Practical -6: Study of morphology, classification, anatomy and reproduction in Cycas. Practical -7: Study of morphology, classification & anatomy, reproduction in Pinus. Practical -8: Study of morphology, classification anatomy, reproduction in Gnetum.

Practical -9: Study of important blue green algae causing water blooms in the lakes.

Practical -10: Preparation of natural media and cultivation of Azolla in artificial ponds.

Practical -11: Study different algal products and fossils impressions and slides.

Practical-12: Visit to algal cultivation units/lakes with algal blooms/Fern house/ Nurseries/Geology museum/lab to study plant fossils.

(Note: Botanical study tour to a floristic rich area for 1-2 days and submission of study report is compulsory)

Evaluation Scheme for Lab Examination

Assessment Criteria		Marks
Classification and description		10
T.S. of given material		05
Identification		05
Viva Voice /Tour report		05
Total		25

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OPEN-ELECTIVE SYLLABUS:

Year	I	**Course Code:** 21BSC1BOT2	**Credits**	03
Sem.	II	**Course Title:** Bio-fuels	**Hours**	40
Course Pre-requisites, if any		NA		
Formative Assessment Marks: 40		Summative Assessment Marks: 60	Duration of ESA:.02 hrs.	
Course Outcomes	At the end of the course the student should be able to: 1. To make the students familiar with Bio-fuel plant species cultivation for commercialexploitation. 2. To make the students known about the Bio-fuel used in automobile industries and solvingfuel problems in feature. 3. To generate interest amongst the students to know the importance of Bio-fuel in day todaylife and economic wellbeing. 1.			

V SEM BOTANY. P-I

Unit III	14hrs
Taxonomic Hierarchy: Concept of taxa (family, genus, species); Categories and taxonomic hierarchy; Species concepts (biological, morphological, evolutionary). Modes of speciation. **Botanical Nomenclature:** Principles and rules (ICN); Brief account of Ranks of taxa, Type concept (Typification), Rule of priority, Author citation., valid publication, rejection of names, principle of priority and its limitations; Names of hybrids/cultivated species.	
Unit IV	**14hrs**
Biometrics, Numerical Taxonomy; Phenetics and Cladistics: Characters; Variations; OTUs, character weighting and coding; Cluster analysis; Phenograms, cladograms (definitions and differences). **Phylogenetic Systematics:** Terms and concepts (primitive and advanced, homology and analogy, parallelism and convergence, monophyly, Paraphyly, polyphyly, clades, synapomorphy, symplesiomorphy, apomorphy, lineage sorting, serial homology etc). **Origin and evolution of angiosperms;** Co-evolution of angiosperms and animals; Methods of illustrating evolutionary relationship (phylogenetic tree, cladogram). **Molecular taxonomy:** DNA sequences of chloroplast genes (*atp*B, rbcl.,) and one nuclear gene (nuclear ribosomal 18s DNA).	

V Semester

Plant Morphology and Taxonomy (Practical)

Program Name	B.Sc. in BOTANY	Semester	V
Course Title	**Plant Morphology and Taxonomy (Practical)**	Practical Credits	02
Course Code	DSC – 21BSC5BOT 5P1	Contact Hours	4 Hours per week
Formative Assessment	25 Marks	Summative Assessment	25 Marks

Practical Content

1. Study of root, stem and leaf structure and modifications. Study of inflorescence types. Study of flower and its parts, Study of fruits. Floral diagram and floral formula. **04 hrs**

2. Study of families mentioned in theory with at least two examples for each family and make suitable diagrams, describe them in technical terms (Description, V.S. flower, section of ovary, floral diagrams, floral formulae and systematic position according to Bentham & Hooker's system of classification) and identify up to species using the flora. **26 hrs**

3. Construction of plant phylogenetic trees using various loci (*atp*B & rbcL,) with various phylogenetic methods (Neibour Joining, Maximum Likelihood etc). (Demonstration). **06 hrs.**

4. Identify plants / plant products of economic importance belonging to the families mentioned in the syllabus; with binomial, family and morphology of useful parts. Cotton, Mango, Red gram, Green gram, Horse gram, Black gram, Bengal gram, Indigo, Brinjal, Tomato, Chilly, Tamarind, Bitter gourd, *Luffa*, Asfoetida, Cumin, Coriander, Coffee, Rubber, Tapioca, Ricinus, Ginger, Turmeric, Coir, Arecanut, Rice, Wheat, Ragi, Sugarcane *Annonamuricata, Catharanthus roses*, *Rauvolfia serpentaina, Justicia Adhatoda*, *Vitex nigundo* and *Leucas aspera.* **16 hrs.**

5. **Field visit**: Local or outside area / Botanical garden/ tribal settlements minimum 3 to 5 days.

