To. The Principal Secretary Rajbhavan, Bihar, Patna.

Sub.- Regarding submission of proposed course structure and uniform syllabus of Economics for 1st and 2nd Semester of 4-Year undergraduate.

Ref.- Letter No.-BSU(UGC)-02/2023-871/GS(I), Dated-09-06-2023 Sir.

In Compliance with your letter no.-BSU(UGC)-02/2023-871/GS(I), dated 09-06-2023 followed by above mentioned letter no, we are submitting course structure and syllabus proposed Economics s for 1st and 2nd semester of the 4 year under graduate course system as per UGC regulations.

Yours faithfully,

Enclosed-as above.

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Syllabus For Bachelor of Arts Programme

in

ECONOMICS

Under Choice Based Credit System (CBCS) (2023-24 onwards)

of

NEW EDUCATION POLICY-2020

(Semester-I & Semester-II)

We are submitting the syllabus of Bachelor of Arts Programme in Economics for Semester-I and Semester-II.

Prof. (Dr.) Dhirendra Kumar Singh Professor

P. G. Department of Economics VKS University, Ara Contact no. 943000673

Email: dksinghvksu@gmail.com

14.06.2023

Prof. Umesh Prasad

Professor,

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umeshprasad1008@yahoo.in

14.06.23

Dr. Benoy Kumar Lal

Associate Professor

Department of Economics Patna University, Patna

Contact: 9608570960

Email ID: bkl165@gmail.com

Course Structure for 4 Year Bachelor of Arts (B. A.) in Economics under CBCS System

(A) Major Core Courses

SI. No.	Sem.	Type of Course	Name ofCourse	Credits	Marks
1.	I	MJC-1	Introductory Microeconomics	6	100
2.	II	MJC-2	Mathematical Methods in Economics	6	100
3.	III	MJC-3	Introductory Macroeconomics	5	100
4.	III	MJC-4	Statistical Methods in Economics	4	100
5.	IV	MJC-5	Intermediate Microeconomics 1	5	100
6.	IV	MJC-6	Intermediate Macroeconomics	5	100
7.	IV	MJC-7	Indian Economy	5	100
8.	V	MJC-8	Intermediate Microeconomics 2	5	100
9.	V	MJC-9	Public Finance	5	100
10.	VI	MJC-10	International Economics	4	100
11.	VI	MJC-11	Contemporary Issues in Indian Economy	5	100
12.	VI	MJC-12	Development Economics	5	100
13.	VII	MJC-13	Advanced Quantitative Methods	5	100
14.	VII	MJC-14	Banking and Financial Institutions	5	100
15.	VII	MJC-15	Research Methodology	6	100
16.	VIII	MJC-16	Economics of Health and Education	4	100

Sub Total = 80

(B) Minor Courses to be offered by the Department for students of other Departments of Social Science

Sl. No.	Sem	Type of Course	Name of Course	Credits	Marks
1.	I	MIC-1	Introductory Microeconomics	3	100
2.	II	MIC-2	Mathematical Methods in Economics	3	100
3.	III	MIC-3	Introductory Macroeconomics	3	100
4.	IV	MIC-4	Statistical Methods in Economics	3	100
5.	V	MIC-5	Intermediate Microeconomics 1	3	100
6.	V	MIC-6	Intermediate Macroeconomics	3	100
7.	VI	MIC-7	Indian Economy	3	100
8.	VI	MIC-8	Intermediate Microeconomics 2	3	100
9.	VII	MIC-9	Public Finance	4	100
10.	VIII	MIC-10	International Economics	4	100

Sub Total = 32

Note: The Department may reduce the syllabus of the Minor Courses as per the credit distribution. The Department concerned may also decide practical courses.

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(C) Multidisciplinary Courses to be offered

SI. No.	Sem	Type of Course	Name of Course	Credits	Marks
1.	I	MDC-1	To be selected from the basket	3	100
2.	П	MDC-2	To be selected from the basket	3	100
3.	III	MDC-3	To be selected from the basket	3	100

Sub Total = 09

(D) Ability Enhancement Courses to be offered

Sl. No.	Sem	Type of Course	Name of Course	Credits	Marks
1.	I	AEC-1	MIL	2	100
2.	II	AEC-2	Environmental Science	2	100
3.	III	AEC-3	Disaster Risk Management	2	100
4.	IV	AEC-4	NCC/NSS/NGOs/Social Service/ Scout and Guide/Sports	2	100

Sub Total = 08

(E) Skill Enhancement Courses to be offered

Sl. No.	Sem	Type of Course	Name of Course	Credits	Marks
1.	1	SEC-1	To be selected from the basket	3	100
2.	II	SEC-2	To be selected from the basket	3	100
3.	Ш	SEC-3	To be selected from the basket	3	100

Sub Total = 09

(F) Value Added Courses to be offered

SI. No.	Sem	Type of Course	Name of Course	Credits	Marks
1.	I	VAC-1	To be selected from the basket	3	100
2.	П	VAC-2	To be selected from the basket	3	100

Sub Total = 06

Sl. No.	Sem	Type of Course	Name of Course	Credits	Marks
1.	V	INT-1	Summer Internship	4	100

Sl. No.	Sem	Type of Course	Name of Course	Credits	Marks
1.	VIII	RP-1	Research/Dissertation	12	100

Grand Total = 160 Credits

(G) Basket for Multidisciplinary Courses (MDC) To be decided by Respective Department

(H) Basket for Skill Enhancement Courses (SEC) See at the end of structure (this booklet)

(I) Basket for Value Added Courses (VAC) See at the end of structure (this booklet)

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SEMESTER-I

MJC-1: INTRODUCTORY MICROECONOMICS (Credit: 6)

Course Outcomes

After the completion of the course, the students will be able to:

- CO1: Use microeconomic concepts such as saving and investment in their real life situation.
- CO2: Understand the profit making techniques used by different businesses or firms
- CO3: Grasp the basic concepts of Microeconomics such as Laws of Demand, Supply and Elasticity
- CO4: Apply Indifference Curve Analysis in Deriving Demand Curve Income and Substitution Curve

Unit	Topics to be covered	No. of Lectures
1	Exploring the subject matter of Economics: Definition of Economics, Need, Scope and Methods of Economics, Nature and subject matter of Economics, Problem of scarcity and choice, Central Problems of Economy.	10
2	Supply and Demand: (a) Concept and types of demand, determinants of individual demand/supply; demand and demand function, theory of demand and law of demand and supply, exceptions to law of demand, demand supply schedule and demand/supply curve; demand for complementary and substitute goods, market versus individual demand/supply; shifts in the demand/supply curve, demand and supply together, elasticity of demand and supply, determinants, measurement and application, static and dynamic demand, consumer surplus	18
	(b) The theory of Consumer Behaviour: Cardinal and Ordinal utility analysis,	07
3	The Firm and Market Structure: Nature of firm, organizing economic activity ina firm, Objective of a firm: Profit maximization vs. sales maximization, Introduction to basic idea of equilibrium of a firm, condition for producers' equilibrium in short run and long run for firm and industry: total and marginal approach. Basic idea of market, concept and types of cost and revenue; total, average and marginal concept, classification of market, time element in market, Characteristics of Different Market Structures along with relevant examples.	25
4	The Markets for the Factors of Production: Labour market: Basic concepts, derived demand, productivity of an input, marginal productivity of labour, marginal revenue product, demand for labour, backward bending supply curve of labour, tax policy and labour supply, labour force participation, determination of wage rate in a perfectly competitive labour market.	20
	Total Lectures	80

Suggested Readings:

- 1. Karl E. Case and Ray C. Fair, Principles of Microeconomics, Pearson Education Inc.
- 2. N. Gregory Mankiw, *Economics: Principles and Applications*, India edition by South Western, a part of Cengage Learning, Cengage Learning India Private Limited, 4th edition, 2007.
- Joseph E. Stiglitz and Carl E. Walsh, Economics, W.W. Norton & Company, Inc., New York, International Student Edition, 4th Edition, 2007.
- Hal R. Varian, Intermediate Microeconomics, a Modern Approach, W.W. Norton and Company/Affiliated East-West Press (India), 8th edition, 2010.

The workbook by Varian and Bergstrom may be used for problems.

5. Snyder and W. Nicholson, Fundamentals of Microeconomics, Cengage Learning (India), 2010. 4 | Page

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- 6. Douglas Bernheim and Michael D. Whinston, Microeconomics, Tata McGraw-Hill (India), 2009
- 7. Jhingan, M. L., Microeconomics, Vrinda Publication, Delhi.
- 8. Ahuja, H. L., Principles of Microeconomics, S. Chand & Co.Delhi

SEMESTER-I

MIC-1: INTRODUCTORY MICROECONOMICS (Credit: 3)

Course Outcomes

After the completion of the course, the students will be able to:

- CO1: Use microeconomic concepts such as saving and investment in their real life situation.
- CO2: Understand the profit making techniques used by different businesses or firms
- CO3: Grasp the basic concepts of Microeconomics such as Laws of Demand, Supply and Elasticity
- CO4: Apply Indifference Curve Analysis in Deriving Demand Curve Income and Substitution Curve

Unit	Topics to be covered	No. of Lectures
1	Exploring the subject matter of Economics: Definition of Economics, Need, Scope and Methods of Economics, Nature and subject matter of Economics, Problem of scarcity and choice, Central Problems of Economy.	10
2	Supply and Demand: Concept and types of demand, determinants of individual demand/supply; demand and demand function, theory of demand and law of demand and supply, exceptions to law of demand, demand supply schedule and demand/supply curve; demand for complementary and substitute goods, market versus individual demand/supply; shifts in the demand/supply curve, demand and supply together, elasticity of demand and supply, determinants, measurement and application, static and dynamic demand, consumer surplus	18
3	The Theory of Consumer Behaviour: Cardinal Approach: Law of Diminishing Marginal Utility, Law of Equi-Marginal Utility, Consumer's Equilibrium. Ordinal Approach: Indifference Curve – meaning and properties of indifference curve, Consumer's Equilibrium with the help of Indifference curve.	12
	Total Lectures	40

Suggested Readings:

- Hal R. Varian, Intermediate Microeconomics, a Modern Approach, W.W. Norton and Company/Affiliated East-West Press (India), 8th edition, 2010. The workbook by Varian and Bergstrom may be used for problems.
- 2. Jhingan, M. L., Microeconomics. Vrinda Publication, Delhi.
- 3. Ahuja, H. L., Principles of Microeconomics, S. Chand & Co.Delhi

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SEMESTER - II MJC-2: MATHEMATICAL METHODS IN ECONOMICS (Credit – 6)

Course Outcomes

After the completion of the course, the student will be able to:

CO1: Apply methods of various mathematical techniques to economic theory in general.

CO2: Understand and have a clear vision, related to various economic theories bythe use of different testable propositions or formulas.

CO3: Learn Set and Set Operations.

CO4: Use Differential and Integral Calculus and its economic application

Unit	Topics to be covered	No. of Lectures
1	Preliminaries: Logic and proof techniques; Sets and Set Operations, Ordered pairs and Cartesian Products Functions and their Properties Number System Basic idea of Permutation and Combination Progression: Arithmetic, Geometric and Harmonic Progression.	20
2	Functions of One Variable a. Graphs; Elementary types of Functions: Quadratic, Polynomial, Power, Exponential and Logarithmic Functions. b. Sequences and Series: Convergence and Divergence, Algebraic Properties and Applications. c. Continuous Functions: Characteristics and Properties of Continuous Functions, Convergence and Divergence. d. Limit of a Function: Method to Evaluate the Limit of Algebraic, Logarithmic and Exponential Functions.	25
3	Rules of Differentiation: Differentiable Functions; Derivatives of Sum, Difference, Product and Quotient Functions; Second and higher order derivatives; Applications of differentiation in Economics.	20
4	Single-Variable Optimization: Conditions for Maxima and Minima; simple applications of maxima and minima in economics – maximization of profit/ net revenue, cost minimization.	15
	Total Lectures	80

Suggested Readings:

- K. Sydsaeter and P. Hammond, Mathematics for Economic Analysis, Pearson Educational Asia: Delhi,2002.
- 2. Chiang, A. C., Fundamental Methods of Mathematical Economics, McGraw Hill, New York

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- 3. Allen, R. G. D., Mathematical Analysis for Economists, Macmillan Press, London
- 4. Yamane, Taro, Mathematics for Economists, Prentice Hall of India, New Delhi
- Monga, G. S., Mathematics and Statistics for Economists, Vikas Publishing House, New Delhi
- 6. Mehta, B. C. & G. M. K. Madnani, Mathematics for Economists, Sultan Chand & Sons, Delhi, Agra
- 7. Sachdeva, S., Quantitative Techniques, Lukshmi Narain Agarwal Publication

SEMESTER - II MIC-2: MATHEMATICAL METHODS IN ECONOMICS (Credit – 3)

Course Outcomes

After the completion of the course, the student will be able to:

CO1: Apply methods of various mathematical techniques to economic theory in general.

CO2: Understand and have a clear vision, related to various economic theories by

the use of different testable propositions or formulas.

CO3: Learn Set and Set Operations.

CO4: Use Differential and Integral Calculus and its economic application

Unit	Topics to be covered	No. of Lectures
1	Preliminaries: Logic and proof techniques; Sets and Set Operations, Ordered pairs and Cartesian Products Functions and their Properties Number System Basic idea of Permutation and Combination Progression: Arithmetic, Geometric and Harmonic Progression.	16
2	Functions of One Variable a. Graphs; Elementary types of Functions: Quadratic, Polynomial, Power, Exponential and Logarithmic Functions. b. Sequences and Series: Convergence and Divergence, Algebraic Properties and Applications. c. Limit of a Function: Method to Evaluate the Limit of Algebraic, Logarithmic and Exponential Functions.	
3	Rules of Differentiation: Differentiable Functions; Derivatives of Sum, Difference, Product and Quotient Functions; Second and higher order derivatives; Simple applications of differentiation in Economics – Concept of Marginal Cost, Marginal Revenue and Elasticity of Demand.	12
	Total Lectures	40

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Suggested Readings:

- 1. Monga, G. S., Mathematics and Statistics for Economists, Vikas Publishing House, New Delhi
- 2. Mehta, B. C. & G. M. K. Madnani, Mathematics for Economists, Sultan Chand & Sons, Delhi, Agra
- 3. Sachdeva, S., Quantitative Techniques, Lukshmi Narain Agarwal Publication
- 4. Allen, R. G. D., Mathematical Analysis for Economists, Macmillan Press, London
- 5. Yamane, Taro, Mathematics for Economists, Prentice Hall of India, New Delhi.

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Question Paper Pattern

The Question paper pattern shall consists of three parts-

Part-A- Comulsory- consisting of objective/multiple choice typeeach question carrying two marks 10x2=20 marks

Part-B- Short Answer Type- Four questions to be answered out of six questionseach question carrying five marks 04x5=20 marks

Part-C- Long Answer Type- Three questions to be answered out of five questions each question carrying ten marks 03x10=30 marks

Note- Examinations shall not be held on OMR Sheet strictly.

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Syllabus For Bachelor of Arts Programme in ECONOMICS Under Choice Based Credit System (CBCS) (2023-24 onwards) of

NEW EDUCATION POLICY-2020 (Semester-I & Semester-II)

We are submitting the syllabus of Bachelor of Arts Programme in Economics for Semester-I and Semester-II.

Prof. (Dr.) Dhirendra Kumar Singh

Professor
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14.06-2023

Prof. Umesh Prasad Professor,

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Patliputra University, Patna Contact: 9771745624 umeshprasad1008@yahoo.in Dr. Benov Kumar I

Dr. Benoy Kumar Lal Associate Professor Department of Economics Patna University, Patna Contact: 9608570960

Email ID: bkl165@gmail.com

Course Structure for 4 Year Bachelor of Arts (B. A.) in Economics under CBCS System

(A) Major Core Courses

SI. No.	Sem.	Type of Course	Name of Course	Credits	Marks
1.	I	MJC-1	Introductory Microeconomics	6	100
2.	II	MJC-2	Mathematical Methods in Economics	6	100
3.	III	MJC-3	Introductory Macroeconomics	5	100
4.	III	MJC-4	Statistical Methods in Economics	4	100
5.	IV	MJC-5	Intermediate Microeconomics 1	5	100
6.	IV	MJC-6	Intermediate Macroeconomics	5	100
7.	IV	MJC-7	Indian Economy	5	100
8.	V	MJC-8	Intermediate Microeconomics 2	5	100
9.	V	MJC-9	Public Finance	5	100
10.	VI	MJC-10	International Economics	4	100
11.	VI	MJC-11	Contemporary Issues in Indian Economy	5	100
12.	VI	MJC-12	Development Economics	5	100
13.	VII	MJC-13	Advanced Quantitative Methods	5	100
14.	VII	MJC-14	Banking and Financial Institutions	5	100
15.	VII	MJC-15	Research Methodology	6	100
16.	VIII	MJC-16	Economics of Health and Education	4	100

Sub Total = 80

Minor Courses to be offered by the Department for students of other Departments (B) of Social Science

SI. No.	Sem	Type of Course	Name of Course	Credits	Marks
1.	I	MIC-1	Introductory Microeconomics	3	100
2.	II	MIC-2	Mathematical Methods in Economics	3	100
3.	III	MIC-3	Introductory Macroeconomics	3	100
4.	IV	MIC-4	Statistical Methods in Economics	3	100
5.	V	MIC-5	Intermediate Microeconomics 1	3	100
6.	V	MIC-6	Intermediate Macroeconomics	3	100
7.	VI	MIC-7	Indian Economy	3	100
8.	VI	MIC-8	Intermediate Microeconomics 2	3	100
9.	VII	MIC-9	Public Finance	4	100
10.	VIII	MIC-10	International Economics	4	100

Sub Total = 32

Note: The Department may reduce the syllabus of the Minor Courses as per the credit distribution. The Department concerned may also decide practical courses.

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(C) Multidisciplinary Courses to be offered

SI. No.	Sem	Type of Course	Name of Course	Credits	Marks
1.	I	MDC-1	To be selected from the basket	3	100
2.	II	MDC-2	To be selected from the basket	3	100
3.	III	MDC-3	To be selected from the basket	3	100

Sub Total = 09

(D) Ability Enhancement Courses to be offered

Sl. No.	Sem	Type of Course	Name of Course	Credits	Marks
1.	I	AEC-1	MIL	2	100
2.	II	AEC-2	Environmental Science	2	100
3.	III	AEC-3	Disaster Risk Management	2	100
4.	IV	AEC-4	NCC/NSS/NGOs/Social Service/ Scout and Guide/Sports	2	100

Sub Total = 08

(E) Skill Enhancement Courses to be offered

Sl. No.	Sem	Type of Course	Name of Course	Credits	Marks
1.	I	SEC-1	To be selected from the basket	3	100
2.	II	SEC-2	To be selected from the basket	3	100
3.	III	SEC-3	To be selected from the basket	3	100

Sub Total = 09

(F) Value Added Courses to be offered

SI. No.	Sem	Type of Course	Name of Course	Credits	Marks
1.	I	VAC-1	To be selected from the basket	3	100
2.	II	VAC-2	To be selected from the basket	3	100

Sub Total = 06

Sl. No.	Sem	Type of Course	Name of Course	Credits	Marks
1.	V	INT-1	Summer Internship	4	100

SI. No.	Sem	Type of Course	Name of Course	Credits	Marks
1.	VIII	RP-1	Research/Dissertation	12	100

Grand Total = 160 Credits

(G) Basket for Multidisciplinary Courses (MDC)
To be decided by Respective Department

(H) Basket for Skill Enhancement Courses (SEC) See at the end of structure (this booklet)

(I) Basket for Value Added Courses (VAC) See at the end of structure (this booklet)

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SEMESTER-I

MJC-1: INTRODUCTORY MICROECONOMICS (Credit: 6)

Course Outcomes

After the completion of the course, the students will be able to:

- CO1: Use microeconomic concepts such as saving and investment in their real life situation.
- CO2: Understand the profit making techniques used by different businesses or firms
- CO3: Grasp the basic concepts of Microeconomics such as Laws of Demand, Supply and Elasticity
- CO4: Apply Indifference Curve Analysis in Deriving Demand Curve Income and Substitution Curve

Unit	Topics to be covered	No. of Lectures
1	Exploring the subject matter of Economics: Definition of Economics, Need, Scope and Methods of Economics, Nature and subject matter of Economics, Problem of scarcity and choice, Central Problems of Economy.	10
2	Supply and Demand: (a) Concept and types of demand, determinants of individual demand/supply; demand and demand function, theory of demand and law of demand and supply, exceptions to law of demand, demand supply schedule and demand/supply curve; demand for complementary and substitute goods, market versus individual demand/supply; shifts in the demand/supply curve, demand and supply together, elasticity of demand and supply, determinants, measurement and application, static and dynamic demand, consumer surplus	18
	(b) The theory of Consumer Behaviour: Cardinal and Ordinal utility analysis,	07
3	The Firm and Market Structure: Nature of firm, organizing economic activity ina firm, Objective of a firm: Profit maximization vs. sales maximization, Introduction to basic idea of equilibrium of a firm, condition for producers' equilibrium in short run and long run for firm and industry: total and marginal approach. Basic idea of market, concept and types of cost and revenue; total, average and marginal concept, classification of market, time element in market, Characteristics of Different Market Structures along with relevant examples.	25
4	The Markets for the Factors of Production: Labour market: Basic concepts, derived demand, productivity of an input, marginal productivity of labour, marginal revenue product, demand for labour, backward bending supply curve of labour, tax policy and labour supply, labour force participation, determination of wage rate in a perfectly competitive labour market.	20
	Total Lectures	80

Suggested Readings:

- 1. Karl E. Case and Ray C. Fair, Principles of Microeconomics, Pearson Education Inc.
- N. Gregory Mankiw, Economics: Principles and Applications, India edition by South Western, a part of Cengage Learning, Cengage Learning India Private Limited, 4th edition, 2007.
- 3. Joseph E. Stiglitz and Carl E. Walsh, *Economics*, W.W. Norton & Company, Inc., New York, International Student Edition, 4th Edition, 2007.
- 4. Hal R. Varian, *Intermediate Microeconomics*, a Modern Approach, W.W. Norton and Company/Affiliated East-West Press (India), 8th edition, 2010.

The workbook by Varian and Bergstrom may be used for problems.

5. Snyder and W. Nicholson, *Fundamentals of Microeconomics*, Cengage Learning (India), 4 | P a g e

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- 6. Douglas Bernheim and Michael D. Whinston, Microeconomics, Tata McGraw-Hill (India), 2009
- 7. Jhingan, M. L., Microeconomics, Vrinda Publication, Delhi.
- 8. Ahuja, H. L., Principles of Microeconomics, S. Chand & Co.Delhi

SEMESTER-I

MIC-1: INTRODUCTORY MICROECONOMICS (Credit: 3)

Course Outcomes

After the completion of the course, the students will be able to:

- CO1: Use microeconomic concepts such as saving and investment in their real life situation.
- CO2: Understand the profit making techniques used by different businesses or firms
- CO3: Grasp the basic concepts of Microeconomics such as Laws of Demand, Supply and Elasticity
- CO4: Apply Indifference Curve Analysis in Deriving Demand Curve Income and Substitution Curve

Unit	Topics to be covered	No. of Lectures
1	Exploring the subject matter of Economics: Definition of Economics, Need, Scope and Methods of Economics, Nature and subject matter of Economics, Problem of scarcity and choice, Central Problems of Economy.	10
2	Supply and Demand: Concept and types of demand, determinants of individual demand/supply; demand and demand function, theory of demand and law of demand and supply, exceptions to law of demand, demand supply schedule and demand/supply curve; demand for complementary and substitute goods, market versus individual demand/supply; shifts in the demand/supply curve, demand and supply together, elasticity of demand and supply , determinants, measurement and application, static and dynamic demand, consumer surplus	18
3	The Theory of Consumer Behaviour: Cardinal Approach: Law of Diminishing Marginal Utility, Law of Equi-Marginal Utility, Consumer's Equilibrium. Ordinal Approach: Indifference Curve – meaning and properties of indifference curve, Consumer's Equilibrium with the help of Indifference curve.	12
	Total Lectures	40

Suggested Readings:

- Hal R. Varian, Intermediate Microeconomics, a Modern Approach, W.W. Norton and Company/Affiliated East-West Press (India), 8th edition, 2010.
 The workbook by Varian and Bergstrom may be used for problems.
- 2. Jhingan, M. L., Microeconomics, Vrinda Publication, Delhi.
- 3. Ahuja, H. L., Principles of Microeconomics, S. Chand & Co.Delhi

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SEMESTER - II MJC-2: MATHEMATICAL METHODS IN ECONOMICS (Credit – 6)

Course Outcomes

After the completion of the course, the student will be able to:

CO1: Apply methods of various mathematical techniques to economic theory in general.

CO2: Understand and have a clear vision, related to various economic theories bythe use of different testable propositions or formulas.

CO3: Learn Set and Set Operations.

CO4: Use Differential and Integral Calculus and its economic application

Unit	Topics to be covered	No. of Lectures
1	Preliminaries: Logic and proof techniques; Sets and Set Operations, Ordered pairs and Cartesian Products Functions and their Properties Number System Basic idea of Permutation and Combination Progression: Arithmetic, Geometric and Harmonic Progression.	20
2	Functions of One Variable a. Graphs; Elementary types of Functions: Quadratic, Polynomial, Power, Exponential and Logarithmic Functions. b. Sequences and Series: Convergence and Divergence, Algebraic Properties and Applications. c. Continuous Functions: Characteristics and Properties of Continuous Functions, Convergence and Divergence. d. Limit of a Function: Method to Evaluate the Limit of Algebraic, Logarithmic and Exponential Functions.	25
3	Rules of Differentiation: Differentiable Functions; Derivatives of Sum, Difference, Product and Quotient Functions; Second and higher order derivatives; Applications of differentiation in Economics.	20
4	Single-Variable Optimization: Conditions for Maxima and Minima; simple applications of maxima and minima in economics – maximization of profit/ net revenue, cost minimization.	15
	Total Lectures	80

Suggested Readings:

1. K. Sydsaeter and P. Hammond, *Mathematics for Economic Analysis*, Pearson Educational Asia: Delhi, 2002.

2. Chiang, A. C., Fundamental Methods of Mathematical Economics, McGraw Hill, New York

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- 3. Allen, R. G. D., Mathematical Analysis for Economists, Macmillan Press, London
- 4. Yamane, Taro, Mathematics for Economists, Prentice Hall of India, New Delhi
- 5. Monga, G. S., Mathematics and Statistics for Economists, Vikas Publishing House, New Delhi
- 6. Mehta, B. C. & G. M. K. Madnani, Mathematics for Economists, Sultan Chand & Sons, Delhi, Agra
- 7. Sachdeva, S., Quantitative Techniques, Lukshmi Narain Agarwal Publication

SEMESTER - II MIC-2: MATHEMATICAL METHODS IN ECONOMICS (Credit - 3)

Course Outcomes

After the completion of the course, the student will be able to:

Apply methods of various mathematical techniques to economic theory in general. CO1:

CO2: Understand and have a clear vision, related to various economic theories by

the use of different testable propositions or formulas.

CO3: Learn Set and Set Operations.

CO4: Use Differential and Integral Calculus and its economic application

Unit	Topics to be covered	No. of Lectures
1	Preliminaries:	16
100	Logic and proof techniques; Sets and Set Operations, Ordered pairs and Cartesian Products	
	Functions and their Properties	
	Number System	
	Basic idea of Permutation and Combination	
	Progression: Arithmetic, Geometric and Harmonic Progression.	
2	Functions of One Variable	12
	a. Graphs; Elementary types of Functions: Quadratic, Polynomial, Power, Exponential and Logarithmic Functions.	
	b. Sequences and Series: Convergence and Divergence, Algebraic Properties and Applications.	
	c.Limit of a Function: Method to Evaluate the Limit of Algebraic, Logarithmic and Exponential Functions.	
3	Rules of Differentiation: Differentiable Functions; Derivatives of Sum,	12
	Difference, Product and Quotient Functions; Second and higher order derivatives; Simple applications of differentiation in Economics – Concept of	
	Marginal Cost, Marginal Revenue and Elasticity of Demand.	
	Total Lectures	40

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Amr. 11.06.73

Suggested Readings:

- 1. Monga, G. S., Mathematics and Statistics for Economists, Vikas Publishing House, New Delhi
- 2. Mehta, B. C. & G. M. K. Madnani, Mathematics for Economists, Sultan Chand & Sons, Delhi, Agra
- 3. Sachdeva, S., Quantitative Techniques, Lukshmi Narain Agarwal Publication
- 4. Allen, R. G. D., Mathematical Analysis for Economists, Macmillan Press, London
- 5. Yamane, Taro, Mathematics for Economists, Prentice Hall of India, New Delhi.

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Question Paper Pattern

The Question paper pattern shall consists of three parts-

Part-A- Comulsory- consisting of objective/multiple choice typeeach question carrying two marks 10x2=20 marks

Part-B- Short Answer Type- Four questions to be answered out of six questionseach question carrying five marks 04x5=20 marks

Part-C- Long Answer Type- Three questions to be answered out of five questions each question carrying ten marks 03x10=30 marks

Note- Examinations shall not be held on OMR Sheet strictly.

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Proposed Course Structure for 4 Year Undergraduate Programme under CBCS System

Skill Enhancement Course (SEC)

Semester - I (SEC-1)

Science	Social Science/Arts	Commerce		
Advance Spreadsheet Tools Basic IT Tolls Creative Writing Communication in Everyday life	 Advance Spreadsheet Tools Public Speaking in English Language & Leadership Creative Writing Communication in Everyday life 	 Advance Spreadsheet Tools Digital Marketing Creative Writing Communication in Everyday life 		

Semester – II (SEC-2)

Science	Social Science/Arts	Commerce			
Introduction to Cloud Computing (AWS)	Big Data Analysis Beginners Course to Calligraphy Personality Development & Communication पटकथा लेखन	 Big Data Analysis Beginners Course to Calligraphy Business Communication Personality Development & Communication 			

Semester – III (SEC-3)

Science	Social Science/Arts	Commerce			
 Prospecting E-waste for sustainability Visual Communication & Photography Graphic Design & Animation Statistical Software Package Communication in Professional Life 	 Personal Financial Planning Visual Communication & Photography Statistical Software Package Communication in Professional Life रचानात्मक लेखन रंगमंच 	 Prospecting E-waste for sustainability Sustainable Ecotourism & Entrepreneurship Visual Communication & Photography Statistical Software Package Communication in Professiona Life 			





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LIST OF SKILL ENHANCEMENT COURSES (SEC)

SL. NO.	Course Title	LTP Distribution of the Course			Total Credits:	Total Marks = 100	
		L	Т	P			
1	Advance Spreadsheet Tools	1	0	3	3	7	
2	Basic IT Tolls	1	0	3	3		
3	Beginners Course to Calligraphy	1	0	3	3		
4	Big Data Analysis	1	0	3	3		
5	Business Communication	1	0	3	3		
6	Communication in Everyday life	1	0	3	3		
7	Communication in Professional Life	1	0	3	3		
8	Creative Writing	1	0	3	3	ırks	rk S
9	Digital Marketing	1	0	3	3	0 M2	Mai
10	Graphic Design & Animation	1	0	3	3	End -Term Appraisal : 70 Marks	Internal Assessment: 30 Marks
11	Introduction to Cloud Computing (AWS)	1	0	3	3	prais	smei
12	Personal Financial Planning	1	0	3	3	n Ap	Asses
13	Personality Development & Communication	1	0	3	3	-Terr	rnal
14	Prospecting E-waste for sustainability	1	0	3	3	End	Inte
15	Public Speaking in English Language & Leadership	1	0	3	3		
16	Statistical Software Package	1	0	3	3		
17	Sustainable Ecotourism & Entrepreneurship	1	0	3	3		
18	Visual Communication & Photography	1	0	3	3		
19	पटकथा लेखन	1	0	3	3		
20	रंगमंच	1	0	3	3		
21	रचानात्मक लेखन	1	0	3	3		

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Skill Enhancement Course (SEC)

• Course Title - Advance Spreadsheet Tools

Learning Objectives

The Learning Objectives of this course are as follows:

- · To enable the students to use Excel for advanced data analysis
- · To equip the students to with automation skills on excel
- · To enable the students to use excel for informed decision making.

