BoS/EC/05/2025

As per NEP 2020

SRDSP Mandal's

Shri Pancham Khemraj Mahavidyalaya, Sawantwadi-416510 (Autonomous)

Affiliated to University of Mumbai

Title of the Programme - Arts

<u>P.G. (Economics)</u>

A- P.G. Diploma in **Economics**- 2023-24

B- M.A. **Economics** Two Year- 2023-24

C- M.A. **Economics** One Year- 2027-28

Syllabus for

Semester- Sem I & II

Ref: GR dated 16th May, 2023 for Credit Structure of PG

As per NEP 2020)

Sr. No.	Heading		Particulars
1	**Title of program** **O:______________A**	**A**	Title of the program P.G. Diploma in Economics
	O:______________B	**B**	M.A. Degree in Economics (Two Year)
	O:______________C	**C**	M.A. Degree in Economics (One Year)
2	**O:______________A** **Eligibility**	**A**	3 Yr UG Degree with Economics
	O:______________B **Eligibility**	**B**	3 Yr UG Degree with Economics
	O:______________C **Eligibility**	**C**	Graduate with 4-year UG Degree (Honours, Honours with Research) with Specialization in concerned subject or equivalent academic level 6.00 OR Graduate with four years UG Degree program with maximum credits required for award of Minor degree are allowed to take up the Postgraduate program in Minor subjects provided the student has acquired the required number of credits as prescribed by the concerned Board of Studies.
3	**R:________________Duration of program**		One Year (Diploma) Two Year (Degree) One Year (Degree)
4	**R:________________Intake Capacity**		**10**
5	**R:_______________Scheme of Examination**		NEP 50% Internal 50% External, Semester End Examination Individual Passing in Internal and External Examination
6	**R:** **__________________Standard s of Passing**	**40%**	
7	**Credit Structure** **R:**	**Attached herewith (Please Refer Point 5)**	
8	**Semesters**	**A**	**Sem I & II**

		B	Sem I, II, III & IV
		C	Sem I & II
9	Program Academic Level	A	6.0
		B	6.0
		C	6.5
10	Pattern	Semester	
11	Status	New	
12	To be implemented from Academic Year	A	2023-24
		B	
		C	2027-28

Sign of HOD / Co-ordinator **Sign of Dean**

Asso. Prof. N. D. Dhuri **Faculty of Arts**

Department of Economics

SHRI PANCHAM KHEMRAJ MAHAVIDYALAYA SAWANTWADI (Autonomous)

DEPARTMENT OF ECONOMICS

(To be implemented from Academic Year 2026-27)

Program: Certificate Course **Class: M.A. (I)** **Semester: I**

Sr. No	Course Code	Title of the Course	Category of Course	No. of Lecture Hours	No. of Lectures per Unit	Teaching Hours per week (L+P)	SEE	CIE	Total Marks	No. of Credits
1	PGA101ECT	MICRO ECONOMICS – I	Mandatory	60	15	04+00	60	40	100	4
2	PGA102ECT	MACRO ECONOMICS – I	Mandatory	60	15	04+00	60	40	100	4
3	PGA103ECT	INDIAN ECONOMY	Mandatory	60	15	04+00	60	40	100	4
4	PGA104ECT	INDUSTRIAL ECONOMICS - I	Elective	30	10	02+00	30	20	50	2
5	PGA105ECT	AGRICULTURAL ECONOMICS OR	Mandatory	60	15	04+00	60	40	100	4
6	PGA106ECT	ECONOMICS OF LABOR MARKET								
7	PGA107ECT	RESEARCH METHODOLOGY	Mandatory	60	15	04+00	60	40	100	4
	Sub - Total			330	85	22+00	330	220	550	22

Sign of HOD / Co-ordinator **Sign of Dean**

Asso. Prof. Neelam Devendra Dhuri **Faculty of Arts**

Department of Economics

SHRI PANCHAM KHEMRAJ MAHAVIDYALAYA SAWANTWADI (Autonomous)

DEPARTMENT OF ECONOMICS

(To be implemented from Academic Year 2026-27)

Program: Certificate Course **Class: M.A. (I)** **Semester: II**

Sr. No.	Course Code	Title of the Course	Category of Course	No. of Lecture Hours	No. of Lectures per Unit	Teaching Hours per week (L+P)	SEE	CIE	Total Marks	No. of Credits
1	PGA108ECT	PUBLIC ECONOMICS	Mandatory	60	15	04+00	60	40	100	4
2	PGA109ECT	INTERNATIONAL TRADE, THEORY & POLICY	Mandatory	60	15	04+00	60	40	100	4
3	PGA110ECT	ECONOMICS OF HUMAN DEVELOPMENT	Mandatory	60	15	04+00	60	40	100	4
4	PGA111ECT	INDUSTRIAL ECONOMICS - II	Elective	30	10	02+00	30	20	50	2
5	PGA112ECT	FINANCIAL ECONOMICS OR INTERNATIONAL FINANCE	Mandatory	60	15	04+00	60	40	100	4
6	PGA113ECT									
7	PGA114ECP	FP	Mandatory	60	15	04+00	60	40	100	4
	Sub - Total			330	85	22+00	330	220	550	22

Sign of HOD / Co-ordinator **Sign of Dean**

Asso. Prof. Neelam Devendra Dhuri **Faculty of Arts**

Department of Economics

SHRI PANCHAM KHEMRAJ MAHAVIDYALAYA,SAWANTWADI(Autonomous)

Credit Structure for 4 Years Honours/ Honours with Research Degree Program with ME-ME B.A

For Faculty of ARTS (M1 M2 M3)

Credit Structure of the Program Arts Faculty

Academic Level	Semester	Major (M1)	Major (M2)	Major (M3)	Minor	OE other Faculty	VSC, SEC (Related to core)	AEC, IKS, VEC	OJT, FP, CEP, CC, RP	Cum Cr/semester	Degree/ Cumm Cr
4.5	I	4	4	4	--	----	VSC(2) SEC(2)	AEC(2), VEC(2), IKS(2)	----	22	UG Certificate 44
	II	4	4	4	--	OE-1 (2)	VSC(2) SEC(2)	AEC(2)	CC(2)	22	
Exit Option Award of UG Certificate in Major with 44 Credits and additional 4 credits core NSQF Course/ Internship or continue with Major and Minor											
5.0	III	4	4	----	----	OE-2 & 3 (4)	VSC(2) SEC(2)	AEC(2) VEC(2)	CC (2)	22	UG Diploma 88
	IV	4	4	----	---	OE-4 & 5 (4)	VSC(2) SEC(2)	AEC(2)	CC(2),FP (2)	22	
Exit Option Award of UG Diploma in Major with 88 Credits and additional 4 credits core NSQF Course/ Internship or continue with Major and Minor											
5.5	V	Mandatory 4 + 4 + 4 + 4 Elective 4	---	---	02	---	---	---		22	UG Degree 132
	VI	Mandatory 4 + 4 + 4 + 4 Elective 4	---	---	--	---	---	---	OJT/RP-2 (2)	22	
Exit option: Award of UG Degree in Major and Minor with 132 Credits of continue with Major and Minor											
6.0	VII	Mandatory 4+ 4 + 4 +2 Elective 4	RM (4)	---	---	---	---	---	---	22	UG Honours Degree 176
	VIII	Mandatory 4 + 4 + 4 +2 Elective 4	---	---	----	---	---	---	OJT/RP(4)	22	
Four Year UG Honours with Honours Degree in Major and Minor with 176 credits											
6.0	VII	Mandatory 4+ 4 + 4 +2 Elective 4	RM (4)	---	---	---	---	---	---	22	UG Honours with Research Degree 176
	VIII	Mandatory 4 + 4 + 4 +2 Elective 4	---	---		---	---	---	OJT/RP(4)	22	

Title of the program

(Sem. I)

This syllabus is applicable for -

P. G. Diploma in Economics (Duration 1 Year) **(Total Credits: 44)**

(Eligibility: After Three-Year UG Degree in **Economics**)

P. G. Degree in Economics (Duration: 2 Years) **(Total Credits: 88)**

(Eligibility: After Three-Year UG Degree in **Economics**)

P. G. Degree in Economics (Duration 1 Year) **(Total Credits: 44)**

(Eligibility: After Four-Year UG Degree in **Economics**)

Certificate Course in M.A. Syllabus as per NEP 2020

To be implemented from the Academic year 2026-27

Preamble

1. Introduction:

The aim of the Programme is to equip students with skills and research potential to contribute for nation building.

1. Understand the problems confronting the Indian economy
2. Provide the knowledge on micro and macro approaches in Economics
3. Enable them to use the tools required for data analysis

1. Aims and Objectives:

To provide proper understanding on economic theory and its applications in the context of Indian Economy.

2. Learning Outcomes:

LO1: Make the students aware of the challenges facing Indian economy and to enable them to suggest policy measures.

LO2: Understanding on economic theory and its applications

LO3: Provide them the knowledge on computer applications and hands- on experience.

1. Any other point (if any):

The MA Programme will help the students to make significant contributions to academics and policy making at he loca, national and global level.

