
7	Introduction to Agronomy	100	30	70	4	4
8	Introduction to Agronomy Practical	50		70	2	1
9	Introduction to soil science	100	30	70	4	4
10	Introduction to soil science practical	50	---	50	2	1
11	Principles of plant breeding	100	30	70	4	4
12	On Job Training	50	---	50	2	1
		900	180	720	36	29

BA
Teacher B

M. Hanika

Y. Kusa Raju

IDEAL COLLEGE OF ARTS AND SCIENCES
(A.P. GOVT., AIDED, AUTONOMOUS &
NAAC B) DR. P.V.N. RAJU
VIDYAPRANGANAM, KAKINADA
Bachelor of Vocation: sustainable Agriculture
Course structure and syllabi: w.e from 2021-22 Admitted
Batch Semester –II

S.No	Course	Name of the Subject	Total Marks	Mid. Sem Exam	Sem.End Exam	Teaching Hours	Credits
1	First Language	English	100	30	70	4	3
2	Second Language	Telugu	100	30	70	4	3
3	Life Skill Course	Information & Communication Technology (ICT)	50	---	50	2	2
4	Skill Development Course -1	Solar Energy	50	---	50	2	2
5	Skill Development Course -2	Advertising	50	---	50	2	2
5	Major 1	chemistry	100	30	70	4	4
6	Major 2	Seed Science and technology	100	30	70	4	4
7	Core 1	Fundamentals of soil science	100	30	70	4	4
8	Core 2	Fundamentals of entomology	50	---	50	2	2
9	Major 1 Lab	Chemistry Lab	50	---	50	2	1
10	Major 2 Lab	Seed science and technology Lab	50	---	50	2	1
11	Core 1 Lab	Fundamentals of soil science -lab	50	---	50	2	1
12	Core2 lab	Fundamentals of entomology	50	---	50	2	1
			900	180	720	36	30

First spell between First year and Second Year Apprenticeship: Credits: 4; Marks: 100

Dr. Ann

Dr. Sangeetha
(Sangeetha, M)

Shreeya

Ideal College of Arts & Sciences (A), Kakinada
Bachelor of Vocational: Industrial Aquaculture and Fisheries
2020-2021
II Year; Semester III

S.No	Course	Total Marks	Mid Sem Exam*	Sem End Exam	Teachning Hours	Credits
General Education						
1.	English Communication Skills-III	100	25	75	4	2
2.	Organic and Inorganic Chemistry	100	25	75	4	3
3.	Lab Practical	50		50	2	2
4.	Zoology (Cytology, Genetics and Evalution)	100	25	75	4	3
5.	Lab Practical	50		50	2	2
Skill Education						
1	Inland and marine Fisheries	100	25	75	4	4
2	Lab Practical	50	0	50	2	2
3	Aquaculture Nutrition	100	25	75	4	4
4	Lab Practical	50	0	50	2	2
5	Fish Genetics & Aquaculture Biotechnology	100	25	75	4	4
6	On Job Training	50	0	50		2
	Total	850			32	30

IDEAL COLLEGE OF ARTS & SCIENCES (A), KAKINADA
Bachelor of Vocation: Industrial Aquaculture and Fisheries

Semester IV, 2020-2021

S.No	Course	Total Marks	Mid Sem Exam*	Sem End Exam	Teachning Hours	Credits
General Education						
1.	Computer fundamental and office tools	100	25	75	4	2
2.	Organic and Inorganic Chemistry & Physical chemistry	100	25	75	2	3
3.	Lab Practical	50		50		2
4.	Zoology (Embryology, Physiology and Ecology)	100	25	75	4	3
5.	Lab Practical	50		50	2	2
Skill Education						
1	Pathology in Aquaculture	100	25	75	4	4
2	Lab Practical	50	0	50	2	2
3	Ornamental Fisheries	100	25	75	4	4
4	Lab Practical	50	0	50	2	2
5	Fishery Microbiology and By-products	100	25	75	4	4
6	On Job Training	50	0	50		2
	Total	850		50	32	30

IDEAL COLLEGE OF ARTS AND SCIENCES
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DR. P.V.N. RAJU VIDYAPRANGANAM, KAKINADA
B.Voc., Industrial Aquaculture & Fisheries
I Year ,II semester 2020-2021

S.No	Course	Total Marks	Mid Sem Exam	Sem End Exam	Teaching Hours	Credits
General Education						
1.	English	100	30	70	4	3
2.	Second language-Telugu	100	30	70	4	3
3.	Life Skill Course	50	-	70	2	2
4.	Skill Development Course	50	-	50	2	2
	Skill Education	50	-	50	2	2
1	Zoology	100	30	70	4+2	4
2	Lab Practical ✓	50	-	50		1
3	Chemistry	100	30	70	4+2	4
4	Lab Practical ✓	50	-	50		1
5	Freshwater, Brackishwater and Mariculture	100	30	70	4+2	4
6	Lab Practical ✓	50	-	50		1
7	Crafts and Gears in Fisheries	50	-	50	2+2	2
8	Lab Practical ✓	50	-	50		1
	Total	850			34+2	28+2