Learning outcomes

The Learning Outcomes of this course are as follows:

- By studying this course, students will be able to make meaningful representations of data in the form of charts and pivot tables.
- By studying this course, students will be able to draw analysis on data using spreadsheets and use interpretation to make decisions.
- By studying this course, students will be able to generate word documents with appropriate formatting, layout, proofing.
- By studying this course, students will be able to manage data for generating queries, forms and reports in a database.

SYLLABUS

Unit 1: Excel Advanced Techniques

Templates, Efficiency, and Risk (Standard Deviation, Variance, and Coefficient of Variation), Data Validation; *Functions and Power functions, Array Formulae (Frequency Distribution, mode.mult, mode.sngl), Tables, Advanced Range Names, What-if-analysis: Goal-seek, Data tables, and Scenario Manager; Data analysis ToolPak: Descriptive Statistics, Moving averages, Histogram, Covariance, correlation, and Regression analysis (only for projection); solver add in. Problem Solving using Solver (optimal product mix, workforce scheduling, transportation, capital budgeting, financial planning), Integrating excel with other tools: MS word, outlook, PowerPoint, Access, Power BI.

Unit 2: Excel Interactivity and Automation

Index and Match, Offset, Dynamic Charting, Database functions, Text functions, and Error functions: IfError, IsError, Aggregate, Circular Reference, Formula Auditing, Floating-Point Errors, Form Controls (Button, Combo, Check box, Spinner, List, Option), Visual Basic (only basic). Recording Macros, Absolute and relative macros, editing macros, Use of spinner buttons and command buttons; Sub Procedure, Function Procedure (creating New Functions); Working with Loops: Do_while loop, For_Next loop; Creating User Forms: Message Box, Input Box; If_Then_Else.

Unit 3: Introduction to VBA

Conditional Formatting, Charts that Inspire (Waterfall, Column, Line, Combo, Thermometer, Scatter, Histogram) Sheers, Sparklines, Graphics Tricks and Techniques, Worksheet Automation using Macros: Absolute and relative macros, editing macros, Creating new functions using macros, Use of spinner buttons and command buttons.

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Unit 4: Data Analysis and Decision-Making

Working with External Data, Advanced Uses of PivotTables, PowerPivot, Reporting with PowerPivot, Power query, Dashboard, Creating a spreadsheet in the area of: Loan and Lease statement; Ratio Analysis; Payroll Accounting; Capital Budgeting (NPV & IRR), Portfolio Management, Breakeven analysis, and Sensitivity analysis; Operations Management: Constraint, Forecasting & Trend Analysis optimization, Assignment Problems; Depreciation Accounting (Single Method); Graphical representation of data; Frequency distribution and its statistical parameters; Correlation and Regression Analysis

Essential/recommended readings

- · Excel 2016 Power Programming with VBA, Michael Alexander, Dick Kusleika, Wiley.
- Financial Analysis and Modelling Using Excel and VBA, Chandan Sengupta, Second Edition, Wiley Student Edition.
- MS Excel 2016, Data Analysis & Business Modelling, Wayne Winston, PHI.

Suggestive readings

- Microsoft Excel 2016 Data Analysis and Business Modelling Paperback 1 May
- 2017 Wayne L. Winston, Microsoft Press.
- Microsoft Excel Practical Formulae: From Basic Data Analysis to Advanced
- Formulae
- Manipulation Diane Griffiths.

Page 4 of 44

• Course Title - Basic IT Tools

Learning Objectives

The Learning Objectives of this course are as follows:

- To enable students develop IT skills that are a pre-requisite in today's work environment.
- To equip them with basic computing skills that will enhance their employability in general.
- · To enable the student to analyse and present information in a meaningful manner.

Learning outcomes

The Learning Outcomes of this course are as follows:

- By studying this course, students will be able to use word-processor to generate
- documents with appropriate formatting, layout, review and referencing.
- By studying this course, students will be able to manage data in worksheets and
- workbooks and analyze it using spreadsheet functions and inbuilt formulas.
- · By studying this course, students will be able to draw analysis on data using
- spreadsheets to make decisions.
- By studying this course, students will be able to make meaningful representations of
- data in the form of charts and pivot tables.
- By studying this course, students will be able to manage data in database tables and use
- the same for generating queries, forms and reports.

SYLLABUS

Course Contents:

Unit 1: Introduction to Spreadsheets

Spreadsheets: Concept of worksheets and workbooks, creating, opening, closing and saving workbooks, moving, copying, inserting, deleting and renaming worksheets, working with multiple worksheets and multiple workbooks, controlling worksheet views, naming cells using name box, name create and name define; Exchanging data using clipboard, object linking and embedding; Printing and Protecting worksheets: Adjusting margins, creating headers and footers, setting page breaks, changing orientation, creating portable documents and printing data and formulae; Implementing file level security and protecting data within the worksheet; Understanding absolute, relative and mixed referencing in formulas, referencing cells in other worksheets and workbooks, correcting common formula errors, working with inbuilt function categories like mathematical, statistical, text, lookup, information, logical, database, date and time and basic financial functions.

Unit 2: Data Analysis in Spreadsheets

Consolidating worksheets and workbooks using formulae and data consolidate command; Choosing a chart type, understanding data points and data series, editing and formatting chart elements, and creating sparkline graphics, Analysing data using pivot tables: Creating, formatting and modifying a pivot table, sorting, filtering and grouping items, creating calculated field and calculated item, creating pivot table charts, producing a report with pivot tables. Introduction to recording and execution of macros.

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Unit 3: Word Processing

Introduction: Creating and saving your document, displaying different views, working with styles and character formatting, working with paragraph formatting techniques using indents, tabs, alignment, spacing, bullets and numbering and creating borders; Page setup and sections: Setting page margins, orientation, headers and footers, end notes and foot notes, creating section breaks and page borders; Working with tables: Creating tables, modifying table layout and design, sorting, inserting graphics in a table, table math, converting text to table and vice versa; Create newspaper columns, indexes and table of contents, Spell check your document using inbuilt and custom dictionaries, checking grammar and style, using thesaurus and finding and replacing text; Create bookmarks, captions and cross referencing, adding hyperlinks, adding sources and compiling and bibliography; Mail merge: Creating and editing your main document and data source, sorting and filtering merged documents and using merge instructions like ask, fill-in and if-then-else; Linking and embedding to keep things together.

Unit 4: Databases

Introduction to Database Development: Database Terminology, Objects, Creating Tables, working with fields, understanding Data types, Changing table design, Assigning Field Properties, Setting Primary Keys, using field validation and record validation rules, Indexing, working with multiple tables, Relationships & Integrity Rules, Join Properties, Record manipulation, Sorting & Filtering; Select data with queries: Creating Query by design & by wizard (Select, Make Table, Append, Delete, Cross Tab, Update, Parameterized Query, Find Duplicate and Find Unmatched), Creating multi table queries, creating & working with table joins. Using operators & expressions: Creating simple & advance criteria; Working with forms: Creating Basic forms, working with bound, unbound and calculated controls, understanding property sheet, Working with Data on Forms: Changing Layout, creating Sub Forms, creating list box, combo box and option groups; Working with Reports: Creating Basic Reports, Creating Header & Footer, Placing Controls on reports, sorting & grouping, Creating Sub reports.

Essential/recommended readings

- Swinford, E., Dodge, M., Couch, A., Melton, B. A. (2013). Microsoft Office Professional 2013. United States: O'Reilly Media.
- Wang, W. (2018). Office 2019 For Dummies. United States: Wiley. Microsoft Lambert, J. (2019). Microsoft Word 2019 Step by Step. United States: Pearson Education.

Suggestive readings

- · Jelen, B. (2013). Excel 2013 Charts and Graphs. United Kingdom: Que.
- Alexander, M., Jelen, B. (2013). Excel 2013 Pivot Table Data Crunching. United
 - Kingdom: Pearson Education.
- Alexander, M., Kusleika, R. (2018). Access 2019 Bible. United Kingdom: Wiley.

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• Course Title - Beginners Course to Calligraphy

Learning Objectives

The Learning Objectives of this course are as follows:

· To teach students the art of Calligraphy.

· To make students better at handwriting and embellish the scripts.

To help the students communicate with creativity.

Learning outcomes

The Learning Outcomes of this course are as follows:

· Students will be skilled in calligraphy scripts.

Learning flourishing will help to develop good writing.

Practice sessions will further a project at the end of semester.

Will induce skills to set up a business, too.

SYLLABUS

Unit 1: Introduction to Calligraphy

 Definition, History of calligraphy, Calligraphy at the Global level, Types of Calligraphy: Classical Calligraphy & Modern Calligraphy

 Practice Sessions: Introducing students to Calligraphy and its types through images, videos and animations.

Unit 2: Introduction to the Writing tools

 Tool Kit, Different Types of Pens, Different Types of Nibs, Different Types of Brushes, Different Types of Inks

 Practice Sessions: Display of Writing items, Discussion on the usage of different types of pens, nibs and brushes through hands-on activities

Unit 3: Foundation to Calligraphy

 How to write letters?, Majuscules, Miniscules, Numbers, Learning Strokes, Sans SerifB-point, Celtic, Italian Script, Roman Script, Gothic Script

 Practice Sessions: Learning and practicing strokes- Upstroke, Downstroke, Overturn, Underturn, Compound curve, Oval, Ascending loop

 Hands-on activities and Assessment on Sans Serif B-point, Celtic, Italian Script, Roman Script, Gothic Script, Flourishing

Essential/recommended readings

Suepsuan, P. A. (2021). Start Calligraphy The Right way to write: Learn Calligraphy
The Complete Book - Modern Calligraphy Pen For Beginners, Learning Resources
Step By Step Number Line, Mastering Modern Calligraphy. Independently
published.

 C., & Co., T. P. (2020). Modern Calligraphy Set for Beginners: A Creative Craft Kit for Adults featuring Hand Lettering 101 Book, Brush Pens, Calligraphy Pens, and More. Paige Tate & Co.

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• Course Title - Big Data Analytics

Learning Objectives

The Learning Objectives of this course are as follows:

- To Understand the Big Data Platform and its Uses
- Provide an overview of Apache Hadoop
- Provide HDFS Concepts and Interfacing with HDFS.
- Provide hands on Hadoop Eco System
- · To understand spark framework

Learning outcomes

The Learning Outcomes of this course are as follows:

- After studying this course, students will be able to identify Big Data and its Business Implications.
- After studying this course, students will be able to list the components of Hadoop and Hadoop Eco-System.
- After studying this course, students will be able to access and process data on distributed file system.
- After studying this course, students will be able to manage job execution in Hadoop environment.
- After studying this course, students will be able to develop Big Data Solutions using Hadoop Eco System.

SYLLABUS

Unit 1: Fundamentals of Big Data Analysis

Data Storage and Analysis, Characteristics of Big Data, Big Data Analytics, Typical Analytical Architecture, Requirement for new analytical architecture, Challenges in Big Data Analytics - Need of big data frameworks

Unit 2: Hadoop Framework

Hadoop, Requirement of Hadoop Framework, Design principle of Hadoop -Comparison with other system, Hadoop Components - Hadoop 1 vs Hadoop 2, Hadoop Daemon's - HDFSCommands, Map Reduce Programming: I/O formats, Map side join, Reduce Side Join, Secondary sorting, Pipelining Map Reduce jobs

Unit 3: HDFS (Hadoop Distributed File System)

The Design of HDFS, HDFS Concepts, Command Line Interface, Hadoop file system interfaces, Data flow, Data Ingest with Flume and Scoop and Hadoop archives, Hadoop I/O: Compression, Serialization, Avro and File-Based Data structures.

Unit 4: Spark Framework and Data Analysis with Spark Shell

Introduction to GPU Computing, CUDA Programming Model, CUDA API, Simple Matrix, Multiplication in CUDA, CUDA Memory Model, Shared Memory Matrix Multiplication, Additional CUDA API Features. Writing Spark Application - Spark Programming in Scala, Python, R, Java - Application Execution.

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Practical Exercises

- Downloading and installing Hadoop.
- · Understanding different Hadoop modes. Startup scripts, Configuration files.
- Hadoop Implementation of file management tasks, such as Adding files and directories, retrieving files and Deleting files.
- Run a basic word count Map reduce program to understand map reduce paradigm:
 To count words in a given file, to view the output file, and to calculate the execution time.
- Map Reduce Program to analyse time-temperature statistics and generate report with max/min temperature.
- Implement of Matrix Multiplication with Hadoop Map Reduce.
- · Implementation of K-means clustering using Map Reduce.
- To study and implement basic functions and commands in R programming.
- To build Word cloud, a text mining method using R for easy to understand and visualization than a table data.
- · To implement clustering program using R programming

Essential/recommended readings

- Seema Acharya, Subhasini Chellappan, "Big Data Analytics" Wiley 2015.
- · Mike Frampton, "Mastering Apache Spark", Packt Publishing, 2015.
- Tom White, "Hadoop: The Definitive Guide", O'Reilly, 4th Edition, 2015.
- Nick Pentreath, Machine Learning with Spark, PacktPublishing, 2015.
- Mohammed Guller, Big Data Analytics with Spark, Apress, 2015.

Donald Miner, Adam Shook, "Map Reduce Design Pattern", O'Reilly, 2012

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Course Title – Business Communication

Learning Objectives

The Learning Objectives of this course are as follows:

- To train students to enhance written as well as oral communication in the corporate world.
- To help students in understanding the principles and techniques of business communication.
- · To understand the use of electronic media for communication.

Learning outcomes

The Learning Outcomes of this course are as follows:

- After studying this course, students will be able to explain the need for communication in management.
- After studying this course, students will be able to appreciate the need of effective writing for communication.
- After studying this course, students will be able to demonstrate the skill of effective report writing and summarizing annual reports.
- After studying this course, students will be able to analyse business correspondence and e-correspondence.
- · After studying this course, students will be able to appreciate oral presentations.

SYLLABUS

Unit 1: Introduction to the essentials of Business Communication

Meaning, process and functions. Need and importance. Medium: verbal & non-verbal communication. Channels: formal & informal. Levels of communication. Direction of communication: downward, upward, lateral, & diagonal. Effective communication: difficulties/barriers and solutions. Interactive and non-interactive techniques of communication. Listening as a tool of communication, Guidelines for effective listening.

Unit 2: Effective Writing

Guidelines for clear writing. References, bibliographical research tools. Citing methods, footnotes, discussion footnotes. Use of library and internet for collection, classification and interpretation of data and information.

Unit 3: Report Writing

Types of reports. Formal report: components and purpose. Organising information: outlining & numbering sections, section headings, sub-headings, & presentation. Writing reports on field work/visits to industries, business concerns. Summarising annual reports of companies: purpose, structure and principles. Drafting minutes.

Unit 4: Business Correspondence and E-Correspondence

Need and importance of business letters. Office memorandum, office circulars, notices and orders. Technology for communication. Effective IT communication tools. Electronic mail: advantages, safety and smartness in email. E-mail efiquettes.

Unit 5: Spoken English and Oral Presentation

Effective negotiation: elements, process and general guidelines. Telephonic conversation. Conducting & facing interviews. Conducting & participating in group decisions. Making presentations: content and organising. Features of a good presentation. Delivering a presentation.

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Practical Exercises:

The learners are required to:

- · learn how to summarise annual reports of companies.
- prepare presentations using power-point.
- · participate in Group discussions and mock interviews.
- · smartly draft business emails.

Essential/recommended readings

- C.B.Gupta (2019). Essentials of Business Communication, Sultan Chand & Sons.
- · Kaul, A. Effective Business Communication, 2nd ed. PHI learning
- Lesikar, R.V. & Flatley, M.E. (2001). Basic Business Communication Skills for Empowering the Internet Generation, Tata McGraw Hill Publishing Company Ltd. New Delhi.
- Ludlow, R. & Panton, F.(1992). The Essence of Effective Communications, Prentice Hall of India Pvt. Ltd., New Delhi.
- Meyer C,Dev(2021). Communicating for Results,Oxford University Press
- Quintanilla, Kelly M, (2021), Business and Professional Communication, 4e, Sage Textbook
- R. C. Bhatia (2008), Business Communication, Ane Books Pvt Ltd, New Delhi.
- Raman and Singh(2012). Business Communication. Oxford University Press
- · Scot, O., Contemporary Business Communication. Biztantra, New Delhi.

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Course Title – Communication in Everyday Life

Learning Objectives

The Learning Objectives of this course are as follows:

- To lay down a basic foundation for basic communication that is a part of a student'severyday life.
- To inculcate the fundamentals of communication with the aim to enhance listening, speaking and writing skills.
- To hone practical skills that can be used in day-to-day affairs.

Learning outcomes

The Learning Outcomes of this course are as follows:

- After studying this course, students will be able to improve mediation skills.
- After studying this course, students will be able to building human relationships.
- · After studying this course, students will be able to foster societal understanding
- &develop an independent perspective.
- After studying this course, students will be able to enhance social Communication skills of students.

SYLLABUS

UNIT 1

Theory of Communication

- Meaning, Features, Uses, Cycle, Feedback, Advantages
- Barriers
- · 7 C's of Communication

UNIT 2

Listening Skills

- Netiquettes
- · Audio-book Listening & Discussions
- Note-taking

UNIT 3

Speaking Skills

- Oral Presentation- Audio-Visual aids, Audience & Feedback, Delivery of Presentation, Handling Questions
- Group Discussion-Culture & History, Current Affairs, Society-related
- Public Speaking- Public Speech, Extempore
- Interview- Personal, Conversational, Public

UNIT 4

Reading Skills

- Close Reading
- Skimming
- Scanning

UNIT 5

Writing Skills

- Summarising
- Paraphrasing
- Note-making
- · Essays- Expository Essay, Descriptive Essay, Narrative Essay
- Letter Writing-Formal Letter, Informal Letter

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- Reports-Incidence, Newspaper, Organisational Report
- Analysis & Interpretation- Textual
- · Intra & Inter-personal Skills Monologue, Dialogue

Suggested Readings

- Chaudhary, Shoma. "Understanding Interviews, Billy Elliot is my Story, Only LessHappy". Tehelka: The People's Paper, 18 February 2006.
- Kumar, Dinesh. "Understanding Values, Our Muddled Generation". The Hindu, 26March 2006.
- Learning to Write I, "Free Writing". In Fluency in English II, ed. Varma, Pramodiniand Mukti Sanyal, pp. 1-5, Oxford, New Delhi, 2015.
- Learning to Write II, "Editing". In Fluency in English II, ed. Varma, Pramodini andMukti Sanyal, pp. 25-27, Oxford, New Delhi, 2015.
- Learning to Write III, "What makes Good Writing Good". In Fluency in English II, ed. Varma, Pramodini and Mukti Sanyal, pp. 48-51, Oxford, New Delhi, 2015.

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Course Title - Communication in Professional Life

Learning Objectives

The Learning Objectives of this course are as follows:

- To prepare the students for their upcoming professional fields.
- To inculcate the fundamentals of professional and business communication.
- To learn aspects of global communication.
- To enhance employability skills of the learners by enabling them to write effective resumes and face interviews with confidence

Learning outcomes

The Learning Outcomes of this course are as follows:

- After studying this course, students will be able to improve presentation skills to be learnt by effective use of verbal and non-verbal communication for the professional field.
- After studying this course, students will be able to acquire practical employability skills to be disseminated through focused sessions on practical employable knowledge.
- After studying this course, students will be able to enhance professional communication.
- After studying this course, students will be able to improve persuasion and negotiation skills which will be useful for the professional field.

UNIT 1

- · Theory of Business Communication
- Introduction
- · What is Business Communication?
- · Language of Business Communication
- Cultural Components Cross-Cultural Communication, Cultural Shock, Stereotyping, Ethnocentrism
- Miscommunication & Effective Communication

UNIT 2

Listening Skills

- Netiquettes
- · Audio-book Listening & Discussions
- · Note-taking

UNIT 3

Speaking Skills

- · Presentation Skills- Oral Presentation, Ppt. Preparation, Ppt. Presentation
- Group Discussion
- · Talks- Domain-specific, Ted-Talks, Business Meets, Motivational Talks
- · Telephonic Skills
- · Persuasion Skills
- Meeting & Negotiation
- · Interview- Promotion Interview, Job Interview, Business Interview
- Functions and activities of PR

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UNIT 4

Writing Skills

- Summarising & Paraphrasing
- Job-Oriented Skills- CV, Resume & Bio- Data, Job Application Letter
- Documentation
- . Advertisements & Invitation
- · Letter Writing- Applications, Business Letters
- · Report- Analytical Report, Project Report
- Digital Communication in Social Space- Social Media Posts (Twitter, Facebook), Blog Writing, Review Writing
- Advertisement/Invitation/Poster Designing- Canva/MS Word/Coral
- · Memo, Office Order, Minutes
- Making Online Academic/Work Profile- Linkedln

Suggested Readings

- Kaushik, J.C. and K.K. Sinha eds., English for Students of Commerce, OxfordUniversity Press, New Delhi.
- Sethi, Anjana & Bhavana Adhikari, Business Communication, Tata McGraw Hill.
- Anjana Neira Dev, et.al, eds. Business English, Department of English,

University of Delhi, 2011, Pearson Publications, New Delhi.

Course Title - Communication in Professional Life

Learning Objectives

The Learning Objectives of this course are as follows:

- To build creative writing skills of students in the main inodes of creative writing vizpoetry, fiction (novel, short stories), non-fiction (life narratives, autobiographies andbiographies) and drama.
- To inculcate practical skills in students by mapping their creative talent which bebeneficial for employability too.
- To perform hands-on-activities to students to develop their creative skills throughpractical sessions.

Learning outcomes

The Learning Outcomes of this course are as follows:

- After studying this course, students will be able to be sensitive to the texture ofliterary language.
- · After studying this course, students will be able to develop craft in creative writing.
- After studying this course, students will be able to develop sense of expressingthemselves through poetry/short story/biography.
- After studying this course, students will be able to induce an understanding of therelationship between an individual and society.
- After studying this course, students will be able to get into different fields andpursue versatile career opportunities.
- After studying this course, students will be able to develop an understanding of theatre and performance through drama will also help them to develop observatoryand behavioural skills.
- After studying this course, students will be able to develop a critical thought
 processand a knack in putting it in words. Students may also utilise the learnings
 of proofreading and editing for their academic and professional growth.
- After studying this course, students will be able to go for publishing their own work.
- After studying this course, students will be able to write a book and submit.

SYLLABUS

UNIT 1

- Introduction to Creative Writing- Meaning, Importance
- Imagination & Writing- Peer-interaction, Activities on Imagination
- Tropes, Motifs and Figures-Learning tropes, motifs and figures through videos, Discussion on the findings
- Craft of Writing-Figure of Speech, Word Play, Character Creation
- Character Creation- Dialogue Enaction, Learning Characters through discussion on famous writings, Character Analysis, Writing activities on creating different types of characters (gender/social background/ethnicity etc.)

UNIT 2

- Close Reading
- Analysis and Interpretation- Reading different works in Literature, Discussionin small groups, Practice Writing Session
- Proofreading & Editing- Practice sessions on Proofreading & Editing of different types of writing

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UNIT 3

- · Steps of Creative Writing-Pre-Writing, Writing, Post-Writing/Final Draft
- · Types of Creative Writing- Poetry, Fiction, Non-Fiction (Life Narratives), Drama
- Creative Writing & Media- Film Review, Book Review, Other Writings in Media, Submission, Publication
- Learning to write Poetry- Reading & understanding Poetry; Practising tone, rhyme, metre, verses; Writing sessions
- Learning to write Fiction- Reading & understanding Fiction; Practicing different elements of fiction (Short story, Novella, Novel); Writing sessions
- Learning to write Non-Fiction-Reading & understanding Non-Fiction (Biographies & Autobiographies); Practicing different elements of non-fiction; Writing sessions
- Learning to write Drama- Reading & understanding Drama; Practicing different elements (plot, character, climax, verbal & non-verbal cues) of Drama; Writing sessions
- Submission & Publication (in Print & Digital) Discussions over how & where to submit and publish (online/offline), Hands-on activities

Suggested Readings

 Creative Writing: A Beginners 'Manual by AnjanaNeira Dev et al. for The Department English, University of Delhi (New Delhi: Pearson, 2008).

Course Title - Digital Marketing

Learning Objectives

The Learning Objectives of this course are as follows:

 To acquaint the students with the knowledge of growing integration between the traditional and digital marketing concepts and practices in the digital era.

 To familiarize the students with the tools and techniques used by the digital marketers for driving the marketing decisions to attain marketing objectives.

Learning outcomes

The Learning Outcomes of this course are as follows:

 After studying this course, students will be able to understand the concept of digital marketing and its integration with traditional marketing.

 After studying this course, students will be able to understand customer value journey in digital context and behaviour of online consumers.

 After studying this course, students will be able to understand email, content and social media marketing and apply the learnings to create digital media campaigns.

 After studying this course, students will be able to examine various tactics for enhancing a website's position and ranking with search engines.

 After studying this course, students will be able to leverage the digital strategies to gain competitive advantage for business and career.

SYLLABUS

Unit 1: Marketing in the Digital World

Digital marketing: Concept, Features, Difference between traditional and digital marketing, Moving from traditional to digital Marketing; c

Digital Marketing Channels: Intent Based-SEO, Search Advertising; Brand Based-Display Advertising; Community Based-Social Media Marketing; Others-Affiliate, Email, Content, Mobile.

Customer Value Journey: 5As Framework; The Ozone 03 Concept Key; Traits of online consumer

Unit 2: Content and Email Marketing

Content Marketing: Step-by-step Content Marketing Developing a content marketing strategy Email Marketing: Types of Emails in email marketing, Email Marketing best practices

Unit 3: Social Media Marketing and Display Marketing

Social Media Marketing: Building Successful Social Media strategy; Social Media MarketingChannels; Facebook, Linkedln, YouTube (Concepts and strategies)

Display Advertising: Working of Display Advertising; Benefits and challenges; Overview of Display ad Process.; Define- Customer, Publisher, Objectives; Format-Budget, Media, Ad Formats, Ad Copy.

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Unit 4 Search Engine Marketing

Introduction of SEM: Working of Search Engine; SERP Positioning; online search behaviour, DMI's 5P Customer Search Insights Model.

Search Engine Optimization: Overview of SEO Process; Goal Setting-Types.

On-Page Optimization: Keyword Research, SEO Process -Site Structure, Content, Technical Mechanics, Headings, Image & Alt text, Social Sharing, Sitemaps, Technical Aspects- Compatibility, Structured Data Markup.

Off Page Optimisation: Link Formats, Link Building, Content Marketing, Social Sharing; Black and White Hat Techniques

Search Advertising: Overview of PPC Process; Benefits of Paid Search; Basis of Ranking; Goal Setting-Objectives; Account Setting-Creation of Google Ads, Campaign architecture, Campaign setup, Targeting, Bid Strategy, Delivery, Ad Scheduling, Ad Rotation, Keyword Selection; Ad Copy composition, Ad Extension

Essential/recommended readings

- Dodson, I. (2016). The art of digital marketing: the definitive guide to creating strategic, targeted, and measurable online campaigns. John Wiley & Sons.
- Kartajaya, H., Kotler, P., & Setiawan, I. (2016). Marketing 4.0: moving from traditional to digital. John Wiley & Sons.
- Ryan, Damien: Understanding Digital Marketing Marketing Strategies for Engaging the Digital Generation. Kogan Page Limited.

Suggested Readings

- Moutusy Maity: Internet Marketing: A practical approach in the Indian Context:
- Oxford Publishing
- Seema Gupta: Digital Marketing: Mcgraw Hill
- · Ultimate guide to digital Marketing by Digital Marketer

Course Title - Graphic Design and Animation

Learning Objectives

The Learning Objectives of this course are as follows:

- · To introduce the students to the skill of animation.
- To learn about the application of 2D and 3D animation.

Learning outcomes

The Learning Outcomes of this course are as follows:

- After studying this course, students will be able to understand the importance of animation and graphics design
- After studying this course, students will be able to learn graphics design in 2D and 3D animation.
- After studying this course, students will be able to learn the application of graphics design in 2D and 3D animation in advertising and other areas.

SYLLABUS

Unit 1:2D Animation

Introduction to 2D Animation: Introduction to 2D Animation, Drawing concept, Colour theory & basics, Incorporating sound into 2D animation

Layout & Designing: Basic of sketching, still life and assignment of basic drawing, Composition of basic elements, Work in different media, such as drawing, collage, and painting, Explore the relationship between elements and principal, Pixel and resolution: Vector and Bitmap Graphics. Graphics and advertising (Practical)

- · Creating Digital Layout
- Professional image editing (PHOTOSHOP)
- · Advertising and relevant case, Graphics and illustration (Corel Draw, Paint)
- Vector Composition, 2D animation (Macromedia Flash)

Broadcast Design (Practical)

- Working with visual images
- Story Boarding
- Titles and Credit Making
- Stop motion animation

Production / Post-Production (Practical)

- · Paint & animate (scanning, tracing, ink & Paint)
- Understanding Background composition
- · Basic Understanding of 2D animation and technique
- Animation with flash, Portfolio Making

Unit 2: 3D Animation

3D Modeling: Introduction to 3D space in Blender, Introduction to Modeling Techniques, Inorganic Modeling, Organic Modeling

3D Shading: Use of Materials & Shader, Shader and Texture Editing, Shading Organic Model, Shading In-Organic Models

3D Animation and Rigging (Practical)

- Introduction to 3D Animation
- Create, Edit and working with Animation Graph, Rigging using Blender
- Setting up controllers for joints
- Simple Skeleton structure with proper joint orientation

3D Lighting and Rendering (Practical)

- Understanding Lighting in Cycles
- Direct and Indirect Lighting
- Light Linking, Final Composition
- Creating composition and Light with the Shaded Models

3D Dynamics (Practical)

Introduction to Dynamics, Active and Passive Bodies Creating basic Simulation and collusion using Rigid body Cloth Simulation, Simulation of Brick wall collusion Introduction to Fluid Effects, Creating fluid simulation

Project

(Digital Imaging)

- Design Print advertisement for Service
- Design Print advertisement for Product
- Design Print advertisement an Event
- Design Print advertisement on Social Awareness
- Design a collage with a social message

2D Animation

- Drawing fundamentals using lines
- Sketching of cartoon characters
- 2D Logo designing
- Storyboarding of a 30 seconds film
- Portfolio making of an organization

3D Animation

- Exploring the Interface of 3D application & Basic Modeling
- Create different types of Materials and create a Shading
- Create a simple walk cycle using the character rigs
- Create a composition and Light set up
- Create a Fluid simulation & rendering

Suggested Readings:

- The Illusion of Life: Disney Animation, Ollie Johnston and Frank Thomas, Disney
- Blender Production Creating Short Animations from Start to Finish, Roland Hess, Routledge.
- Animating with Blender: Creating Short Animations from Start to Finish, Roland

Psinta Er Jeth

Hess, Focal Press

- Simplified Drawing for Planning Animation, Wayne Gilbert, Anamie Entertainment Ltd.
- Getting Started in 3D with Maya, Adam Watkins, Routledge.
- Creating Characters with Personality: For Film, TV, Animation, Video Games, and Graphic Novels, Tom Bancroft, Watson-Guptill
- Force: Dynamic Life Drawing for Animators, Mike Mattesi, Focal Press

Note: Learners are advised to use the latest edition of readings.

Course Title - Introduction to Cloud Computing (AWS)

Learning Objectives

The Learning Objectives of this course are as follows:

- To learn about cloud computing through Amazon Web Services (AWS) platform.
- To learn about AWS cloud concepts, services, security and architecture to build an application.

Learning outcomes

The Learning Outcomes of this course are as follows:

- After studying this course, students will be able to Understanding cloud computing
- After studying this course, students will be able to differentiate between onpremises, hybrid-cloud, and all-in cloud
- After studying this course, students will be able to describe the basic global infrastructure of the AWS Cloud
- After studying this course, students will be able to understanding the core AWS services, including compute, network, databases, and storage.