SYLLABUS

M.A. (ECONOMICS)

SEMI – I

SHRI PANCHAM KHEMRAJ MAHAVIDYALAYA SAWANTWADI (Autonomous)

DEPARTMENT OF ECONOMICS

(To be implemented from Academic Year 2026-27)

Program: Certificate Course **Class: M.A. (I)** **Semester: I**

Sr. No	Course Code	Title of the Course	Category of Course	No. of Lecture Hours	No. of Lectures per Unit	Teaching Hours per week (L+P)	SEE	CIE	Total Marks	No. of Credits
1	PGA101ECT	MICRO ECONOMICS – I	Mandatory	60	15	04+00	60	40	100	4
2	PGA102ECT	MACRO ECONOMICS – I	Mandatory	60	15	04+00	60	40	100	4
3	PGA103ECT	INDIAN ECONOMY	Mandatory	60	15	04+00	60	40	100	4
4	PGA104ECT	INDUSTRIAL ECONOMICS - I	Elective	30	10	02+00	30	20	50	2
5	PGA105ECT	AGRICULTURAL ECONOMICS OR	Mandatory	60	15	04+00	60	40	100	4
6	PGA106ECT	ECONOMICS OF LABOR MARKET								
7	PGA107ECT	RESEARCH METHODOLOGY	Mandatory	60	15	04+00	60	40	100	4
	Sub - Total			330	85	22+00	330	220	550	22

Sign of HOD / Co-ordinator **Sign of Dean**

Asso. Prof. Neelam Devendra Dhuri **Faculty of Arts**

Department of Economics

Certificate Course in Arts Syllabus as per NEP 2020

To be implemented from the Academic year 2026-27

(Mandatory Course) PGA101ECT: Economics

MICRO ECONOMICS – I

1. Syllabus as per NEP 2020:		
i) Name of the Program	:	**Certificate Course in Arts**
ii) Course Code	:	**(Mandatory Course) PGA101ECT**
iii) Course Titles	:	**Micro Economics - I**
iv) Credit Structure	:	**No. of Credits per Semester - 04**
v) No. of lectures per Unit	:	**15**
vi) No. of lectures per week	:	**04**
2. Scheme of Examination	:	• **Written Exam: 4 Questions of 15 Marks each : 60 Marks** • **Internal Assessment: 40 marks Total : 60 + 40 =100**

Syllabus as per NEP 2020 for Certificate Course in Arts

To be implemented from the Academic year 2026-27

(Mandatory Course) PGA101ECT: Economics

Course Title: MICRO ECONOMICS – I

Sr. No.	Heading	Particulars
1.	**Description of the Course:**	This course is designed to introduce students to economic theories and their application. The student should be able to use these concepts to understand the relevance of microeconomics to the real world and develop a deeper understanding of its relevance in decision-making.
2.	**Vertical:**	Mandatory Major Course
3.	**Type:**	Theory
4.	**Credit:**	4 Credits
5.	**Hours Allotted:**	60 Hours
6.	**Marks Allotted**:	100 Marks
7.	**Course Objectives :** The paper aims to develop an understanding of the basic mocroeconomic theory that has application in diffirent areas. While completing the course the students are expected to be familiar with basic microeconomic theory and acquire analytical skills to analyse problem of economic policy. For strengthening the understanding of students, examples and exersises would be provided.	
8.	**Course Outcomes :** CO 1 : Develop a nuanced understanding of consumer and firm. CO 2 : Provide students with the necessary theoritical and analytical tools to study problems of economic policy	

Certificate Course in Arts Syllabus as per NEP 2020

To be implemented from the Academic year 2026-27

(Mandatory Course) PGA101ECT : Economics

MICRO ECONOMICS – I

Credits : 04 **Course Code: PGA101ECT**

Course Code	Units	Topics	Lectures
PGA101ECT	**I**	**Consumer Behaviour:** Preference ordering, the feasible set, Consumption decision, Comparative statics, Price and Income effects, Measuring the benefits of price change, Utility maximization problem, Consumer Behavior in Rural & Coastal Markets, Demand Patterns in Fish, Cashew, Mango, Coconut Markets, Digital Consumer Behavior (UPI-based purchasing)	**15**
	II	**Production, Cost and Supply:** Production function : properties and types, cobb-Douglas, Elasticity of substitution, variations in scale, Variations in input proportions, Cost : Cost minimization : Long run and short run, Cost function, Relation between long run and short run costs, Supply : Profit maximization and firm supply, Long run supply function, profit function, Production in Agriculture, Horticulture & Fishing Sectors, Cost Structure in Small-Scale Local Units (Cashew factories, Coir units), Role of Technology in Coastal Production (cold storage, transport, etc.).	**15**
	III	**Theory of Competitive Markets:** Market demand and market supply curve, short run market equilibrium, stability of equilibrium: Competition in Local Markets (fish, vegetable, tourism markets), Market structures in rural areas, Price formation, Marshallian approaches, long run market equilibrium.	**15**
	IV	**General Equilibrium and Welfare Economics:** Walrasian general equilibrium of a competitive economy, Local Welfare Schemes (ZP schemes, fishing subsidies, agriculture schemes), Rural Poverty & Welfare Indicators, Market Failures in Tourism & Coastal Resource Use, Pareto criterion, Externalities and market failure.	**15**

References:

1. Das S. P. (2007) : Microeconomics for Business, Sage, New Delhi.

2. Gravelle H. and Rees R. (2004) : Microeconomics, 3rd, Edition, Pearson Edition Ltd. New Delhi.

3. Jehle, G. A. and P. J. Reny (2006) : Advanced Microeconomic Theory, 2nd Edition, Pearson Education, New Delhi.

4. Tandon P. (2015) : A Textbook of Microeconomics Theory, Sage, New Delhi.

5. Varian H (2000) : Intermediate Microeconomics : A Modern Approach, 8th Edition and W. W. Noryonand Company.

6. Varian H. B. (1992) : Microeconomic Anaysis, 3rd Edition W. W. Norton and Company.

Certificate Course in Arts Syllabus as per NEP 2020

To be implemented from the Academic year 2026-27

(Mandatory Course) PGA102ECT : Economics

MACRO ECONOMICS – I

1. Syllabus as per NEP 2020:		
i) Name of the Program	:	**Certificate Course in Arts**
ii) Course Code	:	**(Mandatory Course) PGA102ECT**
iii) Course Titles	:	**MACRO ECONOMICS – I**
iv) Credit Structure	:	**No. of Credits per Semester - 04**
v) No. of lectures per Unit	:	**15**
vi) No. of lectures per week	:	**04**
2. Scheme of Examination	:	• **Written Exam: 4 Questions of 15 Marks each : 60 Marks** • **Internal Assessment: 40 marks Total : 60 + 40 =100**

Syllabus as per NEP 2020 for Certificate Course in Arts

To be implemented from the Academic year 2026-27

(Mandatory Course) PGA102ECT: Economics

Course Title: MACRO ECONOMICS – I

Sr. No.	Heading	Particulars
1.	**Description of the Course:**	This course covers topics like national income, consumption, investment, inflation, business cycles, and monetary economics as it dives into more complex macroeconomic ideas. Learn how these elements interact to shape national economies, comprehend economic policies, and identify trends that are important for formulating sound policies and making decisions.
2.	**Vertical:**	Mandatory Major Course
3.	**Type:**	Theory
4.	**Credit:**	4 Credits
5.	**Hours Allotted:**	60 Hours
6.	**Marks Allotted**:	100 Marks
7.	**Course Objectives :** This paper is designed to provide in-depth knowledge of varied concepts of Macroeconomics. The contents of the paper throw light on a range of issues like national income, social accounting, consumption expenditure, investment analysis, inflation, trade cycle as well as money supply and demand for money.	
8.	**Course Outcomes :** CO 1 - The learners can enhance their understanding of concepts like national income and social accounting, consumption expenditure, and investment analysis. CO 2 - Students acquire knowledge on issues like inflation, trade cycle as well as money supply and demand for money	

Certificate Course in Arts Syllabus as per NEP 2020

To be implemented from the Academic year 2026-27

(Mandatory Course) PGA102ECT : Economics

MACRO ECONOMICS – I

Credits : 04 **Course Code : PGA102ECT**

Course Code	Units	Topics	Lectures
PGA102ECT	I	**National Income and Social Accounting:** National Income Accounting Concepts, Circular flow, accounting identities, Inflation and price indices. Social accounting- Concepts, Features, and types of social accounts, National income and Product accounts, Methods of Measuring National Income (GDP, GNP, NNP, PCI), National Income Trends in India - with examples from Coastal & Rural Economy, Informal Sector & National Income.	15
	II	**Consumption Expenditure and Investment Analysis:** Absolute income hypothesis; Relative income hypothesis; Rural Household Consumption Patterns (Konkan region focus) Factors affecting Investment in Small-Scale Sectors Tourism & Agriculture-based Investment in Sindhudurg, Investment-Types of Investment- Determinants of Investment -Marginal efficiency of capital (MEC)-Supply price of capital (SP), Prospective yield of capital (PY)	15
	III	**Inflation and Trade Cycles:** Theories of Inflation: Demand-pull and Cost-push, Keynesian Theory, Inflation and GDP, Inflation and interest rates - Trade cycles, Anti cyclical policy, Theories of Trade Cycles – Schumpeter and Samuelson, Impact of Inflation on Rural Farmers & Fishermen, Price fluctuations in agricultural & fish markets, Local seasonal trade cycles (Tourism season, Mango/Cashew season)	15
	IV	**Supply and Demand for Money:** Components of money supply; Measures of money supply: M1, M2, M3, and M4- Determinants of Money Supply- Classical approach, Cambridge approach, Keynesian approach, Liquidity preference theory, Portfolio theories of money demand - Portfolio balance Approach: Digital Payments & UPI in Rural Economy, Role of Co-opera+ Banks in Konkan, Money Supply Issues in Rural Markets, Milton Friedman's Approach.	15

