

DON BOSCO ARTS & SCIENCE COLLEGE
ANGADIKADAVU
(Affiliated to Kannur University Approved by Government of Kerala)
ANGADIKADAVU P.O., IRITTY, KANNUR – 670706



COURSE PLAN

DEPARTMENT OF MANAGEMENT
(2020 – 23)

SEMESTER – IV

ACADEMIC YEAR - (2021-22)

IV Semester BBA (2020 - 23)

SL. No.	Name of Subjects with Code	Name of the Teacher	Duty Hours per week
1.	4B06BBA-Human Resource Management	Sunitha K S	6
2.	4B07BBA-Financial Management	Vidya K P	5
3.	4B08BBA - Operations Management	Athira P	5
4.	4A13BBA-IT Tools for Business	Meenu Maria Tom	5
5.	4A14BBA-Environmental Studies	Meenu\Vidya	4

TIME TABLE

Day	09.50 Am - 10.45 Am	10.45 Am -11.40 Am	11.55 Am - 12.50 Pm	01.40 Pm - 02.35 Pm	02.35 Pm - 03.30 Pm
1	4B06BBA-Human Resource Management	4A13BBA-IT Tools for Business	4B07BBA-Financial Management	4A14BBA-Environmental Studies(Meenu)	4B08BBA - Operations Management
2	4B06BBA-Human Resource Management	4A14BBA-Environmental Studies(vidya)	4B08BBA - Operations Management	4B06BBA-Human Resource Management	4A13BBA-IT Tools for Business
3	4A13BBA-IT Tools for Business	4B06BBA-Human Resource Management	4B08BBA - Operations Management	4B07BBA-Financial Management	4A14BBA-Environmental Studies (vidya)
4	4B07BBA-Financial Management	4B06BBA-Human Resource Management	4A13BBA-IT Tools for Business	4A14BBA-Environmental Studies (vidya)	4B08BBA - Operations Management
5	4B07BBA-Financial Management	4B07BBA-Financial Management	4B06BBA-Human Resource Management	4A13BBA-IT Tools for Business	4B08BBA - Operations Management

Subject Code:	4B06BBA
Subject Name:	Human Resource Management
No. of Credits:	4
No. of Contact Hours:	90
Hours per Week:	6
Name of the Teacher:	Sunitha K S

SYLLABUS

Module I: Human resource management-introduction-meaning- evolution of Human Resource management-objectives of HRM-importance of HRM-functions and process of HRM-HR Manager-Duties and responsibilities. (15 Hours)

Module II : Acquiring Human Resources – HR planning –meaning-importance of HR planning-benefits of HR planning-HR planning process-job analysis-meaning-process of job analysis-methods-Job description-contents of job description-job specification-contents of job specification-methods of job analysis-job evaluation –meaning-methods-benefits- job enlargement-job enrichment- Recruitment-meaning and definition-sources of recruitment-selection-meaning-steps in selection process-difference between recruitment and selection-placement-induction and orientation. (25 Hours)

Module III: Developing Human Resources- Training and Development- training-meaning, need for training- training process-benefits of training-methods of training-types of training, importance of training in HRD-Executive development. (16 Hours)

Module IV: Rewarding Human Resources- performance Appraisal-meaning-definition-objectives-methods of performance appraisal-uses and limitations-compensation management, objectives-wage system-time rate –piece rate-incentives-factors influencing wage system, promotion- types-bases of promotion-benefits-transfer-types-demotion-reasons. (18 Hours)

Module V: Human Resource Problems- Employee Discipline-meaning –importance, Absenteeism-causes-measures to control absenteeism- labour turnover-lay off-grievance redressal-grievance –meaning-causes of grievance-importance of grievance redressal procedure of grievance handling. (16 Hours)

Skill Development Programmes

- Prepare chart showing the function of HRM and a brief explanation on the need for each function
- Prepare an advertisement for recruitment and selection of candidate for any organization of your choice
- Develop a format for performance appraisal of an employee.
- Choose any MNC and present your observation on training programme. (18 Hrs)