SYLLABUS

Unit 1

Introduction to cloud computing, Creating AWS account, AWS Management Console, AWS Documentation overview, Availability Zones, AWS Global Infrastructure.

Unit 2

Compute in the Cloud Amazon EC2, instance types.

Storage and Databases: - Amazon Simple Storage Service (Amazon S3), Amazon Relational Database Service (Amazon RDS), Amazon DynamoDB.

Create an AWS account and implement AWS cloud for deploying any application.

Suggested Sources

ych y Ry Any free platform can be used, for example Amazon, Google, Azure etc.

Course Title - Personal Financial Planning

Learning Objectives

The Learning Objectives of this course are as follows:

 To familiarize students with different aspects of personal financial planning like savings, investment, taxation, insurance, and retirement planning

To develop the necessary knowledge and skills for effective financial planning.

Learning outcomes

The Learning Outcomes of this course are as follows:

 After studying this course, students will be able to understand the meaning and appreciate the relevance of financial planning.

 After studying this course, students will be able to understand the concept of investment planning and its methods.

 After studying this course, students will be able to examine the scope and ways of personal tax planning.

 After studying this course, students will be able to analyse insurance planning andits relevance.

 After studying this course, students will be able to develop insight into retirement planning and its relevance.

SYLLABUS

Unit 1: Introduction to Financial Planning:

Financial goals, steps in financial planning, budgeting incomes and payments, time value of money. Introduction to savings, benefits of savings, management of spending & financial discipline, Setting alerts and maintaining sufficient funds for fixed commitments.

Unit 2: Investment Planning:

Process and objectives of investment, concept and measurement of return & risk for various asset classes, measurement of portfolio risk and return, diversification & portfolio formation. Gold bond; Real estate; Investment in greenfield and brownfield Projects; Investment in fixed income instruments, financial derivatives & commodity market in India. Mutual fund schemes; International investment avenues. Currency derivatives and digital currency.

Unit 3: Personal Tax Planning:

Tax structure in India for personal taxation, Scope of personal tax planning, exemptions and deductions available to individuals under different heads of income and gross total income. Comparison of benefits - Special provision u/s 115 BAC vis-a-vis General provisions of the Income-tax Act, 1961, tax avoidance versus tax evasion.

Unit 4: Insurance Planning:

Need for insurance. Life insurance, health insurance, property insurance, credit life insurance and professional liability insurance.

Unit 5: Retirement Benefits Planning:

Retirement planning goals, process of retirement planning, Pension plans available in India, Reverse mortgage, Estate planning.

Practical Exercises:

The learners are required to:

- Perform electronic fund transfers through net banking and UPI.
- · Identify certain recent Ponzi schemes in the market.
- · Prepare tax planning for a hypothetical individual.

Suggested Readings:

- Halan, M. "Let's Talk Money: You've Worked Hard for It, Now Make It Work for You" Harper Collins Publishers, New York.
- Indian Institute of Banking & Finance. "Introduction to Financial Planning" Taxmann Publication, New Delhi.
- Keown A.J. "Personal Finance" Pearson, New York.
- Madura, J. "Personal Finance", Pearson
- Pandit, A. "The Only Financial Planning Book that You Will Ever Need" Network 18 Publications Ltd., Mumbai.
- Sinha, M. "Financial Planning: A Ready Reckoner" McGraw Hill Education, New York.
- · Tripathi, V. "Fundamentals of Investment" Taxmann Publication, New Delhi.

Note: Learners are advised to use the latest edition of readings.

Course Title - Personality Development and Communication

Learning Objectives

The Learning Objectives of this course are as follows:

· To develop inter personal and effective communication skills.

 To develop problem solving skills and understand its influence on behaviour and attitudes of individuals.

Learning outcomes

The Learning Outcomes of this course are as follows:

 After studying this course, students will be able to understand the importance of oral and written communication in day-to-day working of the organisation.

 After studying this course, students will be able to develop inter personal skills and problem-solving skills.

 After studying this course, students will be able to understand the role of body language in effective communication.

SYLLABUS

Unit 1

Introduction, need for Communication, Process of Communication, Written and Verbal Communication, Visual communication, Signs, Signals and Symbols, Silence as a Mode of Communication, Inter-cultural, Intra-cultural, Cross-cultural and International communication, Communication through Questionnaires, Business Letter Writing, Electronic Communication.

Unit 2

Business Cases and Presentations, Letters within the Organizations, Letters from Top Management, Circulars and Memos, Business Presentations to Customers and other stakeholders, presenting a Positive Image through Verbal and Non-verbal Cues, Preparing and Delivering the Presentations, Use of Audio-visual Aids, Report Writing.

Unit 3

Barriers to Communication, Improving Communication Skills, Preparation of Promotional Material, Non-verbal communication, Body language, Postures and gestures, Value of time, Organizational body language, Importance of Listening, Emotional Intelligence. Working individually and in a team, Leadership skills, Leadership Lessons, Team work and Team building, Feedback, Feed forward Interpersonal skills - Delegation, Humour, Trust, Expectations, Values, Status, Compatibility and their role inbuilding team - work Conflict Management - Types of conflicts, how to cope with conflict.

Hnit 4

Negotiation Skills, Types of Negotiation, Negotiation Strategies, Selling skills - Selling to customers, Selling to Superiors Selling to peer groups, team mates and subordinates, Conceptual selling, Strategic selling, Selling skills - Body language.

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Essential/recommended readings

- · Kushal Jin Business Communication, VK India.
- Krishnamacharyulu, C. S. G, Ramakrishnan Lalitha Personality Development, Interpersonal Skills and Career Management, Himalaya Publishing.
- Corvette Budjac Conflict Management: A Practical Guide to Developing NegotiationStrategies, Pearson.

Suggestive Readings

- Mitra, B. K., Personality Development and Soft Skills, Oxford University Press.
- Kumar Sanjay and Pushplata, Communication Skills, Oxford University Press.
- Mandal S. K., Effective Communication and Public Speaking, Jaico Publishing.

Note: Latest edition of the readings may be used

Course Title – Prospecting E-waste for Sustainability Learning Objectives

The Learning Objectives of this course are as follows:

 To provide in-depth knowledge on the effective mechanisms to regulate the generation, collection, and storage of e-waste

 To gain insights into the internationally/nationally acceptable methods of transport, import, and export of e-waste within and between countries

 To develop a holistic view on recycling, treatment, and disposal of e-waste and related legislative rules.

Learning outcomes

The Learning Outcomes of this course are as follows:

- After studying this course, students will be able to holistically analyze the environmental impacts of e-waste
- After studying this course, students will be able to apply the skills and various concepts for sustainable management of e-waste
- After studying this course, students will be able to decipher the role of various national and international regulations for e-waste management
- After studying this course, students will be able to provide specific recommendations for improved methods for handling e-waste at different stages such as generation, collection, storage, transport, and recycling.

SYLLABUS

Practical/Hands-on Exercises

- · Identification of e-waste and its types
- · Composition of e-waste and segregation- from the material provided
- · Dismantling of e-waste and handling process
- Visit a nearby e-waste handling facility
- Environmental protection laws and producer's responsibility for e-wastemanagement
 Build an understanding of how regulatory mechanisms can be utilized in the management of e-waste in educational institutions.
- Discussion on plausible ways and implementation of e-waste reduction at the source Evaluation of the status of e-waste handling at your institution. Suggest potential solutions as per the existing norms of E-Waste (Management) Rules, 2016 and beyond.
- Estimate how recycling of e-waste in metro cities will go in sync with the circular economy
- Develop an understanding and itinerary of the process for procuring e-waste import permissions.
- Inventory of the e-waste disposal mechanisms.
- Study the evolution of e-waste management rules and its implementation- Hazardous Waste Rules, 2008, E-waste (Management and Handling) Rules, 2011; and E-Waste (Management) Rules, 2016
- Study the international laws on e-waste management- the international legislations: The Basel Convention; The Bamako Convention; The Rotterdam Convention;
- Waste Electrical and Electronic Equipment (WEEE) Directive in the European Union; Restrictions of Hazardous Substances (RoHS) Directive

Teaching and learning interface for practical skills:

To impart training on technical and analytical skills related to the course objectives, a wide range of learning methods will be used, including (a) laboratory practicals; (b) field-work exercises; (c)customized exercises based on available data; (d) survey analyses; and (e) developing case studies; (f) demonstration and critical analyses; and (h) experiential learning individually and collectively.

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Prospective sector(s):

- © Electric and electronic industries,
- ® E-waste Recycling Unites,
- ® Private entrepreneurs,
- · Environmental consultancies,
- © Pollution Boards, and
- © Environmental NGOs

Suggested Readings:

- Hester, R.E. and Harrison, R.M., 2009. Electronic Waste Management:
- Design. Analysis and Application. Royal Society of Chemistry Publishing.
- Cambridge, UK.
- Fowler, B.A., 2017. Electronic Waste: Toxicology and Public Health Issues. Academic Press.
- Gaidajis, G., Angelakoglou, K. and Aktsoglou, D., 2010. E-waste:environmental
- problems and current management. Journal of Engineering Science and
- TechnologyReview, 3(1), pp. 193-199.
- Janyasuthiwong, S., 2020. Metal Removal and Recovery from Mining

Wastewaterand E-waste Leachate. CRC Press.

Course Title - Public Speaking in English Language and Leadership

Learning Objectives

The Learning Objectives of this course are as follows:

- To impart leadership skills to students along with adequate communication skills tocurate strong leaders in the emerging social, political and corporate world.
- · To create leaders with ethics and resilience in industry-based fields as well as social
- fields.
- ® To allow students to realise their leadership skills and curate them through a hand-on practical approach which will be helpful in generating employable skills for them.

Learning outcomes

The Learning Outcomes of this course are as follows:

- After studying this course, students will be able to learn effective communication through Public Speaking will instill leadership development among students.
- After studying this course, students will be able to lead in different fields at the
 undergraduate level, be responsible citizens and employ leadership skills in their
 future endeavours, too.
- After studying this course, students will be able to strengthen their critical mindset, help them being assertive and put forward constructive viewpoints employing the skills learnt in the practice sessions.

SYLLABUS

UNIT 1

- © Introduction to Effective Communication- Features, Advantages & Disadvantages
- · Importance of Listening
- Oral communication- Meaning, Features & Importance
- Reading Public Speech- Reading documented speeches delivered in the past;
 Understanding the art of word play, vocabulary and putting thoughts into words

UNIT 2

- Public Speaking-
 - V What is Speech?, Overcoming Fear of Public Speaking, Language of Public Speech
 - Drafting a Public Speech (Reading, research, writing, Fact check, Re-writing, Delivery)
 - Y' 3P's of Public Speaking (Preparation, Practice, Performance)
 - S Rhetoric Skills, Art of Informative & Persuasive speaking, Concluding Speech with Power

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- Types of Public Speaking-
 - S Physical & Online
 - S Political, Organisational, Educational & Motivational
 - S Ted Talks, Public Speaking in Media
- Listening in groups and Discussion-Listening famous speeches (from history & everyday life); Analysis of its elements & classroom discussion
- Writing Public speech- Classroom Practice Sessions

UNIT 3

- Leadership Skills- (2 hrs.)
 - S Meaning, Features & Importance
 - S Historical Overview
 - S Leadership in Academic Life, Corporate Space, Public Life, Social Leadership and Political Leadership
- Leadership & Innovations- (2 hrs.)
 - S Audience analysis
 - S Audience Engagement & Leadership
 - S Influencing through Leadership
- Execution & Delivery of Public Speech- Learning rhetorics through speeches in the form of Audio/ Video; Learning Body Language & Paralanguage through ICT
- Developing leadership competence through Public Speaking- Intra-class Speech Competitions; Extempore; Group Discussion

UNIT 4

- · Importance of Public Speaking in developing Leadership Skills
- · Ethics in Public Speaking & Leadership
- Mock Parliament/MUNs
- Workshop

Suggested Readings:

S Beebe, S. A., & Beebe, S. J. (2012). Public speaking: An audience-centredapproach. (8th ed.). Boston: Pearson.

S Cardon, P. (2014). Business communication: Developing leaders for a networkedworld. (international ed.). New York: McGraw-Hill.

S Jaffe, C. I. (2013). Public speaking: Concepts & skills for a diverse society.

(7thed.). Boston: Cengage Learning.

Course Title – Statiscal Software Package Learning Objectives

The Learning Objectives of this course are as follows:

- To familiarize students with data analysis using a statistical software package like SPSS or any other equivalent.
- · To provide skills for research analysis and increase employability.
- To lay a foundation for advance data analysis work and higher education.

Learning outcomes

The Learning Outcomes of this course are as follows:

- After studying this course, students will be able to understand basic functions of statistical software package for managing variables and generate descriptive statistics to describe the data and analyze data through graphs and charts.
- · After studying this course, students will be able to test differences in sample means.
- After studying this course, students will be able to identify relationships between variables and develop models for predicting dependent variables on the basis of independent variables.
- After studying this course, students will be able to understand data structures and identify clusters in data.
- After studying this course, students will be able to identify principal components that are relevant from a host of variables.

SYLLABUS

Unit 1: Getting started with the Software

Introduction: Data Entry, Storing and Retrieving Files, Generating New Variables; Managing Data - Listing cases, replacing missing values, computing new variables, recoding variables, selecting cases, sorting cases, merging files, Graphs - Creating and editing graphs and charts; Descriptive Statistics Procedures: Frequencies, Descriptive, Explore, Cross Tabulation.

Unit 2: Hypothesis Testing for Means

T-tests: One sample test, Independent samples and paired samples t-test; ANOVA - One- way analysis of variance with post hoc analysis, Two-way analysis of variance.

Unit 3: Testing for Association between Variables

Chi-square Test of Independence; Bivariate Correlation Analysis: Simple Scatter Plot; Correlation Coefficient: Pearson, Spearman Rho and Kendall Tau Coefficient. Factor analysis.

Unit 4: Regression Analysis

Linear Regression: Simple Linear Regression, Multiple regression analysis with matrix scatterplot. Multiple Regression: Standard (Enter) and Stepwise Method. Binary Logistic Regression.

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Essential/recommended readings

Performing Data Analysis using IBM SPSS, Lawrence S. Meyers, Glenn C. Gainst,
 J. Guarino, Wiley Publication

SPSS for Windows Step by Step A Simple Guide and Reference, Darren George and Paul

Malley

 SPSS in Simple Steps, Kiran Pandya, Smruti Bulsari, Sanjay Sinha, Dreamtech Press

Suggestive Readings

• Using SPSS in Research, Dr. Radha Mohan, Neelkamal.

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Corse Title - Sustainable Ecotourism and Enterpreneurship Learning Objectives

The Learning Objectives of this course are as follows:

- To train students in concepts and principles of sustainable ecotourism leading to a new generation of entrepreneurs
- To inculcate field-based practical skills in translating ecological systems into wealth generation while conserving natural resources
- To transform local biological wealth into a hub of global attraction and generate a scientific basis of Indian traditional knowledge

Learning outcomes

The Learning Outcomes of this course are as follows:

- After studying this course, students will be able to develop next-generation ecological entrepreneurs
- After studying this course, students will be able to evolve eco-literate society by integrating marketbased instruments with eco-cultural knowledge of traditional societies
- After studying this course, students will be able to practice ecological knowledge for wealth generation, environmental conservation, and popularization of Indian traditional knowledge

SYLLABUS

Practical/Hands-on Exercise

- Assess the current state of ecotourism in little-known/explored areas and examine ecotourism potential
- Field surveys to identify the existing locations having ecological, wildlife, scenic, and ethnic potential for ecotourism and analyze existing prevalent eco-practices having the potential to integrate with ecotourism programme
- Identify ten plant species having ecological, economic, and cultural significance as ecotourist attraction
- Develop stories on the selected wild habitats to attract ecotourists from within and outside the country
- Identify suitable track and prepare a checklist of birds and animals with their stories for a diverse group of ecotourists
- Examine the current state of natural resources and develop suitable messages and appropriate media for educating different target groups
- Survey and identify the target group for ecotourism based on their age, education, economic and other criteria and evaluate their psychological barriers to ecotourism
- Conduct inventory of facility and analyze a preliminary competitive advantage over ecological attractions in the nearby area
- Analyze tourist spending patterns and track preferences for ecotourism attractions in nearby areas and add value to ecological, wildlife, and cultural attractions
- Survey attitude and perception of residents regarding ecotourism plan and analyze costs and benefitsof the sustainable ecotourism development programme using a demand-driven marketing approach
- Develop messages, stories, and pictures to attract tourists and promote ecotourism in the target area
- Analyze basic elements of ecotourism, the special needs of ecotourists, develop trips and travel packages offering an array of experiences and predict the market trends
- Develop ecotourist activities for individuals, families, and groups and craft social media campaigns for the proposed ecotourism business
- Develop a plan for strategic alliances and partnerships with other projects/groups /organizations for public- private partnership in the proposed ecotourism programme.

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Teaching and learning interface for practical skills:

To impart training on technical and analytical skills related to the course objectives, a wide range of learningmethods will be used, including

- (a) laboratory practical;
- (b) field-work exercises;
- (c) customized exercises based on available data:
- (d) survey analyses;
- (e) developing case studies;
- (f) demonstration and critical analyses;
- (h) experiential learning individually and collectivelyrospective sector(s):
 - Forest Departments
 - Tourism industry
 - World Bank
 - UNDP
 - WWF
 - Environmental NGOs

Suggested Reading:

- Ballantyne, R. and Packer, J., 2013. International Handbook on Ecotourism. Edward Elgar Publishing Limited, UK
- Blumstein, D.T., Geffroy, B., Samia, D.S. and Bessa, E., 2017. Ecotourism's promise and
- Peril. A Biological Evaluation. Springer Int. Publ. (Chapters 10-11)
- Fennell, D.A., 2014. Ecotourism. An Introduciton. Routledge, London, UK.
- Fletcher, R., 2014. Romancing the wild. In Romancing the Wild. Duke University
- Tanguay, G.A., and Rajaonson, J., (2015). Evaluating Sustainable Tourism Using Indicators:
- Problems and Solutions. In: Brophy, S.C., (Ed), Ecotourism: Practices, Benefits and o Environmental Impacts. Nova Science Publishers, pp. 119 - 134.

Wearing, S. and Schweinsberg, S., 2019. Ecotourism: Transitioning to the 22nd century. Routledge

Course Title - Visual Communication and Photography Learning Objectives

The Learning Objectives of this course are as follows:

- To synthesize a comprehensive view of principles involved in Visual Communication.
- To appreciate and express the cultural significance of photography as visual art and understand its evolution and purposes.
- To develop an awareness of compositional and organizational strategies for the effective deployment of formal elements of visual art.
- To read visual texts with a deep knowledge of visual history and theory.
- To create an ability of situating the content and form of the visual representation of thematic context.

Learning outcomes

The Learning Outcomes of this course are as follows:

- · After studying this course, students will be able to acquire knowledge of the
- culturaland historical importance of the visual medium.
- After studying this course, students will be able to explore the
- fundamentals and underlying theories of Visual Communication.
- After studying this course, students will be able to develop a thorough
- · knowledge ofconcepts, and skills in creating photographs.
- After studying this course, students will be able to learn to identify and
- analyzesemiotics in photographs.
- After studying this course, students will be able to develop a craftsmanship in
- creating aesthetically pleasing photographs.

SYLLABUS

Unit 1: Historical Background and Basics of Visual Communication

Unit Description: The Unit I will give a brief history of the visual arts from the caveman to modern man. Skills of artistic schools of thought and Intertextuality in art in relation to culture.

Topics- Concept and History of Visual Communication, Human Eye and Visual Process, Visual culture and Information Education Communication, Theories of visual communication - Gestalt Theory of visual communication, Perceptual theory of Visual communication, Semiotics and cognitive approach in visuals

Unit II: Theories of Visual Communication

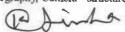
Unit Description: This unit will put emphasis on theories, semiotics and the study of signs. Through semiotic theories improve critical thinking skills, and learn to use semiotics to think logically and to analyze visual media in context of culture.

Topics: Fundamentals of Design: Definition. Approaches to Design, Centrality of Design, Elements of Design, Principles of Visual and other Sensory Perceptions. Colour psychology and theory (some aspects), Definition, Optical / Visual Illusions, etc., Various stages of design process, Learning skills to read signs and signifier in visuals for social messaging

Unit III: Photography as Visual Communication

Unit Description: This unit will provide skills to learn camera and lighting techniques. Topics: Introduction to photography, Camera - structure and function of camera,









Characteristics of light, Sources of Light-Nature, Artificial and Available, Lighting techniques-three-point lighting, Exposure - focusing, aperture, shutter speed, Depth of field.

, Kinds of light indoor and outdoor - Electronic flash and artificial lights, Light meters

Unit IV: Camera Compositions and Accessories

Unit Description: This unit will provide skills about camera accessories and designing aesthetically rich compositions.

Topics: Camera lenses and accessories, Basic shots, angle, and view, Composition, Role of photographic image in visual communication, Basics of photojournalism, photo-features, photo-essays, writing captions, visual storytelling.

Essential Readings

- Barnes, Susan B. An Introduction to Visual Communication: From Cave Art to Second Life, Peter Lang Pub, 2011.
- Berger, Arthur Asa, Seeing is Believing: An Introduction to Visual Communication, McGraw-Hill Education, 2012.
- Lester, Paul Martin, Visual Communication: Images with Messages (6ed), Cengage Learning, 2013.
- Photography: A Critical Introduction edited by Liz Wells London, Routledge, Oxon, 2015.
- Farrell, I. Complete Guide to Digital Photography, Quercus Publishing, UK, 2014.

Suggested Readings

Manday, Pradeep, Visual Media Communication, Authors Press, 2001.

 Williams, Rich, Visual Communication: Integrating Media, Art, and Science, Routledge, 2007

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Course Title - पटकथा लेखन

Course Objective

- पटकथा लेखन का परिचय कराना।
- विद्यार्थी की लेखन-क्षमता और भाषा-कौशल को बढ़ावा देना।
- विद्यार्थी की लेखन में रोजगार सम्बन्धी क्षेत्रों के लिए तैयार करना।

Course Learning Outcomes:

- पटकथा लेखन तथा उसके तकनीकी शब्दों से विद्यार्थी अवगत हो सकेगा।
- पटकथा लेखन की जानकारी मिलने के उपरान्त विद्यार्थी के लिए रोजगार की संभावनाएँ बनेंगी।
- विद्यार्थी भाषायी सम्प्रेषण को समझते हुए लेखन से सम्बन्धित विभिन्न पक्षों से अवगत हो सकेगा।
- विद्यार्थी में अभिव्यक्ति कौशल का विकास हो सकेगा।

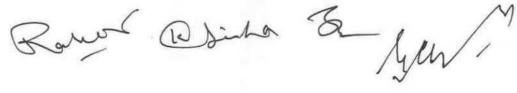
SYLLABUS

यूनिट 1

- पटकथा लेखनः परिचय
- पटकथा के तत्व
- पटकथा के प्रकार
- पटकथा की शब्दावली

यूनिट 2

- पटकथा लेखन में शोध का महत्व
- चरित्र की निर्मिति और विकास
- एक दृश्य का लिखा जाना
- तीन अंक (थ्री एक्ट) और पाँच अंक (फाइव एक्ट) को समझना



यूनिट 3

- वेबसीरीज के लिए पटकथा लेखन
- लघु फिल्म के लिए पटकथा लेखन
- वृत्तचित्र के लिए पटकथा लेखन
- विज्ञापन फिल्म के लिए पटकथा लेखन

यूनिट 4

- पटकथा का पाठ और विश्लेषण
- किसी आईडिया को स्कीन प्ले के तौर पर विकसित करना

सन्दर्भ पुस्तकें:

- पटकथा कैसे लिखें: राजेद्र पांडेय वाणी प्रकाशन, दिल्ली, संस्करण 2015
- पटकथा लेखन : एक परिचय मनोहर श्याम जोशी– राजकतल प्रकाशन, दिल्ली संस्करण 2000
- कथा—पटकथा : मन्तू भंडारी वाणी प्रकाशन, दिल्ली , संस्करण 2014
- व्यावहरिक निर्देशिकाः पटकथा लेखनः असगर वजाहत राजकमल प्रकाशन, दिल्ली, संस्करण 2011
- आईडिया से परदे तकः रामकुमार सिंह—राजकमल प्रकाशन, दिल्ली, संस्करण 2021

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Course Title रंगमंच

Course Objective

- हिन्दी रंगमंच का परिचय कराना।
- नाट्य-प्रस्तुति की प्रकिया की जानकारी देना।
- अभिनय के विभिन्न पक्षों से अवगत करना।
- रंगमंच के खेलों और गतिविधियों से अवगत कराना।

Course Learning Outcomes:

- नाट्य-प्रस्तुति की प्रकिया से विद्यार्थी अवगत हो सकेगा।
- रंगमंच की जानकारी मिलने के उपरान्त इस क्षेत्र में विद्यार्थी के लिए रोजगार की संभावनाएँ बनेंगी।
- रंगमंचीय गतिविधियों से विद्यार्थी के व्यक्तित्व का विकास हो सकेगा।
- विद्यार्थी में अभिव्यक्ति कौशल का विकास हो सकेगा।

SYLLABUS

यूनिट 1

- भरत मुनि कृत नाट्यशास्त्र (संक्षिप्त परिचय)
- हिन्दी का पारंपरिक रंगमंच (संक्षिप्त परिचय)

युनिट 2

प्रस्तुति-प्रकियाः आलेख का चयन, अभिनेताओं का चयन,दृश्य-परिकल्पना (ध्वकन-संगीत-नृत्य-प्रकाश),

पूर्वाभ्यास

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यूनिट 3

अभिनय की तैयारी: वाचिक, आंगिक, आहार्य, सात्विक

यूनिट 4

आशु अभिनय, थिएटर गेम्स, संवाद-वाचन, शारीरिक अभ्यास, सीन वर्क

यूनिट 5

मंच प्रबंधनः सेट, रंग-सामग्री, प्रचार-प्रसार, ब्रोशर-निर्माण

सन्दर्भ पुस्तकेंः

- संक्षिप्त नाट्यशास्त्रम् राधावल्लभ त्रिपाठी, वाणी प्रकाशन, दिल्ली, 2009
- रंग स्थापत्यः कुछ टिप्पणियाँ एच० वी० शर्मा राष्ट्रीय नाट्य विद्यालय प्रकाशन, दिल्ली संस्करण
 2004
- पारंपिक भारतीय : रंगमंच अनंतधाराएँ किपला वात्स्यायन, अनुवाद–बदी उजम्मा, नेशनल बुल
 ट्रस्ट, दिल्ली, 1995
- हिंदी रंगमंच का लोकपक्ष, सं प्रो0 रमेश गौतम, स्वराज प्रकाशन, दिल्ली 2020
- मंच आलोकन जी० एन० दासगुप्ता, अनुवाद अजय मलकानी, नेशनल बुक ट्रस्ट, दिल्ली 2006
- रंगमंच के सिद्धांत —सं महेश आनंद, देवेन्द्र राज अंकुर, राजकमल प्रकाशन, दिल्ली 2008

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Course Title रचनात्मक लेखन

Learning Objectives

- विद्यार्थीयों के मौखिक और लिखित अभिव्यक्ति कौशल को विकसित करना।
- उनमें कल्पनाशीलता और रचनात्मकता का विकास करना।
- साहित्य की विविध विधाओं और उनकी रचनात्मक शैली का परिचय कराते हुए लेखन की ओर प्रेरित करना।
- प्रिंट एवं इलेक्ट्रानिक माध्यमों के लिए लेखन की प्रवृति को विकसित करना।

Learning outcomes

The Learning Outcomes of this course of this course are as follows:

इस पाठ्यकम के अध्ययन के पश्चात् विद्यार्थीयों में :

- मौखिक और लिखित अभिव्यक्ति कौशल को विकसित होने में मदद मिलगी।
- उसमें कल्पनाशीलता और रचनात्मकता का विकास हो सकेगा।
- साहित्य की विधि विधाओं और उनकी रचनात्मकता शैली का परिचय होगाा जिससे वे स्वयं भी विधाओं में लेखन की अग्रसर हो सकेगे।
- प्रिंट एवं इलेक्ट्रानिक माध्यमों के लिए लेखन की ओर भी ये अग्रसर होंगे।

SYLLABUS

यूनिट 1

रचनात्मक लेखकः अवधारणाः स्वरूप आधार एवं विश्लेषण

- भाव एवं विचार की रचना में अभिव्यक्ति की प्रक्रिया
- अभिव्यक्ति के विविध क्षेत्रः साहित्य पत्रकारिता विज्ञापन भाषण

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- लेखन के विविध रूपः मौखिक-लिखित गद्य-पद्य कथात्मक-कथेतर
- अर्थ निर्मित के आधारः शब्द और अर्थ की मीमांसा शब्द के पुराने—नए प्रयोग, शब्द की व्याकरणिक कोटि

यूनिट 2

भाषा भंगिमा और साहित्य लेखन

- भाषा भंगिमाएँ: औपचारिक—अनौपचारिक, मौखिक—लिखित, मानक भाषिक संदर्भः क्षेत्रीय, वर्ग—सापेक्ष, समूह—सापेक्ष
- रचना-सौष्ठवः शब्दशक्ति, प्रतीक, बिम्ब, अलंकारवकृता
- कविताः संवेदना भाषिक सौष्ठव, छंदबद्ध-छंदमुक्त, लय, गति, तुक
- कथा–साहित्यः वस्तु, पात्र, परिवेश, कथ्य और भाषा

यूनिट 3

विविध विघाओं एवं सूचना माध्यमों के लिए लेखन

- नाट्य—साहित्यः वस्तु, पात्र, परिवेश, कथ्य, रंगमंच और नाट्य—भाषा
- विविध गद्य विधाएँ: निबंध, संस्मरण, आत्मकथा, व्यंग्य,रिपोर्ताज, यात्रा-वृत्तांत
- प्रिंट माध्यम के लिए लेखनः फीचर, यात्रा—वृत्तांत, साक्षात्कार, विज्ञापन
- इलेक्ट्रानिक माध्यम के लिए लेखनः विज्ञापन, पटकथा, संवाद

Practical Exercises if any:

नोटः उपर्युक्त का परिचय देते हुए इनका अभ्यास भी करवाया जाए।

Page 43 of 44

References and suggested readings

- 1. साहित्य चिंतनः रचनात्मक आयामः रघुवंश
- 2. शैलीः रामचंद्र मिश्र
- 3. रचनात्मक लेखकः सं० रमेश गौतम
- 4. कविता क्या है: विश्वनाथ प्रसाद तिवारी
- 5. कथा-पटकथाः मन्नू भंडारी
- 6. पटकथा लेखनः मनोहर श्याम जोशी
- 7. कला की जरूरतः अर्नेस्ट फिशरः अनुवादकः रमेश उपाध्याय
- 8. साहित्य का सौंदर्यशास्त्रः रवींद्रनाथ श्रीवास्तव

9. कविताः रचना-प्रकियाः कुमार विमल

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Proposed Course Structure for 4 Year Undergraduate Programme under CBCS System

Value Added Course (VAC)

Semester - I (VAC-1)

Science	Social Science/Arts	Commerce		
Ayurveda & Nutrition Financial Literacy Ethic & Culture Art of Being Happy Swach Bharat Fit India Panchakosha: Holistic Development of Personality Culture & Communication	 Gandhi & Education Sports for life Ethic & Culture Art of Being Happy Swach Bharat Fit India Panchakosha: Holistic Development of Personality भारतीय भिक्त परम्परा और मानव मूल्य 	 Digital Empowerment Sports for life Ethic & Culture Art of Being Happy Swach Bharat Fit India Panchakosha: Holistic Development of Personality Culture & Communication 		

Semester – II (VAC- 2)

Science	Social Science/Arts	Commerce		
 Vedic Mathematics Emotional Intelligence Yoga Philosophy & Practice Ethics & Values in Ancient Indian Tradition Constitutional Values & Fundamental Duties Social & Emotional Learning Ecology & Literature 	 Vedic Mathematics Emotional Intelligence Yoga Philosophy & Practice Ethics & Values in Ancient Indian Tradition Constitutional Values & Fundamental Duties Social & Emotional Learning भूजनात्मक लेखन के आयाम 	 Vedic Mathematics Emotional Intelligence Yoga Philosophy & Practice Ethics & Values in Ancient Indian Tradition Constitutional Values & Fundamental Duties Social & Emotional Learning Ecology & Literature 		

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List of Value-Added Course (VAC)

		LTP		Total Credits:	Total Marks =	
SL. No.	Course Title	Distribution of the Course				
	-	L	T	P		
1	Art of Being Happy	1	0	3	3	
2	Ayurveda & Nutrition	1	0	3	3	
3	Constitutional Values & Fundamental Duties	1	0	3	3	
4	Culture & Communication	1	0	3	3	
5	Digital Empowerment	1	0	3	3	
6	Ecology & Literature	1	0	3	3	
7	Emotional Intelligence	1	0	3	3	
8	Ethics and Culture	1	0	3	3	
9	Ethics & Values in Ancient Indian Tradition	1	0	3	3	Aark: arks
10	Financial Literacy	1	0	3	3	: 70 N
11	Fit India	1	0	3	3	aisal nemt;
12	Gandhi & Education	1	0	3	3	Appr
13	Panchakosha: Holistic Development of Personality	1	0	3	3	End -Term Appraisal : 70 Marks Internal Assessment: 30 Marks
14	Social & Emotional Learning	1	0	3	3	-
15	Sports for life	1	0	3	3	
16	Swach Bharat	1	0	3	3	
17	Vedic Mathematics	1	0	3	3	
18	Yoga Philosophy & Practice	1	0	3	3	
19	भारतीय भक्ति परम्परा और मानव मूल्य	1	0	3	3	
20	सुजनात्मक लेखन के आयाम	1	0	3	3	

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Value Added Courses (VAC)

Course Title - Arts of Being Happy

Course Objectives

- To synthesize the insights developed by Human Development experts, Psychologists, Anthropologists on one hand, and the intellectual traditions of Vedantic Philosophy and Indology on the other towards the experience of happiness.
- To illustrate various factors that determine the subjective experience of happiness in a cross cultural context.