References:

1. Dornbusch, Fisher, Stratz, macroeconomics, (Revised Edition) Tata Mcgraw – Hill. New Delhi..

2. Ahuja H. L. Macroeconomics Theory and Policy S. Chand and Co. Ltd. New Delhi.

3. Froyen R. T. Macroeconomics (7^{th} Edition) Pearson Education New Delhi.

4. Mankiw N. G. Macroeconomics (Revised Edition) Worth Publications new York.

5. Carlin W and S David Macroeconomics, Oxford University Prss.

6. Errol D’Souza Macroceonomics, Pearson Education India – 2009 .

Certificate Course in Arts Syllabus as per NEP 2020

To be implemented from the Academic year 2026-27

(Mandatory Course) PGA103ECT : Economics

INDIAN ECONOMY

1. Syllabus as per NEP 2020:		
i) Name of the Program	:	**Certificate Course in Arts**
ii) Course Code	:	**(Mandatory Course) PGA103ECT**
iii) Course Titles	:	**INDIAN ECONOMY**
iv) Credit Structure	:	**No. of Credits per Semester - 04**
v) No. of lectures per Unit	:	**15**
vi) No. of lectures per week	:	**04**
2. Scheme of Examination	:	• **Written Exam: 4 Questions of 15 Marks each : 60 Marks** • **Internal Assessment: 40 marks Total : 60 + 40 =100**

Syllabus as per NEP 2020 for Certificate Course in Arts

To be implemented from the Academic year 2026-27

(Mandatory Course) PGA103ECT: Economics

Course Title: INDIAN ECONOMY

Sr. No.	Heading	Particulars
1.	**Description of the Course:**	This course offers a comprehensive examination of the Indian economy, highlighting its particular developmental constraints. Students examine economic growth, sectoral policies, and government initiatives meant to promote equitable and sustainable development in India through case studies in a variety of industries
2.	**Vertical:**	Mandatory Major Course
3.	**Type:**	Theory
4.	**Credit:**	4 Credits
5.	**Hours Allotted:**	60 Hours
6.	**Marks Allotted**:	100 Marks
7.	**Course Objectives :** The paper aims to build strong fundamentals for the varied challenges confronting the Indian economy with special reference to its developmental challenges. Wherever possible an effort is made to incorporate the discussion on relevant case studies in different sectors of the economy.	
8.	**Course Outcomes :** Students get familiarized with the sectoral issues to be tackled with the Indian perspective. Generate awareness of the solutions to deal with the development challenges of the Indian economy in the 21st-century globalized world.	

Certificate Course in Arts Syllabus as per NEP 2020

To be implemented from the Academic year 2026-27

(Mandatory Course) PGA103ECT : Economics

INDIAN ECONOMY

Credits : 04 **Course Code : PGA103ECT**

Course Code	Units	Topics	Lectures
PGA103ECT	**I**	**Characteristics of Indian Economy:** Features and Characteristics of the Indian Economy, Trends and Structure, Demographic features, National income, Growth and Coastal Economy of India - Importance and Features, Poverty, inequality and Role of Tourism in Regional Development (With reference to Sindhudurg)	**15**
	II	**Infrastructure and Human Development:** Energy; Conventional and Konkan Railway, Roads & Port Infrastructure - Impact on Local Economy development in India, Energy Policy, Social infrastructural developments; Education and Health, Skill Development & Employment Opportunities in Sindhudurg; Concept and Measurement.	**15**
	III	**Industry and FDI:** Industrial Profile of India - Private Sector, Large, Medium, and Small-Scale Industries, Village Industries, Public Sector, Role and Problems of Public Sector Industries, Small-scale and cottage industries in India-SMEs in India. Recent trends in Industrial growth. Small-scale Industries in Sindhudurg - Cashew, Kokum, Fish Processing, exit policy, Impact of Globalization: Trends and pattern of FDI in India; Trends and pattern of Indian industry abroad, Local Entrepreneurship Development, Industrial Combinations; Causes, Mergers & Amalgamations.	**15**
	IV	**The Agricultural Sector:** Agricultural Production and Productivity issues, Horticulture in Konkan - Mango, Cashew, Kokum, land reforms in India, technological change in agriculture, Organic Farming & Allied Activities (Beekeeping, Fisheries); Terms of trade between agriculture and industry, Agricultural finance policy, Agricultural Marketing and Warehousing, Issues in food security, Policies for sustainable agriculture.	**15**

References:

1. Agarwal A. N. (2006) – Indian Economy : Problems of Development and Planning. A division of new Age inetrnational (P) Limited New Delhi.

2. Bawa R. S. and P. S. Raikhy (Ed) (1997) Strutural Chages in Indian Economy, Guru Nanak Dev University Press, Amritsar.

3. Brahmananda, P. R. and V. R. Panchmukhi (Eds.) (2001) Development Experience in the Indian Economy : Inter – state Perspectives, Book Well New Delhi.

4. Dutt R. and K.P.M. Sundharam (2002) Indian Economy, S. Chand New Delhi.

5. Misra S. K. and V. K. Puri (2020) Indian Economy, Himalaya Publishing House, Mumbai.

6. Uma Kapila (2019) : Indian Economy – since Independence – 17^{th} Edition, Academic Foundation.

Certificate Course in Arts Syllabus as per NEP 2020

To be implemented from the Academic year 2026-27

(Elective Course) PGA104ECT : Economics

INDUSTRIAL ECONOMICS - I

1. Syllabus as per NEP 2020:		
i) Name of the Program	:	**Certificate Course in Arts**
ii) Course Code	:	**(Mandatory Course) PGA104ECT**
iii) Course Titles	:	**INDUSTRIAL ECONOMICS - I**
iv) Credit Structure	:	**No. of Credits per Semester – 02**
v) No. of lectures per Unit	:	**15**
vi) No. of lectures per week	:	**02**
2. Scheme of Examination	:	• **Written Exam: 3 Questions of 10 Marks each : 30 Marks** • **Internal Assessment: 20 marks Total : 30 + 20 = 50**

Syllabus as per NEP 2020 for Certificate Course in Arts

To be implemented from the Academic year 2026-27

(Mandatory Course) PGA104ECT: Economics

Course Title: <u>INDUSTRIAL ECONOMICS - I</u>

Sr. No.	Heading	Particulars
1.	**Description of the Course:**	This course offers an in-depth study of the variables that affect industrial development, such as financial institutions' function, supporting sectors, and market structures. Industrial policies, location theories, and methods for promoting industrial growth are among the topics covered. In order to comprehend the intricacies of industrial economies, students will examine case studies and theoretical frameworks as they analyse how these factors combine to produce industrial dynamics.
2.	**Vertical:**	Mandatory Major Course
3.	**Type:**	Theory
4.	**Credit:**	2 Credits
5.	**Hours Allotted:**	30 Hours
6.	**Marks Allotted**:	50 Marks
7.	**<u>Course Objectives :</u>** This paper will make aware learners of the factors helping the industry, other areas that support it, and market structure, as well as focus on financial institutions, policies, and theories of location. It also focuses on aspects related to industrial growth.	
8.	**<u>Course Outcomes :</u>** CO 1 : The learners would be able to develop a broader understanding of the historical background of industrial development, and the scope and role of industrial economics. . CO 2 : The learners would enhance their understanding of the market structure and the best theories to fix the location of industries. CO3 - The learners would be able to examine the problems of regional imbalances in industrial development and the measures taken by the government to overcome the same CO4 - The learners would be able to assess and analyses the impact of globalization on the industrial sector and sunrise industries of the future.	

Certificate Course in Arts Syllabus as per NEP 2020

To be implemented from the Academic year 2026-27

(Elective Course) PGA104ECT : Economics

<u>INDUSTRIAL ECONOMICS - I</u>

Credits : 02 **Course Code : PGA104ECT**

Course Code	Units	Topics	Lectures
PGA104ECT	**I**	**Introduction to Industrial Economics:** Meaning and Scope of Industrial Economics. Need and Significance of the Study of Industrial Economics. Economic & Agricultural Development and Industrialization. Factors Affecting Industrial Development. Factors Affecting Industrial Location in Konkan Region (Road connectivity, ports, raw materials, tourism potential) Role, problems, and future of India's Private and Public sector industries.	**15**
	II	**Industries and Market Performance:** Some Concepts: - Plant, Firm, and Industry. Market, Market Structure, and Market Power. Market Conduct and Market Performance. Industrial Combinations- causes, mergers and amalgamations, Industrial monopoly, control of monopolies, Contestable Market, Product Differentiation, Economies of scale and scope, Meaning of Industrial Location. Determinants of Industrial Location. Recent Industrial Policies and Coastal Industrial Development (Focus on Maharashtra Industrial Policy Coastal economic activities relevant to Sindhudurg)	**15**

References:

1. Ahluwaliya I. J.-Industrial Growth In India – Stagnation Since the Mid Sixties- Oxford University Press, Delhi, 1985.

2. Hay J. and Morris D. J. – Industrial Economics – Theory and Evidence, Oxford University Press (Latest Edition)

3. Martin Stephen, Industrial Economics – Economic Analysis and Public Policy, Macmillan Publishing Company, New York, (Latest Edition)

4. Mookharji Dilip (Eds), Indian Industry – Policies and Performance, Oxford University Press, Delhi, 1998.

5. Pandey I. M. –Financial Management, Vikas Pub. House Pvt. Ltd., New Delhi, 2000.

6. Mohanty Binod (eds.) –Economic Development Perspectives, Vol. 3, Public Enterprises and Performance – Common Wealth Publication New Delhi, 1998.