References:

Human Resource Management-text and cases-VSP Rao Human Resource Management-Aswathappa

Human Resource Management-L.M. Prasad

Human Resource Management-T.N. Chhabra

Personnel Management-Edwin.B.Flippo.McGraw Hill Personnel Management-C.B. Memoria

TEACHING SCHEDULE

No of Weeks	Dates	Session	Topic
1	03-01-2022 To 08-01-2022	1	Module 1: Human resource management introduction-
		2	Meaning and Definition
		3	Evolution of Human Resource management
		4	Evolution of Human Resource management
		5	Objectives of HRM
		6	Importance of HRM
		08 January	Second Saturday
2	10-01-2022 To 15-01-2022	7	Functions
		8	Functions
		9	Process of HRM
		10	Process of HRM
		11	HR Manager-Duties
		12	Responsibilities of HR Manager
3	17-01-2022 To 22-01-2022	13	Unit test 1
		14	Module 2: Acquiring Human Resources
		15	HR planning -meaning
		16	Importance of HR planning

No of Weeks	Dates	Session	Topic
		17	Benefits of HR planning
		18	HR planning process
4	24-01-2022 To 29-01-2022	19	HR planning process
		20	Job analysis
		26 January	Republic Day
		21	Process of job analysis
		22	Methods of Job analysis
		23	Job description
		24	contents of job description
5	31-01-2022 To 05-02-2022	31 January	Don Bosco
		25	Job specification
		26	Contents of job specification
		27	Methods of job analysis
		28	Job evaluation-meaning
		29	Methods
		30	Benefits
6	07-02-2022 To 12-02-2022	31	Job enlargement
		32	Job enrichment
		33	Recruitment-meaning and definition
		34	Sources of recruitment
		35	Selection-meaning
		36	Steps in selection process-
		12 February	Second Saturday
7	14-02-2022 To 19-02-2022	37	Difference between recruitment and selection
		38	Placement
		39	Induction and orientation
		40	Unit test 2
		41	Module 3: Developing Human Resources
		42	Training and Development
8	21-02-2022 To 26-02-2022	43	I Internal Examination
		44	I Internal Examination
		45	I Internal Examination
		46	I Internal Examination
		47	I Internal Examination
		48	I Internal Examination
9	28-02-2022 To	49	Training- meaning
		01 March	Maha Sivarathri

No of Weeks	Dates	Session	Topic
	05-03-2022	50	Need for training
		51	Training process
		52	Benefits of training
		53	Methods of training-.
		54	Types of training
10	07-03-2022 To 12-03-2022	55	Types of training
		56	Importance of training in HRD
		57	Executive development
		58	Executive development
		59	Unit test 3: Rewarding Human Resources
		60	Performance Appraisal
		12 March	Second Saturday
11	14-03-2022 To 19-03-2022	61	Meaning-definition
		62	Objectives
		63	Methods of performance appraisal
		64	Uses and limitations
		65	Compensation management, objectives
		66	wage system
		67	Time rate and piece rate
12	21-03-2022 To 26-03-2022	68	Incentives
		69	Factors influencing wage system
		70	Promotion
		71	Types
		72	Bases of promotion
		73	Benefits
		74	Transfer, types
13	28-03-2022 To 02-04-2022	75	Demotion
		76	demotion-reasons
		77	Unit test 4
		78	Module V: Human Resource Problems
		79	Employee Discipline-meaning
		80	Importance
		81	Absenteeism
14	04-04-2022 To 09-04-2022	82	Causes
		83	Measures to control absenteeism
		84	Labour turnover
		85	Lay off
		86	Grievance redressal