Learning Outcomes

- The students shall be able to evaluate the factors contributing to the phenomenon of happiness in the personal, familial and community life of an individual in different cultures in the Indian context.
- They will be able to develop healthy interpersonal relationships and wellbeing, cherishing the values of Indian culture and philosophy.
- They will be able to relate to the global phenomenon of sustainable development and become sensitive to the needs of the planet.
- They will be able to apply the experience of Aananda at a personal level.

Syllabus of The Art of Being Happy

Unit 1: Human Ecology and Happiness

- Definitions/Factors of Happiness:
 Environmental and Social
- Physical, emotional and psychological well-being for happiness
- Physiological and hormonal basis of happiness
- Coping with Stress: A life saving skill

Unit 2:Indological Theories of Happiness

- Funch Rosh Theory & Idea of Well Hong
- Idea of Self and other
- Hierarchy and stages of happiness

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Unit 3: Happiness: Cross-cultural Contexts

- · Culture and Happiness
- Interpersonal Relationship: Comparative Perspective
- Towards Self-Actualization

Unit 4:Local and Global Perspective of Happiness

- · Measuring happiness: Key indicators
- Happiness Index
- India in Global Happiness Indices

Practical/ Practice Component

The course will be based on students' identification and operationalization of the concept of happiness and well-being. Students will explore the indicators and actualization of these concepts in everyday life.

- Community surveys on the facilities promoting positive mental health practices such as Yoga and Meditation Centres, Recreation clubs, and Parks for youth and senior citizens shall be carried out by the students.
- Extending help and social service by visiting old age homes/ hospitals/slum areas or any other disadvantaged groups.
- Students can undertake a field work / project independently or work as an Intern with NGOs working in the area of happiness and well-being.
- Critical appreciation of a documentary/ film based on Happiness and Well-being can be undertaken by the students.
- Workshops/ Sessions for the actualization of innate creative potential- (Music, Drawing, Calligraphy, Dramatics)
- · Hands-on Happiness: Gardening, Cleaning, Washing, Cooking, etc.
- If required, students can share their experiences in the form of a Project Report.
- Students may share their experiences in the form of Audio-video presentations of 15-20 minutes.
- Any other Practical/Practice as decided from time to time

Essential Readings

- Banavathy, Vinayachandra & Choudry, Amuradha. (2013). Understanding Happineon: A Vedantic Perspective. Psychological Studies. 59, 141-152, 10.1007/s12646-013-0230-x.
- Leonticy, Dmitry. (2012). Anthropology of Happiness: the state of Well-Being and the way of Joy, In Social Science, sVol43 No 2 P93-104.
- Snyder .C.R. S.J. Lopez & J.T. Pedrotti. (2015). Positive Psychology (The Scientific and Practical Explorations of Human Strengths): Sage Publication. (Chapter 5: Subjective Well-being: The Science of Happiness and Life Satisfaction, Page 63 to 73)
- WorldDevelopmentIndicators2016. (2016). United States: World Bank Publications.

Zelenski, John. (2019).

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Suggested Readings

- Baumgardner, S&Crothers, M. (2014). Positive Psychology. New Delhi: Pearson Education, India.
- Goleman, D. (2007). Social Intelligence: The new science of human relationships, RHUK
- Mathews, Gordon and Carolina Izquierdo. (eds). (2010). Pursuits of Happiness: Well being in Anthropological Perspective. Berghan Books
- Seligman, M. (2002). Authentic happiness: Using the new positive psychology to realize your potential for lasting fulfillment. New York: Free Press.
- Sri Aurobindo, The Synthesis of Yoga, Part Three: The Yoga of Divine Love, Chapter 7, The Ananda Brahman, pp. 569-570
- PositivePsychology:TheScienceofWell-Being,-CarletonUniversity,Ottawa, Canada,
 Sage Publications Chapter3:Happiness;page 77 to 110)

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Course Title - Ayurveda and Nutrition

COURSE OBJECTIVES:

- To introduce the basic principles of nutrition in Ayurveda
- To link the Ayurvedic nutrition with modern dietary practices for health
- To analyse basic tenets of traditional diets and health recipes
- To understand the contemporary food habits in everyday life

LEARNING OUTCOMES:

- · Awareness of traditional food cultures of India
- · Evaluate changing food patterns and lifestyle over the years
- Understand Indian Knowledge Systems (IKS) and key Vedic principles with respect to Food and Nutrition
- · Apply basic tenets of traditional diets for health and disease
- Prepare selected healthy recipes based on Ayurvedic principles

Syllabus of Ayurveda and Nutrition

Unit 1: Introduction to Ayurvedic Nutrition

- Ayurveda and Indian food cultures
- Nutrition and lifestyle transition over the years
- Regional Food Traditions of India

Unit II: Basic principles of Food and Nutrition and Ayurveda

- Understanding rich sources of nutrients
- Concept of Doshas & assessment
- Ayurvedic Principles of food habits and factors determining quality of food (Ahara vidhi visheshaayatana)
- FSSAI regulations on Ayurvedic Aahar

Unit III: Ayurvedic Diets

- Principles of Diet: Aharavidhi vidhan, Sattvic, Rajasi, Tamasic foods
- Incompatible food (Viruddha Ahara), Pathya; Apathya;
 Viprita Ahaar
- Lifestyle Management with Dincharya and Ritucharya
- Application of Ayurvedic dicts to stress linked food behaviour

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Practical/Practice Component

- Visit your local market and classify the available food items according to Sattvic, Rajasi, Tamasic foods
- Conduct a survey of 10-15 households in your locality:
 - To study food behaviour and analyse them in light of Ayurvedic dietary principles of Sattvic, Rajasi, Tamasic
 - To study the food consumption patterns and intake of incompatible food: ViruddhaAhara, Pathya; Apathya; VipritaAhaar
 - · Toknow about their adopted lifestyle Dincharya and Ritucharya

Students are required to visit available e-resources of University of Delhi, Ministry of

- Ayushwith regard to Ayurvedaand Nutrition.
- If required, students can share their experiences in the form of a Project Report.
- The students may share their experiences in the form of audio-visual presentations of 15-30 minutes.
- Any other Practical/Practice as decided from time to time

Essential Readings

- Rastogi S (2014) Ayurvedic Science of Food and Nutrition. ASIN: BOOHWMV094, Springer: ISBN-13:978-1461496274
- Rastogi S (2010) Building bridges between Ayurveda and modern science. Int J AyurvedaRes. 1(1):41-46.
- FSSAI regulations on Ayurveda Aahar Regulations 2022. Gazette of India CG-DL-E-07052022-235642. New Delhi, Friday, May 6, 2022/ Vaisakhal 6, 1944.
- Frawley D (2012) Ayurvedichealing: A comprehensive guide. Lotus Press, India.
- https://iksindia.org/:Indian Knowledge Systems

Suggested Readings

- Charaka Samhita, Charaka (1998) In: Tripathi BN (ed) Sutra Stahan Maharashitiya Adhyay. Chaukhamba Orientelia, Varanasi.
- Kapoor Kapil & Singh AK Indian Knowledge Systems Volume- 1. Indian Institute of Advanced Study Shimla. Published by DK Printworld (P) Ltd, N.Delhi. https://www.lkouniv.ac.in

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Course Title - Constitutional Values And Fundamental Duties

COURSE OBJECTIVES:

- Enrich students with knowledge and relevance of the Constitution.
- Develop awareness about Duties and Values.
- Inculcate a sense of Constitutionalism in thought and action.

LEARNING OUTCOMES:

- Understand the Constitution and its relevance
- Appreciate the values and goals embedded in the Constitution.
- Recognise the importance of Fundamental Duties enshrined in the Constitution.
- Apply the spirit of fundamental values and duties in everyday national life.

Syllabus of Constitutional Values and Fundamental Duties

Unit I: The Constitution of India - an Introduction

- · Federal Republic, Rule of Law, Separation of Powers
- Sovereignty, Socialism, Democracy
- Secularism and Sarva Dharma Sama Bhava

Unit II: Constitutional Values

- Justice: Social, Political, Economic
- Liberty: Thought, Expression, Belief, Faith, Worship
- Equality: Equality before law & equal application of laws
- Fraternity: Dignity, Unity and Integrity

Unit III: Fundamental Duties

- Reflecting on the ancient Indian notions of righteousness and duty consciousness
- Fundamental Duties-Article 51A [(a) (k)]
- Legal status of Fundamental Duties Judicial approach

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Practical/ Practice Component

- Reflections on some of the constitutional values/ fundamental duties and its contemporary relevance in day-to-day national life through group discussions and projects.
- Conduct workshops to spread awareness on the Fundamental Duties and Values.
- Students are required to conduct a survey (minimum 25 respondents) on assessing the awareness of the constitutional duties amongst the citizens.
- Students may share their experiences on Fundamental Duties and Values in the form of a Project Report.
- Any other Practical/Practice as decided from time to time

ESSENTIAL READINGS

- Preamble to the Constitution of India, 1950.
- The Constitution of India, Articles 14, 19, 21.
- The Constitution of India, Fundamental Duties [Ar. 51 A (a) (k)].

SUGGESTED READINGS

- Durga Das Basu, et al., Introduction to the Constitution of India (LexisNexis, 26th edn, 2022).
- Leila Seth, We, the Children of India: The Preamble to Our Constitution (New Delhi, Puffin Books, Penguin Books India, 2010).
- Mahendra Pal Singh, V.N. Shukla's Constitution of India, (Eastern Book Company, Lucknow, 13th revised edn. 2017)
- B.R. Ambedkar Selected Speeches, (Prasar Bharati, New Delhi, 2019) available at: https://prasarbharati.gov.in/whatsnew/whatsnew 653363.pdf.

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Course Title - CULTURE AND COMMUNICATION

Learning Objectives:

- To focus on traditional values disseminated from Indian cultural heritage.
- To understand the interconnections between the legacy of our past and needs of our contemporary society.
- To learn to adapt, interact and celebrate our diversity and pluralistic culture.
- To develop communication skills in speaking, listening, reading and writing and apply them in our quotidian life as young citizens of contemporary India.
- To integrate ethical values and life skills.

Course Outcomes:

- Students will be able to appreciate the relevance of ancient Indian wisdom and core ethical values in our contemporary life.
- Students will be able to engage in a dialogue between the past and the present and inculcate the best principles towards a meaningful life.
- Students will be encouraged to involve themselves in team work and group activities to address challenges faced in metropolitan cities.
- Students will be able to develop communication skills, that is, analytical reading, empathetic listening, considerate speaking as well as informed writing.
- Extension activities will equip the students, drawn from diverse backgrounds, with life skills and confidence to integrate with a multicultural environment and work towards an inclusive community.
- Students will be encouraged to envisage and work towards an ethically robust society and thereby strengthen the nation.

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Unit I: Ethical Valuesfrom Indian Cultural Heritage

- VasudhaivaKutumbakam
- United WeStand, Divided WeFall
- Ek Bharat, ShreshtBharat

Unit II: Developing Life Skills

- Empathy
- Adaptability
- Conserving our natural resources
- Sharing knowledge resources

Unit III: Effective Communication in Everyday Life

- empathetic listening
- considerate speaking
- · analytical reading
- informed writing

Practical/Practice Component

As hands-on experience is an essential component of the course, this section will focus on the practical aspects to correlate with the fundamental principles and learnings of the theory portion. Students will be encouraged to use the communication tools learnt through Unit 3 and corroborate the continuities of core principles studied in Unit 1 and 2.

- Students will be asked to conduct surveys/interviews in their neighbourhood or commuting routes to assess the nature and quality of negotiating our cultural diversity and pluralist traditions.
- Students would be assigned visits to old-age homes, hospitals, cancer wards, etc. to
 interact and write about their experiences with old people, caregivers, patients, nursing
 staff, helpers, etc.

staff, helpers, etc.

• They will also be assigned visits to historically important places and monuments within the city and also converse with the tourists in order to trace a comprehensive view of the rich cultural history of India. They may create video documentaries, take and record tourists' interviews and/or write a journal entry of the visit using the communication skills learnt.

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 Students shall make group presentations or individual reports on the activities undertaken. Discussions with classmates and the teacher shall be undertaken to evolve clarity of vision on the ethical values and effective communication skills learned through this course.

ESSENTIAL READINGS:

- Ramanujan, A.K. 'A Flowering Tree', Cultural Diversity, Linguistic Plurality & Literary Traditions in India. Department of English, OUP, 2015, pp 125-138
- Haksar, A. N. D. 'Chanakya Niti Shastra', Chanakya Niti. India, Penguin Random House India Private Limited, 2020.
- Dhanavel. S.P. English and Soft Skills. Orient Black Swan, 2010.
- Murthy, Sudha. 'The Nobel Prize', Wise & Otherwise. India, Penguin Random House India Private Limited, 2006.
- Murthy, Sudha. 'How to Beat the Boys', Three Thousand Stitches: Ordinary People, Extraordinary Lives'. Penguin Books, 2017.
- Soyinka, Wole. 'Telephone Conversations', The Individual and Society, Department of English, Pearson Education, 2006. pp 122-23
- Bansode, Hira. 'Bosom Friend', The Individual and Society, Department of English, Pearson Education, 2006. pp 49-50

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Course Title - Digital Empowerment

COURSE OBJECTIVES:

- Understand the digital world and need for digital empowerment
- Create awareness about Digital India.
- Explore, communicate and collaborate in cyberspace.
- Building awareness on cybersafety and security.

LEARNING OUTCOMES:

- Use ICT and digital services in daily life.
- Develop skills to communicate and collaborate in cyberspace using social platforms, teaching/learning tools.
- Understand the significance of security and privacy in the digital world.
- Evaluate ethical issues in the cyber world.

Syllabus of Digital Empowerment

Unit I: Digital inclusion and Digital Empowerment

- Needs and challenges
- Vision of Digital India: DigiLocker, E-Hospitals, e-Pathshala, BHIM,
 e-Kranti (Electronic Delivery of Services), e-Health Campaigns
- Public utility portals of Govt. of India such as RTI, Health, Finance, Income Tax filing, Education

Unit II: Communication and Collaboration in the Cyberspace

Syllabus of Digital Empowerment

Unit I: Digital inclusion and Digital Empowerment

- Needs and challenges
- Vision of Digital India: DigiLocker, E-Hospitals, e-Pathshala, BHIM,
 e-Krantı (Electronic Delivery of Services), e-Health Campaigns
- Public utility portals of Govt. of India such as RTI, Health, Finance, Income Tax filing, Education

Unit II: Communication and Collaboration in the Cyberspace

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- Electronic Communication: electronic mail, blogs, social media
- Collaborative Digital platforms
- Tools/platforms for online learning
- Collaboration using file sharing, messaging, video conferencing

Unit III: Towards Safe and Secure Cyberspace

- Online security and privacy
- Threats in the digital world: Data breach and Cyber Attacks
- Blockchain Technology
- Security Initiatives by the Govt of India

Unit IV: Ethical Issues in Digital World

- Netiquettes
- Ethics in digital communication
- Ethics in Cyberspace

Practical/ Practice Component

The course should be conducted in an interactive mode through demonstration, using appropriate tools.

- Conduct workshops on e-services initiated under Digital India.
- Spread digital literacy/awareness amongst the vulnerable groups and marginalised sections of the society like street vendors, domestic help, security guards, senior citizens.
- Students will take up team activities/ projects exploring digital services in the areas such as education, health, planning, farming, security, cyber security, financial inclusion, and justice, e-Kranti.
- · Any other Practical/Practice as decided from time to time

Essential Readings /Online Resources

- 1. Rodney Jones and Christoph Hafner. "Understanding digital literacies: A practical Introduction". Routledge Books, 2nd edition, 2021.
- 2. https://www.digitalindia.gov.in
- 3 https://www.digilocker.gov.in
- 4. https://www.cybercrime.gov.in
- 5. https://www.cybersafeindia.in
- 6. https://www.meity.gov.in/cyber-surakshit-bharat-programme Sch

Suggested Readings:

- David Sutton. "Cyber security: A practitioner's guide", BCS Learning & Development Limited, UK, 2017.
- 2. https://www.mha.gov.in/document/downloads/cyber-safety-handbook

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Course Title - Emotional Intelligence

COURSE OBJECTIVES

- Introduce the concept of emotional intelligence, its models and components.
- Understand the significance of emotional intelligence in self-growth and building effective relationships.
- Identify the measures of emotional intelligence.

LEARNING OUTCOMES

- Self-Awareness, Self-Management, Social Awareness & Relationship Management.
- Discover personal competence and techniques of building emotional intelligence.
- Gain insights into establishing positive relationships.

Syllabus of Emotional Intelligence

Unit I: Fundamentals of Emotional Intelligence

- Nature and Significance
- Models of emotional intelligence: Ability, Trait and Mixed
- Building blocks of emotional intelligence: self-awareness, self-management, social awareness, and relationship management

Unit II: Personal Competence

- · Self Awareness: Observing and recognizing one's own feelings, Knowing one's strengths and areas of development.
- Self Management: Managing emotions, anxiety, fear, and anger.

Unit III: Social Competence

- Social Awareness: Others' Perspectives, Empathy and Compassion
- Relationship Management: Effective communication, Collaboration, Teamwork, and Conflict management

Unit IV: Emotional Intelligence: Measurement and Development

- Measures of emotional intelligence
- Strategies to develop and enhance emotional intelligence

Practical/ Practice Component

Students will practice self-management techniques to regulate emotions such as

- Mindfulness
- Conditioned relaxation response
- Boundary setting
- Any other

Students will practice various techniques of relationship management such as engaging with:

- Display of empathy
- Effective communication

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- Teamwork
- Conflict resolution
- Any other
- If required, students can share their experiences in the form of a Project Report.

Essential Readings

- Any other Practical/Practice as decided from time to time
- Bar-On, R., & Parker, J.D.A.(Eds.) (2000). The handbook of emotional intelligence.
 San Francisco, California: Jossey Bros.
- Goleman, D. (2005). Emotional Intelligence. New York: Bantam Book.
- Sternberg, R. J. (Ed.). (2000). Handbook of intelligence. Cambridge University Press.

Suggested Readings

- HBR's 10 Must Reads on Emotional Intelligence (2015)
- HBR's 10 Must Reads on Managing Yourself (2011)
- Self Discipline: Life Management, Kindle Edition, Daniel Johnson.

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Course Title - Ecology and Literature

Course Objectives:

- To raise awareness among students towards the urgent predicament of Environmental and Ecological crisis and the need for reducing our carbon footprint upon fast depleting, ravaged ecological reserves.
- To develop a heightened ecological consciousness among students, leading to more responsible ecological behavior.
- To view environmental concerns as raised through plays, stories and poems.

Learning Outcomes:

- The course will highlight the urgency of environmental crisis, making studentsconscious and aware of the role each one of us plays.
 into environmental sensitivity and responsible ecologicalbehavior.
- Students will be encouraged to respond to incidents of habitat destruction, deforestation, etc. and realize the need for our urgent intervention.

Syllabus of Ecology and Literature

Unit I: Negotiating environmental issues creatively

- 1. William Wordsworth: 'In April beneath the scented thorn'
- 2. Rabindranath Tagore: 'The Waterfall'
- 3. Gieve Patel: 'On Killing a Tree'

UNIT II. Ecocritical literary representations

- 1. Mary Oliver: 'Sleeping in the Forest'
- 2.AK Ramanujan: 'A Flowering Tree'
- 3. Mamang Dai: 'Small Townsand the River'

UNIT III: Empathetic exploration and imaginative re-enactments

- 1. Amitav Ghosh's 'Part I: Stories' from *The GreatDerangement: Climate Change and the Unthinkable*.
- 2. Thangjamlbopishak: 'Volcano, Youcannot erupt' from Dancing Earth: An Anthology of Poetry from North-East India
- 3. Thangjamilbopishak. 'Dali, Hussain, or Odour of Dream, Colour of Windform Dancing Earth: An Anthology of Poetry from North-East India

Practical/ Practice Component

• Students would undertake field visits to a school or a slum in the neighborhood or the play area of residential complexes to share, narrate stories, poems and articulate the ideas

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engaged with in the classroom lectures.

- They shall apply imaginative and creative ways of presenting socially responsible ecological behavior through re-tellings of the texts they have studied in the class.
- Creative re-enactment of key ideas studied by students in the form of a play, to be done Individually and/or in a group to create awareness regarding environmental consciousness.
- They can also collectively organize a tree plantation drive in and around the college campus and adopt a sapling each in the college premises and in their neighborhood to take care of.
- Any other Practical/Practice as decided from time to time SUGGESTED READINGS:
- Akhter, Tawhida, and Ahmad Bhat, Tariq. Literature and Nature. United Kingdom, Cambridge Scholars Publishing, 2022.
- 2. Shiva, Vandana. 'Development, Ecology and Women', Staying Alive: Women Ecology and Development. India: Zed Books, 1988. pp 1-14
- Carl, Safina. Prologue & Chapter 1, Beyond Words: What animals think and feel. Souvenir Press, 2015.
- . Garrard, Greg. Ecocriticism. United Kingdom: Taylor & Francis, 2011.
- 5. Wohlleben, Peter. The Hidden Life of Trees: What They Feel, How They Communicate—Discoveries from a Secret World. India: Penguin Books Limited, 2016.

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Course Title - Ethics and Culture

Course Objectives

- The course aims to help students explore ethical and cultural dimensions of their lives.
- The course provides a forum for students to pause, revisit their assumptions and beliefs, and become mindful of their thoughts, emotions and actions.
- It gives the students an opportunity to express themselves and inquire into their decision making processes. This will enable them to cultivate ethical values and participate in the creation of a society based on acceptance, compassion, and justice.

Learning Outcomes

- Explore perspectives on ethics in thoughts, words and actions
- Evolve ethical decision making practises
- Understand the need for an ethical society and culture
- Introspect, become conscious of and assess one's stance in life
- Cultivate empathy, tolerance and compassion
- Apply the values learnt in the course to everyday life.

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Syllabus of Ethics and Culture

Unit 1

Unit I: Introduction | The Basis of Ethics

- Getting to Know Each Other
- What to Expect from the Course?
- Recognition of Our Common Humanity
- Empathy, Compassion and Justice

Unit II: The Role of Intelligence, Reason and Emotions

- Discernment: What Is The Right Thing To Do?
- The Art of Conflict Resolution
- Destructive and Constructive Emotions
- The Need for Emotional Balance

Unit III: Cultivating Inner Values | Ethics in the World of Work and Play

- Training the Mind: Mindfulness and Kindness
- Meditation
- Discovering your Vocation and Interests
- Self-discipline, Integrity, Commitment, Creativity
- Work-Life Balance

Unit IV: Striving for a Better World | Outreach Activities

- Means and Ends
- Debate and Dialogue
- Culture as Shared Values
- Creating and Sustaining Ethical Cultures: The Role of Philosophy, Religion, Literature, Theatre, Cinema, Music, Media

Practical/Practice Component

Unit 1

- The teacher may ask students to introduce themselves, sharing their regional and cultural roots. They may be asked to reflect on those aspects of their identities that reflect their cultural roots.
- 2. After a round of initial introduction, the teacher may ask students to list down a set of values that they think they have developed through their parents and grandparents. Are these values unique to their families, regional and/or ethnic backgrounds? Of these, which are the values they would like to sustain and which are the ones they would wish to modify?
- 3. The teacher may draw upon the values discussed by students in the previous lesson.
 Using these as the base, the teacher may ask students to think of ethical values that form the basis of their decisions.

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- 4. The teacher may ask students to think of people who they think have lived an 'ethical life'. These may be people who they know from their personal lives or people known for upholding ethical values in the face of adversity.
- 5. Students are encouraged to identify what are common human values necessary to realise shared common humanity—the feeling of interconnectedness/interdependence.
- 6. Class to be divided in small groups to discuss how each would make an effort to cultivate new morals/ethical values for betterment of their local environment.
- 7. Celebrating 'Sharing and Caring' based on regional diversity can be encouraged.
- 8. Engage students to do activities of 'being in the shoes of others' (peers, parents, siblings, house help/support or in any local community grappling with problems) to understand the problems empathetically.
- The students can be asked to make bookmarks/cards to remind them about virtues
 pertaining to empathy versus sympathy, need versus greed, just versus unjust or
 compassion versus insensitivity.
- 10. Compassion is about cultivation of it as a daily value so students can in small groups undertake compassion based activities of looking after animals, birds, needy, elderly, differently abled, non-privileged etc. and share their thoughts in the class.

Unit 2

- 1. Make the student think of a hard decision they have made. What made it hard? How did you make the decision? How do you assess it retrospectively?
- 2. Encourage students to think of judgements and decisions based on the dilemmas and challenges they faced? How do they go about making these decisions?
- The teacher may introduce any well known story and ask the students to discuss the story from the point of view of the different characters.
- 4. Ask students how willing they are to deal with a conflict when it occurs. What strategies do they adopt to resolve the conflict?
- 5. The teacher may ask students to prepare posters with captions like "avoidance", "competition", "cooperation" and "adaptation" and then may ask students to identify with one of these styles which according to them best represents their style of dealing with conflict.
- The students may be asked to discuss different such similar situations that they may
 have encountered and a discussion may be initiated on how they resolve those
 conflicts.
- 7. The students can be asked to write down certain destructive emotions that they are experiencing presently. How would they work to make them constructive? A classroom discussion could follow around this.

8. Ask the students to note down a list of constructive emotions experienced by them

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- recently. Were the constructive emotions less powerful as compared to the destructive ones experienced by them? Discussion in class can follow.
- 9. How do you (i) express, (ii) handle anger/ disgust/ distress/ fear (any destructive emotion can be taken up). A healthy discussion in the class can take place around this.
- 10. Students may be asked to practice a simple breathing exercise. They can sit straight with eyes opened or closed in a comfortable position to just observe their breathing. They can repeat this exercise six to eight times and share (if they like) their experience of silence.
- 11. To identify your interests and develop a meaningful hobby.
- 12. Have an open conversation in the class about happiness.

Unit 3

- The students could observe various emotions that bottle-up in their minds and be asked to watch the flow of emotions non-judgmentally.
- 2. Students may be asked to recall their journey to the college that morning. Do they remember road signs, faces of people they crossed, the roads that they took, the people they interacted with, the sights and smells around them, or anything else?
- Students could be asked to cultivate the habit of simple greeting as practice of gratitude and celebrate a day of joyful giving.
- 4. The students can close their eyes for 2-3 minutes and be asked to observe their thoughts, list them and categorise them into 'to be kept' or 'to let go'.
- The teacher may ask students to close their eyes and imagine a situation in which they are truly happy. Students could wish for the well-being of two students in the same classroom in their meditative state.
- Students could meditate on who has been their inspiration and the qualities of the person who has inspired them and then express gratitude to the person concerned.
- 7. The teacher may ask the students to think retrospectively about what they thought they would take up as a vocation when they were younger. How and why their choices were influenced and changed, if at all.
- 8. The teacher may ask the students to imagine and chart a journey and destination for themselves. They may also talk about the challenges they foresee.
- 9. The teacher may encourage the students to maintain a daily diary of their scheduling of time or a worklog and see how much time they effectively give to their work. The teacher may help the students identify the distractors and where one may be 'wasting' time and energy. The activity is designed to help students understand the value of effective time utilisation.
- 10. In this lesson, the teacher may ask the students to draw up a list of team ethics. They may build this based on their experiences of working with each other in groups.

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11. The teacher may ask the students to share an incident each where they felt pressurised/bored to complete some work. How did they deal with their stress and monotony of work?

Unit 4

- 1. Students will be asked to work in pairs and develop situations that pose ethical dilemmas and how to resolve them.
- 2. Students may be asked to look at a film or at an advertisement and discuss what they think about the question/s posed in them. The teacher may ask them if they can think of an alternative ethical approach to the problem posed.
- 3. Students will be asked to think of situations in which they lost their temper. Have they ever felt that in a fit of emotion they said something that they regretted later? If they had paused to listen and then respond, what would the other person have said? How would the outcome of the situation have been different?
- 4. A debate on any relevant topic may be conducted in the class. After the first round the students may be asked to adopt and argue their opponents point of view. At the end of this exercise the students can have an open discussion on which position finally appealed to them.
- 5. The teacher may give a short story to the students and ask them to change the ending. They may be asked to observe how characters and their views may have undergone change in the process.
- 6. There can be a discussion around a topic such as, the idea of corporal punishment, euthanasia etc. Students can be given a sheet of paper and can be asked to write for or against the theme. The idea is to enable them to understand that the positions they have taken vis-a-vis the theme are a result of different value orientations.
- 7. Popular foods from many parts of India can be discussed. Their origins can be traced to chart a kind of food history.
- 8. The teacher on the basis of discussions with students can draw from Philosophy, Religion, Literature, Theatre, Cinema, and Media to highlight that the choices people/characters make are grounded in their culture.
- 9. The students can discuss classical/folkdances that are performed in their respective groups. Details can be drawn based on the number of dancers, music (live or recorded) and costumes. The role of oral traditions and literature in indicating the importance of ethics in our everyday lives can be discussed.