7. Desai, S.S.M. and N. Bhalerao (2010), Industrial Economy of India, Himalaya Publishing House.

8. Barthwal, R.R. (2011), Industrial Economics: An Introductory Textbook, New Age International Publishers.

9. Industrial Economics, A K Sharma; Anmol Publications.

10. Jyotsna and Narayan B. (1990), “Performance Appraisal of PEs in India: A Conceptual Approach”, in Public Enterprises in India - Principles and Performance, Ed. Srivastav V.K.L., Chug Publications, Allahabad.

Certificate Course in Arts Syllabus as per NEP 2020

To be implemented from the Academic year 2026-27

(Mandatory Course) PGA105ECT : Economics

AGRICULTURAL ECONOMICS

1. Syllabus as per NEP 2020:		
i) Name of the Program	:	**Certificate Course in Arts**
ii) Course Code	:	**(Mandatory Course) PGA105ECT**
iii) Course Titles	:	**AGRICULTURAL ECONOMICS**
iv) Credit Structure	:	**No. of Credits per Semester - 04**
v) No. of lectures per Unit	:	**15**
vi) No. of lectures per week	:	**04**
2. Scheme of Examination	:	• **Written Exam: 4 Questions of 15 Marks each : 60 Marks** • **Internal Assessment: 40 marks** **Total : 60 + 40 =100**

Syllabus as per NEP 2020 for Certificate Course in Arts

To be implemented from the Academic year 2026-27

(Mandatory Course) PGA105ECT: Economics

Course Title: <u>AGRICULTURAL ECONOMICS</u>

Sr. No.	Heading	Particulars
1.	**Description of the Course:**	With an emphasis on numerous topics pertinent to Indian agriculture, this course seeks to teach students a thorough understanding of agricultural economics. The nature of Indian agriculture, sustainable farming methods, food security-related concerns, agricultural sustainability measures, agricultural marketing tactics, agricultural pricing schemes, and agricultural finance will all be covered by the students. In order to prepare students to analyse and participate in discussions on agricultural growth and sustainability, the course places a strong emphasis on the economic concepts and policies that influence agricultural practices and policies in India.
2.	**Vertical:**	Mandatory Major Course
3.	**Type:**	Theory
4.	**Credit:**	4 Credits
5.	**Hours Allotted:**	60 Hours
6.	**Marks Allotted**:	100 Marks
7.	**<u>Course Objectives :</u>** This course aims to introduce various aspects of agricultural economics to the learners. The major objectives of the study are to enable learners to understand the nature of Indian agriculture; sustainable agriculture, issues of food crisis, measures for agriculture sustainability, agriculture marketing, pricing of agricultural produce and agricultural finance etc.	
8.	**<u>Course Outcomes :</u>** CO 1 : The learners would be able to develop a broader understanding of general agricultural practices and the features, scope and role of agriculture in economic development. . CO 2 : The learners would enhance their understanding of sustainable agriculture, food crises, food security and the green revolution CO3 - The learners would be able to examine the problems of agricultural marketing and the measures taken by the government to overcome the same CO4 - The learners would be able to assess and analyze the complex concepts of agricultural costs, pricing and finance etc..	

Certificate Course in Arts Syllabus as per NEP 2020

To be implemented from the Academic year 2026-27

(Mandatory Course) PGA105ECT : Economics

AGRICULTURAL ECONOMICS

Credits : 04 **Course Code : PGA105ECT**

Course Code	Units	Topics	Lectures
PGA105ECT	**I**	**Agriculture and Economic Development:** • Role of agriculture in Economic Development, Recent trends in agricultural Growth in India. • Agricultural Economics: Methods of Cultivation; • Crop Pattern and Agricultural Productivity in India: Crop Patterns or Seasons in India: Rabi, Kharif and Zaid. • Causes of low agricultural productivity, Remedial Measures. • Konkan Costal Agriculture: Characteristics and Challenges, Cashew coconut \Rice (Kokan Varieties) productivity trends.	**15**
	II	**Sustainable Agricultural Development and Food Security:** • Food Crisis: Causes and issues of Food Crisis, Measurement of Food Crisis. • Food Security: Concepts; Konkan's Low land and High farming systems; Food Security Act 2013- Objectives and Critical evaluation. • Sustainable Agriculture: Sindhudurg Organic Farming Movement and GI Tag performance, Impact. • Strategies- Organic Farming, Argo-tourism.	**15**
	III	**Agricultural Marketing:** • Agriculture Market: Characteristics of the primary agriculture market, NAFED, Sindhudurg APMC function – Vengurla Sawantwdi Markets • Problems of Agricultural Marketing: causes and government initiatives to overcome the problems. • Marketing Channels and Forms: Konkan Mango And Cashew Marketing Challenges, Direct Marketing, Cooperative marketing societies.	**15**
	IV	**Agricultural Cost, Pricing, and Finance:** • Agriculture Cost: Input cost, operating expenses, Capital investments. Causes of rising Input Cost. • Agriculture Pricing: Need for agriculture pricing, Commission for Agricultural Cost and Prices, • Administered prices, need and challenges. Konkan – Specific issues : High Labor cost,	**15**

		Fragmented land. Konkan Krushividhyapith Scheme • Agricultural Finance: Need, Types, and Sources of Agricultural Finance in India; NABARD Microfinance	

References:

1. Basu Kaushik, Analytical Development Economics, Oxford University Press, 1998

2. Bhalla G S,5 Globalization and Indian Agriculture, Volume 19 of the State of tire Indian FarmerSeries. Academic Foundation, 2004,

3. Dreze Jean and AmartyaSen, Hunger and Public Action, Oxford University Press, 1989.

4. Sawant S D (2002), Indian Agriculture: Past developments and policies for the future, DantwaiaMonograph Series, No, 4,2002.

5. Sengupta D, Chakraborty D and Banerjee P, Beyond the Transition Phase of WTO: An IndianPerspective on Emerging Issues, Academic Foundation, 2006.

6. Shiva Vandana, The Violence of the Green Revolution, Palgrave Macmillan, 1992.

Certificate Course in Arts Syllabus as per NEP 2020

To be implemented from the Academic year 2026-27

(Mandatory Course) PGA106 ECT : Economics

ECONOMICS OF LABOR MARKET

1. Syllabus as per NEP 2020:		
i) Name of the Program	:	**Certificate Course in Arts**
ii) Course Code	:	**(Mandatory Course) PGA106ECT**
iii) Course Titles	:	**ECONOMICS OF LABOR MARKET**
iv) Credit Structure	:	**No. of Credits per Semester - 04**
v) No. of lectures per Unit	:	**15**
vi) No. of lectures per week	:	**04**
2. Scheme of Examination	:	• **Written Exam: 4 Questions of 15 Marks each : 60 Marks** • **Internal Assessment: 40 marks** **Total : 60 + 40 =100**

Syllabus as per NEP 2020 for Certificate Course in Arts

To be implemented from the Academic year 2026-27

(Mandatory Course) PGA106 ECT: Economics

Course Title: ECONOMICS OF LABOR MARKET

Sr. No.	Heading	Particulars
1.	**Description of the Course:**	This course discusses the dynamics of education and skill development, worker discrimination, state policies for labour welfare, the economic theories underpinning employment and pay, and labour market inefficiencies. Learn about empirical research techniques and microeconomic theories to understand how economic factors influence labour market results and workforce participation and well-being policies.
2.	**Vertical:**	Mandatory Major Course
3.	**Type:**	Theory
4.	**Credit:**	4 Credits
5.	**Hours Allotted:**	60 Hours
6.	**Marks Allotted**:	100 Marks
7.	**Course Objectives:** The objective of this course is to introduce the student to labour economics with an emphasis on microeconomic theory and empirics. Through the course, the student will learn basic economic forces behind employment and wages, sources of labour market imperfections, driving forces for education and skill upgradation, discrimination among the workers and public policies for labour welfare.	
8.	**Course Outcomes** **CO1 -** The learners would be able to Acquaint with the contribution of labour in the process of capitalist development. CO2 - The learners would be exposed to diverse labour relations in urban and rural settings under capitalism and mixed economy. CO3 - The learners would be able to understand a range of new developments in the contemporary labour market in real life as well. CO4 -The learners would be able to assess and analyse the relationship between current phases of globalization and labour while incorporating the role of the Indian state	

Certificate Course in Arts Syllabus as per NEP 2020

To be implemented from the Academic year 2026-27

(Mandatory Course) PGA106ECT : Economics

ECONOMICS OF LABOR MARKET

Credits : 04 **Course Code : PGA106ECT**

Course Code	Units	Topics	Lectures
PGA106ECT	I	**Nature of the Labour Market** Meaning/concept of labour, features, Concept of labour market, Characteristics, Types, Basic Search Theory in labour markets. Theory of human capital. Investment in human capital. Costs and lifetime benefits of education. Labour markets and theories of wage - Classical, New Keynesian and Keynesian perspectives.	15
	II	**Micro and Macro Approaches in Labour Markets** The theory of labour demand, Industry demand for labour, Determinants of labour demand, The theory of supply, Work-leisure choice in Indifference curves, Budget constraint Utility maximization, backward-bending supply curve and its applications. Urban informal labour. Migration from the villages to cities and the growth of the informal workforce. Livelihood situation of urban informal labour.	15
	III	**Wage Issues in Labour Markets** Wage structure and components of wages, Share of wages, Inequality of Wage income, Male-Female Wage differentials, Contract labour, Properties of contractual wages, labour market rigidities and flexibilities. Minimum wages, Wage and output relations in India during the pre-and post-reform period, Labour market regulations and its impacts on employment and industrial performances. Wage code 2020. The role of the state in a globalised world. The emergence and growth of an informal sector.	15
	IV	**Labour Markets in India** Linkages in labour markets. Dualism and segmentation. Labour market flexibility. Wage differentials, Employee Turnover, Migrant Labour, Impact of Trade Unions on Productivity and Wages, Social Security, Occupational Safety and Security, Wages and Income Policy II in India.	15

		Sectoral Labour Market - Formal and informal. Impact of liberalization and globalization.	