No of Weeks	Dates	Session	Topic
		87	Grievance –meaning
		88	Causes of grievance-
		09 April	Second Saturday
15	11-04-2022 To 16-04-2022	89	Importance of grievance redressal
		90	Procedure of grievance handling
		91	Unit test 5
		92	Group Activity: Prepare chart showing the function of HRM and a brief explanation on the need for each function
		93	Group Activity: Prepare chart showing the function of HRM and a brief explanation on the need for each function
		94	Group Activity: Prepare an advertisement for recruitment and selection of candidate for any organisation of your choice
		95	Group Activity: Develop a format for performance appraisal of an employee
		13 April	Easter Holidays
		14 April	Easter Holidays
		15 April	Easter Holidays
		16 April	Easter Holidays
16	18-04-2022 To 23-04-2022	18 April	Easter Holidays
		96	Group Activity Develop a format for performance appraisal of an employee
		97	Group Activity: Choose any MNC and present your observation on training programme
		98	Group Activity: Choose any MNC and present your observation on training programme
		99	REVISION
		100	REVISION
		101	Old Question Paper Discussion
		102	Old Question Paper Discussion
17	25-04-2022 To 30-04-2022	103	II Internal Examination
		104	II Internal Examination
		105	II Internal Examination
		106	II Internal Examination
		107	II Internal Examination
		108	II Internal Examination

Subject Code:	4BO7BBA
Subject Name:	Financial Management
No. of Credits:	4
No. of Contact Hours:	90
Hours per Week:	5
Name of the Teacher:	VIDYA K P

Course Outcomes

CO 1. Understand the concept and objective of financial management

CO 2. Develop the ability to select the feasible and viable investment proposal

CO 3. Apply decision making tools in organizational context

CO 4. Ability to assess the risk and return of investment projects

Module I: Financial Management: Meaning, scope and objectives, Goals of financial management – Profit maximization – wealth maximization.

Module II: Cost of capital Meaning and significance – Computation of cost of Debt – cost of preference capital – Cost of equity – Weighted average cost of capital. Capital structure – Meaning and definition – Factors affecting capital structure – Optimal capital structure – over capitalization – under capitalization – EBIT – EPS analysis.

Module III: Working capital Management Meaning and definition – concepts of working capital – Factors affecting working capital – types of working capital- Financing of working capital – operating cycle concept of estimating working capital (Practical problems and theory).

Module IV: Capital budgeting: Meaning, definition – importance – techniques of capital budgeting – payback period – average rate of return – Net present value method – profitability methods – IRR – Merits and demerits of Non discounting and discounting techniques.

References:

1. Financial management: M Y Khan and P.K Jain
2. Financial management: I M Pandey
3. Financial management: R K Sharma & Shashi K Gupta
4. Financial management: Prasanna Chandra
5. Financial management: Geoffrey Knott

TEACHING SCHEDULE

No of Weeks	Dates	Session	Topic
1	03-01-2022 To 08-01-2022	1	Introduction to financial management
		2	Scope of financial management
		3	Objectives of financial management
		4	Goals of financial management – Profit maximization
		5	Wealth maximization
		08 January	Second Saturday
2	10-01-2022 To 15-01-2022	6	Functions of financial manager
		7	Functions of financial manager
		8	Role of financial manager
		9	Role of financial manager
		10	Class Test
		11	Cost of capital
3	17-01-2022 To 22-01-2022	12	Significance of cost of capital
		13	Computation of cost of Debt
		14	Computation of cost of Debt
		15	Computation of cost of Debt
		16	Computation of cost of Debt
		17	Cost of preference capital
4	24-01-2022 To 29-01-2022	18	Computation of cost of preference capital
		19	Computation of cost of preference capital
		26 January	Republic Day
		20	Computation of cost of preference capital
		21	Cost of equity
		22	Computation of cost of equity
5	31-01-2022 To 05-02-2022	31 January	Don Bosco
		23	Computation of cost of equity
		24	Weighted average cost of capital
		25	Computation of weighted average cost of capital
		26	Computation of weighted average cost of capital
		27	Computation of weighted average cost of capital
6	07-02-2022 To 12-02-2022	28	Capital structure – Meaning and definition
		29	Factors affecting capital structure
		30	Optimal capital structure

