## MAPPING OF THE COURSE TO EMPLOYABILITY/ ENTREPRENEURSHIP/ SKILL DEVELOPMENT.

Class	Course Name	Course Code	Topic focussing on employability/Entrepr eneurship/Skill development	Employability/Entrepreneurship/ Skill development
F.Y.B.Sc		Course Code:		
Zoology		RJSUZOO101	Unit II: Ecology-I Unit 2.2.1 Soil.	Critical thinking and reasoning Entrepreneurship: Soil analyst
			Unit III Biodiversity and its conservation:	Develops students interest in Ayurveda-Medicines, Industry, Agriculture, Research, Job opportunity, Environmental conservation
		Course Code: RJSUZOO102	Unit I- Biomolecules-I 1.2 Carbohydrates	Development of Analytical skills Employability in the field of Nutrition and dietics
			Unit II-Basic biotechnology .	Knowledge gained - Varied Applications of biotechnology, knowhow of different technique. Employability: In Biotech and Pharmaceutical companies
			UNIT III: Laboratory safety, Units and Measurement 3.1: Introduction to good laboratory practices.	Students understand the importance of accuracy, precision and reproducibility in experiments. Employability as lab technician
Practical I & II		Course Code: RJSUZOOP101 RJSUZOOP102		Development of memory skills, analytical ability and good laboratory practice
		Course Code:		
	RJSUZO	RJSUZOO201	Unit II Ecology -II 2.2 Population Ecology:	SKILL:Employability with Census data collection
			Unit III- Basics of Ethology Entire Unit	Development of critical thinking and reasoning. Employability in the field of Wildlife research and conservation

	Course Code: RJSUZOO202	Unit I: Biomolecules-II 1.3: Vitamins	Development of Analytical skills Employability in the field of Nutrition and dietics
		Unit II Health and Hygiene:.	Employability in the Health Industry
		Unit III- Instrumentation. Skills: SOP of Lab. Instruments.	Employability: Lab.Technicians, Instrument dealers or suppliers.
Practical I & II	Course Code: RJSUZOOP201 RJSUZOOP202		Development of memory skills, analytical ability and good laboratory practice

Class	Course Name	Course Code	Topic focussing on employability/Entrepr eneurship/Skill development	Employability/Entrepreneurship/ Skill development
S.Y.B.Sc Zoology		Course Code: RJSUZOO301	Unit I: Type study; Earthworm.	Skill: Scientific study, Understanding anatomy of various organ systems. Employability: In the field of research, vermiculturist
		Unit II- Life Processes	Knowledge gained: Comparative Physiological process in animals Employability in the field of MLT and Paramedics	
		Course Code:	Unit I Biochemistry I	Skill : Analytical Thinking
	RJSUZ	RJSUZOO302	Unit II Genetics,	Knowledge gained: Inheritance study and Problem solving based on genetics. Employability: Genetic counsellor, Genetic lawyer, Research in Genetics
			Unit III- Molecular Biology	Development of critical thinking and reasoning abilities. Development of problem solving abilities. Employability in the field of research and life science industries.

	Course Code: RJSUZOO303	Unit I: Parasitology	Skill: Scientific study, Understanding parasitic diseases in animals & humans. Employability: Research on parasites, in field of Public health, Parasite evolution and taxonomy.
		Unit II- Fishery Biology 2.1 Fishing communities of India 2.4 Methods of fish preservation 2.5 Nutritive value of fish and fish products	Development of entrepreneurship & industrial skills Employability in the field of community work & fisheries sector, Fish processing industries.
		Unit III: Economic Entomology 3.1 Honey bee 3.2 Lac insect 3.3 Silk moth: Skill 3.5 Methods of insect control	Skill processes involved apiculture, sericulture and control measures for crop pest. Employability: Entrepreneur as Apiculturist Sericulturist Job in pest control industry
Practical	Course Code: RJSUZOOP301 RJSUZOOP302 RJSUZOOP303		Development of memory and problem solving skills. Entrepreneurship skills in the field of entomology and fisheries
	Course Code: RJSUZOO401	Unit I- Animal Type Cockroach	Knowledge gained- Anatomical structure and function of various organs system. Employability in the field of Taxonomy and Physiological research related to entomology
		Unit II- Life Processes II	Knowledge gained: Comparative Physiological process in animals Employability in the field of MLT and Paramedics
		Unit III Cell Biology:	Job in biochemistry, medicine, and biotechnology
	Course Code:	Unit I Biochemistry II	Skill : Analytical Thinking