References:

1. Bhagoliwal TN, Economics of Labour and Industrial Relations, Sahitya Bhavan, Agra,1996.

2. Cahuc Pierre and Andre Zylberberg, Labor Economics, Massachusetts Institute of Technology,2004

3. Harris Barbara and Sinha White, Trade Liberalisation and India's Informal Economy, Oxford University Press, New Delhi, 2007.

4. Sapsford David and Zafiris Tzannatos, The Economics of the Labour Market, Macmillan, London, 1993.

5. Singh Jwitesh Kumar, Labour Economics, Deep and Deep Publishers, Delhi, 1998.

6. Uchikawa Shuji (eds.) Labour Market and Institution in India 1990s and Beyond, Manohar Publishers, New Delhi, 2003..

7. Bhattacharya, Sabyasachi (2014). Introduction, in Bhattacharya, S. (ed.), Towards a New History of Work, Tulika Books, New Delhi, India.

8. Smith, Stephen (2003). Wage Determination and Inequality (Chapter 3) in Labour Economics 2nd edition, Routledge, London and New York

9. Breman, Jan (1996). "Inflow of Labour into South Gujarat (Chapter 3)", in Footloose Labour: Working in India's Informal Economy (1996), Cambridge University Press, London.

Certificate Course in Arts Syllabus as per NEP 2020

To be implemented from the Academic year 2026-27

(Mandatory Course) PGA107ECT : Economics

<u>RESEARCH METHODOLOGY</u>

1. Syllabus as per NEP 2020:		
i) Name of the Program	:	**Certificate Course in Arts**
ii) Course Code	:	**(Mandatory Course) PGA106ECT**
iii) Course Titles	:	**RESEARCH METHODOLOGY**
iv) Credit Structure	:	**No. of Credits per Semester - 04**
v) No. of lectures per Unit	:	**15**
vi) No. of lectures per week	:	**04**
2. Scheme of Examination	:	• **Written Exam: 4 Questions of 15 Marks each : 60 Marks** • **Internal Assessment: 40 marks** **Total : 60 + 40 =100**

Syllabus as per NEP 2020 for Certificate Course in Arts

To be implemented from the Academic year 2026-27

(Mandatory Course) PGA107ECT: Economics

Course Title: RESEARCH METHODOLOGY

Sr. No.	Heading	Particulars
1.	**Description of the Course:**	This course provides students with the essential tools and techniques needed to perform economics research, including both qualitative and quantitative methods. Acquire the knowledge of ethical standards in research and publication, with a focus on integrity and avoiding plagiarism, and learn how to choose and implement suitable research models.
2.	**Vertical:**	Mandatory Major Course
3.	**Type:**	Theory
4.	**Credit:**	4 Credits
5.	**Hours Allotted:**	60 Hours
6.	**Marks Allotted**:	100 Marks
7.	**Course Objectives :** The course aimed at providing importance behind using research tools and techniques which are qualitative or quantitative and the purpose of using a particular model. The objective is to introduce the learners to the basic quantitative and qualitative tools, commonly used by researchers in Economies. This course also aims at deepening the students' understanding of ethics in research and publication and unethical practices like plagiarism which has to be strictly avoided in research.	
8.	**Course Outcomes :** CO 1 : To develop essential analytical skills and sufficient knowledge of quantitative and qualitative methods . CO 2 : To enable the students in data collection, presentation, analyses and drawing inferences about various hypotheses based on economic problems. CO3 - To generate a sense of ethics to be followed while conducting research	

Certificate Course in Arts Syllabus as per NEP 2020

To be implemented from the Academic year 2026-27

(Mandatory Course) PGA107ECT : Economics

RESEARCH METHODOLOGY

Credits : 04 **Course Code : PGA106ECT**

Course Code	Units	Topics	Lectures
PGA106ECT	I	**Introduction:** Introduction to research methods- Data Collection: Quantitative and Qualitative approaches- Sampling frame and design- Local Field research in sindhdurg : Villege Survey, Postal Communities Studies- Sample size determination- Case Studies: Cashew, Mango, Fishing, Eco Turismo research problems -Integrity and honesty in research writings.	15
	II	**Quantitative Methods in Data Analysis:** Analysis of Variance- Multiple classification analysis- Basic Statistical Tools Used in Local Development studies mean, SD, core relation, field data analysis using Excel/ Google sheets Local Datsets- A basic form of LOGIT Interpretations of coefficients- Multivariate analysis and its application	15
	III	**Qualitative research and data collection procedures:** Ethnographic study of Konkan Villeges (Traditionace, Occupation) Interview techniques for Farmers costal workers and SHG women - The nature of data in qualitative research- Procedure of designing and setting up study- The role of researcher such as confidentiality, mixed approaches/methods in qualitative research – Techniques for data collection through qualitative research, types of interviews, observation procedures and group discussions.	15
	IV	**Data Representation and Research Writings:** Basic principles of analysis of data- Computer-assisted data analysis- The role of theory in data analysis- Data analysis and Report Writing formats for local surveys (Volleges, crop, tourism, fisheries, use of simple digital tools, google forms, Mobile dtata apps, Presentation skills for Rural development projects– Analysis and interpretation of data	15

References:

1. Bryman A. Social Research Methods 4th Edition OUP 2012

2. Cresswell J. W. Qualitative Inquairy and Research design, choosing amoung Five approcaches, Sage Publication 2007

3. Denzin N. K. and Lincoin Y. S. (eds) Hanbook of Qualitative Research sage, Thousand Oaks 1994

4. Johnson & Christernsen (2004) Educational Research : Quaantitative and Qualitative approaches (4th Ed) Boston, Allyn and Bacon.

5. Neuman W. L. (2000) Social research methods, qualitatlve and quantitative approaches (4th Ed) Boston : allyn and Bacon

6. Strauss A. & Corbin J. (1994) “Grounded Theory Methodology” in N.K. Denzen & Ys Lincoin (Eds) Handbook of qualitative Research (pp 217 – 285) Thousand Oaks, Sage Publication.

7. A Guide to research in economic Editor C. T. Kurien, Madras, Sangam Publishers for Madras Institute of Development studies. (1973)

SHRI PANCHAM KHEMRAJ MAHAVIDYALAYA SAWANTWADI (Autonomous)

DEPARTMENT OF ECONOMICS

(To be implemented from Academic Year 2026-27)

Program: Certificate Course **Class: M.A. (I)** **Semester: II**

Sr. No.	Course Code	Title of the Course	Category of Course	No. of Lecture Hours	No. of Lectures per Unit	Teaching Hours per week (L+P)	SEE	CIE	Total Marks	No. of Credits
1	PGA108ECT	PUBLIC ECONOMICS	Mandatory	60	15	04+00	60	40	100	4
2	PGA109ECT	INTERNATIONAL TRADE, THEORY & POLICY	Mandatory	60	15	04+00	60	40	100	4
3	PGA110ECT	ECONOMICS OF HUMAN DEVELOPMENT	Mandatory	60	15	04+00	60	40	100	4
4	PGA111ECT	INDUSTRIAL ECONOMICS - II	Elective	30	10	02+00	30	20	50	2
5	PGA112ECT	FINANCIAL ECONOMICS OR INTERNATIONAL FINANCE	Mandatory	60	15	04+00	60	40	100	4
6	PGA113ECT	FP	Mandatory	60	15	04+00	60	40	100	4
	Sub - Total			330	85	22+00	330	220	550	22

Sign of HOD / Co-ordinator **Sign of Dean**

Asso. Prof. Neelam Devendra Dhuri **Faculty of Arts**

Department of Economics

SYLLABUS

M.A. (ECONOMICS)

SEMI – II

Certificate Course in Arts Syllabus as per NEP 2020

To be implemented from the Academic year 2026-27

(Mandatory Course) PGA108ECT : Economics

PUBLIC ECONOMICS

1. Syllabus as per NEP 2020:		
i) Name of the Program	:	**Certificate Course in Arts**
ii) Course Code	:	**(Mandatory Course) PGA108ECT**
iii) Course Titles	:	**PUBLIC ECONOMICS**
iv) Credit Structure	:	**No. of Credits per Semester - 04**
v) No. of lectures per Unit	:	**15**
vi) No. of lectures per week	:	**04**
2. Scheme of Examination	:	• **Written Exam: 4 Questions of 15 Marks each : 60 Marks** • **Internal Assessment: 40 marks** **Total : 60 + 40 =100**

Syllabus as per NEP 2020 for Certificate Course in Arts

To be implemented from the Academic year 2026-27

(Mandatory Course) PGA108ECT: Economics

Course Title: PUBLIC ECONOMICS

Sr. No.	Heading	Particulars
1.	**Description of the Course:**	The focus of the course, which draws on Microeconomic theory, is on the development of analytical tools and their application to key issues relating to the spending, taxing, and financing activities of government. References for Module 4 may change from year to year.
2.	**Vertical:**	Mandatory Major Course
3.	**Type:**	Theory
4.	**Credit:**	4 Credits
5.	**Hours Allotted:**	60 Hours
6.	**Marks Allotted**:	100 Marks
7.	**Course Objectives:** 1. To provide students with a thorough understanding of the role and impact of government intervention in a market economy, including market failures and government regulation. 2. To develop students' ability to critically analyze the rationale behind public expenditure, its evaluation, and its impact on economic efficiency and equity. 3. To equip students with comprehensive knowledge of taxation principles, structures, and their effects on the economy, including efficiency and distributional considerations. 4. To examine the nature and impact of policy reforms on government operations and economic outcomes, focusing on improving governance and public sector efficiency.	
8.	**Course Outcomes :** CO 1 : Students will demonstrate a clear understanding of the functions and roles of government in a market economy, including addressing market failures and providing public goods. CO 2 : Students will be able to analyse the efficacy of public expenditure, determine its justification, and comprehend how it affects social welfare and economic performance CO3 - Students will show proficiency in analysing various taxation systems, understanding their economic impacts, and discussing potential tax reforms to enhance efficiency and equity. CO4 -Students will acquire an understanding of the workings and results of policy changes, especially as they relate to economic growth and public sector management.	