No of Weeks	Dates	Session	Topic
		31	Over capitalization
		32	Under capitalization
		12 February	Second Saturday
7	14-02-2022 To 19-02-2022	33	EBIT – EPS analysis
		34	Problems on EBIT – EPS analysis
		35	Class test
		36	Working capital Management - Meaning and definition
		37	Concepts of working capital
		38	Concepts of working capital
8	21-02-2022 To 26-02-2022	39	I Internal Examination
		40	I Internal Examination
		41	I Internal Examination
		42	I Internal Examination
		43	I Internal Examination
		44	I Internal Examination
9	28-02-2022 To 05-03-2022	45	Importance of working capital
		01 March	Maha Sivarathri
		46	Dangers of working capital
		47	Dangers of working capital
		48	Factors affecting working capital
		49	Factors affecting working capital
10	07-03-2022 To 12-03-2022	50	Factors affecting working capital
		51	Types of working capital
		52	Types of working capital
		53	Types of working capital
		54	Financing of working capital
		12 March	Second Saturday
11	14-03-2022 To 19-03-2022	55	Financing of working capital
		56	Financing of working capital
		57	Financing of working capital
		58	Operating cycle concept of estimating working capital
		59	Operating cycle concept of estimating working capital
		60	Problems on estimating working capital
12	21-03-2022 To 26-03-2022	61	Problems on estimating working capital
		62	Problems on estimating working capital
		63	Problems on estimating working capital
		64	Problems on estimating working capital

No of Weeks	Dates	Session	Topic
		65	Problems on estimating working capital
		66	Class Test
13	28-03-2022 To 02-04-2022	67	Capital budgeting: Meaning, definition
		68	Importance of capital budgeting
		69	Techniques of capital budgeting
		70	Techniques of capital budgeting
		71	Payback period
		72	Problems on payback period
		73	Modern methods of payback period
14	04-04-2022 To 09-04-2022	74	Problems on modern methods of payback period
		75	Average rate of return
		76	Problems on ARR
		77	Net present value method
		09 April	Second Saturday
		78	Problems on NPV
		79	Problems on NPV
		13 April	Easter Holidays
		14 April	Easter Holidays
		15 April	Easter Holidays
		16 April	Easter Holidays
16	18-04-2022 To 23-04-2022	18 April	Easter Holidays
		80	Profitability index
		81	Problems on profitability index
		82	IRR
		83	Problems on IRR
		84	Class Test
17	25-04-2022 To 30-04-2022	85	II Internal Examination
		86	II Internal Examination
		87	II Internal Examination
		88	II Internal Examination
		89	II Internal Examination
		90	II Internal Examination

Subject Code:	4B08BBA
Subject Name:	Operation Management
No. of Credits:	4
No. of Contact Hours:	90
Hours per Week:	5
Name of the Teacher:	Athira P

SYLLABUS

Module I: Introduction to Production Management: meaning- functions - Scope. Plant location - factors affecting location selection. Plant layout - principles-types of layouts. (20 Hours)

Module II: Production system: Different production systems. Production Planning and control -importance - elements - PPC in different production systems. (20Hrs)

Module III: Materials management - Importance - Principles. Material handling: equipment used. Maintenance Management - Types of maintenance - Methods study- Time study - Motion study - principles – work measurement. (20 Hrs)

Module IV: Inventory management - Importance - Tools - ABC, VED, FSN Analysis - EOQ – Reorder point - Safety Stock - Lead time. (15 Hrs)

Module V: Quality Management: Quality improvement techniques - quality control techniques. Advanced manufacturing technologies- TOC, Lean / Green manufacturing. (15Hrs)

BOOKS FOR REFERENCE:

1. Production management: Aswathappa K
2. Russell, Roberta S, and Bernard W. Taylor III, Operations Management, Pearson Education, New Delhi.
3. Operations Management for Competitive Advantage, Tata McGraw Hill, New Delhi.
4. Buffa, E.S., 'Modern Production Management', New York, John Wiley