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IDEAL COLLEGE OF ARTS AND SCIENCES
(A.P. GOVT., AIDED, AUTONOMOUS & NAAC B)
DR. P.V.N. RAJU VIDYAPRANGANAM, KAKINADA
Bachelor of Vocation: Commercial Aquaculture
Course structure and syllabi: w.e from 2020-2021 Admitted Batch
Semester I

S.No	Course	Total Marks	Mid Sem Exam	Sem End Exam	Teaching Hours	Credits
General Education						
1.	English	100	30	70	4	3
2.	Second language-Telugu	100	30	70	4	3
3.	Life Skill Course	50	-	70	2	2
4.	Skill Development Course	50	-	50	2	2
Skill Education						
1	Zoology	100	30	70	4+2	4
2	Lab Practical	50	-	50		1
3	Chemistry	100	30	70	4+2	4
4	Lab Practical	50	-	50		1
5	Biology of Finfishes and shellfishes	100	30	70	4+2	4
6	Lab Practical	50	-	50		1
	Principles of Aquaculture	50	-	50	2+2	2
	Lab Practical	50	-	50		1
	Total	850			34	28

IDEAL COLLEGE OF ARTS AND SCIENCES
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DR. P.V.N. RAJU VIDYAPRANGANAM, KAKINADA
B.Voc., Commercial Aquaculture
I Year ,II semester 2020-2021

S.No	Course	Total Marks	Mid Sem Exam	Sem End Exam	Teaching Hours	Credits
General Education						
1.	English	100	30	70	4	3
2.	Second language-Telugu	100	30	70	4	3
3.	Life Skill Course	50	-	70	2	2
4.	Skill Development Course	50	-	50	2	2
Skill Education						
1	Zoology	100	30	70	4+2	4
2	Lab Practical	50	-	50		1
3	Chemistry	100	30	70	4+2	4
4	Lab Practical	50	-	50		1
5	Freshwater, Brackishwater and Mariculture	100	30	70	4+2	4
6	Lab Practical	50	-	50		1
7	Crafts and Gears in Fisheries	50	-	50	2+2	2
8	Lab Practical	50	-	50		1
	Total	850			34	28

IDEAL COLLEGE OF ARTS AND SCIENCES
(A.P. GOVT., AIDED, AUTONOMOUS & NAAC B)
DR. P.V.N. RAJU VIDYAPRANGANAM, KAKINADA
Bachelor of Science: Food Technology
Course structure and syllabi: w.e.f 2020-21 Admitted Batch
Semester I

Semester – I

Sl. No.	Course	Name of the subject	Total Marks	Mid. Sem. Exam*	Sem. End Exam	Teaching Hours	Credits
1.	First Language	English	100	30	70	4	3
2.	Second Language	Telugu	100	30	70	4	3
3.	Life Skill Course	Human values and professional ethics	50	---	50	2	2
4.	Skill Development Course	Electrical Appliances	50	---	50	2	2
5.	Major 1	Food Production Trends	100	30	70	6	5
6.	Major 2	Fundamentals of Food Microbiology	100	30	70	4	4
7.	Major 2 lab	Fundamentals of Food Microbiology Lab	50	---	50	2	1
8.	Major 3	Fundamentals of Food Chemistry	100	30	70	4	4
9.	Major 3 lab	Fundamentals of Food Chemistry Lab	50	---	50	2	1
Total			700	150	550	30	25

Academy

Page

P. L. L. L.

S. Swendra /
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IDEAL COLLEGE OF ARTS AND SCIENCES
(A.P. GOVT., AIDED, AUTONOMOUS & NAAC B)
DR. P.V.N. RAJU VIDYAPRANGANAM, KAKINADA
Bachelor of Sciences: Food Technology
Course structure and syllabi: w.e.f 2019-20 Admitted Batch
Semester II

Semester – II

Sl. No.	Course	Name of the subject	Total Marks	Mid. Sem. Exam	Sem. End Exam	Teaching Hours	Credits
1.	First Language	English	100	30	70	4	3
2.	Second Language	Telugu	100	30	70	4	3
3.	Life Skill Course	Information & communication Technology (ICT)	50	---	50	2	2
4.	Skill Development Course-1	Solar Energy	50	---	50	2	2
5.	Skill Development Course-2	Advertising	50	---	50	2	2
6.	Major 1	Food Quality Management	100	30	70	6	5
7.	Major 2	Basic Principles of Food Preservation	100	30	70	4	4
8.	Major 3	Food Science and Nutrition	100	30	70	4	4
9.	Major 2 lab	Basic Principles of Food Preservation Lab	50	---	50	2	1
10.	Major 3 lab	Food Science and Nutrition Lab	50	---	50	2	1
Total			750	150	600	32	27