Unit III	14hrs
Plant Breeding: Introduction and objectives. Breeding systems: modes of reproduction in crop plants. Important achievements and undesirable consequences of plant breeding. Methods of crop improvement. Introduction: Centers of origin and domestication of crop plants, plant genetic resources, Acclimatization. **Selection methods:** Self-pollinating and cross-pollinating plants and types of vegetative propagation in plants.	
Unit IV	**14hrs**
Hybridization: self, cross and vegetative propagation in plants – Procedure, advantages and limitations. **Quantitative inheritance:** Concept, mechanism, examples of inheritance of Kernel colour in wheat, Monogenic vs Polygenic inheritance.	
Inbreeding depression and heterosis: History, genetic basis of inbreeding depression and heterosis; Applications. Role of mutations in crop improvement; Polyploidy; Distant hybridization and role of biotechnology in crop improvement.	

PAPER-2.

V Semester

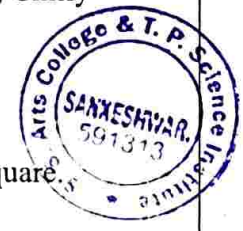
Genetics and Plant Breeding (Practical)

Program Name	**B.Sc. in BOTANY**	Semester	**V**
Course Title	**Genetics and Plant Breeding (Practical)**	Practical Credits	**02**
Course Code	**DSC – 21BSC5BOT 5P2**	Contact Hours	**4 Hours per week**
Formative Assessment	**25 Marks**	Summative Assessment	**25 Marks**

Practical Content

Practical: Plant breeding:

1. Reproductive biology, self and cross pollinated plants; vegetative propagation
2. Hybridization: Emasculation, bagging, pollination and production of hybrids and pollen fertility
3. Origin, distribution and centres of diversity of crop plants: Wheat, Sorghum, Rice, Chilly Sugarcane, Cotton, Potato, coffee, Sunflower and groundnut
4. Visit to nursery / horticulture.



Practical: Genetics

1. Mendel's laws through seed ratios. Laboratory exercises in probability and chi-square.
2. Chromosome mapping using point test cross data.
3. Pedigree analysis for dominant and recessive autosomal and sex-linked traits.
4. Incomplete dominance and gene interaction through seed ratios (9:7, 9:6:1, 13:3, 15:1, 12:3:1, 9:3:4).
5. Study of aneuploidy: Down's, Klinefelter's and Turner's syndromes.
6. Photographs/Permanent Slides showing Translocation Ring, Laggards and Inversion Bridge.

~~Fifth~~ Sixth **Semester B.Sc. (Zoology)**

Paper Code: ZOODSEP 6.2A
Teaching Hours: 3 H / Week
Total hours:45

Paper Title: Practicals-6A
Marks: Th-40+IA-10
Credits :1

1. Study of threatened animals of India (Tiger, Lion, Single horned Rhinoceros, Musk deer, Gaur, Golden Langur, Lion tailed monkey)
2. Estimation of CO_2 from different water samples
3. Estimation of dissolved oxygen from different water samples
4. Estimation of total hardness
5. Study of Ecological Adaptations and Morphological peculiarities: Examples" Hermit crab, Draco, Stick insect, Puffer fish, Exocetus, Phrynosoma, Chameleon and Bat.
6. Marking of existing Project tiger areas and Biosphere reserves in Indian map
7. Spotting of the endangered animals conserved in protected areas of Karnataka state (using Karnataka map)
8. Marking of National parks in Karnataka map
9. Marking of Wildlife sanctuaries in Karnataka map
10. Visit to nearby locality or forest to study the ecosystem

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Sixth Semester B.Sc. (Zoology)

Paper Code: ZOODSET 6.2A

Paper Title: Ecology, Zoogeography and Wildlife Conservation

Marks: Th-80+IA-20

Credits :3

Teaching Hours: 4 H / Week
Total hours:60

15Hours

UNIT-I

Ecology: (Part – A)