TEACHING SCHEDULE

No of Weeks	Dates	Session	Topic
1	03-01-2022 To 08-01-2022	1	Introduction -Concept and Definition of OM
		2	Operations Management System
		3	Scope of Production Management
		4	Objectives of Production Management
		5	Historic Evolution of Production Management
		08 January	
2	10-01-2022 To 15-01-2022	6	Plant Location-Factors Determining Plant Location
		7	Steps In Facility Location Study
		8	Factory Layout
		9	Plant Layout- Functions –Objectives
		10	Factors Influencing Plant Layout
		11	Principles of Plant Layout
3	17-01-2022 To 22-01-2022	12	Types of Layouts
		13	Types of Layouts
		14	Techniques of Plant Layout
		15	Unit Test 1
		16	Elements of Production System
		17	Types of Production System
4	24-01-2022 To 29-01-2022	18	Production Planning and Control-Objectives
		19	Elements -Importance of PPC
		26 January	Republic Day
		20	Production / Operations Planning
		21	Production Control –Steps
		22	Objectives -Techniques -Scope of Operations Control
5	31-01-2022 To 05-02-2022	31 January	Don Bosco
		23	PPC In Different Production System
		24	Unit Test 2
		25	Materials Management -Importance -Principles
		26	Objectives And Functions of Materials Management
		27	Material Handling -Objectives – Equipment
6	07-02-2022 To 12-02-2022	28	Maintenance Management -Objectives -Policy
		29	Types of Maintenance -Advantages and Disadvantages
		30	Work Measurement –Techniques
		31	Method Study-Objectives-Procedures
		32	Time Study-Objectives –Procedures

No of Weeks	Dates	Session	Topic
		12 February	Second Saturday
7	14-02-2022 To 19-02-2022	33	Motion Study -Objectives -Procedures
		34	Unit Test 3
		35	Inventory Management -Types of Inventories
		36	Objectives And Importance of Inventory Management
		37	Inventory Costs
		38	Stock Levels
8	21-02-2022 To 26-02-2022	39	I Internal Examination
		40	I Internal Examination
		41	I Internal Examination
		42	I Internal Examination
		43	I Internal Examination
		44	I Internal Examination
9	28-02-2022 To 05-03-2022	45	Tools Of Inventory Control – ABC Analysis
		01 March	Maha Sivarathri
		46	HML -VED Analysis -Advantage and Dis Advantage
		47	FSN-SDE Analysis-Advantage and Disadvantage
		48	EOQ-Definition -Concept – Formula
		49	Unit Test 4
10	07-03-2022 To 12-03-2022	50	Quality Management -Concept -Definition
		51	Quality Planning –Techniques
		52	Concept of Cost of Quality
		53	Steps In Quality Control and Planning
		54	Quality Improvement Techniques -7 Tools
		12 March	Second Saturday
11	14-03-2022 To 19-03-2022	55	Check Sheet - Pareto's Chart -Benefits and Limitations
		56	Flow Chart
		57	Cause And Effect Diagram (Fish Bone Diagram)
		58	Histogram- Scatter Diagram -Control Chart
		59	Quality Control Techniques -7 Techniques
		60	Statistical Quality Control – SQC
12	21-03-2022 To 26-03-2022	61	Control Chart –Types
		62	Quality Circles -Definition – Characteristics
		63	Objectives And Method of Operation
		64	Techniques of Quality Circle
		65	Benefits And Limitations of Quality Circle
		66	ISO -Need –Principles
13	28-03-2022	67	TQM-Meaning -Definition –Features