Suggested Activities for Outreach: Social/Community Engagement and Service

In the weeks that follow, students will be expected to engage in outreach activities that shall enable them to put into practice some of the ethical considerations deliberated upon and imbibed in the previous modules. A list of suggested gugeach activities is as follows:

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- Adopt a village with the aim of cultural and ethical learning
- Discussing health and hygiene issues in a community
- Tutoring students Gender sensitization
- Working on environmental issues
- Working with Child Care Centre such as Anganwadis and Balwadis
- Working with differently abled students
- Preserving cultural and heritage sites
- · Spending time with senior citizen including a Senior Citizens Home
- Extending care to animals in animal welfare shelters
- Addressing issues relating to Reproductive Health
- Spreading awareness about adolescent health
- · Addressing issues relating to mental health
- Health and nutrition awareness
- Swacchata Abhiyaan
- Sensitisation towards disease awareness
- Vriksharopan

If required, students can share their experiences in the form of a Project Report

Any other Practical/Practice as decided from time to time Suggested Readings:

- Aristotle. Nichomachean Ethics. London: Penguin Classics, 2004
- Swami Vivekananda. The Complete Works of Swami Vivekananda. Advaita Ashrama, 2016.
 - ---https://www.ramakrishnavivekananda.info/vivekananda/complete_works.html
- Panch Parmeshwar in English translation as The Holy Panchayat by Munshi Premchand
- The Silas Marner by George Eliot
- We are Seven by Wordsworth
- The Chimney Sweeper by William Blake

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Coures Title - Ethics and Values in Ancient Indian Traditions

COURSE OBJECTIVES:

- To understand the rich cultural traditions relating to discourses on life and its purpose, instilling of values relating to ethical and moral propriety.
- To make students more engaged with the past traditions of the country.
- To introduce students to early epics: Puranic, Buddhist and other traditions.

LEARNING OUTCOMES:

- Students will develop an overview of indigenous philosophies.
- Understanding the richness of Indian heritage leading to greater sensitivity.
- Inspiration from history to deal with contemporary issues.
- Appreciate the traditions of diversity, discussions, debates and knowledge transmission.

Syllabus of Ethics and Values in Ancient Indian Traditions

Unit I The idea of India and Bharat

- 1. 'Jambudvipa'; 'Aryavrata'; 'Bharat'; India
- 2. Early discourse on moral order- rta in Vedic traditions
- 3. Debates in the Upanishads and the Shramanic traditions

Unit II State, Society and Dharma

- 1. Kingship and Society: Dharma, Neeti and Danda
- 2. Rashtra, Sanskar and making of socio-cultural milieu

Unit III The 'Purpose of Life' in Texts

- 1. 'Right Conduct': Buddhist, Jaina and Shramanic Traditions
- 2. Puruṣārtha Chatushtaya: Dharma, Artha, Kāma and Mokṣa
- Assimilation and Assertion: Ethical issues in Epics and Puranic traditions

Practical/ Practice Component

 Discuss in your locality, in 10-15 households with regard to Ethics and Values in Indian traditions;

> Vedic traditions Puruṣārtha Chatushtaya Buddhist, Jaina and Shramanic Traditions Jambudvipa; Aryavrata; Bharat; India

• Students are required to explore e-resources available with University of Delhi and other academic institutions.

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- Students are required to watch documentaries and films on the subject-related topics.
- If required, students can share their experiences in the form of a Project Report.
- Students may share their experiences in the form of audio-visual presentations of 15-30 minutes.
- Any other Practical/Practice as decided from time to time

Essential Readings

Buietenen, J.A.B. Van, *The Bhagwadgita in the Mahabharata: Text and Translation*. Chicago: Chicago University Press, 1981. Bhagwadgita by Geeta Press Gorakhpur.

Bhasham, A.L, Wonder that was India: A Survey of the Culture of the Indian Subcontinent Before the Coming of the Muslims. London, Sidgwick and Jackson, 1954

Dasgupta, S. N. History of Indian Philosophy. Cambridge University Press, 1923, Vol. I-II.

Hiltebeital, Alf. Rethinking the Mahabharata: A Reader's Guide to the Education of the Dharma King. Chicago: Chicago University Press, 2001.

Kane, P.V. History of Dharmashastra (Ancient and Medieval Religious and Civil Law), vol. II, parts 1-2; vol. III 3rd ed. Pune: Bhandarkar Oriental Research Institute, [1941, 1946].

Olivelle, Patric. King, Governance, and Law in Ancient India: Kautilya's Arthashastra. Oxford: Oxford University Press, 2013.

Sharma, Arvind. 'On Hindu, Hindustan, Hinduism and Hindutva'. Numen, 49(1), 2002, p. 1-36.

Suggested Readings

Olivelle, Patric. (text and trans.) Manu's Code of Law: A Critical Edition and Translation of the Manava-Dharmashastra. New Delhi: Oxford University Press, 2006.

Rocher, Ludo. 'The Concept of Boundaries in Classical India', in Peter Gaefkke and David A. Utz (eds.), The Countries of South Asia: Boundries, Extensions, and Interrelations

Philadelphia: University of Pennsylvania, Department of South Asia Regional Studies (Proceedings of The South Asia Seminar, III, 1982-1983), 1988, p. 3-10.

Sukthankar, V.S., S.K. Belvalkar, and P.L. Vaidya(ed.). *The Mahabharata*. Poona: Bhandarkar Oriental Research Institute, 1933-66.

Tripathi, Radhavallabh, ed. *India's Intellectual Traditions: A Revealed Through Sanskrit Sources*. New Delhi: Sahitya Akademi, 2016.

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Coruse Title - Financial Literacy

Course Objectives

- Familiarity with different aspects of financial literacy such as savings, investment, taxation, and insurance
- Understand the relevance and process of financial planning
- Promote financial well-being Learning Outcomes
- Develop proficiency for personal and family financial planning
- Apply the concept of investment planning
- · Ability to analyse banking and insurance products
- Personal tax planning

Syllabus of Financial Literacy

Unit I: Financial Planning and Financial products

- Introduction to Saving
- Time value of money
- · Management of spending and financial discipline

Unit II: Banking and Digital Payment

- Banking products and services
- Digitisation of financial transactions: Debit Cards (ATM Cards) and Credit Cards. Net banking and UPI, digital wallets
- Security and precautions against Ponzi schemes and online frauds

Unit III: Investment Planning and Management

- Investment opportunity and financial products
- Insurance Planning: Life and non-life including medical insurance schemes

Unit IV: Personal Tax

- Introduction to basic Tax Structure in India for personal taxation
- Aspects of Personal tax planning
- Exemptions and deductions for individuals
- e-filing

Practical/Practice Component

- Regular class activities to enhance students' understanding of topics and the application of concepto. The cope study method may be followed as a teaching pedagogy.
- Numerical questions pertaining to each unit wherever applicable should be practiced.
- For the second unit, students may be assigned a project wherein they can log on to the website of various banks and conduct an in-depth analysis and comparison of various financial products offered.
- For Unit III, a Project related to building a dummy portfolio of stocks and tracking their returns may be given.

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- An investment budget may be given to the students to select investment options that maximize the return and minimize the tax implications.
- For the last unit, students may also file a dummy IT return to get hands-on experience with e-filing.
- Students may conduct a financial literacy survey among at least 25 respondents to measure the level of financial literacy and share the findings in the awareness in the form of a report.
- Any other Practical/Practice as decided from time to time

References

- Introduction to Financial Planning (4th Edition 2017) Indian Institute of Banking & Finance.
- Sinha, Madhu. Financial Planning: A Ready Reckoner July 2017, McGraw Hill.

Additional Resources

- Halan, Monika. Lets Talk Money: You've Worked Hard for It, Now Make It Work for You July 2018 Harper Business.
- Pandit, Amar The Only Financial Planning Book that You Will Ever Need , Network
 18 Publications Ltd.

Course Title - Fit India

Course Objectives:

- Encourage physical activity through engaging the students in sports and yoga,
- Understand the importance of a balanced diet .
- Build skills for self-discipline, self-confidence, cooperation and teamwork.
- Promote fitness as a joyful activity.

Learning Outcomes:

- Adopting a healthy lifestyle.
- Knowledge of nutrition, diet and psycho-physiological aspects of fitness.
- Develop Self-esteem, Self-confidence, Self-discipline and team spirit as indicators of

fitness.

Syllabus of Fit India

Unit I: Participation in Physical Activity

- Fit India Protocol
- Physical Activity, Health and Fitness
- Indicators of Fitness

Practical/Practice

- Aerobic Work Out / Physical Activity (Walking)
- Yoga Asanas (Lying, Sitting and Standing positions) and Pranavama
- Cardiovascular Testing by 12min/9 min Cooper Run/Walk test

Unit II: Health Related Fitness and their Components

- Muscular Strength and Endurance
- Body Composition and Flexibility

Practical/Practice

- Flexibility Training: Back Saver Sit and Reach test
- Muscular Strength Training: Curl Ups / Standing Broad Jump/ Vertical Jump/ Plyometric
- Endurance Training: 1 Mile RockPort Testor 12/9 minute Cooper run/walk test.
- Ideal Body Weight, Body Mass Index (BMI), Waist-Hip Ratio, Waist-Height Ratio (Data of at least 10 persons to be collected)

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Unit III: Nutrition and Fitness

- Healthy Eating Plate
- Balanced Diet
- Caloric Content of Food

Practical/Practice

- Preparing Daily Diet and Calorie Chart
- Aerobic Work Out / Physical Activity (Walking)
- Assessment of Physical Activity with the Calorie intake.
- Asanas for :
 - digestive system
 - excretory system

Unit IV: Psycho-physiological aspects of Fitness

- Sports Physiology and Psychology
- Depression, Anxiety and Stress Scale (DASS)
- Rosenberg Self Esteem Scale

Practical/Practice

- Skills learning and Participation in sports
- Group Games / Relays/ Minor Games
- Meditative Asanas and Pranayama
- Fitness component testing (as per Fit India Protocol and Norms) and Analysis of Results
- Data of at least 10 persons to be collected on DASS and self-esteem scale

Note: Concepts are to be taken up during the practical/practice hours.

Essential Readings:

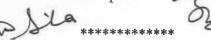
- Fit India Website: https://fitindia.gov.in
- Wener W.K. Hoeger, Sharon
- A. Hoeger Fitness and Wellness-Cengage Learning (2014).

SUGGESTED READINGS:

- Charles B. Corbin, Gregory J Wells, William R. Corbin, Karen A Wolls. Concepts of Fitness And Wellness_ A Comprehensive Lifestyle Approach-McGraw-Hill (2015)
- W.Larry Kenney, Jack H. Wilmore, Devid L.Costil(2015). Physiology of Sports and Exercise, Second Edition. USA. Human Kinetics.

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- Websites of International Sports Federations
- Website of Ministry of Youth Affairs and Sports



Course Title - GANDHI AND EDUCATION

Course Objectives

- 1. Seek inspiration from Gandhi's thoughts on education.
- 2. Analyse Gandhian education philosophy for moral and character development.
- 3. Understand Gandhi's Idea on Self-reliant education (Swavalambi Shiksha)
- 4. Relate Gandhi's educational thoughts to NEP 2020

Learning Outcomes

- 1. Value Gandhian perspective on education
- 2. Appreciate the significance of education in Indian languages
- 3. Evaluate the application of Gandhian thoughts in NEP 2020
- 4. Realise the principles of NEP 2020 in vocational and skill oriented education.

Unit I: Gandhi's Philosophy and education

- · Gandhi's Philosophy on education
- Education for character building and moral development
- · Education relating to health, hygiene, heritage, and handicraft

Unit II: Gandhi's Experiment in Education

- Gandhi's educational ideas on use of Indian Language as a medium of Instruction, TextBook and Teacher.
- Gandhi's educational thought on Elementary and Adult Education.
- Gandhi's vision on Higher Education

Unit III: Gandhi's Educational Thought on Skill and Vocational Education

- Rural development through Skill and Local Need Based education
- Skill education in NEP 2020 and Gandhi
- Gandhi's Idea on Self-reliance (Swavalambi Shiksha) and its reflection in contemporary educational policy.

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Practical/Practice Component

Regular visits to Gandhi Museum and library to gain insight on Gandhi

 Excursion to Gandhi Ashrams located in different places like Sewagram, Wardha, Sabarmati, Ahmedabad etc.

 Workshops/projects in collaboration with Gandhi Bhawan, Gandhi Smriti and Darshan, Gandhi Peace Center. Ashrams based on innovation in village & cottage industry, Khadi, handicrafts, organic farming etc.

Adoption of one place for Swachhta Mission or Skill Education

If required, students can share their experiences in the form of a Project Report.

Any other Practical/Practice as decided from time to time

ESSENTIAL READINGS

- महातमा गांधी. (2014). बिन् यादी शिक्षा. वाराणसी : सर्वसेवा संघ प्रकाशन.
- गांधी, मो. क. (2010). मेरेसपनों का भारत. अहमदाबाद : नवजीवन प्रकाशन मंदिर नवजीवन प्रकाशन मंदिर. (1960). शरीर-

श्रम. अहमदाबाद: मो. क. गांधी. pp- 196-231

- प्रभ, ुआर. के. व राव, य. ूआर. (1994). महात्मा गांधी के विचार. इंडिया: नेशनल बकु ट्रस्ट.
- Anand T. Hingorani, ed.] Gandhi, M.K. Our Language Problem (Bombay:
- Bharatiya Vidya Bhavan,), pp. 53-55
- TOWARDS NEW EDUCATION written by M. K. Gandhi Edited by Bharatan Kumarappa

SUGGESTED READINGS:

• गांधी, मोक्क (2012), स य के योग अथवा आ मकथा (वेद काशीनाथ,अनव ुादक) अहमदाबाद: नवजीवन काशन मं दर-

• गांधी, मो क. (2012). ह्दं वराज (नणावती, अमतलालः ठाकोरदास, अनवः ादक). अहमदाबादः नयजीवन काशन मं दर

Coomaraswamy, Anand K. (1910). Art and Swadeshi . Munshi Ram Manoharalal.
 Delhi

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Course Title - Panchakosha: Holistic Development of Personality

Course Objectives

- To introduce Five Koshas five levels of mind-body complex Annamaya, Pranayama, Manomaya, Vigyanamaya and Anandamaya Kosha; for a holistic development of personality.
- To generate awareness about physical and mental wellbeing through the Indian concept of *Panchkosha*.
- To develop a positive attitude towards self, family and society amongst students.
- To guide students build personalities based on the understanding of Panchkosha.

Learning Outcomes

- Enhanced physical and mental health.
- Coping with peer pressures and stress.
- Improved concentration leading to better overall performance.
- Manage life situations through a balanced and mature approach.

Syllabus of Panchkosha: Holistic Development of Personality

Unit I: Elements of Personality

- PanchaKosha: Introduction
- Five aspects of Human Personality: Annamaya Kosha (Physical body), Pranamaya Kosha (Vital life force energy), Manomaya Kosha (Psychological wellness), Vijnanamaya Kosha (Intellect), Anandamaya Kosha (Happiness and Blissfulness)
- Health: Mental and Physical

Unit II: Annamaya Kosha and Pranamaya Kosha

- Human Body and Pancha Karmendriyas
- Annamaya Kosha: Balanced diet and exercise for healthy body
- · Pranamaya Kosha: Development of life force, Pranayam
- · Charucharya: Social Etiquettes

Unit III: Manomaya Kosha and Vijnanamaya Kosha

- Antahkarana and its functions
- Pancha Gyanendriyas
- Manomaya Kosha: Controlling the Mana (mind)
- Vijnanamaya Kosha: Ability of discretion and decision making

Unit IV. Anundumaya Kosha and Beyond

- Anandamaya Kosha: Experience of happiness and bliss
- Self-realisation, Nature of Consciousness: Sat-Chit-Ananda

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Practical/ Practice Component

- Recitation of select verses from Taitiriyopansid
- Asana
- Pranayama
- Meditation
- Visit to a Yog shivir or meditation centres
- Students are required to watch documentaries and films on the subject-related topics.
- If required, students can share their experiences in the form of a Project Report.
- Any other Practical/Practice as decided from time to time

Essential Readings

- पंचकोश विवेक,स्वामी परमहंस योगनान्द, https://ndl.iitkgp.ac.in/पर उपलब्ध
- विवेक चड़ामू णि, आदि शंकराचार्यद्वारा लिखित, अरविन्द आनंद द्वारा अनदि त, चौखन्भा प्रकाशन, वाराणसी, 2015
- Vivek Chudamani, Adi Shankaracharya, Swami Turiyananda (Sanskrit and English), Sri Ramakrishna Math, Mylapore, 2019
- सभी के लिए योग,बी.के.एस. आयंगार, प्रभात प्रकाशन, 2018
- Yoga The Path to Holistic Health: The Definitive Step-by-step Guide, B.K.S. Iyengar, Dorling Kingsley, London, 2021
- The Sacred Science of Yoga & The Five Koshas, Christopher Sartain, CreateSpace Independent Pub, 2015 Suggested Readings
- PanchaKosha: The five sheaths of the human being, Swami Nishchalanand, Kindle edition.
 - Upanisadvakya Mahakosa. (An Upanishadic Concordance, taken from 239 Upanishads, G. S. Sadhale (Compiled by). Chowkhamba Vidyabhawan, Varanasi, 2014
 - The Pentagon of Creation: As Expounded in the Upanishads, Ajai Kumar Chhawchharia, CreateSpace Independent Pub, 2015

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Course Title - Social and Emotional Learning

Course Objectives

- This course aims to develop social and emotional awareness in students and initiate them towards better personal and social well-being.
- To create an awareness towards self, others, the environment and their harmonious coexistence.

Learning Outcomes

- Students will be able to become aware of oneself and the society.
- Make informed lifestyle choices and extend the self in the joy of giving.
- Develop empathy, compassion, connect with nature and evolve emotionally to create a more harmonious society.
- Cultivate sensitivity towards discriminatory practices and explore possible solutions.

Syllabus of Social and Emotional Learning

Unit I: Introduction | Self-Awareness and Happiness

- Getting to Know Each Other
- What to Expect from this Course?
- Getting to Know Oneself
- What Makes One Happy/ Unhappy? Outer vs Inner Sources of Happiness, Joy of Giving

Unit II: Social Relationships | Mindfulness

- Sharing vs Power: Peers, Family and Society
- Going Beyond Power Relationships Through Open Conversation
- The Value of Silence and Reflection
- Practice of Mindfulness

Unit III: Identity, Self-Image, Status, Self-Worth | Digital Identity

- Identity Construction and Expression: Individual and Collective
- Accepting and Valuing Oneself
- Understanding the Gendered World
- Identifying and transcending stereotypes
- Identity Formation and Validation in the Digital World
- Discrimination and its Forms

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Unit IV : Lifestyle Choices | Stress and Its Management

- What Choices Does One Get To Make?
- Is Choice influenced? Relationships, Career Choices
- Career Pressures, Examinations
- Dealing with Disappointment, Coping Skills, Health and Fitness
- Connect With Nature: Sensitivity Towards Other Sentient Beings

Practical/ Practice Component Unit 1

Getting to Know Each Other

In this lecture, the teacher will facilitate social engagement and personal reflection through a round of introductions. This also provides an opportunity for the teacher and students to recognise the deeper meanings that lie underneath routine exercises of introduction. For example, the adjectives that people use to describe themselves are indicative of the image that they wish others to hold of them. But do they hold the same image about themselves?

Teachers may begin the class by introducing themselves. Any introductory exercise that serves as an ice breaker and creates the classroom space as one of vibrant and open discussions, may be used. Teachers should try and ensure participation of all students in this exercise.

Activities

1. Who is in your circle?

Students may be asked to draw three concentric circles on their notebooks. The central circle is for the topic, the second for 'Love', and third for 'Like'. The space outside the circles is for 'Don't like'. The class decides on one topic, such as food, movies, web series, books, music, interests, etc. Each topic is taken up in turn and students are asked to write what they love, like, and don't like in the circles and share it with others. The exercise helps students to identify with their peers in commonalities and differences. The teacher may use prompts such as 'Why do you like this show?', 'Why do you dislike this food?' etc.

2. I am...

Students are asked to complete the sentences. The teacher may take turns and ask random students to answer it or the teacher may write these on the board and ask every student to write the answer in their notebooks. Some suggested prompt sentences are:

I am excited about......

I wish I could......

I am wondering.....

I am feeling anxious about

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Students can choose to share some of the answers with the class. The purpose of the exercise is to bring most students to speak in class and share their honest feelings and thoughts.

3. Introduce Yourself... Know Yourself

In this exercise, the teacher asks all students to take turns to introduce themselves. It is likely that most students will talk about their names, previous qualifications and hobbies. At the end of the introductions, the teacher can identify commonalities such as previous courses undertaken, regional identities, age, or similar common factors. The teacher may then use the following prompts to facilitate discussion:

Do these define you? Are you something more?

Would you like to change any of these qualifiers?

Is there something about you that you would like to share with us? Do you ever wonder about your identity/ identities?

What to Expect from this Course?

In this class, the focus is on understanding the relevance of the course and providing a course overview. Students will be able to explore the various dimensions of their lives and develop insights about themselves and their relationships. By discussing the outline of the course and the suggested activities, the teacher shall bring to the fore the exploratory journey that the students will embark upon. The students' questions relating to the course contents will also be addressed in this lecture.

Activities

In this class, the teacher may undertake an overview of the course, discussing each week's themes briefly. The nature of assignments and evaluation can also be detailed out. The teacher may hold a discussion with students on the following:

- 1. Why is social and emotional learning important?
- 2. What can the teacher do to make the classroom a more welcoming and open space for you?
- 3. What would be some of the activities that you would like to undertake during the course? Such as watching movies, reading books, maintaining a reflective journal, engagement in the field, mindfulness exercises, etc.

Self Awareness and Happiness

The aim of this module is to help students develop awareness about themselves – who they are, what their strengths and limitations are, and how they can develop themselves. This will help them to learn interlinkages and distinctions between thoughts, emotions and behaviours. This module will make them aware of the differences between happiness and pleasure and help them pender on sources of happiness.

Self Awareness

Self-awareness is the experience and understanding of one's own personality – how an individual understands his own feelings, motives, desires, and behaviour, and the triggers for the same. Hence, self-awareness can be considered to be vital for personal development.

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Students would thereby become more grounded and confident. This lesson will focus on the student's intrapersonal and interpersonal awareness through discussions and activities.

Activities

- 1. Students are asked to make a timeline of important events in their life and how each one affected them at that time. Do they see it differently today?
- 2. SWOT Analysis can be done by each student Strengths, Weaknesses, Opportunities and Threats.
- 3. How do they envision their ideal person What does your ideal person look like? What characteristics do they possess? Identify the gap. How do they plan to fill/reduce the gap?

Happiness

The term 'happiness' includes pleasant and positive emotions which can range from deep satisfaction and contentment to pleasure and excitement. The focus of this session would be to discuss techniques to develop the long-lasting feelings of contentment rather than momentary and short-lived emotions of excitement and pleasure. This will encourage and foster feelings of wellbeing and life satisfaction. The teacher will use activities in order to inculcate the ways of developing and sustaining happiness.

Activities

Writing a gratitude Journal - include in it what you are grateful for.

Mindfulness exercises and developing a mindful way of doing things.

"As one door closes, another door opens". A discussion based on the three opportunities that they think they lost and consider what it was they gained in the process.

Unit 2

Social Relationships

In this module, students will be asked to turn their gaze towards the society in which they are located and where they form social relations. They will be asked to introspect and understand the ways in which they connect with their immediate and extended social surroundings. In this context, peers and family exercise a significant influence on the identities of adolescents and young adults. The students will be asked to assess the nature of their relationship with friends and family and explore these negotiations in the context of sharing versus power. The teacher will help students broaden their understanding by extending the discussion to include other social relationships, beyond peers and family. They will be encouraged to think about how they are influenced and how they in turn influence the people around them. The class shall explore the importance of open conversation as a means to resolve conflicts and contradictions.

Sharing vs Power: Peers

Identity formation and development is significantly dependent on the peer group with which the individual interacts. During this class, the students may pose the following question to themselves and to each other- What is the nature of the relationships that they share with their peers? Adolescents and young adults like to conform to peer expectations. Students may

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explore whether relationships between peers are equal. What forces mediate these relationships? By posing examples from real life, the teacher will encourage the students to closely examine their relationships with their friends and family.

Activities

Ask the students to describe their close friends with fictitious names. They should then be asked why they are close to them and what is the one quality about their friends that they appreciate.

Divide students into groups of 5 each. This can vary depending on the class size. Each group can discuss how they were influenced by their friends in decision making processes.

The class/ group can share a story from their life about how they made a decision based on peer pressure. They should also share the result. Were they happy or unhappy about it? The findings can be discussed in the class.

Sharing vs Power: Family

The family is often considered to be a given and stable construct in which one is born or placed. As the relationships of adolescents with people outside the home grow, their interactions with their families evolve and take on a new and sometimes difficult character. Discussions and activities in the class should help the students objectively analyse their family space and the way in which they negotiate with it at different points of time. Through examples from day to day life, the teacher will help the students understand such spaces and the role they play.

Activities

Describe the ideal family. The students can think about the nature of the ideal created by them. What is the role played by siblings in your personal development?

Role play can be used to perform the different roles in a family so as to understand the different points of view within it.

Sharing vs Power: Society

The individuals generally extend the nature of their relationships with the family to the larger social world. In their pursuit to seek autonomy and independence, they may form new kinds of relationships in the larger social context. These relationships may be characterised by imbalances in power. This lecture will try to help the students strike a balance between self and society and stress the role of dialogue, sharing and cooperation.

Activities

The teacher can ask the students to describe any one constructive social role performed by them. (Any way in which they helped people around them). They can draw, speak, share a photograph or write a creative piece about it.

In the years to come what kind of role do you see yourself performing in society?

Share any one story about a person that has really influenced you? It can be about a public figure or anyone around you.

Going Beyond Power Through Open Conversation

In the previous lectures, the discussion has been around family, peer groups and society. In this session, the focus will be on the ways to build a more egalitarian society—one that is more collaborative, inclusive and takes into account different points of view. Open Conversation is suggested as a way by which acceptance, active listening and empathy can be

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Activities

The students can be asked to present a brief performance showing the way in which open conversation can help in conflict resolution.

Movies in line with classroom discussions held in the past few weeks can be shown to the students. Movie screening should be followed by a discussion.

A short story, poem or a play can be used to build on classroom discussions.

Mindfulness

This module focuses on the significance of silence, introspection and non-judgmental awareness of the present moment. These mental practices are for understanding and building humane connection with self and others. The students are sometimes unable to spare time for their inner growth. Mindfulness practices aim at self-awareness and self-acceptance for overall well being. Valuing and practicing silence helps in the process of deeper reflection and builds inner strength to face conflicts with calmness. It hones the ability to develop mental equanimity and equipoise.

The Value of Silence and Reflection

The students will learn to understand the value of silence in the noise around. The practice of silence helps in self-reflection and connecting the inner and outer worlds. It enables one to experience joy, contentment and peace. Silence is a way of understanding how to enjoy one's own company and not to confuse being alone with loneliness. The students will appreciate that silence and solitude are positive and constructive.

Activities

The students can be asked to maintain silence and watch the flow of thoughts and emotions. In the process of silence the students can identify what gives them happiness and what they can do to create happiness for others.

The students can visit natural spaces to understand how silence runs in the sounds of nature which can help them realise peace.

Practice of Mindfulness

Through this lesson, the students will understand the significance of mindfulness as a daily practice for understanding that happiness depends on the self-training of mind. The joy of living in the moment with full awareness and steadiness of mind are important for accepting and cherishing all experiences positively and non-judgmentally.

Suggested Activities

Mindful walk/trek in the garden/forest/mountains or at a monument. Mindful eating while onjoying all elements of tastes in different types of food can also be done.

The students can be engaged in groups for non-judgmental listening

The class can be divided to discuss what activities of the day they engage with full awareness and where the moments go unnoticed

Unit 3

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Identity, Self-image, Status, Self-worth

The module is designed to help the learners revisit the constructs of identity, self and personhood. It builds on questions such as 'who am I', 'how do others and I see myself', 'does status and self-image affect my sense of self-worth'. Specifically, it deals with how one's identity takes shape and thereon begins to be an integral part of oneself. It encourages the students to think about what factors influence their self-worth, such as achievements and accumulations, wealth, career or popularity. The students learn to accept and appreciate self and others.

Identity Construction and Expression: Individual and Collective

This lesson is aimed to help the learners deconstruct their sense of identity and rechart the signifiers/ markers and processes which have played a pivotal role in constructing their sense of identity and self. Itunfoldshowprocessesofsocialisationwithinfamily,school,community and society at large have played a role in making students who they are. How do these processes shape our notions of self-concept, self-evaluation, and self-esteem? The students will be able to become aware of their individual and collective sense of identity and self.

Activities

The teacher may ask the students to imagine one's identity in different contexts that are significant for identity construction. For instance, what does identity of being someone's 'child' entail; likewise what kind of an identity does one expect of oneself as a sibling, student and as a friend.

The teacher may ask the students to read from biographies/autobiographies of people from other cultures and discuss excerpts from the books. The teacher may elaborate the qualities of these people.

The teacher may organise a field visit with the students to different places. Ask the students to survey people from those locales about their experiences.

Accepting and Valuing Oneself

This lesson builds on the previous lesson by unpacking how concerns revolving around self-image and status may affect one's sense of self. It aims to make one aware why a challenge to one's identity may lead to discomfort and conflict. Students will be encouraged to accept their physical appearance and identity and to value self-worth. This lesson invites them to undertake an inward journey.

Activities

The teacher may ask students to respond to different characters in a movie where challenges to their identity lead to different kinds of responses.

What will change after 10 years in terms of your identity and what according to you will not change?

The teacher may ask the students to identify an 'open space' and 'sit alone' and write a reflective essay on the theme, 'remember what makes you, you'.

Gender Roles

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The objective of this module is to enable the students to differentiate between biological and psychological context of gender in order to understand how their gendered identities are socially constructed. Gender refers to the characteristics of men and women and includes norms, behaviour and roles associated with being man or woman, girl or boy. Further, this will enable the students to become aware that their destiny need not be determined by biology.

Understanding a Gendered World

The objective of this lecture is to enable the students to understand that gender roles are taught by the process of socialization, beginning with the family. Everyday things that we do like eating, speaking, walking, our gestures and even the professions that we think we choose are all often influenced by societal norms.

Activities

The teacher may ask the students to list things associated under the heading; men and women. Once listed, the headings can be interchanged and a discussion may follow.

Ask students to bring an artefact from home, it can be a childhood picture. On the basis of the picture students can share childhood experiences. Through the narrative of their oral history students can share experiences of how they acquired gender.

Identifying and Transcending Stereotypes

In the previous lecture, students have been made aware that gender stereotypes are socially constructed, that the ways in which we interact with others and with ourselves are shaped by gender. The objective of this lecture is to explain the importance of thinking beyond the stereotypes and to reinforce that biological differences between genders should not lead to social discrimination.

Activities

Movie viewing: Students and teachers can choose any movie for discussion. Quiz cards: On the cards the following can be written and the student can be asked to identify which is socially constructed and which refers to biology.

Men are Breadwinners, Women are homemakers.

Males have XY chromosomes, Females have XX chromosomes.

Women give birth to babies, men don't.

Boys don't cry

Digital Identity

It may be constricting to identify exclusively with ideas like region, ethnicity, language, gender, nationality. For, in this increasingly interconnected world, students find themselves at the intersection of many ideas - evolving and fixed, dominant and marginalised. This rainbow of ideas provides un opportunity to appreciate the diversity in the constitution of an individual's identity. But what happens when one is given a chance to construct a digital identity for oneself? Digital platforms and social networking sites arguably provide an individual the choice to portray oneself the way one likes. Do we choose to present our authentic selves or do we prefer to present highly curated versions of ourselves? Do social media posts reflect self-respect and self-love?

Identity Formation and Validation in the Digital World

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Through this session, students are expected to realise the ways in which they construct themselves digitally and how that construction is a manifestation of conformity, resistance and/or subversion, of the dominant ideologies. Students should be encouraged to reflect on what exactly they are seeking from engaging with social media. They need to think how the joy of sharing ideas may be different from the egoic need for compulsive validation.

Activities

Think of the digital filters that you use before sharing your photographs with others. Why do you think you need to do that?

We often feel happy about being validated in the form of 'likes' and positive comments on our social media posts. However, do you feel sad when that does not happen? What could be the possible reason for your mind to have this line of thought?

Digital Identities: Impact on the Self

The students will carry forward the learnings from the previous session and continue their inquiry in the realm of motivations for curating a digital self and its relation to self-esteern. They would be encouraged to engage in a non-judgemental conversation which would motivate them to inquire whether their digital activities are a result of anxiety which may be emanating from their self-image.