Certificate Course in Arts Syllabus as per NEP 2020

To be implemented from the Academic year 2026-27

(Mandatory Course) PGA108ECT: Economics

PUBLIC ECONOMICS

Credits : 04 **Course Code : PGA108ECT**

Course Code	Units	Topics	Lectures
PGA108ECT	**I**	**Government in a Market Economy:** Theorems of Welfare Economics: Implications, Lump Sum Taxes and Transfers Rationale for State Intervention: Market Failures and Externalities, Tax and Regulation, Distribution, Behavioural Public Economics. Digital Public Goods (Aadhaar, UPI, Digi locker, Climate Change and Government Intervention	**15**
	II	**Public Expenditure: Rationale and Evaluation:** Public Goods: Pure and Local, Optimal provision, Outcome Bugdeting Sustainable Development Goals (SDGs) and Public Expenditure, Private provision of Public Goods, Merit Goods, Club Goods Evaluation of Government Expenditure: Elements of Cost-Benefit analysis	**15**
	III	**Taxation:** Basic Concepts of Tax Theory: Direct vs. Indirect Taxes, Ability to Pay, Horizontal and Vertical Equity. Commodity Taxation: Tax Rules, Digital Taxation and E-commerce Taxation, Public Sector Pricing. Income Taxation: Equity and Efficiency, Taxation and Labour Supply, Optimal Income Taxation (linear and non-linear). International Tax reforms (OECD global Minimum Tax	**15**
	IV	**Reforms and Government:** Fiscal Rules: Rationale, International and Indian Experience. Decentralization: Decentralization Theorem. E-Governance and Digital Public Finance: Taxation powers, Expenditure responsibilities, Intergovernmental transfers, Finance Commission and Fiscal Transfers, GST	**15**

References:

1. Atkinson A.B. and J.E. Stiglitz, Lectures on Public Economics, New York: McGraw-Hill, 19
2. Cullis J. and P. Jones, Public Finance and Public Choice, OUP, 1998
3. Hindriks J. and G.D. Myles, Intermediate Public Economics, MIT Press, 2006\
4. Myles G., Public Economics, Cambridge University Press, 1995
5. Oates W., Fiscal Federalism, New York: Harcourt, Brace Jovanovich, 1972
6. Purohit M., Value Added Tax, Gayatri Publications, 2001
7. Tresch R., Public Finance: A Normative Theory, Academic Press, 1995

Certificate Course in Arts Syllabus as per NEP 2020

To be implemented from the Academic year 2026-27

(Mandatory Course) PGA109ECT : Economics

<u>INTERNATIONAL TRADE: THEORY AND POLICY</u>

1. Syllabus as per NEP 2020:		
i) Name of the Program	:	**Certificate Course in Arts**
ii) Course Code	:	**(Mandatory Course) PGA109ECT**
iii) Course Titles	:	**INTERNATIONAL TRADE: THEORY AND POLICY**
iv) Credit Structure	:	**No. of Credits per Semester - 04**
v) No. of lectures per Unit	:	**15**
vi) No. of lectures per week	:	**04**
2. Scheme of Examination	:	• **Written Exam: 4 Questions of 15 Marks each : 60 Marks** • **Internal Assessment: 40 marks** **Total : 60 + 40 =100**

Syllabus as per NEP 2020 for Certificate Course in Arts

To be implemented from the Academic year 2026-27

(Mandatory Course) PGA109ECT: Economics

Course Title: <u>INTERNATIONAL TRADE: THEORY AND POLICY</u>

Sr. No.	Heading	Particulars
1.	**Description of the Course:**	This course explores traditional and modern theories of international trade, focusing on its foundations, economic mechanisms, and global consequences. Students will also analyse the effects of trade policies on economies and the dynamics of global trade, looking at how market structures, strategic behaviours, and technological advancements shape international trade patterns and competitiveness.
2.	**Vertical:**	Mandatory Major Course
3.	**Type:**	Theory
4.	**Credit:**	4 Credits
5.	**Hours Allotted:**	60 Hours
6.	**Marks Allotted**:	100 Marks
7.	**Course Objectives:** 1. The aim is to furnish learners with an extensive comprehension of traditional as well as modern theories of trade, encompassing its foundations, workings, and consequences. 2. To give students the information and analytical abilities necessary to assess trade policies, their effects on the economy, and their significance in the dynamics of global trade. 3. To investigate how market structures, strategic behaviors, and trade results are affected by imperfect competition in international commerce. 4. To examine how technical developments affect trade patterns and competitiveness to get an understanding of the link between technology and global trade	
8.	**<u>Course Outcomes :</u>** CO 1: Students will demonstrate a thorough understanding of classical and modern trade theories, being able to explain and apply these theories to real-world trade scenarios. CO 2: Students will have the ability to assess and analyze different trade policies while understanding how they affect both national and international economies CO3 : Students will acquire an understanding of the impact of imperfect competition on global trade, encompassing the function of multinational enterprises and the implementation of strategic trade policies CO4: Students will learn about the consequences of innovation, digitization, and global value chains as well as how technological development affects trade internationally	

Certificate Course in Arts Syllabus as per NEP 2020

To be implemented from the Academic year 2026-27

(Mandatory Course) PGA109ECT: Economics

INTERNATIONAL TRADE: THEORY AND POLICY

Credits : 04 **Course Code : PGA109ECT**

Course Code	Units	Topics	Lectures
PGA109ECT	I	**Trade Theories** Production function, cost function, Comparative advantage, Ricardian trade model, gains from trade with homogenous and heterogeneous agents, Hecksher-Ohlin model, Stolper-Samuelson, Rybcznski theorem and factor-price equalization theorem, New trend Theory : (Paul Krugman) Digital Trade and E-commerce	15
	II	**Trade Policy** Normative issues of welfare, India's Foreign trade policy (Latest) Sustainable trade policy, taxes, and subsidies. Trade and growth, Multilateral trade agreements and political economy: World Trade Organization.	15
	III	**Trade under Imperfect Competition** Monopolistic competition models of trade, Love-for-Variety preferences, Gains from trade, Tariff versus quota under monopoly, Strategic trade policy: Digital platforms and International trade, Multinational corporation MNCs, Voluntary import expansion and export restrictions	15
	IV	**Trade and Technology** Artificial Integellance (Ai) and International trade, Digital Economy and Cross border data flows. Impact of trade on the environment; globalization and trade- Problem of pollution in an open economy; endogenous pollution policy	15

References:

1) Feenstra. R., (2009), Advanced International Trade: Theory and Evidence, Princeton University Press, 2009

2) Bhagwati, J., A. Panagariya, and T. Srinivasan. (1998), Lectures on International Trade (2nd edition), MIT Press

3) Van Marrewijk, C., (2007), International Economics, Oxford University Press

4) Copeland, B.R. and M.S. Taylor, (2005), Trade and the Environment: Theory and Evidence, Princeton University Press.

5) Hunter, D., J. Salzman, and D. Zaelke, (2006), International Environmental Law and Policy, Foundation Press.

Certificate Course in Arts Syllabus as per NEP 2020

To be implemented from the Academic year 2026-27

(Mandatory Course) PGA110ECT : Economics

ECONOMICS OF HUMAN DEVELOPMENT

1. Syllabus as per NEP 2020:		
i) Name of the Program	:	**Certificate Course in Arts**
ii) Course Code	:	**(Mandatory Course) PGA110ECT**
iii) Course Titles	:	**ECONOMICS OF HUMAN DEVELOPMENT**
iv) Credit Structure	:	**No. of Credits per Semester - 04**
v) No. of lectures per Unit	:	**15**
vi) No. of lectures per week	:	**04**
2. Scheme of Examination	:	• **Written Exam: 4 Questions of 15 Marks each : 60 Marks** • **Internal Assessment: 40 marks** **Total : 60 + 40 =100**

Certificate Course in Arts Syllabus as per NEP 2020

To be implemented from the Academic year 2026-27

(Mandatory Course) PGA110ECT: Economics

Course Title: <u>ECONOMICS OF HUMAN DEVELOPMENT</u>

Sr. No.	Heading	Particulars
1.	**Description of the Course:**	Develop the skills to assess and measure human development using a variety of metrics and analytical techniques, preparing to contribute to policies and initiatives aimed at improving quality of life globally. Look into the many facets of human development, including its significance and dimensions such as health, education, and standard of living. Analyse the relationships between human security, Sustainable Development Goals (SDGs), and strategies for global enhancement.
2.	**Vertical:**	Mandatory Major Course
3.	**Type:**	Theory
4.	**Credit:**	4 Credits
5.	**Hours Allotted:**	60 Hours
6.	**Marks Allotted**:	100 Marks
7.	**Course Objectives:** 1. To give students a thorough understanding of human development, including an overview of its significance and range of facets. 2. To examine the relationship between human security, Sustainable Development Goals (SDGs), and approaches to enhancing human development globally. 3. To strengthen students' analytical skills about the various facets of human development, such as standard of living, health, and education. 4. To offer students the information and abilities needed to assess human growth using a range of metrics and techniques.	
8.	**<u>Course Outcomes :</u>** CO 1 : Differentiate between Human Resource Development (HRD), Human Development (HD) and HRM CO 2 : Understand the concepts of Human Security, describe dimensions of human development, and appreciate various practices and policies of human development, HDI, and India. CO3 - To strengthen students' analytical skills about the various facets of human development, such as standard of living, health, and education . CO4 -To equip students with the knowledge and skills necessary to measure and evaluate human development using various indicators and methodologies .	