No of Weeks	Dates	Session	Topic
	To 02-04-2022	68	Principles And Procedure of TQM
		69	Benefits of TQM-Disadvantages
		70	Reasons For Failure of TQM
		71	Core Concepts of TQM
		72	TPM (Total Productive Maintenance)- Concept
14	04-04-2022 To 09-04-2022	73	Features And Objectives of TPM
		74	KAIZEN-Meaning and Definition
		75	Characteristics And Benefits of KAIZEN
		76	Tools For Implementation of KAIZEN
		77	SIX SIGMA -Concepts -Definition Elements
		09 April	Second Saturday
15	11-04-2022 To 16-04-2022	78	Features of Six Sigma- Models of Six Sigma
		79	Advanced Manufacturing Technologies
		13 April	Easter Holidays
		14 April	Easter Holidays
		15 April	Easter Holidays
		16 April	Easter Holidays
16	18-04-2022 To 23-04-2022	18 April	Easter Holidays
		80	JIT Just in Time
		81	TOC - Theory of Constraints
		82	Lean /Green Manufacturing –Process
		83	WCM World Class Manufacturing
		84	Unit test 5
17	25-04-2022 To 30-04-2022	85	II Internal Examination
		86	II Internal Examination
		87	II Internal Examination
		88	II Internal Examination
		89	II Internal Examination
		90	II Internal Examination

Subject Code:	4A13BBA
Subject Name:	IT TOOLS FOR BUSINESS
No. of Credits:	4
No. of Contact Hours:	90
Hours per Week:	5
Name of the Teacher:	Meenu Maria Tom

COURSE OUTCOMES

CO 1: Understand the working on word, PowerPoint, Excel etc.

CO2: Develop basic computer awareness for letter drafting, Slide making, Payroll preparation

CO3: Understand the various shortcuts for faster functioning on the computer system

Module I: Computer: History, classifications. Hardware – Input, Output, Storage Devices, Software – System software, Application software. Memory- Types of memory (10Hrs)

Module II: Network of Computers- LAN, WAN, MAN, PAN. Network topologies, Internet, M-Commerce, WiFi (10Hrs)

Module III: Application of IT: Application in education, Health care, Business, (6Hrs)

Module IV: Cyber ethics: Meaning, Cybercrimes: - Computer virus, WORMS, Malware, Trojan Horse, Cyber forgery, Hacking, Fishing, Salami attack ,Email bombing (Concept only) (14Hrs)

Module V:MS WORD: MS word window components, New file, open file, Save. Save as, Editing text, adding word art, Alignment, setting paragraph, header and footer, Insert page number, Arranging text in Columns, Creating a table, modifying a table, Formatting a table. (20 Hours)

MS Excel: Creating worksheet with excel, spreadsheet, uses of spreadsheet, Editing cell contents, creating a simple formula, Creating a chart, Editing chart, Payroll preparation (20 Hours)

TEACHING SCHEDULE

No of Weeks	Dates	Session	Topic
1	03-01-2022 To 08-01-2022	1	Syllabus Introduction
		2	History of Computer
		3	History of Computer
		4	Classifications Of Computers
		5	Hardware – Input, Output, Storage Devices
		08 January	Second Saturday
2	10-01-2022 To 15-01-2022	6	Hardware – Input, Output, Storage Devices
		7	Software – System software, Application software
		8	Software – System software, Application software
		9	Memory- Types of memory
		10	Class Test
		11	Network of Computers
3	17-01-2022 To 22-01-2022	12	LAN
		13	WAN
		14	MAN
		15	PAN
		16	Network topologies
		17	Internet
4	24-01-2022 To 29-01-2022	18	M-Commerce
		19	WiFi
		26 January	Republic Day
		20	Class Test
		21	Application of IT: Application in education
		22	Application of IT: Application in Health Care
5	31-01-2022 To 05-02-2022	31 January	Don Bosco
		23	Application of IT: Application in Medicine
		24	Application of IT: Application in Business and Commerce
		25	Application of IT: Application in Industry
		26	Application of IT: Application in Defence
		27	Application of IT: Application in Publications
6	07-02-2022 To 12-02-2022	28	Class Test
		29	Cyber Ethics – Meaning and Need
		30	Cyber Crime – Meaning and Types
		31	Cyber Crime - Types