Activities

Do you think the use of digital filters is disrespectful to your self? Is not using them a source of anxiety for you? Can this have anything to do with your self-esteem?

Think of situations that make you feel sad on social media. Note them down. Do you think not exposing yourself to such a situation is a solution or do you think you also need to locate the issue within yourself?

Try spending a day without doing any activity on social media like posting anything or surfing other people's accounts for their activities. At the end of the day observe how you feel.

Unit IV

Lifestyle Choices

How we choose to live and behave influences our social and emotional wellbeing. In this module we analyse our lifestyle choices relating to material and cultural consumption, relationships and career. Students will be encouraged to inquire whether our everyday choices are based on a culture of passive consumption and conformism. We will seek to explore possibilities of alternative forms of living premised on ethical consumption, altruism, simple and sustainable living.

What Choices Does One Get to Make?

In this session, the attempt will be to explore the extent to which consumerism impacts our lifestyle choices and the repercussions of these on our natural and social environment. Today we live in an era of mass consumption and consumer culture fostered by advanced technologies and global production systems. Overt materialism, wasteful and conspicuous

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consumption unmindful of the larger implications are key aspects of this phenomenon. In this lecture, we explore our lifestyle choices such as our physical image, attire, dietary choices. desire for dream homes and destination weddings. This would be the starting point for a re-imagination of a world based upon choices that would lead to simple and sustainable living.

Suggested Activities

Students may be asked to work through their consumption history right from their childhood. A discussion may then be initiated by asking the students to reflect on their consumption choices and their motives behind the same.

The teacher may identify a few products like tea, coffee, coca-cola, jeans etc and ask the students to trace product histories and geographies.

The students may be asked to discuss a strong desire to possess an object and then deconstruct that desire. Discussion may emphasise upon why they wanted it?

Is Choice Influenced? Relationships, Career Choices

In this lecture, we examine the extent to which lifestyle choices, regarding relationships and career, get influenced and by what factors. Do we really have a choice as regards the career that we intend to pursue? Often factors like family, gender, the need for security and stability influence our choices. Recognizing and mapping the space of freedom and unfreedom with respect to our choices is a necessary life skill that would enable a more self-aware and harmonious living.

Activities

Reflect on an instance where you may have inflicted pain on someone and also think of a moment when you felt someone was insensitive in their conduct of a relationship.

The teacher may divide the class into small groups and hold a discussion on what constitutes a successful career.

Reflect on the various career options available in your society and discuss what you would prefer to pursue and why?

Discrimination

The module is designed to help the learners understand the origin and nature of discrimination and the effects thereof. Discrimination can be on various grounds such as ethnicity, religion, caste, race, gender, disability, or place of birth. One's discriminatory actions can lead to social fragmentation. The module encourages the learners to introspect their actions and seeks to celebrate diversity.

Why and How? Forms of Discrimination

The objective of this lesson is to make learners aware of different forms of discrimination. On the one hand, an individual can be a victim of discrimination, and on the other, the same person

may harbour prejudice or discriminate against others. It is pertinent to understand our own Page **45** of **62** biases and introspect our actions.

Activities

The teacher can ask students to count their friends who belong to different backgrounds. They can reflect on what they have learned by interacting with these friends.

Ask students to learn about their neighbourhood and document what groups live there, what has been the nature of their relationships.

An exercise on privilege using nothing but wadded up papers and a trash can. Students Learn A Powerful Lesson About Privilege. https://youtu.be/2KlmvmuxzYE

Stress and Its Management

This module is designed to give students an opportunity to articulate the pressures and challenges that one experiences in life. It gives students a chance to spell out how pressure to perform well can become a source of stress. The module is aimed to equip the learners with ways of dealing with disappointments with regard to the choice of career path and with performance related stress. It brings to fore skills of coping with stress and disappointments. It also highlights the role of physical well-being in keeping oneself mentally healthy.

Career Pressures, Examinations

This lesson is designed to help students have a relook at the challenges and pressures they have recently faced or are facing on account of career choices and examinations. It gives them a space to articulate what they might have faced while making these choices. This lesson also gives them an opportunity to highlight the uncertainties and challenges they foresee in their future lives.

Activities

The teacher may ask the students to organise themselves in groups of 4-6. Each of the groups have to do a role-play around the themes on career pressures.

Show images of different people and ask the students to quickly jot down impressions. The collective answers serve as a springboard for discussions. Students may learn about their own

biases through this activity.

The teacher may ask the students to identify movies where struggles related to career and performance pressure stand out.

The teacher may ask the students to share their experiences about the following:

- First few months into an academic programmes
- 2 months before examinations
- On the day of examination
- 15 days after examinations get over

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Dealing with Disappointments, Coping Skills, Health and Fitness

This session aims to equip the learners with coping skills to manage stress and deal with disappointments. Furthermore, it makes them aware of the importance of health and fitness for maintaining mental health.

Activities

The teacher can ask the students to write how they come to know they are stressed and what they do when they are stressed? The teacher may engage them in a discussion on coping skills and channelize students' energies into positive ways of resolutions of conflict and stress.

The teacher may ask the students to discuss the lives of high achievers and low achievers and how performance pressures drive their lives. Can they draw similarities and differences in the sources of stresses and how they deal with these stresses?

Ask each of the students to share their daily regime to keep themselves physically fit. The students may also share how each one mentally 'feels/experiences' when one is engaged in physical exercises.

Connect with Nature

This module is designed to strengthen bonds with nature while understanding its intrinsic value as opposed to its instrumental value. Issues of global warming and environmental degradation are the consequences of a disconnect between humans and nature. The aim is to cultivate environmental awareness through virtues of altruistic responsibility, empathy, cohesiveness, and mutual sustainability between nature, flora-fauna, animals and humans. The students may be engaged in activities to build bridges between the inner environment (one's self) and external environment (nature). In this way, they can celebrate oneness with nature and perceive nature not as a means but an end in itself.

Sensitivity Towards Other Sentient Beings

The students, in this session, would participate in group based environmental activities as a way of building social responsibility towards all sentient beings. Any action against even a part of nature impacts the whole. Thus, it is the responsibility of all, to create a safe environment for all sentient beings to live in harmony.

Activities

Students can be encouraged for Nature walks, nature drives, treks and hikes, nature photography, adopting natural spaces in local areas, plantation drives, visiting biodiversity parks, adopting spaces for greening etc.

Visite to animal shelters can be organised to sensities the students.

Films can be screened on environmental sustainability, environmental consciousness etc

Any other Practical/Practice as decided from time to time

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Suggested Readings

Black, Donna Lord (2022). Essentials of Social and Emotional Learning (SEL). NJ:
 Wiley.

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- Goleman, Damiel (2005). Emotional Intelligence. USA: Bantam.
- Swami Vivekanand. (2016). The complete works of Swami Vivekanand. Advaita
 <u>Ashrama.(https://www.ramakrishnavivekanand.info/vivekanand/complete</u>
 works.html)

Course Title - Sports for Life

Course Objectives

- To imbibe the significance of sports to promote health, fitness and wellness in life.
- To understand the values of teamwork, tolerance, goal-setting and decision making.
- To learn the strategies and tactical moves while playing a sport.
- To understand the importance of physical activity in reference to 3S: strength, speed and suppleness.

Learning Outcomes

- Acquire values of cooperation, team spirit, determination, and endurance.
- Acquire good health and psychological well-being through sports participation.
- Apply the decision making-ability and goal-setting skills acquired through sports participation in everyday life.
- Acquire skills for engaging in moderate or vigorous physical activity and sports participation.
- Reduce exposure to screen time on electronic gadgets and channelising energy through sports participation.

Syllabus of Sports for Life

Unit I: Rules and Techniques

Concept

- Rules of the Sport
- Techniques / skills in the sport/ Aerobic Skills

Practical

- Marking of the court / field
- Outdoor Adventure Activity
- Skills learning in sports
- Group Games / Relays
- Participation in Intramural competitions

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Unit II: Components of Fitness

Concepts

Meaning and Development of Strength, Speed,
 Endurance, Flexibility and Coordinative Abilities.

Practical

- Skills learning and Participation in sports
- Group Games / Relays / Minor games
- Participation in Intramural competitions

Unit III: Benefits of sports and physical activity

Concepts

- Effect of exercise on the body
- Organizing of a sports competition
- Balanced Diet

Practical

- Skills learning and participation in sports
- Group Games, / Relays /Step Aerobics
- Participation in Intramural competitions

Unit IV: Sports in Contemporary Times

Concepts

Honours and Awards associated with sports and sportspersons

Practical

- Skills learning and Participation in sports
- Participation in Intramural competitions

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Note

- The concepts are to be dealt with during the practical/practice classes.
- The list of suggestive sports: Aerobics and Physical Activity, Athletics, Archery, Badminton, Basketball, Boxing, Chess, Carrom, Cricket, Football, Handball, Hockey, Kabaddi, Kho-Kho, Swimming, Shooting, Squash, Table-Tennis, Tennis, Taekwando, Volleyball, Wushu, Wrestling etc.

Suggested Readings

- James R Morrow Jr., Dale P. Mood, James G. Disch, Minsoo Kang Measurement and Evaluation in Human Performance-Human Kinetics Publishers (2015)
- W.Larry Kenney, Jack H. Wilmore, Devid L.Costil.(2015). Physiology of Sports and Exercise, Second Edition. USA. Human Kinetics.
- Wener W.K. Hoeger, Sharon A. Hoeger Fitness and Wellness-Cengage Learning (2014).
- Kansal DK (2012). A practical approach to Measurement Evaluation in Physical Education & Sports selection. Sports & Spiritual Science Publications, New Delhi.
- Websites of International Sports Federations, Ministry of Youth Affairs and Sports Govt.
 Of India.

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Coruse Title - Swachh Bharat

COURSE OBJECTIVES:

- To understand the developmental challenges with reference to sanitation infrastructure and practices.
- To build values of cleanliness, hygiene and waste management in diverse socio-economic contexts.
- To understand planning of social policy and programmes.
- To use waste management techniques at community level.
- To instill a sense of service towards society and the Nation. LEARNING OUTCOMES:
- Understanding the significance of the Swachh Bharat Abhiyan.
- Ability to analyse and predict the sanitation challenges of India
- Determine the link between sanitation and development.
- Contribute to the Swachh Bharat Abhiyan through real time projects/fieldwork

Syllabus of Swachh Bharat

Unit I: Introduction to Swachh Bharat Abhiyan

- Gandhian philosophy of Cleanliness
- Swachh Bharat Abhiyan (SBA)
- Hygiene, Sanitation & Sustainable Waste Management
- Agencies and nodal Ministries for SBA
- Different phases of the SBA and its evaluation
- Citizens' Responsibilities: Role of Swacchagrahi

Unit II: Swachh Bharat: Rural and Urban Facets

- Indicators for Swachh Bharat
- Rural
 - Sanitation coverage across households (2014 vs. 2022)
 - Open Defecation Free (ODF) Villages: Parameters
 - ODF plus model: Key indicators
- Urban
 - Sustainable sanitation
 - Waste/water and solid waste management
 - Garbage Free Cities

Unit III: Prospects and Challenges

- · Attitudes and Perceptions
- Operational and Financial issues
- Monitoring & Supervision
- Community Mobilization

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Practical/ Practice Component

Suggested Activities: List of activities to be undertaken:

- Identify plastic and e-waste in and around the institution and suggest innovative technologies to minimize wastage.
- Identify events/fests that generate maximum waste and ways to minimize it.
- Visit canteen/shops and track the lifecycle of wet/dry waste in and around the institution and document the findings in the form of a Project Report.
- · Conduct interviews of stakeholders to understand the level of awareness.
- · Conduct a Clean Audit of the Institution and identify areas for action.
- · Conduct cleanliness drives.
- · Organise Swachhata Pakhwada meetings, rallies, and mobilization camps within the identified
- communities.
- Students may participate in the Swachh Bharat Internship programme.
- If required, students can share their experiences in the form of a Project Report.
- · Any other Practical/Practice as decided from time to time

Essential Readings

- "Swachh Bharat Mission Gramin, Department of Drinking Water and Sanitation, Ministry of Jal Shakti"
- India 2021, Ministry of Information & Broadcasting
- http://swachhbharatmission.gov.in/SBMCMS/swachhta-pakhwada.htm
- https://swachhbharatmission.gov.in/SBMCMS/about-us.htm
- https://www.communityledtotalsanitation.org/sites/communityledtotalsanitation.org/files/ODF
 https://www.communityledtotalsanitation.org/sites/communityledtotalsanitation.org/files/ODF
 <a href="https://www.communityledtotalsanitation.org/sites/communityledtotalsanitation.org/
- https://sbm.gov.in/phase2dashboard/PhaseII/NationDashboard.aspx
- https://www.niti.gov.in/sites/default/files/2019-08/Report%20of%20Sub-Group%20of%20Ch

ief%20Ministers%20on%20Swachh%20%20Bharat%20Anhiyaan.pdf

Suggested Readings

- https://swachhbharatmission.gov.in/SBMCMS/writereaddata/Portal/Images/pdf/brochure/Greywatermanagement.pdf
- https://swachhbharatmission.gov.in/SBMCMS/writereaddata/Portal/Images/pdf/brochure/PWMB5 28th June.pdf
- Gol (2020). Swachh Bharat Mission (Grameen) Phase 2: Operational guidelines, Department of Drinking Water and Sanitation, Ministry of Jalshakti.
- MoHUA (2017). <u>Guidelines for Swachh Bharat Mission Urban</u> (PDF). Ministry of Housing and Urban Affairs, Government of India.

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Course Title - Vedic Mathematics

Course Objectives:

- Foster love for maths and remove its fear through Vedic Mathematics
- Enhance computation skills in students through Vedic Mathematics
- Develop logical and analytical thinking
- Promote joyful learning of mathematics
- Discuss the rich heritage of mathematical temper of Ancient India

Learning Outcomes:

- Overcome the fear of maths
- Improved critical thinking
- Familiarity with the mathematical underpinnings and techniques
- Ability to do basic maths faster and with ease.
- Appreciate the Mathematical advancements of Ancient India.

Syllabus of Vedic Mathematics

Unit I: Vedic Maths- High Speed Addition and Subtraction

- Vedic Maths: History of Vedic Maths and its Features
- Vedic Maths formulae: Sutras and Upsutras
- · Addition in Vedic Maths: Without carrying, Dot Method
- Subtraction in Vedic Maths: Nikhilam Navatashcaramam Dashatah (All from 9 last from 10)
- Fraction –Addition and Subtraction

Unit II: Vedic Math - Miracle Multiplication and Excellent Division

- Multiplication in Vedic Maths: Base Method (any two numbers upto three digits)
- Multiplication by Urdhva Tiryak Sutra
- Miracle multiplication: Any three-digit number by series of 1's and 9's
- Division by Urdhva Tiryak Sutra (Vinculum method)

Unit III: Vedic Maths-Lightening Squares and Rapid Cubes

- Squares of any two-digit numbers: Base method
- Square of numbers ending in 5: Ekadhikena Purvena Sutra
- Easy square roots: Dwandwa Yoga (duplex) Sutra
- Square root of 2: Baudhayana Shulbasutra
- Cubing: Yavadunam Sutra

Unit IV. Vedic Maths-Enlighten Algebra and Geometry

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- Factoring Quadratic equation: Anurupyena, Advamadyenantyamantya Sutra
- Concept of Baudhayana (Pythagoras) Theorem
- Circling a square: Baudhayana Shulbasutra
- Concept of pi: Baudhayana Shulbasutra
- Concept angle (θ) 0, 30, 45, 60 and 90: Baudhayana number

Note: Some of the theoretical concepts would be dealt with during practice hours.

Practical/ Practice Component

he students are expected to demonstrate the application of Vedic Maths: Sutra and Upsutra

- Conduct workshops under the supervision of the course teacher to spread awareness on the utility of Vedic Mathematics.
- Students are required to visit nearby retail shops/local vendors to purchase stationery/vegetables/bread and butter and use tricks of Vedic maths of addition and subtraction to calculate the amount to pay and receive the difference.
- Students may share their experience with the class teacher in the form of audio-video presentations of 15 minutes.
- If required, students can share their experiences in the form of a Project Report.
- Any other Practical/Practice as decided from time to time

Essential Readings

- The Essential of Vedic Mathematics, Rajesh Kumar Thakur, Rupa Publications, New Delhi 2019.
- Vedic Mathematics Made Easy, Dahaval Bathia, Jaico Publishing, New Delhi 2011
- Vedic Mathematics: Sixteen Simple Mathematical formulae from the Vedas, Jagadguru Swami Sri Bharati Krishna Trithaji, Motilal Banarasidas, New Delhi 2015.
- Learn Vedic Speed Mathematics Systematically, Chaitnaya A. Patil 2018.

Suggested Readings

- A Modern Introduction to Ancient Indian Mathematics, T S Bhanumurthy, Wiley Eastern Limited, New Delhi
- Enjoy Vedic Mathematics, S M Chauthaiwale, R Kollaru, The Art of Living, Bangalore
- Magical World of Mathematics, VG Unkalkar, Vandana publishers, Bangalore

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Course Title - Yoga: Philosophy and Practice

Course Objectives

- To learn the fundamentals of Yoga for harmonising the body, mind and emotions.
- To demonstrate the value and the practice of holistic living.
- To value the heritage of Yoga for self and society.

Learning Outcomes

- Understanding ways to harmonise the body and mind through Yoga.
- Disciplining the mind through practicing Yoga.
- Understanding of consciousness through practical training.

Syllabus of Yoga: Philosophy and Practice

Unit I: Yoga: Asana, Prāṇāyāma and Dhyana

- History of Yoga
- Significance of Asana
- Effect of Pranayama
- Importance of Dhyana

Unit II: Patanjali's Yogasūtra and Chakra

- Patanjali's Yogasūtra: a summary
- First sutra
- Second sutra
- Chakras (psychic centres)

Unit III: Understanding Asana and Pranayama

- Asana: the basics
- SuryaNamaskara
- Nadishodhana Pranayama

Practical/ Practice Component

- Surya Namaskar
- Selected Asana
- Praṇayama
- Relaxation exercises for the eyes (7 steps) neck (4 steps)
- Concentration on Bhrumadhya

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- Project Work (effect of everyday concentration on breath for 15 minutes: reflections to be compiled in the form of a Project report.
- Any other Practical/Practice as decided from time to time

Essential Readings

- Āsanas, Prāṇāyāmaand Mudra Bandh, Swami SatyanandaSaraswati, Yoga Publications Trust, Munger, Bihar, India, 2004.
- Patanjali Yogasutras, Commentary by Swami Vivekanand, Rajyoga

Suggested Readings

- PatanjalYog Pradeep- Swami OmanandSaraswati, Gita Press, Gorakhpur, 2013.
- Science of Pranayama-Swami Sivananda, Edition by David De Angellis, 2019, All Rights Reserved.
- Udayveer Shastri Granthavali,4, Patanjal- Yoga Darshanam, Udayavir Shastri, Govindram Hasanand, Delhi 6.

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Course Title - भारतीय भक्ति परंपरा और मानव मूल्य

COURSE OBJECTIVES

- भारतीय भक्ति की महान परंपरा, प्राचीनता और इसके अखिल भारतीय स्वरूप सेछात्रों का परिचय कराना
- भारतीय भक्ति परंपरा के माध्यम सेछात्रों मेंमानव मूल्यों और गुणों को जगाकर उनका चारित्रिक विकास करना और एक अच्छे मनुष्य का निर्माण करना ।
- छात्रों को भारतीय नैतिक, सांस्कृतिक और सामाजिक मल्ूयों के प्रति जागरूक करना ।
- भारतीय भक्ति परंपरा के माध्यम सेराष्ट्रीयता और अखिल भारतीयता की भावना जागतृ करना।

LEARNING OUTCOMES

- भारतीय भिक्त परंपरा के माध्यम सेछात्रों मेंमानव मल्ूयों और गुणों को विकास होगा और वेएक अच्छेऔर चरित्रवान मनष्ुय बन सकेंगे।
- भारतीय भक्ति परंपरा के सांस्कृतिक और सामाजिक पक्षों की जानकारी हो सकेगी।
- भक्ति की प्राचीनता और अखिल भारतीय स्वरूप की जानकारी सेराष्ट्रीयता और अखिल भारतीयता की भावना जागतृ और मजबत् होगी।
- प्रमखु भक्त कवियों का परिचय और उनके विचारों की जानकारी हो सकेगी।

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भक्तिः अर्थऔर अवधारणा भक्ति के विभिन्न संप्रदाय और सिद्धांत भारत की सांस्कृतिक एकता और भक्ति भक्ति का अखिल भारतीय स्वरूप

Unit li: भारत के कुछ प्रमखु भक्त और उनके विचार

संत तिरुवल्लवर ु , आण्डाल, अक्कमहादेवी, लल<mark>यद , मीराबाई, तलसीदास ु , कवीरदास, रैदास, गरुु नानक, सरदास ू</mark> , जायसी, तकाराम ु , नामदेव, नरसिंह मेहता, वेमना, कं चन ु , नम्बियार, चैतन्य महाप्रभ, ुचंडीदास, सारला दास, शंकरदेव

Unit III: मानव मल््य और भक

मानव मल््य का अर्थ चयनित भक्त कवियों की जीवन मल््यपरक कविताएँ

Practical/Practice Component

- पाठ्यक्रम मेंऽल्लिखित कवियों मेंसेकिसी एक कवि की रचनाओंमेंविभिन्न मानव मल्ूयों केआधार पर प्रोजेक्ट
- वर्तमान समय मेंभिक्ति की प्रासंगिकता को समझना; सर्वे और साक्षात्कार पद्धित केआधार पर.
- जीवन मेंमानव मल््यों के प्रतिपालन पर सर्वे और साक्षात्कार केआधार पर एक रिपोर्टबनाना.
- उल्लिखित कवियों मेंसेकिसी एक किय सेसंबंधित किसी मठ, आश्रम या मंदिर आदि, अथवा कोई फिल्म/ डॉक्यमु ेंट्री केआधार पर रिपोर्टबनाना.
- आवश्यक हो, तो छात्र प्रोजेक्ट रिपोर्ट के रूप में अपने अनभव साझा कर ु ें
- Any other Practical/Practice as decided from time to time

Essential Readings

- 'भक्ति का उद्भव और विकास तथा वैष्णव भक्ति के विविध रूप', भारतीय साहित्य का समेकित इतिहास, संपादक- डॉ नगेंद्र, हिंदी माध्यम कार्यान्वयन निदेशालय, दिल्ली विश्वविद्यालय, दिल्ली, पष्ठ संख्या 215-250
- कुछ प्रमखु कवियों के चयनित पद
- 'भक्ति ओदोलन और भक्ति काय्य', शिच कुमार मिश्र, अभिय्यक्ति प्रकाशन, इलाहाबाद, 1994
- 'मानव मल््य और साहित्य', डॉ धर्मवीर भारती, भारतीय जानपीठ, नई दिल्ली,1999 Suggested Readings:
- 'भिक्त केआयाम', डॉ. पी. जयरामन, वाणी प्रकाशन, नई दिल्ली
- 'हिंदी साहित्य का इतिहास', आचार्यरामचंद्र शक्ु ल, लोक भारती प्रकाशन, इलाहाबाद

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- 'मध्यकालीन हिंदी काव्य का स्त्री पक्ष', डॉ. पनमू कुमारी, अनामिका पब्लिशर्सएंड डिस्ट्रीब्यटुर्स, नई दिल्ली
- 'मध्यकालीन हिंदी भक्ति काव्यः पनु र्मूल्मूयांकन केआयाम', डॉ. पनम् कुमारी, अनामिका पब्लिशर्सएंड डिस्ट्रीब्यटुर्स , नई दिल्ली

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Course Title - सृजनात्मक लेखन के आयाम

पाठ्यक्रम का उद्देश्य (Course Objectives):

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- 1. सृजनात्मक और भाषायी कौशल का संक्षिप्त परिचय कराना
- 2. विचारों का प्रभावी प्रस्तितु करण करना
- 3. सृजनात्मक चिंतन और लेखन क्षमता को विकसित करना
- 4. मीडिया लेखन की समझ विकसित करना पाठ्यक्रम अध्ययन के परिणाम (Learning Outcomes):
 - 1. सृजनात्मक चिंतन और लेखन क्षमता का विकास हो सके गा
 - 2. लेखन और मौखिक अभिव्यक्ति की प्रभावी क्षमता विकसित हो सके गी
 - 3. मीडिया लेखन की समझ विकसित होगी
 - 4. विद्यार्थी में अपने परिवेश, समाज तथा राष्ट्र के प्रति संवेदनशीलता का विकास होगा

Syllabus: स्जनात्मक लेखन के आयाम

इकाई - 1 (Unit I): सजनात्मक लेखन

- सृजनात्मक लेखनः अर्थ, स्वरूप और बोध
- सजनात्मक लेखन और परिवेश
- सृजनात्मक लेखन और व्यक्तित्व निर्माण

इकाई – 2 (Unit II): सृजनात्मक लेखन : भाषिक संदर्भ

- भाव और विचार का भाषा में रूपान्तरण
- साहित्यिक भाषा की विभिन्न छितयाँ
- पिंट तथा इलेक्ट्रोनिक माध्यमों की भाषा का अंतर

इकाई 3 (Unit III): सृजनात्मक लेखन - विविध आयाम

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- हास्य ट्यंग्य लेखन,
- पल्लवन, संक्षेपण, अनूच्छेद

Practical/ Practice Component

- कक्षा में प्रत्येक विद्यार्थी द्वारा 'मेरी पहली रचना' शीर्षक से किसी भी विधा में लेखन
- किसी भी साहित्यिक रचना का भाषा की दृष्टि से विश्लेषण
- इकाई- 3 में उल्लिखित विधाओं में विद्यार्थियों द्वारा लेखन एवं सामिह् क चर्चा
- प्रत्येक इकाई से संबन्धित परियोजना कार्यः o समसामयिक विषयों पर किसी भी विधा में लेखन ~ बदलते जीवन मल््य, महामारी, राष्ट्र निर्माण में छात्र की भिमू का, यवाओं के क ु र्तव्य, पर्यावरण संरक्षण, लोकतन्त्र में मीडिया की भिमू का, ऑनलाइन शॉपिंग अथवा अन्य समसामयिक विषय o किसी उत्सव, मेला, प्रदर्शनी, संग्रहालय और किसी दर्शनीय स्थल का भ्रमण तथा उस पर परियोजना कार्य
- प्रिंट माध्यम के खेल, राजनीति, आर्थिक और फिल्म जगत आदि से जड़ी साम ु ग्री का भाषा की दृष्टि से विवेचन
- इलेक्ट्रोनिक माध्यम के समाचार, धारावाहिक, विज्ञापन आदि का भाषा की दृष्टि से विवेचन
- आवश्यक हो, तो छात्र प्रोजेक्ट रिपोर्ट के रूप में अपने अनभव साझा कर ु ें
- Any other Practical/Practice as decided from time to time अनिवार्य पाठ (ESSENTIAL READINGS)

लेखन एक प्रयास, हरीश चन्द्र काण्डपाल

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Proposed Course Structure for 4 Year Undergraduate Programme under CBCS System Ability Enhancement Courses (AEC)

Semester - I (AEC-1)

Science	Social Science/Arts	Commerce
MIL	• MIL	• MIL

Semester – II (AEC-2)

Science	Social	Commerce
 Environmental Science 	Environmental Science	Environmental Science

Semester – III (AEC- 3)

Science	Social	Commerce
 Course on Disaster Risk Management 	Course on Disaster Risk Management	Course on Disaster Risk Management

Semester – IV (AEC- 4)

Science	Social Science/Arts	Commerce
Course on NCC/NSS/NGO's/Social Service/Scout & Guide/Sports	 Course on NCC/NSS/NGO's/Social Service/Scout & Guide/Sports 	Course on NCC/NSS/NGO's/ Social Service/Scout & Guide/Sports

List of Ability Enhancement Course (AEC)

SL.	Course Title	LTP Distribution of the Course		Total Credits:	Total Marks =	
		L	Т	P		
1	MIL (Semester – I)	2	1	0	2	End -Tern
2	Environmental Science (Semester - II)	2	1	0	2	
3	Course on Disaster Risk Management (Semester – III)	2	1	0	2	70 Marks
4	Course on NCC/NSS/NGO's/Social Service/Scout & Guide/Sports (Semester – IV)	2	1	0	2	Internal Assessment 30 Marks

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Proposed Course Structure for 4 Year Undergraduate Programme under CBCS System

Ability Enhancement Course (AEC)

Semester – I (AEC-1)

Social Science/Arts	Commerce
• MIL	• MIL

ENGLISH COMMUNICATION

Course Learning Objectives:

The purpose of this course is to introduce students to the theory, fundamentals and tools of communication and to develop in them vital communication skills which should be integral to personal, social and professional interactions. The present course hopes to address some of the aspects of effective communication skills through an interactive mode of teaching-learning process. The various dimensions of communication skills that will be focused in the course include language of communication, speaking skills such as personal communication, social interactions and communication in professional situations such as interviews, group discussions and office environments, important reading skills as well as writing skills such as report writing, note taking etc.

Syllabus:

1. Introduction:

- Theory of Communication
- Types and modes of Communication
- Effective Communication/ Mis- Communication
- Barriers and Strategies

2. Language of Communication:

- Verbal and Non-verbal (Spoken and Written)
- Personal, Social and Business
- Intra-personal, Inter-personal and Group communication

3. Speaking Skills

- Dialogue
- Group Discussion
- Interview
- Public Speech
- Role Play/Extempore Presentations

- Sully

- 4. Reading and Understanding
 - Close Reading
 - Comprehension, Analysis and Interpretation
- Summary Paraphrasing Translation (from Indian language to English and vice-versa) Literary/Knowledge Texts
 - 5. Writing Skills
 - Making notes
 - Documenting
 - Report Writing
 - Writing Letters job applications, CV and Resume
 - Academic Writing
 - Writing a Proposal

Readings:

- 1. Fluency in English Part II, Oxford University Press, 2006.
- Business English, Pearson, 2008.
- 3. Language, Literature and Creativity, Orient Blackswan, 2013.
- 4. 4. Language through Literature (forthcoming) ed. Dr. Gauri Mishra, Dr Ranjana Kaul, Dr Brati Biswas

REMEDIAL ENGLISH

Learning Objectives:

English language skills - reading, writing, speaking and listening - are fundamental in constructing knowledge in all academic disciplines, succeeding in the world of work, and making sense of everyday life. The standards and benchmarks enlisted in this syllabus can help students adapt to the continually changing world of communication and develop a global outlook.

Through this course the students will be able to acquire the following set of literacy standards/ skills and implement them as working strategies: I. Will engage in and gain basic proficiency in reading and comprehension 2. Will speak to a) inform b) describe c) explain d) persuade. The style and vocabulary will be at the beginners' level. 3. Make use of the grammar, syntax and tone of speech at the preliminary level. 4. Will read a variety of materials to facilitate comprehension. 5. Will understand the elements of grammar and its functions in a text. 6. Employ reading strategies such as scanning, selecting and summarising at the preliminary level. 7. Learn types of sentences statement, question, exclamation, affirmative and negative. 8. Will gain and demonstrate basic competence in speaking, reading and writing.

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Syllabus:

READING

- 1. Simple comprehension texts of description, narration, information, explanation and persuasion based on higher order thinking skills.
- 2. Contextualised grammar focus.
- 3. Vocabulary basic synonyms and antonyms.

GRAMMAR

- 1. Parts of speech
- 2. Transformation of parts of speech
- 3. Nouns gender and number; Countable and uncountable nouns
- 4. Verbs and tenses
- 5. Use of auxiliaries
- 6. Agreement of verb with subject
- 7. Use of articles
- 8. Use of adjectives and adverbs
- 9. Use of selected prepositions
- 10. Affirmative, negative and interrogative sentences
- 11. Question tags
- 12. Phrasal verbs
- 13. Direct and indirect narration

ENGLISH: ACADEMIC WRITING

Learning Objectives:

The syllabus aims to develop a critical and informed response to a range of texts/extracts, the skills of summarization and condensation, the skills of comprehension, the skills of analysis, synthesis and evaluation of content, correct usage and application of vocabulary.