Certificate Course in Arts Syllabus as per NEP 2020

To be implemented from the Academic year 2026-27

(Mandatory Course) PGA110ECT: Economics

ECONOMICS OF HUMAN DEVELOPMENT

Credits : 04 **Course Code : PGA110ECT**

Course Code	Units	Topics	Lectures
PGA110ECT	**I**	**Introduction to Human Development** Human Growth and Human Development - Basic Needs Approach - Quality of Life Approach - Capability Approach- Multidimensional Poverty Index, Digital Human Development, Artificial Intelligence and Human Debelopment, importance, and objectives.	**15**
	II	**Human Security, SDGs, and Approaches to Human Development.** Human Security: Economic security - Food security - Health security - Environmental security – Climate Change and Human Secrurity, Disaster risks reduction and Human Development, SDGs 2030 progress, Challenges and India's Perfomnces- Sustainable Development Goals (SDGs): Understanding the SDGs - Linkages between human development and the SDGs- Indian Perspectives and Experience with Human Development: Approach to human development in national plans	**15**
	III	**Dimensions of Human Development** Dimensions of Human Development: Empowerment - meaning and usage, Gender Equality and Social inclusion, Equity - concept and usage, Sustainability – meaning and importance, Financial Inclusion and Human Development, Skill Development, Employability and NEP 2020 - factors determining productivity.	**15**
	IV	**Measurement of Human Development** Measuring Human Development: Need and limitations -Physical Quality of Life Index (PQLI), - Disability Adjusted Life Years (DALYs), - Social Capability Index. Human Development Index - HDI as compared to per capita GDP - Method of computing HDI - Critique of HDI. Other indices: Multidimension Poverty Index (MPI), Gender Inequality Index (GII), Recent Human Development Report (UNDP 2023/2024 and India's Ranking	**15**

References:

1) Dev, S. Mahendra, Piush Antony, V. Gayathri, and R.P. Mamgain, (2001), Social and Economic Security in India, Institute for Human Development, New Delhi

2) Viramani, B.R and Seth, Parmila (1985): Evaluating Management Development, Vision Books, New Delhi.

3) Jaya Gopakl, R: Human Resource Development: (1990), Conceptual analysis and Strategies, Sterling Publishing Pvt. Ltd., New Delhi

4) United Nations Development Programme (2005); 'Course Curriculum on Human Development- An Outline', New Delhi

5) Rao, T.V. et.al. (2003) HRD in the New Economic Environment, Tata McGraw-Hill Pub.Pvt, Ltd., New Delhi

Certificate Course in Arts Syllabus as per NEP 2020

To be implemented from the Academic year 2026-27

(Mandatory Course) PGA111ECT : Economics

<u>INDUSTRIAL ECONOMICS -II</u>

1. Syllabus as per NEP 2020:		
i) Name of the Program	:	**Certificate Course in Arts**
ii) Course Code	:	**(Mandatory Course) PGA111ECT**
iii) Course Titles	:	**INDUSTRIAL ECONOMICS -II**
iv) Credit Structure	:	**No. of Credits per Semester - 02**
v) No. of lectures per Unit	:	**15**
vi) No. of lectures per week	:	**02**
2. Scheme of Examination	:	• **Written Exam: 3 Questions of 10 Marks each : 30 Marks** • **Internal Assessment: 40 marks** **Total : 30 + 20 = 50**

Syllabus as per NEP 2020 for Certificate Course in Arts

To be implemented from the Academic year 2026-27

(Mandatory Course) PGA111ECT: Economics

Course Title: INDUSTRIAL ECONOMICS -II

Sr. No.	Heading	Particulars
1.	**Description of the Course:**	This course offers an in-depth study of the variables that affect industrial development, such as the function of financial institutions, market structures, and support sectors. Industrial policy, theories of industrial placement, and methods for promoting industrial growth are among the subjects covered. In order to prepare students to analyse industrial dynamics and contribute to economic development initiatives, emphasis is given on comprehending economic concepts and policies shaping industries.
2.	**Vertical:**	Mandatory Major Course
3.	**Type:**	Theory
4.	**Credit:**	2 Credits
5.	**Hours Allotted:**	30 Hours
6.	**Marks Allotted**:	50 Marks
7.	**Course Objectives:** This paper will make aware learners of the factors helping the industry, other areas supporting it, and market structure, and also to focus on financial institutions, policies, and theories of location. It also focuses on aspects related to industrial growth.	
8.	**Course Outcomes :** CO 1 : The learners would be able to develop a broader understanding of the historical background of industrial development, and the scope and role of industrial economics. . CO 2 : The learners would enhance their understanding of the market structure and the best theories to fix the location of industries. CO3 - The learners would be able to examine the problems of regional imbalances in industrial development and the measures taken by the government to overcome them. . CO4 -The learners would be able to assess and analyze the impact of globalization on the industrial sector and sunrise industries of the future.	

Certificate Course in Arts Syllabus as per NEP 2020

To be implemented from the Academic year 2026-27

(Mandatory Course) PGA111ECT: Economics

INDUSTRIAL ECONOMICS -II

Credits : 02 **Course Code : PGA111ECT**

Course Code	Units	Topics	Lectures
PGA111ECT	**I**	**Industrial Finance** Digital Finance and Fin Tech in Industrial development, Role, Nature, Volume, and Types of Institutional Finance: IFCI, IDBI, IRCI, SFC, SIDC, And SIDBI, Commercial Banks. External commercial Borrowing, Financial statements: Balance sheet, Profit & Loss account. Green Finance and ESG financing	**15**
	II	**Industrial Growth in India** Industrial Policies of 1948, 1977, and 1991. Digital Manufacturing and Smart Industries, Sustainable Industrial development and Circular Economy., Need for Balanced Regional Development in India. Impact of WTO on Indian industries. The emergence of new industries in the era of globalization. Infrastructure for industrial development. Overview and Growth of the Service Sector in India	**15**

References:

1. Ahluwaliya I. J.-Industrial Growth In India – Stagnation Since the Mid Sixties- Oxford University Press, Delhi, 1985.
2. Hay J. and Morris D. J. – Industrial Economics – Theory and Evidence, Oxford University Press (Latest Edition)
3. Martin Stephen, Industrial Economics – Economic Analysis and Public Policy, Macmillan Publishing Company, New York, (Latest Edition)
4. Mookharji Dilip (Eds), Indian Industry – Policies and Performance, Oxford University Press, Delhi, 1998.
5. Pandey I. M. –Financial Management, Vikas Pub. House Pvt. Ltd., New Delhi, 2000.
6. Mohanty Binod (eds.) –Economic Development Perspectives, Vol. 3, Public Enterprises and Performance – Common Wealth Publication New Delhi, 1998.
7. Desai, S.S.M. and N. Bhalerao (2010), Industrial Economy of India, Himalaya Publishing House.
8. Barthwal, R.R. (2011), Industrial Economics: An Introductory Textbook, New Age International Publishers.
9. Industrial Economics, A K Sharma; Anmol Publications.
10. Jyotsna and Narayan B. (1990), "Performance Appraisal of PEs in India: A Conceptual Approach", in Public Enterprises in India - Principles and Performance, Ed. Srivastav V.K.L., Chug Publications, Allahabad.

Certificate Course in Arts Syllabus as per NEP 2020

To be implemented from the Academic year 2026-27

(Mandatory Course) PGA112ECT : Economics

FINANCIAL ECONOMICS

1. Syllabus as per NEP 2020:		
i) Name of the Program	:	**Certificate Course in Arts**
ii) Course Code	:	**(Mandatory Course) PGA112ECT**
iii) Course Titles	:	**FINANCIAL ECONOMICS**
iv) Credit Structure	:	**No. of Credits per Semester - 02**
v) No. of lectures per Unit	:	**15**
vi) No. of lectures per week	:	**02**
2. Scheme of Examination	:	• **Written Exam: 3 Questions of 10 Marks each : 30 Marks** • **Internal Assessment: 40 marks** **Total : 30 + 20 = 50**

Syllabus as per NEP 2020 for Certificate Course in Arts

To be implemented from the Academic year 2026-27

(Mandatory Course) PGA112ECT: Economics

Course Title: FINANCIAL ECONOMICS

Sr. No.	Heading	Particulars
1.	**Description of the Course:**	Learn the theoretical foundations of financial economics and the basics of corporate finance with an emphasis on investment and portfolio analysis, asset valuation (including CAPM) along with financial ratio analysis. Understand how to apply theoretical frameworks to actual financial situations to get ready to assess and decide on financial markets. .
2.	**Vertical:**	Mandatory Major Course
3.	**Type:**	Theory
4.	**Credit:**	4 Credits
5.	**Hours Allotted:**	60 Hours
6.	**Marks Allotted**:	100 Marks
7.	**Course Objectives:** This paper introduces students to the varied concepts of the economics of Finance. It aims at imparting knowledge about the basic models of investment and portfolio analysis, including the CAPM. The patterns of corporate financing will be based on a case study approach	
8.	**Course Outcomes :** CO 1 : Students will be exposed to the concepts and terminologies of financial economics CO 2 : Learners will understand the basics of investment and learn to understand the present and future value of investment. . CO3 - Students will be familiar with concepts like balance sheets, analysis of the balance sheets, and corporate finance.	