Earth as living planet, sub divisions of ecology, scope of ecology, biosphere
Abiotic factors: Lightand Temperature (effect on animals and plants)
Biotic Factor: Mutualism, commensalism, amensialism, parasitism, predation, competition and parasitism
Biogeochemical cycles: Principles and concepts of water, nitrogen, carbon, oxygen cycles
Community ecology: Community structure, ecological niches, edge effect, stratification, ecotone

UNIT-II **15 Hours**

Ecology: (Part – B)

Habitats: *Freshwater* habitat Lotic and Lentic systems. *Zonation of Sea*, Marine Biota, *Esturine* ecology, *Mangrooves*. *Terrestrial* habitat: A brief account of Biomes. Ecological Adaptations of Freshwater, Marine and Terrestrial fauna. Ecological Adaptations of Freshwater, Marine and Terrestrial animals

Population ecology: Density, natality, mortality, age distribution, population growth, types and curves

UNIT-III **15 hours**

Zoogeography: Zoogeographical realms of world, a brief account of Wallace's line, means of dispersal, factors affecting the dispersal of animals, continental drift theory, types of distribution of animals, island life, insular fauna, new world marsupials

UNIT-IV **15 hours**

Wildlife and its Conservation: Wildlife conservation methods, Wildlife in India, Causes for the depletion of wildlife, Wildlife conservation techniques, methods and measures. Brief account of: IUCN, WWF, Bombay Natural History Society, Indian Board for Wild Life, Red Data Book. Wild Life Act 1972 and its amendments in India, CITES. Project Tiger and Biosphere Reserve. Management of protect areas, Conservation of wetlands, Wildlife ecotourism

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B.A. Semester V

Course Title: SOCIETY AND TRIBES	
Total Contact Hours: 60	Course Credits: 4
Formative Assessment Marks: 40	Duration of ESA/Exam: 3 hours
Model Syllabus Authors:	Summative Assessment Marks: 60

Course Objectives

- To provide basic knowledge about social organisation among tribal people, with specific focus on Karnataka
- To critically understand the implications of transformation of tribal community
- To undertake micro research work on tribal community for effective showcase of practicality

Course Outcomes (COs) for DSC 10:

At the end of the course the student should be able to:

- Understand and appreciate the social organisation among the tribal community
- Assess the impact of social changes on tribal social life
- Communicate their micro research work effectively to the society

Articulation Matrix for Course 10: Mapping of Course Outcomes (COs) with Program Outcomes (POs 1-12)

Course Outcomes (COs)/ Program Outcomes (POs)	1	2	3	4	5	6	7	8	9
Understand and appreciate the social organisation among the tribals	X			X				X	
Assess the impact of social changes on tribal social life		X	X	X	X	X	X		X
Handle micro research work and communicate effectively	X		X	X	X	X		X	

DSC SOC C10 - Content of Course: SOCIETY AND TRIBES	60 Hours
UNIT – I CONCEPTS AND CATEGORIES	**15**
Chapter 1: Tribes and Indigenous People; Genealogies, Scheduled Tribes, Primitive Tribes, De-Notified or ex-criminal Tribes in India; Geographical Distribution of Tribes in India **Chapter 2:** Hadis (Yarava, Jenukuruba, Kadukurubas): Meaning, Rules of Marriage, Clan, Lineage, Consanguinity and Affinity; Male-Female relations **Chapter 3:** Social System, Legal System, Political System, Economic System, Religion and Magic	
UNIT – II CHANGES AND DEVELOPMENT ISSUES	**15**
Chapter 4: Social Mobility: Types, Tribes and Caste, Tribe-Caste-Peasant Continuum, Sanskritisation **Chapter 5:** Tribalisation, Detribalisation, Retribalisation **Chapter 6:** Tribal Development and Welfare: Approaches- Assimilationist and Isolationist; Problems of Exploitation, Land Alienation, Unemployment, Cultural Transformation, Scheduled Areas, Tribal Justice and Modern Law	
UNIT – III STUDYING TRIBES	**15**
Chapter 7: Tradition of Fieldwork: History and Significance; Ethics of Fieldwork **Chapter 8:** Indian Tribes- Participatory Method, Case Studies, Sample Surveys **Chapter 9:** Studying Tribes: Primary and Secondary Data; Etic & Emic Perspectives	
UNIT – IV FIELD WORK	**15**
Students have to take up field work in any nearby tribal settlement and present their findings in a Seminar and written report	