Syllabus:

1. Features of Argumentative/Persuasive Writing

Reading and General Understanding

Writing practice: identifying arguments, counterarguments, non- arguments refuting arguments, style of persuasion, organizing an argumentative essay
Grammar Focus: Use of conjunctions as connectors, conditionals, noun clauses

2. Features of Comparison and Contrast Essay

Reading and General Understanding

Writing Practice: developing a comparison-contrast structure

Grammar Focus: Clauses for comparison, contrast, concession, transitions

3. Features of Literary Analysis

Reading and General Understanding

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Writing Practice: plot devices, themes, symbols, figures of speech, tone, mood, style, organizing discourse structure

Grammar Focus: Conditional Sentences

4. Planning an Academic Essay

Writing Practice: discourse structure, essay-outline, paragraph-sequence, using citation.

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Semester – II (AEC-2)

	Science	Social Science/Arts	Commerce
•	Environmental Science	Environmental Science	Environmental Science

Unit 1: Introduction to environmental studies

- · Multidisciplinary nature of environmental studies
- Scope and importance; Concept of sustainability and sustainable development.

Unit 2: Ecosystems

- What is an ecosystem?
- · Structure and function of ecosystem;
- · Energy flow in an ecosystem: food chains, food webs and ecological succession.
- · Case studies of the following ecosystems:
 - a) Forest ecosystem
 - b) Grassland ecosystem
 - c) Desert ecosystem
 - d) Aquatic ecosystems (ponds, streams, lakes, rivers, oceans, estuaries)

Unit 3: Natural Resources: Renewable and Non - renewable Resources

- Land resources and land-use change; Land degradation, soil erosion and desertification.
- · Deforestation: Causes and impacts due to mining, dam building on environment, forests,
- biodiversity and tribal populations.
- Water: Use and over exploitation of surface and ground water, floods, droughts, confl
 - icts
- Over water (international & inter-state), Dams benefits and problems.
- Food resources: World food problems, changes caused by agriculture and overgrazing, effects
- of modern agriculture, fertilizer-pesticide problems, waterlogging, salinity.
- • Energy resources: Renewable and nonrenewable energy sources, use of alternate energy
 - · sources, growing energy needs, case studies

Unit 4: Biodiversity and Conservation

- · Levels of biological diversity: genetic, species and ecosystem diversity; Bio-geographic zones
- of India; Biodiversity patterns and global biodiversity hotspots.
- · India as a mega-biodiversity nation; Endangered and endemic species of India, threats to
- biodiversity: Habitat loss, poaching of wildlife, man-wildlife conflicts, biological invasions.
- Conservation of biodiversity: In situandEx situconservation of biodiversity.
- Ecosystem and biodiversity services: Ecological, economic, social, ethical, aesthetic and
 - Informational value.

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Unit 5: Environmental Pollution

- · Environmental pollution: types, causes, effects and controls; Air, water, soil and noise
- pollution
- Nuclear hazards and human health risks
- Solid waste management: Control measures of urban and industrial waste.
- Pollution case studies

Unit 6: Environmental Policies & Practices

- · Climate change, global warming, ozone layer depletion, acid rain and impacts on human
- · communities and agriculture
- Environment Laws: Environment Protection Act; Air (Prevention & Control of Pollution)
- · Act; Water (Prevention and control of Pollution) Act; Wildlife Protection Act; Forest
- Conservation Act. International agreements: Montreal and Kyoto protocols and Convention
- on Biological Diversity (CBD).
- · Nature reserves, tribal populations and rights, and human wildlife conflicts in Indian
- context.

Unit7: Human Communities and the Environment

- · Human population growth: Impacts on environment, human health and welfare.
 - Resettlement and rehabilitation of project affected persons; case studies.
- Disaster management: floods, earthquake, cyclones and landslides.
- Water conservation, rain water harvesting, watershed management.
- Wasteland reclamation.
- Environmental movements: Chipko, Silent valley, Bishnois of Rajasthan.
- Environmental ethics: Role of Indian and other religions and cultures in environmental conservation.

1. Visit to local polluted site (any one)

- a) Urban: Identify the major sources of air pollution in a city or town of North Bengal region.
- Rural: Analyse the major sources of organic pollution in villages and adjoining agricultural fields.
- c) <u>Industry:</u> Prepare a list of the large and medium industries in and around your college are and the probable pollutants they may produce.

2. Study of flora and fauna (any one)

- a) Prepare a list of the economic plants available in the college block.
- b) List the birds sighted and found nesting at the college campus and its surroundings with the season of their occurrence.
- Record insects associated with any common crop/grassland/tree of the college area with an idea of their habitat.

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3. Visit to local area to document environmental assets (any one):

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- a) Trip to any riverine system of Terai or the dooars: comment on the direction, volume and quality of water, flowing as observed.
- b) Record the nature of vegetation/forest type/land use pattern at the site of visit.
- c) Analyse the cause of deforestation and landslide on hill slope, if sighted.

4. Study of ecosystems. (any one)

- a) Pond: water parameters turbidity, pH, producers (phyto and zooplanktons) and related consumers (fishes and birds).
- b) Grassland on hill slope: producers (plants), insects, consumers (birds, mammals, reptiles etc.)
- c) Forest: practical concept of forest type, stories, dominant trees and sub dominant vegetation, observed and reported major herbivores and carnivores in a forest ecosystem.

5. Submission of a field work (covering the above practical works undertaken)

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Semester - III (AEC-3)

Science	Social Science/Arts	Commerce
Course on Disaster Risk Management	Course on Disaster Risk Management	Course on Disaster Risk Management

Learning Objectives:

The course is intended to provide a general concept in the dimensions of disasters caused by nature beyond the human control as well as the disasters and environmental hazards induced by human activities with emphasis on disaster preparedness, response and recovery.

Introduction on Disaster Different Types of Disaster:

- A) Natural Disaster: such as Flood, Cyclone, Earthquakes, Landslides etc.
- B) Man-made Disaster: such as Fire, Industrial Pollution, Nuclear Disaster, Biological Disasters, Accidents (Air, Sea, Rail & Road), Structural failures (Building and Bridge), War & Terrorism etc. Causes, effects and practical examples for all disasters.

Risk and Vulnerability Analysis:

- 1. Risk: Its concept and analysis
- 2. Risk Reduction
- 3. Vulnerability: Its concept and analysis
- 4. Strategic Development for Vulnerability Reduction

Disaster Preparedness and Response Preparedness:

- 1. Disaster Preparedness: Concept and Nature
- 2. Disaster Preparedness Plan
- 3. Prediction, Early Warnings and Safety Measures of Disaster.
- 4. Role of Information, Education, Communication, and Training,
- 5. Role of Government, International and NGO Bodies.
- 6. Role of IT in Disaster Preparedness
- 7. Role of Engineers on Disaster Management.

Response

- 1. Disaster Response: Introduction
- 2. Disaster Response Plan
- 3. Communication, Participation, and Activation of Emergency Preparedness Plan

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- 4. Search, Rescue, Evacuation and Logistic Management
- 5. Role of Government, International and NGO Bodies
- 6. Psychological Response and Management (Trauma, Stress, Rumor and Panic)
- 7. Relief and Recovery
- 8. Medical Health Response to Different Disasters
- 10. Role of Educational Institute.

Rehabilitation, Reconstruction and Recovery

- Reconstruction and Rehabilitation as a Means of Development.
- 2. Damage Assessment
- 3. Post Disaster effects and Remedial Measures.
- 4. Creation of Long-term Job Opportunities and Livelihood Options,
- 5. Disaster Resistant House Construction
- 6. Sanitation and Hygiene
- 7. Education and Awareness,
- 8. Dealing with Victims' Psychology,
- 9. Long-term Counter Disaster Planning

- 4. Search, Rescue, Evacuation and Logistic Management
- 5. Role of Government, International and NGO Bodies
- 6. Psychological Response and Management (Trauma, Stress, Rumor and Panic)
- 7. Relief and Recovery
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Rehabilitation, Reconstruction and Recovery

- 1. Reconstruction and Rehabilitation as a Means of Development.
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- 4. Creation of Long-term Job Opportunities and Livelihood Options,
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- 6. Sanitation and Hygiene
- 7. Education and Awareness,
- 8. Dealing with Victims' Psychology,
- 9. Long-term Counter Disaster Planning

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Semester – IV (AEC- 4)

Science	Social Science/Arts	Commerce
Course on NCC	Course on NCC	Course on NCC

Learning Objectives:

The course aims to:

- (a) Provide knowledge about the history of NCC, its organization, and incentives of NCC for their career prospects.
- (b) Inculcate spirit of duty and conduct in NCC cadets.
- (c) Provide understanding about different NCC camps and their conducts.
- (d) Provide understanding about the concept of national integration and its importance.
- (e) Provide understanding about the concept of self-awareness and emotional intelligence.
- (f) Provide understanding about the concept of critical & creative thinking.
- (g) Provide understanding about the process of decision making & problem solving.
- (h) Provide understanding about the concept of team and its functioning.
- (i) Provide understanding about the concept and importance of Social service.

Learning Outcomes:

After completing this course, the cadets will be able to: -

- (a) Understand the basic concept of NCC.
- (b) Respect the diversity of different Indian culture.
- (c) Practice togetherness, teamwork and empathy in all walks of their life.
- (d) Do their own self-analysis and will work out to overcome their weakness for better performance in all aspects of life.
- (e) Critically think and analyse.

Medium of Instruction: Hindi and English

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Syllabus of NCC-I

Unit I: NCC General 4 Lectures

Subtopics:

- Aims, Objectives and Organization of NCC
- Incentives for NCC Cadets
- Duties of NCC Cadets
- NCC Camps: Types and Conduct

Unit II: National Integration

Subtopics:

- National Integration: Importance and Necessity
- Factors affecting National Integration
- Unity in Diversity
- Threats to National Security

Unit III: Personality Development

Subtopics:

- Factors
- Self-Awareness
- Empathy
- Critical and Creative Thinking
- Decision Making and Problem Solving

Unit IV: Social Service and Community Development

Subtopics:

- **Basics of Social Service**
- Rural Development Programmes
- NGO's
- Contribution of Youth

Practical/Practice Component

- Drill
- Field Craft & Battle Craft
- Map Reading
- Weapon Training
- Social Service & Community Development
- Any other Practical/Practice as decided from time to time

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Suggested Readings:

- DGNCC Cadet's Hand Book Common Subjects -All Wings (in English)
- DGNCC Cadet's Hand Book Common Subjects -All Wings (in Hindi)
- DGNCC Cadet's Hand Book Specialised Subjects -Army, Navy and Air Wing

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The Principal Secretary to Governor Governor's Secretariat, Bihar

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Ref: Memo no. BSU (UGC) 02/2023-1457 GS (I) Dated-14.09.2023

Sir.

With reference to your letter Memo no.- BSU (UGC) 02/2023-1457 GS (I) Dated-14.09.2023, we are herewith submitting one set of prepared syllabus for 4 year undergraduate courses (Bachelor of Arts-Economics) based on CBCS to you for your perusal and consideration.

Following members were authorized by your above reference letter.

With kind regards,

Dhirendra Kumar Singh

Professor, PG Deptt. of Economics, VKSU, Ara

Dr. Siddharth Bhardwai.

Assistant Professor,

Deptt of Economics

Patna University, Patna

Patna College,

Prof. (Dr.) B. K. Lal University Deptt. of Patna Economics, University, Patna

Dr. Manoj Prabhakar, Professor, Assistant Deptt. of University Patna Economics, University, Patna

Prof. (Dr.) Rashmi Akhoury, Deptt. of Economics, COCAS, PPU, Patna *

> Nisha (Dr.)

Prof. Kumari, of Deptt. PG TMBU, Economics, Bhagalpur

Prof. (Dr.) Umesh Prasad, Deptt. Professor, Economics, COCAS, PPU, Patna

Dr. Yadawendra Singh, Assistant Professor, C.M. Mithila L.N. College, University, Darbhanga

19.09.2023 Kumar, Professor, Assistant of Deptt. University Magadh Economics, University, Bodh Gaya

Prof. (Dr.) Rajeshwar Prasad Shrivastava, PG Deptt. of Economics, University, Chhapra

19.9,23

Prof. (Dr.) Ranjana Singh,

RD & DJ College, University, Munger

Munger

Dr. Professor, PG Associate Economics, of Deptt. BNMU, Madhepura

Singh.

Deptt. of Economics, RDS College, Muzaffarpur

Semester III **MJC-3: INTRODUCTORY MACROECONOMICS** (Credit: 5)

Course Outcomes

After the completion of the course, the student will be able to:

Develop a proper and in- depth understanding of variables dealing with the aggregate economy, CO1:

Analyse the basics of National Income Accounting, which will help them to describe and analyze the CO2:

economy in quantitative terms.

Understand the major issues and concerns of the economy such as unemployment, inflation, CO3:

poverty and economic growth.

Describe Functions of Money and Determination of Money Supply and Demand CO4:

Unit	Topics to be covered	No. of Lectures
1	Introduction to Macroeconomics and National Income Accounting The Origin and Roots of Macroeconomics, Need and relevance of Macroeconomics, Scope of the Subject, Macroeconomic concerns and issues, the Role of Government in Macroeconomics, the components of Macroeconomics, methodology to macroeconomics, Circular flow of Income, The Concepts of National income; GDP, GNP, NNP, NNP at factor cost, Personal income, private income and personal disposable income, approaches to calculating GDP, Nominal and real GDP, Green GDP, concept of social accounting, limitations of GDP as a measure of social welfare, difficulties in measuring national income in developing economies, GDP and black economy, concept of base year and GDP index	
2	Money and Banking Functions of money; quantity theory of money; fundamental equations; Keynesian theory of money and prices, determination of money supply and demand; Centralbanking: history, objectives, functions, relevance, performance, tools of monetary policy; Concept and history of commercial banking - functions, distribution of assets and credit creation.	20
3	The Closed Economy in the Short Run Classical and Keynesian systems; simple classical system of output and employment, Keynesian model of income determination, Aggregate supply and demand, fiscal and monetary multipliers, limitation and Relevance of Keynesian economics to developing economy	20
	TOTAL	60

Suggested Readings:

Dombusch, Fischer and Startz, Macroeconomics, McGraw Hill, 11th edition, 2010.

N. Gregory Mankiw. Macroeconomics, Worth Publishers, 7th edition, 2010.

Olivier Blanchard, Macroeconomics, Pearson Education, Inc., 5th edition, 2009.

Richard T. Froyen, Macroeconomics, Pearson Education Asia, 2nd edition, 2005.

Andrew B. Abel and Ben S. Bernanke, Macroeconomics, Pearson Education, Inc., 7th edition, 2011.

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SEMESTER - III **MJC-4: STATISTICAL METHODS IN ECONOMICS**

(Credit: 4)

Course Outcomes

CO4:

After the completion of the course, the student will be able to:

Learn the Basic Concepts of statistics and its application CO1:

Understand Bayes Theorem, Normal Distribution, Poisson Distribution CO2:

Understand Elementary Probability Theory including Probability Distribution CO3: Apply the methods of calculating covariance and also the concept of correlation coefficient and

regression analysis

Unit	Topics to be covered	No. of Lectures
1	Basic Statistics Measures of Central Tendency: Mean, Median Mode, Geometric Mean, Harmonic Mean; Measures of Dispersion: Mean Deviation, Quartile Deviation, Standard Deviation; Moments, Skewness, Kurtosis, Gini coefficient, Lorenz Curve, Bivariate Frequency Distribution: Simple Correlation and Linear Regression Analysis	20
2	Index Number Concept of Index Number, Laspeyre's Paasche's and Fisher's Ideal Index Number, Tests for Ideal Index Number, Problems in Construction of Index Number, Applications: Cost of living index Number	10
3	Concept of Probability and Probability Distribution: Sample space and events; probability axioms and properties; Concept of random variable, Addition and Multiplication Theorem, Conditional Probability and Bayes Theorem Probability Distributions: Binomial, Poisson and Normal Distribution-properties, mean and variance.	15
4	Sampling Theory and Estimation Concept of Sampling, Methods of Sampling, Types of Sampling, Concept and properties of an estimator, Point and Interval Estimation.	5
-	TOTAL	50

Suggested Readings:

Jay L. Devore, Probability and Statistics for Engineers, Cengage Learning, 2010.

John E. Freund, Mathematical Statistics, Prentice Hall, 1992.

Gupta S.P, Statistical Methods, S.Chand & Sons, New Delhi.

Richard J. Larsen and Morris L. Marx, An Introduction to Mathematical Statistics and itsApplications, Prentice Hall, 2011.

Richard J. Larsen and Morris L. Marx, An Introduction to Mathematical Statistics and its Applications, Prentice Hall, 2011.

SEMESTER- IV MJC- 5: INTERMEDIATE MICROECONOMICS 1 (Credit: 5)

Course Outcomes

After the completion of the course, the student will be able to:

CO1: Frame their budget according to their income and price constraint.

CO2: Develop knowledge about how the prices are determined in different forms of market.

CO3: Apply Demand and Supply Analysis to Market.
CO4: Deal with the concept of Consumer Behavior.

Jnit	Topics to be covered	No. of Lectures
l	Ordinal Utility Analysis: Concept, Assumptions, Tools: Indifference curve and Budget line, income effect, substitution effect and price effect for normal and inferior goods, Slutsky equation and Hicksian Substitution effect; Revealed preference theory, deriving demand theorem from the Revealed Preference Hypothesis and critical appraisal of Revealed Preference Hypothesis. Revision of Demand Theory: weak and strong ordering, Recent development in Demand Theory.	20
2	Production, Costs and Revenue Analysis Production with one and more variable inputs; law of variable proportion, returns to scale, optimum factor combination, Production possibility curve, elasticity of substitution	
	Traditional and Modern approaches to cost Behaviour of Cost and Revenue curves under different market conditions, Internal and external economies and diseconomies of scale,	20
	Concept, assumptions, characteristics and types of Production function with examples, estimation and their applications: Homogeneous, Linear Homogeneous and Cobb-Douglas Production Function, Production function and technological change.	
3	Perfect Competition and Monopoly Review of perfect competition: features, price and output determination under perfect competition in short and long run, total and marginal approach. Monopoly: features, conditions for existence of monopoly, price and output determination under monopoly, measurement of the degree of monopoly power, pricing with market power; price discrimination; government policies towards monopoly and competition	20
	TOTAL	60

Suggested Readings:
Hal R. Varian, *Intermediate Microeconomics, a Modern Approach*, W.W. Norton and Company/Affiliated East-West Press (India), 8th edition, 2010. The workbook by Varian and Bergstrom may be used for problems.

C. Snyder and W. Nicholson, *Fundamentals of Microeconomics*, Cengage Learning (India), 2010.

B. Douglas Bernheim and Michael D. Whinston, Microeconomics, Tata McGraw-Hill (India), 2009

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SEMESTER - IV MJC-6: INTERMEDIATE MACROECONOMICS (Credit - 5)

Course Outcomes

After the completion of the course, the student will be able to:

Develop a proper and in-depth understanding of variables dealing with the Macroeconomics.

Understand the basics of closed and open economy models. CO2:

Understand issues and concerns of the economy such as unemployment and inflation. CO3:

Understand the concept and function of Money and Determination of Money supply and CO4: demand.

Unit	Topics to be covered	No. of Lectures
1	The Closed Economy in the Short Run Classical Macroeconomics: Money, prices and interest, Keynesian system: money, interest and income, IS-LM model, policy effects, Analysis of Business cycle: phases of business cycle, theories of business cycle: Hawtrey, Keynes, Samuelson, and Hicks.	20
2	Inflation, Unemployment and Expectations Inflation its types and causes; cost of inflation, the Fisher effect, unemployment: concept, types, measurement and effect on different sections of society, Philips curve, Adaptive and Rational expectation hypothesis, policy implications.	20
3	Open Economy Models Short-run open economy models; Mundell-Fleming Model; exchange rate determination; Purchasing Power Parity; Asset market approach; Dornbusch's Overshooting Model; monetary approach to balance ofpayments; international financial markets.	20
_	TOTAL	60

Suggested Readings:

Dornbusch, Fischer and Startz, Macroeconomics, McGraw Hill, 11th edition, 2010.

N. Gregory Mankiw. Macroeconomics, Worth Publishers, 7th edition, 2010.

Olivier Blanchard, Macroeconomics, Pearson Education, Inc., 5th edition, 2009.

Steven M. Sheffrin, Rational Expectations, Cambridge University Press, 2nd edition, 1996.

Andrew B. Abel and Ben S. Bernanke, Macroeconomics, Pearson Education, Inc., 7th Edition, 2011.

Errol D'Souza, Macroeconomics, Pearson Education, 2009

Paul R. Krugman, Maurice Obstfeld and Marc Melitz, International Economics, PearsonEducation Asia, 9th edition, 2012.

SEMESTER - IV MJC - 7: INDIAN ECONOMY (Credit - 5)

Course Outcomes

After the completion of the course, the student will be able to:

CO1: Examine sector-specific policies and their impact in shaping trends in key economic indicators in India.

CO2: Evaluate the Indian Empirical evidence

CO3: Analyze the rapid Economic changes taking place in the economy

CO4: Learn about the role of agriculture and industry in Economic development and their performance in Indian perspective.

Unit	Topics to be covered	No. of Lectures
1	Economic Development since Independence Characteristics of Indian Economy, Main features of the economy at independence; Structural change, growth and developmentunder different policy regimes—goals, constraints, institutions and policyframework; an assessment of sectoral performance, sustainability and regional contrasts; structural change, trends of savings and investment.	10
2	Indian Agriculture: Importance of Agriculture in Indian economy, Problems in Indian Agriculture and their possible solutions, Efforts by the Government for upliftment of Indian Agriculture, Trends in Agricultural growth and Productivity; Land Reforms; Green and Rainbow Revolution; Agricultural Marketing; Agricultural Price Policy; Food Security in India, status, prospect and problem of food processing in India	15
3	Indian Industry and Services Sector Industrial policies in India since independence, Importance of small scale industries in India, problems, remedies, industrial sickness in India, labour issues and social security, Services Sector: growth and present state of IT, hospitality and financial sector inIndia, Fiscal and Financial Sector Reforms in India. Foreign Trade in India - Composition and Direction.	15
4	Bihar Economy: General features of the economy, performance, major challenges and causes of backwardness in different sectors. Human ResourceDevelopment- Concept and Emerging Issues, Policies for unemployment, Migration- Dimension and its impact. Policies and Programmes of the State Government for development of different	20
	sectors. TOTAL	60

Suggested Readings:

Shankar Acharya, 2010, -Macroeconomic Performance and Policies 2000-8, I in Shankar Acharya and Rakesh Mohan, editors, India's Economy: Performances and Challenges: Development and Participation, Oxford University Press. Rakesh Mohan, 2010, -India's Financial Sector and Monetary Policy Reforms, in Shankar Acharya and Rakesh Mohan, editors, India's Economy: Performances and Challenges: Development and Participation, Oxford University Press. Pulapre Balakrishnan, Ramesh Golait and Pankaj Kumar, 2008, -Agricultural Growth in India Since 1991, RBI DEAP Study no. 27.

Kunal Sen, 2010, -Trade, Foreign Direct Investment and Industrial Transformation in India, in Premachandra

Athukorala, editor, The Rise of Asia, Routledge

SEMESTER - V **MJC 8: INTERMEDIATE MICROECONOMICS 2** (Credit - 5)

Course Outcomes

After the completion of the course, the student will be able to:

Differentiate between Partial and General Equilibrium CO1:

Analyse the behavior patterns of different economic agents and market situations CO2:

Understand Imperfect Competition and Distribution theory CO3:

Learn about Externalities and Market Failure CO4:

Unit	Topics to be covered	No. of Lectures
1	Imperfect Markets Imperfect markets:common features, price and output determination in monopolistic competition, concept of excess capacity, non price competition: selling cost and advertising, cost plus(mark up)pricing theory, various approaches to price and output determination under Oligopoly-classical models of oligopoly: duopoly Cournot model, collusive oligopoly: cartel and price leadership, basic idea of kinked demand curve.	20
2	Distribution Theory (Pricing of Factors) Concepts of factor productivity, Marginal Revenue Product (MRP) and Value of Marginal Product (VMP), pricing of factors in perfect and imperfect market, Marginal productivity theory of distribution, Euler's theorem and product exhaustion problem, technological progress and factorshares in income, some major theories of distribution; Ricardian theory of rent, modern concept of rent, quasi rent, Classical and Keynesian theory of interest, Innovation theory of profit, Knight's theory of profit.	10
3	Market Failure Concept and causes of market failure, correction of market failure, market failure and market imperfections, market failure vs. government failure, Externalities in production and consumption, Coase Theorem, public goods, semipublic goods, private goods, merit and demerit goods, markets with asymmetric information.	15
4	General Equilibrium, Efficiency and Welfare Concept of Partial and General Equilibrium, Welfare concept, Walrasian General Equilibrium, concept and conditions of Pareto Optimality, perfect competition and Pareto Optimality, perfect market asefficient market: existence and stability of equilibrium under perfect competition,	15
	TOTAL	60

Suggested Readings;

Hal R. Varian, Intermediate Microeconomics, a Modern Approach, W.W. Norton and Company/Affiliated East-West Press (India), 8th edition, 2010. The workbook by Varian and Bergstrom may be used for problems.

C. Snyder and W. Nicholson, Fundamentals of Microeconomics, Cengage Learning (India), 2010.

B. Douglas Bernheim and Michael D. Whinston, Microeconomics, Tata McGraw-Hill (India), 2009. A. Ahsan, C. Pages and T. Roy, 2008, -Legislation, Enforcement and Adjudication in Indian Labour Markets: Origins,

Consequences and the Way Forward, in D. Mazumdar and S. Sarkar, editors, Globalization, Labour Marketsand

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Inequality in India, Routledge.

Dipak Mazumdar and Sandeep Sarkar, 2009, -The Employment Problem in India and the Phenomenon of the Missing

Middle, Indian Journal of Labour Economics.

J. Dennis Rajakumar, 2011, -Size and Growth of Private Corporate Sector in Indian Manufacturing, Economic and Political Weekly, April.

SEMESTER - V MJC - 9: PUBLIC FINANCE (Credit - 5)

Course Outcomes

After the completion of the course, the student will be able to:

CO1: Understand the importance of Public finance CO2: To understand the implications of fiscal policy

CO3: To analyse the trends and composition of public expenditure in India

CO 4: To understand the importance of Fiscal Federalism

Unit	Topics to be covered	No. of Lectures
1.	Introduction to Public Finance Public Finance: Meaning, Nature, Scope and Importance; difference between Private and Public Finance; Principle of Maximum Social Advantage; Role of State in Public Finance. Fiscal functions of State: Allocation, Distribution, Economic Growth and Stabilisation.	20
2.	Sources of Revenue Taxes, loans, grants and aid – meaning and types, canons/ principles of taxation, problem of justice in taxes, incidence of taxation, taxable capacity; Impact of taxation & tax evasion characteristics of Indian tax system, defects & steps of reform.	14
3.	Public Expenditure and Debt Principle of Public Expenditure; Principle of Public Debt and its Methods of Redemption; Effects of Public Expenditure on Production and Distribution; Public Debt in India.	14
4.	Public Finance in India Sources of Revenue of Central Government ,State Government and Local Bodies; Concept and Types of Budget, Fiscal Deficit, Deficit Financing and Deficit Budget, Financial relation between Central and State; Finance commission; Fiscal Policy.	12
	TOTAL	60

Suggested Readings:

J. Hindriks, G. Myles: Intermediate Public Economics, MIT Press, 2006.

H. Rosen, T. Gayer: Public Finance, 9th edition, McGraw-Hill/Irwin, 2009.

Joseph E. Stiglitz, Economics of the Public Sector, W.W. Norton & Company, 3rd edition, 2000

R.A. Musgrave and P.B. Musgrave, Public Finance in Theory & Practice, McGraw Hill Publications, 5th edition, 1989

Harvey Rosen, Public Finance, McGraw Hill Publications, 7th edition, 2005.

A. Ghosh and C. Ghosh: Public Finance, PHI Learning, 2014.

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Shankar Acharya, 2005 - Thirty Years of Tax Reform in India, Economic and Political Weekly, May 14-20.

Report of the 14th Finance Commission, 2015-20. Economic Survey, Government of India (Latest).

State Finances: A Study of Budgets, Reserve Bank of India (Latest).

SEMESTER - VI **MJC - 10: INTERNATIONAL ECONOMICS** (Credits - 4)

Course Outcomes

After the completion of the course, the student will be able to:

Analyze the issues related to BoP, exchange rates and direction of trade. CO1:

Describe micro-foundations of the various aggregates of International Economics CO2:

Explain different International trade theories CO3:

Learn about different International Institutions and their relevance for Indian Economy. CO4:

Unit	Topics to be covered	No. of Lectures
1	Introduction: Nature and scope of International Economics, trade surpluses and deficits, the economic basis of trade, terms of trade, Gains from trade, Instruments of trade policy and their impact on international trade, trade barriers (quantitative and qualitative): tariffs, subsidies and quotas, free trade vs. protection: case for free trade, case for protection.	15
2	Theories of International Trade: Absolute and Comparative advantage, Opportunity cost theory, Ricardian and Heckscher-Ohlin Model, Leontief's Paradox, Immiserising Growth and the Transfer Problem.	10
3	Exchange rate and BoP: Concept and types of Exchange rate, Theories of Exchange rate determination, fixed vs. flexible exchange rate, factors affecting exchange rate, impact of exchange rate on economy, market for foreign exchange, Review of Balance of Payment (BoP) accounting, components of BoP: current and capital account, Disequilibrium of BoP: causes and methods of correction, Adjustment mechanisms, Internal and external balance, Elasticity, Absorption and Monetary Approach to BoP.	18
4	International Institutions: WTO, IMF, World Bank, ADB, New Development Bank: Objectives, principles and functions.	7
_	TOTAL	50

Suggested Readings:

1. Paul Krugman, Maurice Obstfeld, and Marc Melitz, International Economics: Theory and Policy, Addison-Wesley (Pearson Education Indian Edition), 9th edition, 2012.

2. Dominick Salvatore, International Economics: Trade and Finance, John WileyInternational Student Edition, 10th edition, 2011.

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SEMESTER - VI MJC - 11: Contemporary Issues in Indian Economy

(Credits - 5)

Course Outcomes

After the completion of the course, the student will be able to:

CO1: Demonstrate the Paradigm shift in policy and economic indicators in the post independent India

CO2: Analyse the rapid changes taking place in India in terms of plan period, human development, Education and Health

CO3: Grasp the Concept of poverty and unemployment in Indian perspective

CO4: Analyse the composition volume and direction of foreign trade

Unit	Topics to be covered	No. of Lectures
1	Dimensions of Economic Development: Growth distribution and structural change with respect to gender and regional contrast MDG, SDG, Sustainable development, Inclusive growth and Financial Inclusion Capital formation and technological development.	20
2	Issues in Indian Economic Policy: Human resource development: Education and Health. Population growth and Economic development, Demographic trends and issues, Demographic dividend; Unemployment, Poverty and Inequality. Macroeconomic stabilization: Trade, Fiscal and Monetary policy Infrastructure development in India Environmental issues in India	25
3	India's Foreign Trade: Volume and Trend of Foreign Trade in India, EXIM Policy assessment, India's balance of payment, Globalisation and its impact on Indian Economy, WTO and India.	15
	TOTAL	60

Suggested Readings:

Jean Dreze and Amartya Sen, 2013. An Uncertain Glory: India and its Contradictions, PrincetonUniversity Press. Pulapre Balakrishnan, 2007, The Recovery of India: Economic Growth in the Nehru Era,

Economic and Political Weekly, November.

Rakesh Mohan, 2008, -Growth Record of Indian Economy: 1950-2008. A Story of Sustained Savings and Investment, Economic and Political Weekly, May.

S.L. Shetty, 2007, -India's Savings Performance since the Advent of Planning, in

K.L. Krishna and A. Vaidyanathan, editors, Institutions and Markets in India's Development.