RJSUZOO402	Unit II Genetics	Knowledge gained: pedigree analysis and inheritance pattern for various diseases. Employability: Genetic counsellor, Research, Geneticist.
	Unit III- Evolution.	Development of reasoning & critical thinking abilities. Employability in the field of Palaeontology & Evolutionary biology

		Course Code: RJSUZOO403	Unit I: Parasitology	Skill: understanding of human, domesticated animal and wildlife animal diseases. Employability: Epidemiology, human health, community health related sectors and related research.
			Unit II Animal husbandry 2.2 Poultry 2.3 Cattle Farming	Knowledge gained: concept of types and methodology of animal farming with economic value. Employability in Poultry Dairy Industry and Entrepreneurship in the same field
			Unit III- Behavioural Ethology	Entire Unit Development of critical thinking and reasoning. Employability in the field of Wildlife research and conservation
Practical I, II & III		Course Code: RJSUZOOP401 RJSUZOOP402 RJSUZOOP403		Development of memory and problem solving skills. Gain of entrepreneurship skills in the field of poultry and dairy sciences
Class	Course Name	Course Code	Topic focussing on employability/Entrepr eneurship/Skill development	Employability/Entrepreneurship/Sk development
T.Y.B.Sc		RJSUZOO501	Unit I Type Study Sepia	Skill: Understanding of organ systems Employability: Fisheries

	Unit II- Comparative anatomy of vertebrates—I Skin, Digestive system and circulatory system	Skill: Understanding of organ systems Employability: Fisheries
	Unit IV: Endocrine glands and their regulation	Skill: Critical Thinking Employability: Pathology lab
RJSUZOO502	Unit I Basic Haematology	Skill: Technical Employability: Pathology lab
	Unit II Basic immunology	Skill: Technical lab, Employability: Pathology Research lab

		Unit III- Applied haematology & immunology	Skill: Technical Employability: Pathology lab, Research lab Entrepreneurship: Diagnostic kits.
		Unit IV: Homeostasis Feedback mechanism, thermoregulation &ionic regulation	Skill: Critical thinking, Analytical ability, problem solving Employability: field biology Entrepreneurship: trade of exotic animals
	RJSUZOO503	Unit I: Molecular biology	Skill: Critical thinking, Analytical ability, problem solving  Employability: Research lab, pathology lab
		Unit II: Genetic engineering	Skill: Critical thinking, Analytical ability, problem solving  Employability: Research lab, pathology lab
		Unit III: Toxicology	Skill: Analytical ability, problem solving Employability: R & D sector, Environmental agencies, Animal Ethics

		Unit IV: Biostatistics	Skill: Analytical ability, problem solving Employability: Data analysist
	RJSUZOO503	Unit I: Human osteology	Skill: Analytical ability, Employability: Paramedics, gym trainers Entrepreneurship: development of artificial models for study
		Unit II: Ethology	Skill: Analytical ability Employability: Field biology Entrepreneurship: Consultant for animal training
		Unit III: Epidemiology-I	Skill: Critical Thinking Employability: Public health sector Entrepreneurship: development od study tools
		Unit IV: National parks and sanctuaries	Skill: Technical, Social Employability: Field biology Entrepreneurship: Ecotourism
Practical I , II & III	RJSUZOOP501 RJSUZOOP502 RJSUZOOP503		Skill: Technical, Social, GLP Employability: Field biology, R&D sector, Public sector

Practical	RJSUZOOP501 RJSUZOOP502 RJSUZOOP503 RJSUZOOP504		Skill: Technical, Social, GLP Employability: Field biology, R&D sector, Public sector Entrepreneurship: Ecotourism, Development of models
	RJSUZOO601	Unit I: Type studyShark	Skill: Understanding of organ systems Employability: Fisheries
		Unit II: Comparative anatomy of vertebrates II- respiratory system, urinogenital system and nervous system	Skill: Understanding of organ systems Employability: Fisheries
		Unit III: Developmental biology of chick	Skill: Technical skill, domain knowledge Employability: R&D sector Entrepreneurship: Preparation of permanent slides for educational purposes.