No of Weeks	Dates	Session	Topic
		32	Cyber Crime - Types
		12 February	Second Saturday
7	14-02-2022 To 19-02-2022	33	Cyber Crime - Types
		34	Management of Cyber Crime
		35	Management of Cyber Crime
		36	Information Technology Act
		37	Management of Cyber Crime
		38	ClassTest
8	21-02-2022 To 26-02-2022	39	I Internal Examination
		40	I Internal Examination
		41	I Internal Examination
		42	I Internal Examination
		43	I Internal Examination
		44	I Internal Examination
9	28-02-2022 To 05-03-2022	45	Introduction to MS Word
		01 March	Maha Sivarathri
		46	Practical
		47	Practical
		48	Practical
		49	Practical
10	07-03-2022 To 12-03-2022	50	Practical
		51	Practical
		52	Practical
		53	Practical
		54	Practical
		12 March	Second Saturday
11	14-03-2022 To 19-03-2022	55	Practical Test - Word
		56	Introduction to MS PowerPoint
		57	Practical
		58	Practical
		59	Practical
		60	Practical
12	21-03-2022 To 26-03-2022	61	Practical
		62	Practical
		63	Practical
		64	Practical
		65	Practical
		66	Practical

No of Weeks	Dates	Session	Topic
13	28-03-2022 To 02-04-2022	67	Practical
		68	Practical Test – MS Powerpoint
		69	Introduction to MS Excel
		70	Practical
		71	Practical
		72	Practical
14	04-04-2022 To 09-04-2022	73	Practical
		74	Practical
		75	Practical
		76	Practical
		77	Practical
		09 April	Second Saturday
15	11-04-2022 To 16-04-2022	78	Practical
		79	Practical
		13 April	Easter Holidays
		14 April	Easter Holidays
		15 April	Easter Holidays
		16 April	Easter Holidays
16	18-04-2022 To 23-04-2022	18 April	Easter Holidays
		80	Practical
		81	Practical
		82	Practical
		83	Practical Exam – MS Excel
		84	Model Practical Exam
17	25-04-2022 To 30-04-2022	85	II Internal Examination
		86	II Internal Examination
		87	II Internal Examination
		88	II Internal Examination
		89	II Internal Examination
		90	II Internal Examination

Subject Code:	4A14BBA
Subject Name:	Environmental Studies
No. of Credits:	4
No. of Contact Hours:	72
Hours per Week:	4
Name of the Teacher:	Meenu Maria Tom & Vidya K P

Course Outcomes

CO1. Acquire knowledge about environment and enable to contribute towards maintaining and improving the quality of the environment.

CO2. Understand the importance of protecting the environment and effect of environmental hazards

CO3. Analysis the ecosystem and the bio diversity nature of our country

CO4. Apply the awareness to point our Hot -spot of bio diversity in India and its conservation.

CO5. Identify the effect of environmental Degradation and the role of Government in protecting the environment.

CO6. Formulate some action plan to engage in activities for preventing environmental degradation.

Module I: Environmental studies - Meaning - definition - scope - Importance - Need - Components of environment: Lithosphere, Hydrosphere, Atmosphere and biosphere - need for public awareness - Natural resources: Forest resources. Water resources, Mineral resources, Energy Resources - Land resources - Role of individual in the conservation of natural resources - Equitable use of natural resources for sustainable life styles.

Module II: Eco-system- concept-Structure-Producers- Consumers- Decomposers- Energy flow in the eco-system - Bio-Diversity and its conservation: Introduction - Definition of genetic species and eco-system diversity - Value of Bio-diversity - Consumptive use - productive use - social , ethical and aesthetic value - Hot-spot of Bio-diversity - Threats to bio diversity - endangered and endemic species of India - Conservation of bio diversity: In -situ and Ex-situ conservation.

Module III: Environmental Degradation-Meaning - Types of pollutions - Causes, effects and control measures of Air pollution, Water pollution, Soil pollution - control

of Urban and Industrial waste - Environmental Ethics - Issues and possible solutions - Climate change - Global warming - acid rain - Ozone layer Depletion - solid waste management.

Module IV: Environmental Protection -National environment Policy - Environmental legislations - International conventions and agreements - GATT / WTO and environment - Role of central government - Pollution control Board and its role in environment protection - Environmental Impact Assessment (EIA) - Eco-friendly products - Environment Audit - Role of NGO in environment protection - Environmental movements - Chipko Movement - Apico Movement - Silent Valley - Environmental communication and Public awareness.