B.A. Semester V

Course Title: SOCIAL ENTREPRENEURSHIP	
Total Contact Hours: 60	Course Credits: 04
Formative Assessment Marks: 40	Duration of ESA/Exam: 03 hours
Model Syllabus Authors:	Summative Assessment Marks: 60

Course Objectives:

- To induce the concept of social entrepreneurship
- To motivate and guide towards start-up and business plans
- To help in innovation and incubation towards the start-up ecosystem

Course Outcomes (COs) for DSC 9:

At the end of the course the student should be able to:

- Understand the scope and need for social entrepreneurship
- Plan and implement socially innovative ideas
- Equip themselves to establish social enterprise or non-profit organisation

Articulation Matrix for Course 9:

Mapping of Course Outcomes (COs) with Program Outcomes (POs 1-12)

Course Outcomes (COs)/ Program Outcomes (POs)	1	2	3	4	5	6	7	8	9
Understand the scope and need for social entrepreneurship	X		X	X				X	X
Plan and implement socially innovative ideas			X	X	X	X			X
Equipped to start their own social enterprise or non for profit organisation							X	X	X

DSC SOC C9 - Content of Course: SOCIAL ENTREPRENEURSHIP		60 Hours
UNIT – I	**FUNDAMENTALS OF SOCIAL ENTREPRENEURSHIP**	15
Chapter 1 Social Entrepreneurship: Meaning, Features and Relevance; Social Business: Meaning; Difference between Social Entrepreneurship and Social Business; Relationship between Social Entrepreneurship and Social Change **Chapter 2** Typology of Ventures: Social Purpose Ventures, Social Consequence Entrepreneurship, Profit & Non-Profit Models of Social Entrepreneurship **Chapter 3** Identifying social business opportunities		
UNIT – II	**ESTABLISHMENT OF NON-PROFIT ORGANISATIONS**	15
Chapter 4 Concept (includes Non-Government Organisations), Objectives and establishment of Non-Profit Organisations (NPOs) **Chapter 5** Legal Procedure for establishment of NPOs: Societies Registration Act, Indian Companies Act, Charitable Endowments Act, Foreign Contribution (Regulation) Act (FCRA); Available Tax Reliefs **Chapter 6** Social Values of NPOs: Mission and Vision; MoA and Bye-Laws		
UNIT - III	**MANAGEMENT AND FINANCING**	15
Chapter 7 Human Resource Management: Staffing Plan, Social Security of Workers: Provisions and Benefits of Gratuity Act; Rules and Regulations of EPF Scheme **Chapter 8** Project Management: Definition of Concept: Identification of Project; Proposal Development: Basic Factors, Project Proposal Guide; Budget, Rationale for sending Project Proposal to the Donor; Proposal Writing; Do's and Don'ts of a Project Proposal **Chapter 9** Financing: Sources of Finance: Government, Donors, International Agencies; Documents Used in Fund Raising; Due Diligence; Campaigns; Internal Income Generation		

UNIT - IV	CASE STUDIES	15
Chapter 10 Pratham, RUDSET, Vivekananda Girijana Kalyana Kendra, B.R. Hills, etc. **Chapters 11 & 12** Students should study the functioning of a local NPO, present their ideas in a seminar and submit a report (For example working in the areas of Sanitation, Rural Development, Women Empowerment, etc.)		