		Unit IV: Mammalian Histology	Skill: Critical Thinking Employability: Pathology lab
RJSUZO	00602	Unit I: Enzymology	
		Unit II: Chemical messengers and Cardiac physiology	Skill: Analytical ability, Problem solving, Critical thinking  Employability: Paramedics, technical assistant in hospital  Entrepreneurship: development of artificial models for study
		Unit III: Aspects of human reproduction	Skill: Analytical ability, Problem solving, Critical thinking  Employability: Paramedics, technical assistant in hospital
		Unit IV: General pathology	Skill: Analytical ability, Problem solving, Critical thinking  Employability: Paramedics,  Pathology lab
RJSUZO	00603	Unit I: Cancer biology	Skill: Analytical ability, Problem solving, Critical thinking  Employability: Paramedics,  Pathology lab, Research lab
		Unit II: Animal tissue culture	Skill: Analytical ability, Problem solving, Critical thinking  Employability: Paramedics, Pathology lab, Research lab
		Unit III: Human genetics	Skill: Analytical ability, Problem solving, Critical thinking  Employability: Paramedics, Genetics lab, Research lab  Entrepreneurship: Genetic counselling
		Unit IV:Bioinformatics	Skill: Analytical ability, Problem solving, Critical thinking Employability: field of computational biology

		Unit I Zoogeography	Skill: Technical, Social Employability: Field biology Entrepreneurship: Ecotourism, Wildlife photographer
	RJSUZOO604	Unit II: Bioprospecting and Zoopharmacognosy	Skill: Technical, Social Employability: Field biology, R&D sector,
		Unit III: Epidemiology- II	Skill: Critical Thinking Employability: Public health sector Entrepreneurship: development od study tools
		Unit IV: Wildlife management	Skill: Technical, Social Employability: Field biology, R&D sector, Wildlife conservation Entrepreneurship: Ecotourism, Environmental audit,
Practical I, II, III & IV	RJSUZOOP601 RJSUZOOP602 RJSUZOOP603 RJSUZOOP604		Skill: Technical, Social, Critical thinking, GLP Employability: Field biology, R&D sector, Wildlife conservation, Genetics lab, pathology lab Entrepreneurship: Ecotourism, Environmental audit, Development of artificial model, permanent slides for education

## ENVIRONMENTAL SCIENCE(APPLIED COMPONENT) MAPPING OF THE COURSE TO EMPLOYABILITY/ ENTREPRENEURSHIP/ SKILL DEVELOPMENT.

			DEVELOPIVIENT.	
Class	Course Name	Course Code	Topic focussing on employability/Entrep reneurship/Skill development	Employability/Entrepreneurship/Skill development
T.Y.B.Sc		Course Code:		
Zoology & Botany		RJSUEVS505	Unit I: - Ecological issues of India	Critical thinking and logical reasoning.  Awareness about India's ecological problems and their possible solutions.  Employability in the field of Demography & Conservation biology.
			Unit II: Environmental Pollution	Skill: Analytical thinking Employability: Field of Disaster management
			Unit III: Alternate Energy Resources	Skill: Critical thinking & analytical skill Employability: Environmental audit
			Unit IV: Green Chemistry	Skills: Critical thinking and Analytical skills. Employability: in the field of environmental research and environmental consultancy
Practical		Course Code: RJSUEVSP50 5		
			Unit I: Ecological restoration	Skill: Scientific study, Understanding effluent treatment and bioremediation Employability: Research in environmental sector, public health and hygiene
		Course Code: RJSUEVS605	Unit II: Biodiversity conservation and ecotourism	Development of analytical skills. Employability: Field biology, conservation and community work, wildlife photography and documentation.
			Unit III: Climate change	Development of critical thinking. Employability: Research in environmental sector, policy making.
			Unit IV: Disaster management	Skill: Disaster preparedness skill

		Employability: Governmental and Non-
		governmental organizations for disaster
		management.
Practical	Course Code:	Development of memory and analytical
	RJSUEVSP60	skills for laboratory work.
	5	Gain of communication skills and
		leadership qualities