Himanshu, 2010, -Towards New Poverty Lines for India, Economic and Political Weekly, January.

Jean Dreze and Angus Deaton, 2009, -Food and Nutrition in India: Facts and Interpretations,

Economic and Political Weekly, February.

Himanshu. 2011, -Employment Trends in India: A Re-examination, Economic and Political Weekly, September. Rama Baru et al, 2010, -Inequities in Access to Health Services in India: Caste, Class and Region, Economic and Political Weekly, September.

Geeta G. Kingdon, 2007, The Progress of School Education in India, Oxford Review of Economic Policy. J.B.G. Tilak, 2007, -Post Elementary Education, Poverty and Development in India, International Journal of

Educational Development.

T. Dyson, 2008. -India's Demographic Transition and its Consequences for Development in Uma Kapila, editor, Indian Economy Since Independence, 19th edition, Academic Foundation.

Kaushik Basu, 2009, -China and India: Idiosyncratic Paths to High Growth, Economic and Political Weekly, September.

K. James, 2008, -Glorifying Malthus: Current Debate on Demographic Dividend in India, Economic and Political 9 | Page

Weekly, June.

Reetika Khera, 2011, -India's Public Distribution System: Utilisation and Impact

Journal of Development Studies.

Aniruddha Krishna and Devendra Bajpai, 2011, -Lineal Spread and Radial Dissipation: Experiencing Growth in Rural India, 1992-2005, Economic and Political Weekly, September.

Kaushik Basu and A. Maertens, eds. 2013, Oxford Companion to Economics, OxfordUniversity Press.

SEMESTER - VI **MJC -12: DEVELOPMENT ECONOMICS** (Credit-5)

Course Outcomes

After the completion of the course, the student will be able to:

Understand the different concepts of development and evaluate the gross national growth COI:

Analyze the connection between growth and inequality and identify the role of state in economic CO2: development

Learn about the concept of poverty and its measurement and the connection between inequality and CO3:

Understand development in global perspective. CO4:

Unit	Topics to be covered	No. of Lectures
1	Growth and Development: Concept of Economic Growth, Economic Development, Economic Progress and Economic Welfare, Measurement of Economic Growth, Factors of Growth Historical experience of development (Stages of Growth; late industrialization; structural analysis), Poverty and inequality (conceptual issues and measurement; capabilities and entitlements, policies for poverty reduction) State and the market (market failure; government failure; conflict versus complementarity)	20
2	Determinants of Development Capital and technical progress (role of capital, capital output ratio; resource allocation; level and pattern of capital formation; pattern of technical progress; technology and unemployment; obsolescence, choice of techniques) Labour and employment issue (population growth; demographic transition; human resource development, surplus labour, open and disguised unemployment, informal sector; rural-urban migration). The Environment and Sustainable development; Non-Renewable resources	20
3	Theories of Growth and Development: Balanced and Unbalanced Growth, Big Push Theory, Harrod-Domar Model, Kaldor's Model of Growth	20
	TOTAL	60

Suggested Readings: Michael P. Todaro, Economic Development, International Student (Sixth) Edition, Addition - Wesley

Debraj Ray, Development Economics, OUP

Gerald M. Meir, Leading Issues in Economic Development, Sixth Edition, C

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A.P. Thirlwall, Economics of Development, Palgrave Macmillan, 9th Edition. M. L. Taneja & R.M. Myer, Economics of Development & Planning, Vishal Publishing Co. Jalandhar-Delhi.

SEMESTER - VII MJC -13: ADVANCED QUANTITATIVE METHODS (Credit - 5)

Course Outcomes

After the completion of the course, the student will be able to:

Develop analytical and organizational skills. CO1:

Use mathematical techniques to analyze the economic problems and their effects. CO2:

Use Differential and Different Equations in Economics. CO3:

Use multi-Variable Optimization. CO4:

Unit	Topics to be covered	No. of Lectures
1.	Integration: Concept and Methods of Integration – Integration by Substitution, Integration by Transformation & Integration by Parts; Application of Integration in Economics.	10
2	Functions of Several real Variables: a. Technique of Partial Differentiation; Second Order Partial Derivatives; Cross Partial Derivatives; Applications of Partial Derivatives in Demand, Utility and Production Analysis. b. Technique of Total Differentials; Second order Total Differentials; Derivatives of Implicit Functions	6
3	Multi-Variable Optimization: a. Maxima and Minima of a Function of two or more than two Variables – Hessian Determinants. b. Unconstrained Optimization and Constrained Optimization with EqualityConstraints – Use of Lagrange Multiplier. c. Applications of Unconstrained and Constrained Optimization in Economics – Equilibrium of Firm under Pure Competition.	8
4	Linear Algebra: Basic Concepts of Vector, Types of Vector, Addition of Vectors, ScalarProduct of Two Vectors. Matrix and Determinants: Types of Matrices, Addition and Subtraction of Matrices, Multiplication of two Matrices, Transpose and Inverse of a Matrix, Rank of a matrix, Determinant and its Properties, Solution of Simultaneous Equation Models.	8
5	Linear Programming, Input Output Model and Game Theory- Introduction to linear programming, formulation of linear programming problem, concept of duality, solution of linear programming trough graphical method. Input-output analysis- meaning and basic concept Game theory- concepts, strategies- dominant strategy, saddle point, zero-sum game.	16
6.	Correlation, Regression and Time Series Analysis a. Partial and Multiple Correlation b. Partial and Multiple Regression c. Time Series Analysis: Components of Time Series and Measurement of Trends	12
	Total	60

Jay L. Devore, Probability and Statistics for Engineers, Cengage Learning, 2010.

John E. Freund, Mathematical Statistics, Prentice Hall, 1992.

Gupta S.P, Statistical Methods, S.Chand & Sons, New Delhi.

Richard J. Larsen and Morris L. Marx, An Introduction to Mathematical Statistics and itsApplications, Prentice Hall, 2011.

K. Sydsaeter and P. Hammond, Mathematics for Economic Analysis, PearsonEducational Asia:Delhi, 2002.

Monga, G.S. (1972), Mathematics and Statistics for Economists, Vikas Publishing House, NewDelhi.

Chiang. A.C. (1988), Fundamental Methods of Mathematical Economics, Mac Graw Hill, New York.

Allen, R.G.D. (1974), Mathematical Analysis for Economists, Mac Millian Press and ELBS, London.

Dowling, E.T. (1992), Mathematical Economics 2nd Edition, Mac Graw Hill, New York.

Yamune, Taro (1975) Mathematics for Economists, Prentice Hall of India, New Delhi.

SEMESTER - VII MJC -15: BANKING AND FINANCIAL INSTITUTIONS (Credit - 6)

Course Outcomes

After the completion of the course, the student will be able to:

CO1: Analyse the different concepts of Money

CO2: understand the working of financial markets

CO3: Differentiate between capital and money market

CO4: Explain the working of banking system

Unit	Topics to be covered	No. of hours
1	Money Money: Kinds, Functions and Significance, Monetary Standards: Metallic Standard, Gold Standard and Paper Standard, Value of money, Measurement of changes in the value of money, Demand for Money: The Classical Approach, Keynesian Approach, Supply of Money: Definitions—Determinants of Money Supply—High Powered Money and Money Multiplier—Indian Currency	20
2	Financial Institutions, Markets, Instruments and Financial Innovations Role of financial markets and institutions; problem of asymmetric information— adverse selection and moral hazard; financial crises. Money and capital markets: organization, structure and reforms in India; role of financial derivatives and other innovations.	1.5
3	Interest Rates Determination; sources of interest rate differentials; theories of term structure of interest rates; interest rates in India.	10
4	Banking System Commercial banking: Nature; structure; functions: The process of credit creation-purpose and limitations, Pre-requisites of a sound commercial banking system; Liabilities and assets of Banks.ATM - Internet Banking - Core banking; A Critical Appraisal of the Progress of Commercial Banking after Nationalization; Recent Reforms in Banking Sector in India.	15

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5	Central Banking and Monetary Policy Role of central banks in developed and developing countries; Functions of a central bank; Role and functions of the Reserve Bank of India; methods of credit control: Quantitative- bank rate, repo rate, open market operations, variable reserve ratio and selective methods; Objectives and limitations of monetary policy; NPA's, Recent changes in monetary policy of India.	20
	TOTAL	80

F. S. Mishkin and S. G. Eakins, Financial Markets and Institutions, PearsonEducation, 6th edition, 2009. F. J. Fabozzi, F. Modigliani, F. J. Jones, M. G. Ferri, Foundations of Financial Markets and Institutions, Pearson Education, 3rd edition, 2009.

M. R. Baye and D. W. Jansen, Money, Banking and Financial Markets, AITBS, 1996. Rakesh Mohan, Growth with Financial Stability- Central Banking in an Emerging L. M. Bholeand J. Mahukud, Financial Institutions and Markets, Tata McGrawHill, 5th edition, 2011. M. Y. Khan, Indian Financial System, Tata McGraw Hill, 7th edition, 2011.

N. Jadhav, Monetary Policy, Financial Stability and Central Banking in India,

Macmillan, 2006. R.B.I. - Report of the Working Group: Money Supply Analytics and Methodology of Compilation, 1998.

R.B.I. Bulletin, Annual Report and Report on Currency and Finance (latest).

SEMESTER - VIII MJC -16: ECONOMICS OF HEALTH AND EDUCATION (Credit - 4)

Course Outcomes

After the completion of the course, the student will be able to:

C01: Understand the relevance of health and education in human development

C02: Analyse the microeconomic foundations of health and educational economics

C03: Evaluate the progress of health sector in the country

C04: Assess the issues of Human Resource Development in India

Unit	Topics to be covered	No. of Lectures
1	Role of Health, Hygiene and Education in Human Resource Development Importance inpoverty alleviation; health and education outcomes and their relationshipwith macroeconomic performance, Importance of Hygiene	10
2	Microeconomic Foundations of Health Economics Demand for health; uncertainty and health insurance market; alternative insurance mechanisms; market failure and rationale forpublic intervention; equity and inequality. Costing, cost effectiveness and cost-benefit analysis; burden of disease.	15
3	Health Sector in India: An Overview Health outcomes; health systems; health financing, Mental Health in India: Concept and issues.	10

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Education Sector in India: An Overview Literacy rates, school participation, school quality measures. Rate of return to education: private and social; quality of education; signaling or human capital; theories of discrimination	
	50

William, Jack, Principles of Health Economics for Developing Countries, WorldBank Institute Development Studies,

World Development Report, Investing in Health, the World Bank, 1993.

Ronald G., Ehrenberg and Robert S., Smith, Modern Labor Economics: Theory and Public Policy, Addison Wesley, 2005.

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SEMESTER - III MIC- 3: INTRODUCTORY MACROECONOMICS (Credit: 3)

After the completion of the course, the student will be able to:

Develop a proper and in- depth understanding of variables dealing with the aggregate economy. CO1:

Analyse the basics of National Income Accounting, which will help them to describe and analyze the CO2: economy in quantitative terms.

Understand the major issues and concerns of the economy such as unemployment, inflation, CO3: poverty economic growth.

Unit	Topics to be covered	No. of Lectures
1	Introduction to Macroeconomics and National Income Accounting The Origin and Roots of Macroeconomics, Need and relevance of Macroeconomics, Scope of the Subject, Macroeconomic concerns and issues, the Role of Government in Macroeconomics, the components of Macroeconomics, methodology of macroeconomics, Circular flow of Income, The Concepts of National income: GDP, GNP, NNP, NNP at factor cost, Personal income, private income and personal disposable income, approaches to calculating GDP, Nominal and real GDP, Green GDP.	15
2	Money and Banking Functions of money; quantity theory of money; Central banking: history, objectives, functions, relevance, performance, tools of monetary policy; Concept and history of commercial banking - functions, distribution of assets and credit creation.	15
3	Classical and Keynesian Systems Classical and Keynesian systems; simple classical system of output and employment, Keynesian model of income determination, concept of multipliers, Relevance and limitations of Keynesian economics to developing economy	10
	TOTAL od Readings:	40

Suggested Readings:

- 1. Dornbusch, Fischer and Startz, Macroeconomics, McGraw Hill, 11th edition, 2010.

- N. Gregory Mankiw. *Macroeconomics*, Worth Publishers, 7th edition, 2010.
 Olivier Blanchard, *Macroeconomics*, Pearson Education, Inc., 5th edition, 2009.
 Richard T. Froyen, *Macroeconomics*, Pearson Education Asia, 2nd edition, 2005.
- 5. Andrew B. Abel and Ben S. Bernanke, Macroeconomics, Pearson Education, Inc., 7th edition, 2011.

SEMESTER - IV MIC- 4: STATISTICAL METHODS IN ECONOMICS (Credit: 3)

Course Ou After the c	completion of the course, the student will be able to:	
CO1:	Learn the Basic Concepts of statistics and its application	
CO2:	Understand concept of probability.	
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Understand Elementary concepts of sampling. CO3: Understand the basic idea of index numbers. CO4:

Unit	Topics to be covered	No. of Lectures
1	Basic Statistics Measures of Central Tendency: Mean, Median Mode, Geometric Mean, Harmonic Mean; Measures of Dispersion: Mean Deviation, Quartile Deviation, Standard Deviation; Moments, Skewness, Kurtosis, Gini coefficient, Lorenz Curve, Bivariate Frequency Distribution: Simple Correlation and Linear Regression Analysis	20
2	Index Number Concept of Index Number, Laspeyre's, Paasche's and Fisher's Ideal Index Number, Tests for Ideal Index Number, Problems in Construction of Index Number, Applications: Cost of living index Number	10
3	Concept of Probability and Sampling: Sample space and events; probability axioms and properties; Concept of random variable, Addition and Multiplication Theorem, Concept of Sampling, Types of Sampling Methods, Concept and properties of an estimator.	10
	TOTAL	40

Suggested Readings:

- 1. Jay L. Devore, Probability and Statistics for Engineers, Cengage Learning, 2010.
- 2. John E. Freund, Mathematical Statistics, Prentice Hall, 1992.
- 3. Gupta S.P, Statistical Methods, S. Chand & Sons, New Delhi.
- 4. Richard J. Larsen and Morris L. Marx, An Introduction to Mathematical Statistics and its Applications,
- 5. Richard J. Larsen and Morris L. Marx, An Introduction to Mathematical Statistics and itsApplications, Prentice Hall, 2011.

SEMESTER- V MIC- 5: INTERMEDIATE MICROECONOMICS 1 (Credit: 3)

Course Outcomes

After the completion of the course, the student will be able to:

- Frame their budget according to their income and price constraint. Develop knowledge about how the prices are determined in different forms of market. CO1:
- CO2: Apply Demand and Supply Analysis to responses to Market.
- CO3:
- Deal with the concept of Consumer Behavior. CO4:

Unit	Topics to be covered	No. of Lectures
1	Ordinal Utility Analysis: a. Concept, Assumptions, Tools: Indifference curve and Budget line, income effect, substitution effect and price effect for normal and inferior goods, Slutsky Equation and Hicksian Substitution Effect; b. Revealed preference theory	15
2	Production, Costs and Revenue Analysis a. Production with one and more variable inputs; law of variable proportion, returns to scale, optimum factor combination, Production possibility curve, elasticity of substitution	
	 b. Traditional and Modern approaches to cost Behaviour of Cost and Revenue curves under different market conditions, Internal and external economies and diseconomies of scale, 	15
	c. Concept, assumptions and characteristics of different types of Production function: Linear and Cobb-Douglas Production Function,	
3	Perfect Competition and Monopoly	
	a. Review of perfect competition: features, price and output determination under perfect competition in short and long run, total and marginal approach.	10
	b. Monopoly: features, conditions for existence of monopoly, price and output determination under monopoly, price discrimination	
	TOTAL	40

- 1. Hal R. Varian, *Intermediate Microeconomics, a Modern Approach*, W.W. Norton and Company/Affiliated East-West Press (India), 8th edition, 2010. The workbook by Varian and Bergstrom may be used for problems.
- 2. C. Snyder and W. Nicholson, Fundamentals of Microeconomics, Cengage Learning (India), 2010.
- 3. B. Douglas Bernheim and Michael D. Whinston, Microeconomics, Tata McGraw-Hill (India), 2009.

SEMESTER - V MIC-6: INTERMEDIATE MACROECONOMICS (Credit - 3)

Course Outcomes

After the completion of the course, the student will be able to:

CO1: Develop a proper and in-depth understanding of variables dealing with the Macroeconomics.

CO2: Understand the basics of closed and open economy models.

CO3: Understand issues and concerns of the economy such as unemployment and inflation.

CO4: Understand the concept and function of Money and Determination of Money supply and demand.

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Unit	Topics to be covered	No. of Lectures
1	The Closed Economy Macroeconomics Classical Macroeconomics: Money, prices and interest, Keynesiansystem: money, interest and income, IS-LM model, policy effects, Analysis of Business cycle: phases of business cycle, theories of business cycle: Hawtrey, Keynes, Samuelson, and Hicks.	20
2	Inflation, Unemployment and Expectations Inflation its types and causes; cost of inflation. Unemployment: concept, types, measurement and effect on different sections of society, Philips curve, policy implications.	10
3	The Open Economy Macroeconomics Short-run open economy models; Mundell-Fleming Model, Exchange Rate concept, types and theories of determination.	10
	TOTAL	40

- 1. Dornbusch, Fischer and Startz, Macroeconomics, McGraw Hill, 11th edition, 2010.
- 2. N. Gregory Mankiw. *Macroeconomics*, Worth Publishers, 7th edition, 2010.
- 3. Olivier Blanchard, Macroeconomics, Pearson Education, Inc., 5th edition, 2009.
- 4. Steven M. Sheffrin, Rational Expectations, Cambridge University Press, 2ndedition, 1996.
- 5. Andrew B. Abel and Ben S. Bernanke, Macroeconomics, Pearson Education, Inc., 7th Edition, 2011.
- 6. Errol D'Souza, Macroeconomics, Pearson Education, 2009
- Paul R. Krugman, Maurice Obstfeld and Marc Melitz, International Economics, Pearson Education Asia, 9th edition, 2012.

SEMESTER - VI MIC - 7: INDIAN ECONOMY (Credit - 3)

After the completion of the course; the student will be able to:

- CO1: Examine sector-specific policies and their impact in shaping trends in key economic indicators in India.
- CO2: Evaluate the Indian Empirical evidence
- CO3: Analyze the rapid Economic changes taking place in the economy
- CO4: Learn about the role of agriculture and industry in Economic development and their performancein Indian perspective.

Unit	Topics to be covered	No. of Lectures
	Economic Development since Independence Characteristics of Indian Economy, Main features of the economy at independence; Structural change, growth and development under different policy regimes—goals, constraints, institutions and policy framework; an assessment of sectoral performance, sustainability and regional contrasts; structural change, trends of savings and investment.	10

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2	Indian Agriculture, Industry and Service Sector Importance of Agriculture in Indian economy, Problems in Indian Agriculture and their possible solutions, Efforts by the Government for upliftment of Indian Agriculture, Land Reforms; Green and Rainbow Revolution; Industrial policies in India since independence, Importance of small scale industries in India, problems, remedies, industrial sickness in India, Services Sector: growth and Present status, Foreign Trade in India - Composition and Direction	20
3	Bihar Economy: Demographic features, Poverty and Unemployment, Growth and problems of Farm sector, Development of Industrial sector, Major policy initiatives for development.	10
	TOTAL	40

1. Shankar Acharya, 2010, -Macroeconomic Performance and Policies 2000-8, in Shankar Acharya and Rakesh Mohan, editors, *India's Economy: Performances and Challenges: Development and Participation*, Oxford University Press.

2. Rakesh Mohan, 2010, -India's Financial Sector and Monetary Policy Reforms, in Shankar Acharya and Rakesh Mohan, editors, *India's Economy: Performances and Challenges: Development and Participation*, Oxford University Press.

3. Pulapre Balakrishnan, Ramesh Golait and Pankaj Kumar, 2008, -Agricultural Growth in India Since 1991, RBI DEAP Study no. 27.

4. Kunal Sen, 2010, -Trade, Foreign Direct Investment and Industrial Transformation in India, in Premachandra Athukorala, editor, *The Rise of Asia*, Routledge.

SEMESTER - VI MIC 8: INTERMEDIATE MICROECONOMICS 2 (Credit - 3)

After the completion of the course, the student will be able to:

CO1: Differentiate between Partial and General Equilibrium

CO2: Analyse the behavior patterns of different economic agents and market situations

CO3: Understand Imperfect Competition and Distribution theory

CO4: Learn about Externalities and Market Failure

Unit	Topics to be covered	No. of Lectures
The Sec	Imperfect Markets Imperfect markets: Common features, price and output determination in monopolistic competition, various approaches to price and output determination under Oligopoly-classical models of oligopoly: duopoly Cournot Model, collusive oligopoly: cartel and price leadership, basic idea of kinked demand curve.	15

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2	Distribution Theory (Pricing of Factors) Concepts of factor productivity, Marginal Revenue Product (MRP) and Value of Marginal Product (VMP), pricing of factors in perfect and imperfect market, Marginal productivity theory of distribution, Euler's theorem, theories of rent, interest and profit.	10
3	General Equilibrium, Efficiency and Welfare Concept of Partial and General Equilibrium, Welfare concept, Walrasian General Equilibrium, concept and conditions of Pareto Optimality, perfect competition and Pareto Optimality, Externalities in production and consumption, Public Goods, Concept and causes of market failure, correction of market failure.	15
	TOTAL	40

- 1. Hal R. Varian, Intermediate Microeconomics, a Modern Approach, W.W. Norton and Company/Affiliated East-West Press (India), 8th edition, 2010. The workbook by Varian and Bergstrom may be used for problems.
- 2. C. Snyder and W. Nicholson, Fundamentals of Microeconomics, Cengage Learning (India), 2010.
- 3. B. Douglas Bernheim and Michael D. Whinston, Microeconomics, Tata McGraw-Hill (India), 2009.
- 4. A. Ahsan, C. Pages and T. Roy, 2008, -Legislation, Enforcement and Adjudication in Indian Labour Markets: Origins, Consequences and the Way Forward, in D. Mazumdar and S. Sarkar, editors, Globalization, Labour Marketsand Inequality in India, Routledge.
- 5. Dipak Mazumdar and Sandeep Sarkar, 2009, -The Employment Problem in India and the Phenomenon of the Missing Middle, Indian Journal of Labour Economics.
- 6. J. Dennis Rajakumar, 2011, -Size and Growth of Private Corporate Sector in Indian Manufacturing,
- 7. Economic and Political Weekly, April.

SEMESTER - VII MIC - 9: PUBLIC FINANCE (Credit - 4)

Course Outcomes

After the completion of the course, the student will be able to:

CO1: Understand the importance of Public finance

CO2: To understand the implications of fiscal policy

CO3: To analyse the trends and composition of public expenditure in India

CO 4: To understand the importance of Fiscal Federalism

Unit	Topics to be covered	No. of Lectures
1.	Introduction to Public Finance Public Finance: Meaning, Nature, Scope and Importance; difference between Private and Public Finance; Principle of Maximum Social Advantage; Role of State in Public Finance. Fiscal functions of State: Allocation, Distribution, Economic Growth and Stabilisation.	15

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2.	Sources of Revenue Taxes, loans, grants and aid – meaning and types, canons/ principles of taxation, problem of justice in taxes, incidence of taxation, taxable capacity; characteristics of Indian tax system.	10
3.	Public Expenditure and Debt Principle of Public Expenditure; Principle of Public Debt and its Methods of Redemption; Effects of Public Expenditure on Production and Distribution; Public Debt in India.	10
4,	Public Finance in India Sources of Revenue of Central Government ,State Government and Local Bodies; Concept and Types of Budget, Fiscal Deficit, Deficit Financing and Deficit Budget, Financial relation between Central and State; Finance commission; Fiscal Policy.	15
	TOTAL	50

- 1. J. Hindriks, G. Myles: Intermediate Public Economics, MIT Press, 2006.
- 2. H. Rosen, T. Gayer: Public Finance, 9th edition, McGraw-Hill/Irwin, 2009.
- 3. Joseph E. Stiglitz, Economics of the Public Sector, W.W. Norton & Company, 3rd edition, 2000
- 4. R.A. Musgrave and P.B. Musgrave, Public Finance in Theory & Practice, McGraw Hill Publications, 5th edition, 1989
- 5. Harvey Rosen, Public Finance, McGraw Hill Publications, 7th edition, 2005.
- 6. A. Ghosh and C. Ghosh: Public Finance, PHI Learning, 2014.
- 7. Shankar Acharya, 2005 Thirty Years of Tax Reform in India, Economic and Political Weekly, May 14-20.
- 8. Report of the 14th Finance Commission, 2015-20.
- 9. Economic Survey, Government of India (Latest).
- 10. State Finances: A Study of Budgets, Reserve Bank of India (Latest).

SEMESTER - VIII MIC - 10: INTERNATIONAL ECONOMICS (Credits - 4)

Course Outcomes

After the completion of the course, the student will be able to:

- CO1: Analyze the issues related to BoP, exchange rates and direction of trade.
- CO2: Describe micro-foundations of the various aggregates of International Economics
- CO3: Explain different International trade theories
- CO4: Learn about different International Institutions and their relevance for Indian Economy.

Unit	Topics to be covered	No. of Lectures
1	Introduction Nature and scope of International Economics, trade surpluses and deficits, the economic basis of trade, terms of trade, Gains from trade, Instruments of trade policy and their impact on international trade, trade barriers (quantitative and qualitative): tariffs, subsidies and quotas, free trade vs. protection: case for free trade, case for protection.	15

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2.	Theories of International Trade Absolute and Comparative advantage, Opportunity cost theory, Ricardian and Heckscher-Ohlin Model, Leontief's Paradox, Immiserising Growth and the Transfer Problem.	10
3	Exchange rate and BoP Concept and types of Exchange rate, Theories of Exchange rate determination, fixed vs. flexible exchange rate, factors affecting exchange rate, impact of exchange rate on economy, market for foreign exchange, Review of Balance of Payment (BoP) accounting, components of BoP: current and capital account, Disequilibrium of BoP: causes and methods of correction, Adjustment mechanisms, Internal and external balance, Elasticity, Absorption and Monetary Approach to BoP.	18
4	International Institutions: WTO, IMF, World Bank, ADB, New Development Bank: Objectives, principles and functions.	7
	TOTAL	50

Paul Krugman, Maurice Obstfeld, and Marc Melitz, International Economics: Theory and Policy, Addison-Wesley (Pearson Education Indian Edition), 9th edition, 2012.

2. Dominick Salvatore, *International Economics: Trade and Finance*, John WileyInternational Student Edition, 10th edition, 2011.

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SEMESTER - I MDC-1: INTRODUCTORY MICROECONOMICS (Credit: 3)

After the completion of the course, the students will be able to:

CO1: Use microeconomic concepts such as saving and investment in their real life situations.

CO2: Understand the profit making techniques used by different businesses or firms

CO3: Grasp the basic concepts of Microeconomics such as Laws of Demand, Supply and Elasticity

CO4: Apply Indifference Curve Analysis in Deriving Demand curve Income and Substitution Curve

Unit	Topics to be covered	No. of Lectures
I	Exploring the subject matter of Economics: Definition of Economics, Need, Scope and Methods of Economics, Nature and subject matter of Economics, Problem of scarcity and choice, Central Problems of Economy.	10
2	Supply and Demand: (a) concept and types of demand, Determinants of individual demand/supply; demand and demand function, theory of demand and law of demand and supply, exceptions to law of demand, demand/supply schedule and demand/supply curve; demand for complementary and substitute goods, market versus individual demand/supply; shifts in the demand/supply curve, demand and supply together, elasticity of demand and supply, determinants, measurement and application, static and dynamic demand, consumer surplus	18
3	The Theory of Consumer Behaviour: Cardinal approach: Law of Diminishing Marginal Utility, Law of Equi-Marginal Utility, Consumer's Equilibrium. Ordinal Approach: Indifference Curve- meaning and properties, Consumer's Equilibrium with the help of Indifference curve.	12
	TOTAL	40

Suggested Readings:

1. Karl E. Case and Ray C. Fair, Principles of Economics, Pearson Education Inc., 8 th Edition,

2. N. Gregory Mankiw, Economics: Principles and Applications, India edition by South-western, a part of Cengage Learning, Cengage Learning India Private Limited, 4 th edition, 2007.

3. Joseph E. Stiglitz and Carl E. Walsh, Economics, W.W. Norton & Eamp; Company, Inc., New York, International Student Edition, 4 th Edition, 2007.

SEMESTER - II MDC- 2: INTRODUCTORY MACROECONOMICS (Credit: 3)

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3	The Closed Economy in the Short Run Classical and Keynesian systems; simple classical system of output and employment, Keynesian model of income determination, concept of multipliers, Relevance and	10
	Money and Banking Functions of money; quantity theory of money; Central banking: history, objectives, functions, relevance, performance, tools of monetary policy; Concept and history of commercial banking - functions, distribution of assets and credit creation.	15
	Introduction to Macroeconomics and National Income Accounting The Origin and Roots of Macroeconomics, Need and relevance of Macroeconomics, Scope of the Subject, Macroeconomic concerns and issues ,the Role of Government in Macroeconomics ,the components of Macroeconomics ,the methodology to macroeconomics, Circular flow of Income, The Concepts of National income: GDP, GNP, NNP, NNP at factor cost, Personal income, private income and personal disposable income, approaches to calculating GDP, Nominal and real GDP, Green GDP	15

Dombusch, Fischer and Startz, *Macroeconomics*, McGraw Hill, 11th edition, 2010.
 N. Gregory Mankiw. *Macroeconomics*, Worth Publishers, 7th edition, 2010.
 Olivier Blanchard, *Macroeconomics*, Pearson Education, Inc., 5th edition, 2009.
 Richard T. Froyen, *Macroeconomics*, Pearson Education Asia, 2nd edition, 2005.

5. Andrew B. Abel and Ben S. Bernanke, Macroeconomics, Pearson Education, Inc., 7th edition, 2011.

SEMESTER - III MDC - 3: INDIAN ECONOMY (Credit - 3)

After the completion of the course, the student will be able to:

CO1: Examine sector-specific policies and their impact in shaping trends in key economic indicators in India.

CO2: Evaluate the Indian Empirical evidence

CO3: Analyze the rapid Economic changes taking place in the economy

CO4: Learn about the role of agriculture and industry in Economic development and their performance in Indian perspective.

Unit	Topics to be covered	No. of Lectures
1	Economic Development since Independence Characteristics of Indian Economy, Main features of the economy at independence; Structural change, growth and development under different policy regimes—goals, constraints, institutions and policy framework; an assessment of sectoral performance, sustainability and regional contrasts; structural change, trends of savings and investment.	10
2	Indian Agriculture, Industry and Service Sector Importance of Agriculture in Indian economy, Problems in Indian Agriculture and their possible solutions, Efforts by the Government for upliftment of Indian Agriculture, Land Reforms; Green and Rainbow Revolution; Industrial policies in India since independence, Importance of small scale industries in India, problems, remedies, industrial sickness in India, Services Sector: growth and Present status, Foreign Trade in India - Composition and Direction	20
3	Bihar Economy: Demographic features, Poverty and Unemployment, Growth and problems of Farm sector, Development of Industrial sector, Major policy initiatives for development.	10
	TOTAL	40

Suggested Readings:

 Shankar Acharya, 2010, -Macroeconomic Performance and Policies 2000-8, in Shankar Acharya and Rakesh Mohan, editors, India's Economy: Performances and Challenges: Development and Participation, Oxford University Press.

 Rakesh Mohan, 2010, -India's Financial Sector and Monetary Policy Reforms, in Shankar Acharya and Rakesh Mohan, editors, India's Economy: Performances and Challenges: Development and Participation, Oxford University Press.

 Pulapre Balakrishnan, Ramesh Golait and Pankaj Kumar, 2008, -Agricultural Growth in India Since 1991, RBI DEAP Study no. 27.

4. Kunal Sen, 2010, -Trade, Foreign Direct Investment and Industrial Transformation in India, in Premachandra Athukorala, editor, *The Rise of Asia*, Routledge.

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