SUGGESTED INTERNET RESOURCES

Unit 1

- https://www.un.org/development/desa/youth/wp-content/uploads/sites/21/2020/10/WYR2020-Chapter1.pdf
- https://www.adb.org/sites/default/files/institutional-document/826606/adou2022bn-social-entrepreneurship-definition-philippines.pdf
- https://web.mit.edu/sloan2/dese/readings/week01/Martin_Osberg_SocialEntrepreneurship.pdf
- https://entreprenorskapsforum.se/wp-content/uploads/2013/03/WP_09.pdf
- https://business.expertjournals.com/ark:/16759/EJBM_710mthembu147-177.pdf
- https://isfcolombia.uniandes.edu.co/images/201519/LRD32.pdf
- https://www.hec.edu/en/faculty-research/centers/society-organizations-institute/think/so-institute-executive-factsheets/what-social-business
- https://socialtrendspot.medium.com/what-is-the-difference-between-social-innovation-social-enterprise-social-entrepreneurship-fe3fce7bf925
- https://www.albany.edu/faculty/miesing/teaching/socent/3 Recognizing Social Opportunities.pdf

Unit 2

- http://eprints.lse.ac.uk/29032/1/cswp3.pdf Defining the non-profit sector
- https://prosper-strategies.com/seven-nonprofit-core-values-examples/

Unit 3

- https://www.intechopen.com/chapters/55499
- https://www2.fundsforngos.org/cat/project-planning-and-development/#:~:text=Project Planning: Project development is, lot of research and planning.
- https://www.pm4dev.com/resources/manuals-and-guidelines/117-guide-for-ngo-s-project-preparation-and-management-euroaid/file.html
- http://www.pm4ngos.org/wp-content/uploads/2015/05/PMD_Pro_Guide_2e_EN_USLetter.pdf

REFERENCE BOOKS:

- Bornestein, David. (2007). How to change the world: Social entrepreneurs and the power of new ideas, Oxford University Press
- Carlson, Eric J and James Koch (2018). Building a successful social venture: A guide for social entrepreneurs. Berrett-Koehler Publishers Inc, California

Physics.

SEMESTER-VI										
Category	Course code	Title of the Paper	Marks			Teaching hours/week			Credit	Duration of exams (Hrs)
			IA	SEE	Total	L	T	P		
Physics as Major Discipline										
DSC9	21BSC6C6PHY1L	Elements of Condensed Matter & Nuclear Physics	40	60	100	4	-	-	4	2
	21BSC6C6PHY1P	Elements of Condensed Matter & Nuclear Physics Practical	25	25	50	-	-	4	2	3
DSC10	21BSC6C6PHY2L	Electronic Instrumentation & Sensors	40	60	100	4	-	-	4	2
	21BSC6C6PHY2P	Electronic Instrumentation & Sensors Practical	25	25	50	-	-	4	2	3
DSC11	Another Department Code as a second Major Subject	Another Department Major Course Title	40	60	100	4	-	-	4	2
			25	25	50	-	-	4	2	3
DSC12	Another Department Code as a second Major Subject	Another Department Major Course Title	40	60	100	4	-	-	4	2
			25	25	50	-	-	4	2	3
INT	21BSC6IN1PHYIN	Internship / Mini Research Project	-	-	50	3 to 4 weeks			2	Report & Presentation
Total Marks					650	Semester Credits			26	

Chemistry

SEMESTER-V										
Category	Course code	Title of the Paper	Marks			Teaching hours/ week			Credit	Duration of exams (Hrs)
			IA	SEE	Total	L	T	P		
DSC5	21BSC5C5 CHE5L	Chemistry-5	40	60	100	4	-	-	4	2
	21BSC5C5 CHE5P	Chemistry Lab-5	25	25	50	-	-	4	2	4
DSC6	21BSC5C5 CHE6L	Chemistry-6	40	60	100	4	-	-	4	2
	21BSC5C5 CHE6P	Chemistry Lab-6	25	25	50	-	-	4	2	4

SEMESTER-VI										
Category	Course code	Title of the Paper	Marks			Teaching hours/week			Credit	Duration of exams (Hrs)
			IA	SEE	Total	L	T	P		
DSC7	21BSC6C6 CHE7L	Chemistry-7	40	60	100	4	-	-	4	2
	21BSC6C6 CHE7P	Chemistry Lab-7	25	25	50	-	-	4	2	4
DSC8	21BSC6C6 CHE8L	Chemistry-8	40	60	100	4	-	-	4	2
	21BSC6C6 CHE8P	Chemistry Lab-8	25	25	50	-	-	4	2	4
INT1	21BSC6 INT1L	Project work/ Industrial Tour and report	25	25	50	-	-	2	2	2