References

1. Environment Management- G.N.Pandey, Vikas Publishing House
2. Text Book of Environment- K.M.Agrawal, MacMillan
3. Ecology and Economics- Ram Prasad Sengupta- Oxford
4. The Biodiversity of India- BharuchaErach, Mapin Publishing Ltd, Ahmadabad
5. UGC

TEACHING SCHEDULE

No of Weeks	Dates	Session	Topic
1	03-01-2022 To 08-01-2022	1	Environmental studies - Meaning - definition
		2	Scope of environmental studies
		3	Importance of environmental studies
		4	Need of environmental studies
		08 January	Second Saturday
2	10-01-2022 To 15-01-2022	5	Components of environment: Lithosphere
		6	Hydrosphere
		7	Atmosphere and biosphere
		8	Need for public awareness
		9	Natural resources: Forest resources
3	17-01-2022 To 22-01-2022	10	Water resources
		11	Mineral resources
		12	Energy Resources
		13	Land resources

No of Weeks	Dates	Session	Topic
		14	Role of individual in the conservation of natural resources
4	24-01-2022 To 29-01-2022	15	Role of individual in the conservation of natural resources
		16	Equitable use of natural resources for sustainable life styles.
		26 January	Republic Day
		17	Equitable use of natural resources for sustainable life styles.
		18	Class Test
5	31-01-2022 To 05-02-2022	31 January	Don Bosco
		19	Eco-system- concept
		20	Structure
		21	Producers
		22	Consumers
6	07-02-2022 To 12-02-2022	23	Decomposers
		24	Energy flow in the eco-system
		25	Energy flow in the eco-system
		26	Bio-Diversity and its conservation: Introduction
		12 February	Second Saturday
7	14-02-2022 To 19-02-2022	27	Definition of genetic species and eco-system diversity
		28	Value of Bio-diversity
		29	Consumptive use
		30	Productive use
		31	Social, ethical and aesthetic value
8	21-02-2022 To 26-02-2022	32	I Internal Examination
		33	I Internal Examination
		34	I Internal Examination
		35	I Internal Examination
		36	I Internal Examination
		37	I Internal Examination
9	28-02-2022 To 05-03-2022	38	Hot-spot of Bio-diversity
		01 March	Maha Sivarathri
		39	Threats to bio diversity
		40	Endangered and endemic species of India
		41	Conservation of bio diversity, In-situ and Ex-situ conservation
10	07-03-2022	42	Class Test

No of Weeks	Dates	Session	Topic
	To 12-03-2022	43	Environmental Degradation-Meaning
		44	Types of pollutions
		45	Causes of pollutions
		12 March	Second Saturday
11	14-03-2022 To 19-03-2022	46	Effects and control measures of Air pollution
		47	Effects and control measures of Air pollution
		48	Effects and control measures of Water pollution
		49	Effects and control measures of Water pollution
12	21-03-2022 To 26-03-2022	50	Effects and control measures of Soil pollution
		51	Effects and control measures of Soil pollution
		52	control of Urban and Industrial waste
		53	Environmental Ethics
13	28-03-2022 To 02-04-2022	54	Issues and possible solutions
		55	Climate change
		56	Global warming
		57	Acid rain
14	04-04-2022 To 09-04-2022	58	Ozone layer Depletion
		59	Solid waste management
		60	Class Test
		09 April	Second Saturday
15	11-04-2022 To 16-04-2022	61	Environmental Protection, National environment Policy, Environmental legislation
		62	International conventions and agreements - GATT / WTO and environment
		13 April	Easter Holidays
		14 April	Easter Holidays
		15 April	Easter Holidays
		16 April	Easter Holidays
16	18-04-2022 To 23-04-2022	18 April	Easter Holidays
		63	Pollution control Board and its role in environment protection
		64	Environmental Impact Assessment (EIA)
		65	Eco-friendly products, Environmental audit
		66	Class Test