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DR. P.V.N. RAJU VIDYAPRANGANAM
KAKINADA

20-21

BBA (Digital Marketing) COURSE STRUCTURE

Semester – I

Sl. No.	Course	Name of the subject	Total Marks	Mid. Sem. Exam*	Sem. End Exam	Teaching Hours	Credits
1.	First Language	English	100	30	70	4	3
2.	Second Language	(Tel/Hindi/Urdu/Sans)	100	30	70	4	3
3.	Life Skill Course	Human Values & Professional Ethics	50	---	50	2	2
4.	Skill Development Course	Electrical Appliances	50	---	50	2	2
5.	CORE 1	Principles of Management	100	30	70	5	4
6.	CORE 2	Managerial Economics	100	30	70	5	4
7.	CORE 3	Fundamentals of Digital Marketing and Digital Markets	100	30	70	5	4
Total			600	150	450	27	22

Semester – II

Sl. No.	Course	Name of the subject	Total Marks	Mid. Sem. Exam	Sem. End Exam	Teaching Hours	Credits
1.	First Language	English	100	30	70	4	3
2.	Second Language	(Tel/Hindi/Urdu/Sans)	100	30	70	4	3
3.	Life Skill Course	ICT (Information & communication Technology)	50	---	50	2	2
4.	Skill Development Course	Solar Energy	50	---	50	2	2
5.	Skill Development Course	Advertising	50	---	50	2	2
6.	CORE 1	Accounting for Managers	100	30	70	5	4
7.	CORE 2	Digital and Social Media Marketing	100	30	70	5	4
8.	CORE 3	E-commerce	100	30	70	5	4
9.	Internship	Two Months Social Immersion Internship	100	---	---	---	4
Total			750	150	500	29	28

[Signature]
Head of the Department
BBA (Digital Marketing)
Ideal College of Arts & Sciences (A)
Kakinada

IDEAL COLLEGE OF ARTS AND SCIENCES

(A.P. GOVT., AIDED, AUTONOMOUS & NAAC-B)

DR. P.V.N. RAJU VIDYAPRANGANAM

KAKINADA – 533002.

Department of Computer Science

Course structure and syllabi: w.e.from 2020 -21 Admitted Batch.

B.Voc – Software Development First Year – Semester - I

S.No	Course	Name of the Subject	Total Marks	Mid. Sem Exam	Sem.End Exam	Teaching Hours	Credits
1	First Language	English	100	30	70	4	3
2	Second Language	Telugu	100	30	70	4	3
3	Life Skill Course	Human Values & Professional Ethics	50	---	50	2	2
4	Skill Development Course	Plant Nursery (Botany)	50	---	50	2	2
5	Major 1	Applied Maths - 1	100	30	70	4	4
6	Major 2	Photoshop and Flash	100	30	70	4	4
7	Core 1	Introduction to IT Tools	100	30	70	4	4
8	Core 2	IT Foundations & Programming Concepts	50	--	50	2	2
9	Major 1 Lab	Applied Maths-1 Lab	50	---	50	2	1
10	Major 2 Lab	Photoshop Lab	50	---	50	2	1
11	Core 1 Lab	PC Software Lab	50	---	50	2	1
12	Core 2 Lab* Institutional On Job Training	On Job Training	50	---	50	2	1
			850	150	700	34	28

IDEAL COLLEGE OF ARTS AND SCIENCES

(A.P. GOVT., AIDED, AUTONOMOUS & NAAC-B)

DR. P.V.N. RAJU VIDYAPRANGANAM

KAKINADA – 533002.

Department of Computer Science

Course structure and syllabi: w.e.from 2020 -21 Admitted Batch.

B.Voc – Software Development

First Year – Semester - II

S.No	Course	Name of the Subject	Total Marks	Mid. Sem Exam	Sem.End Exam	Teaching Hours	Credits
1	First Language	English	100	30	70	4	3
2	Second Language	Telugu	100	30	70	4	3
3	Life Skill Course	Information & Communication Technology (ICT)	50	---	50	2	2
4	Skill Development Course -1	Solar Energy	50	---	50	2	2
5	Skill Development Course -2	Advertising	50	---	50	2	2
5	Major 1	Applied Maths -II	100	30	70	4	4
6	Major 2	C Programming	100	30	70	4	4
7	Core 1	Networking & Internet Applications	100	30	70	4	4
8	Core 2	Microsoft Advanced Excel	50	---	50	2	2
9	Major 1 Lab	MS Advanced Excel Lab	50	---	50	2	1
10	Major 2 Lab	C Programming Lab	50	---	50	2	1
11	Core 1 Lab	Networking Lab	50	---	50	2	1
12	Core 2 Lab* Institutional On Job Training	On Job Training	50	---	50	2	1
13	Apprenticeship	First Phase	---	---	---	---	4
			900	150	750	36	34