SEMESTER-VI

Category	Course code	Title of the Paper	Marks			Teaching hours/week			Credit	Duration of exam (Hrs)
			IA	SEE	Total	L	T	P		
Mathematics as Major Discipline										
DSC7	21BSC6C6MATMJ1L	Linear Algebra	40	60	100	4	-	-	4	2
	21BSC6C6MATMJ1P	Theory based Practical's on Linear Algebra	25	25	50	-	-	4	2	3
DSC8	21BSC6C6MATMJ2L	Numerical Analysis	40	60	100	4	-	-	4	2
	21BSC6C6MATMJ2P	Theory based Practical's on Numerical Analysis	25	25	50	-	-	4	2	3
DSC6	Another Department Code as a Minor Subject	Another Department Course Title	40	60	100	4	-	-	4	2
			25	25	50	-	-	4	2	3
DSC6	Another Department Code as a Minor Subject	Another Department Course Title	40	60	100	4	-	-	4	2
			25	25	50	-	-	4	2	3
INT1	21BSC6 INT1L	Internship/ Project	25	25	50	-	-	-	2	2
		Total Marks			**650**			**Semester Credits**	**26**	
		Total Marks for BSC Program			**4100**			**Total Credits for BSC Program**	**146**	

BOTANY

V Semester

	Course Code	Course Title	Credits Assigned	Instructional hours per week		Duration of exam	IA	Exam	Total
DSC	21BSC5BOT 5L1	Plant morphology and taxonomy (Theory)	4	4		2	40	60	100
	21BSC5BOT 5P1	Plant morphology and taxonomy (Practical)	2		4	3	25	25	50
	21BSC5BOT 5L2	Genetics and Plant Breeding (Theory)	4	4		2	40	60	100
	21BSC5BOT 5P2	Genetics and Plant Breeding (Theory)	2		4	3	25	25	50

VI Semester

	Course Code	Course Title	Credits Assigned	Instructional hours per week		Duration of exam	IA	Exam	Total
DSC	21BSC6BOT 6L1	Cell Biology (Theory)	4	4		2	40	60	100
	21BSC6BOT 6P1	Cell Biology (Practical)	2		4	3	25	25	50
	21BSC6BOT 6L2	Plant Physiology and Biochemistry (Theory)	4	4		2	40	60	100
	21BSC6BOT 6P2	Plant Physiology and Biochemistry (Practical)	2		4	3	25	25	50

Course Code	Course Title	Credits Assigned	Submission	Viva-voce	Total
	Project	2	25	25	50

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B.Sc. in Zoology Effective from 2023-24

Sem.	Type of Course	Theory/ Practical	Course Code	CourseTitle	Instruction hour/ week	Total hours /sem	Duration of Exam	Marks			Credits
								Formative	Summative	Total	
V	DSCC-9	Theory	21BSC5C5ZOO 5L	Non-Chordates and Economic Zoology	04hrs	56	02 hrs	40	60	100	04
	DSCC-10	Practical	21BSC5C5ZO O5P	Non-Chordates and Economic Zoology	04 hrs	56	03 hrs	25	25	50	02
	DSCC-11	Theory	21BSC5C6ZO O6L	Chordates and Comparative Anatomy	04hrs	56	02 hrs	40	60	100	04
	DSCC-12	Practical	21BSC5C6ZO O6P	Chordates and Comparative Anatomy	04 hrs	56	03 hrs	25	25	50	02
	Other subject										04
	Other subject										02
	Other subject										04
	Other subject										02
	SEC-3	Practical		The Bee Keeping	04hrs	56	03 hrs	25	25	50	02
	Total										**26**
VI	DSCC-13	Theory	21BSC6C7ZO O7L	Evolutionary and Developmental Biology	04hrs	56	02 hrs	40	60	100	04
	DSCC-4	Practical	21BSC6C7ZO O7P	Evolutionary and Developmental Biology	04 hrs	56	03 hrs	25	25	50	02
	DSCC-15	Theory	21BSC6C8ZO O8L	Environmental Biology, Wildlife Management and Conservation	04hrs	56	02 hrs	40	60	100	04
	DSCC-16	Practical	21BSC6C8ZO O8P	Environmental Biology, Wildlife Management and Conservation	04 hrs	56	03 hrs	25	25	50	02
	Other subject										04
	Other subject										02
	Other subject										04
	Other subject										02
	Internship-1	Practical		Internship				50	0	50	02
	Total										**26**