Certificate Course in Arts Syllabus as per NEP 2020

To be implemented from the Academic year 2026-27

(Mandatory Course) PGA112ECT: Economics

FINANCIAL ECONOMICS

Credits : 04 **Course Code : PGA112ECT**

Course Code	Units	Topics	Lectures
PGA112ECT	I	**Investment and Portfolio Analysis** Basic theory of interest, Behavioural Finance and Investor Psychology: future value and present value; evaluation criteria: net present value and internal rate of return (IRR), fixed income securities; types of yield, yield curves, relation between bond prices and yields. Digital Investment and platforms (Mutual Funds, ETFS)	15
	II	**Portfolio Analysis** Multifactor Models(APT); portfolio diversification, feasible set of portfolios, Portfolio Management using Financial software(Excel/SPSS) , Capital Market line, Capital Asset Pricing Model (CAPM), Securities Market Line, the beta of an Asset and the portfolio.	15
	III	**Financial Statements and Analysis** Cash flows statement analysis, Statement of profit and loss, profit versus cash flow, consolidated financial statement, standard financial statements. AI and Data Analytics in Financial Analysis, Application of financial statement analysis, Relationship between finance, economics, and accounting.	
	IV	**Corporate Finance** Patterns of corporate financing: stock. debt, preferences, convertibles. Corporate Governance, Sustainable finance and green bonds, corporate debt. Digital Financial Services The Modigliani-Miller theorem. The dividend policy	

References:

1. Chris Jones. Financial Economics, Routledge, New York (2008)
2. David Luenberger, Investment science. Oxford University Press. 1997.
3. Thomas Copeland, J. Fred Weston and Kuldeep Shastri. Financial Theory and Corporate Policy, Prentice Hall, 2003
4. Richard Brealey and Stewart Myers. Principles of Corporate Finance. McGraw Hill. 2002.
5. Prasanna Chandra Financial Management: Theory and Practice, 10th edition, McGraw HillEducation (India) Pvt. Ltd.
6. William Sharpe, Gordon Alexander and J. Bailey. Investment, Prenice Hall of India 2003

Syllabus as per NEP 2020 for Certificate Course in Arts

To be implemented from the Academic year 2026-27

(Mandatory Course) PGA113ECT: Economics

Course Title: INTERNATIONAL FINANCE

Sr. No.	Heading	Particulars
1.	**Description of the Course:**	Study the dynamics of foreign exchange markets and how they affect international trade and investment; comprehend the elements of a country's balance of payments and how they affect economic policies; assess international investment choices taking into account the risks and rewards associated with doing business internationally; and research the function of international financial institutions in fostering economic growth and guaranteeing global financial stability.
2.	**Vertical:**	Mandatory Major Course
3.	**Type:**	Theory
4.	**Credit:**	4 Credits
5.	**Hours Allotted:**	60 Hours
6.	**Marks Allotted**:	100 Marks
7.	**Course Objectives:** 1. The aim is to provide students with a thorough comprehension of foreign currency rates and markets, including their determination and influence on global commerce and investment. 2. Developing students' knowledge of the components of a nation's balance of payments and their implications for financial stability and economic policy. 3. The objective is to provide students with the necessary information and abilities to evaluate international investment and finance choices, taking into account the potential risks and rewards linked to worldwide financial markets. 4. To study the operations and effects of international financial institutions to comprehend their significance for both economic growth and global financial stability.	
8.	**Course Outcomes** **CO1 -** Students will demonstrate a thorough comprehension of foreign currency markets, how they operate, and how foreign exchange rates affect global economic activity CO2 - Students will be able to evaluate the impact on the economy and potential policy responses by analysing and interpreting the balance of payments statements of many nations. CO3 - The ability to assess foreign investment prospects, financing plans, and related financial instruments and risk management measures will be shown by the students CO4 - The functions and workings of significant international financial organizations, including the World Bank, IMF, and regional development banks, as well as their influence on international economic policy, will become clearer to students.	

Certificate Course in Arts Syllabus as per NEP 2020

To be implemented from the Academic year 2026-27

(Mandatory Course) PGA113ECT: Economics

INTERNATIONAL FINANCE

Credits : 04 **Course Code : PGA113ECT**

Course Code	Units	Topics	Lectures
PGA113ECT	I	**Exchange Rates and Markets:** Exchange Rates: Fixed, Flexible, Nominal, Real and Effective Exchange Rates, Purchasing Power Parity, and Interest Parity. Foreign Exchange Markets: Spot, Forward, Futures and Options Currency Markets. Foreign Exchange Risk and Exposure: Exposure, Risk and Parity Relationship, Accounting Exposure versus Real Exposure, Operating Exposure, Hedging Risk and Exposure	15
	II	**Balance of Payments:** Balance of Payments: Current Account Balance and Capital Account Balance, Official Reserve Transactions, Relationship between Balance of Payments and National Income Accounts. Approaches to Balance of Payments Adjustments: Elasticity, Absorption, Monetary and Portfolio-balance Approaches	15
	III	**International Investment and Financing:** Cash Management: Investment and Borrowing Criterion with Transaction Costs- International Dimensions of Cash Management. Portfolio Investment: International Capital Asset Pricing- Settlement of International Portfolio Investments. Capital Budgeting for Foreign Investments: Project Selection, Cash Flows, Discount Rates, Growth and Concerns about Multinationals. International Financing: Equity Financing, Bond financing, Bank Financing	15
	IV	**International Financial Institutions:** International Monetary Fund- International Reserves- Special Drawing Rights. Theory of Optimum Currency Areas: International Policy Co-ordination, Currency Board, International Financial and Currency Crisis. International Debt: Measures of Indebtedness-International Debt Crisis	15

References:

1. Kenen Peter B, The International Economy, Cambridge University Press, New York, 2000 Chapters: 12, 13, 14, 15, 16, 17, 18 and 19 (Modules 2 and 4)

2. Krugman P. R. and Obstfeld M., International Economics-Theory and Policy, Addison-Wesley, Delhi, 2000 Chapters: 12, 15, 16, 20 and 22 (Modules 2 and 4)

3. Levi Maurice D., International Finance, Routledge, New York, 2005 Chapters: 2, 3, 4, And 9 to 18 (Modules 1, 2 and 3)

4. Pilbeam Keith, International Finance, Palgrave, New York, 1998 Chapters: 14 and 15. (Module 4).

5. Salvatore Dominick, International Economics, John Wiley and Sons, Singapore, 2002 Chapter: 14, (Module 1)

6. Sodersten Bo and Reed Geoffrey, International Economics, Macmillan, London, 1994 Chapters: 23, 25, 30 and 31) (Modules 2 and 4)

7. Ugur Mehmet, (edited), An Open Economy Macroeconomics Reader, Routledge, London, 2002 Chapters: 16, 17, 19, 20, 21 and 22 (Modules 2 and 4)

QUESTION PAPER PATTERN

(External and Internal)

The performance of the learners will be evaluated in two Components. One component will be the Internal Assessment component carrying 50 marks and the second component will be the Semester-wise End Examination component carrying 50 marks. The allocation of marks for the Internal Assessment and Semester End Examinations will be as shown below: -

For 4 Credit courses

(A) External / Semester End Examination   Marks: 50   Time: 2 Hours

Q.1 Answer any 'One' of the following. (Marks 10)

A)

B)

Q. 2 Answer any 'One' of the following. (Marks 10)

A)

B)

Q. 3 Answer any 'One' of the following. (Marks 10)

A)

B)

Q. 4 Answer any 'One' of the following. (Marks 10)

A)

B)

Q. 5 Write Short Note (Any Two) One from each module (Marks 10)

A)

B)

C)

D)

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(B) Continuous Internal Evaluation.   Marks: 50

Sr. No.	Particular	Marks
1	Project & Presentation	**25**
2	Unit Test / Group Discussion / Seminar	**20**
3.	Overall Performance	**05**

For 2 Credit courses

(A) External / Semester End Examination **Marks: 25** **Time: 1 Hours**

Q.1 Essay Type Questions (Attempt Any One out of two Based on Unit I). **Marks 10**

A)

B)

Q.2 Essay Type Questions (Attempt Any One out of two Based on Unit II). **Marks 10**

A)

B)

Q.3 Short Notes/Problem (Attempt Any one out of two Based on both units). **Marks 05**

A)

B)

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(B) Continuous Internal Evaluation. **Marks: 25**

Sr. No.	**Particular**	**Marks**
1	Unit Test / Group Discussion / Seminar	**20**
2	Overall Performance	**05**