SHRI GURU RAM RAI UNIVERSITY

(Estd. by Govt. of Uttarakhand, vide Shri Guru Ram Rai University Act no.03 of 2017)

Syllabus of Pre–Ph.D. Course

Effective from Academic Session

From 2024-2025

Patel Nagar, Dehradun

Shri Guru Ram Rai University Department of Economics

COURSE STRUCTURE

Code	Subject	Credits L:T:P	Total Credit	Total Marks	Minimum Marks to be scored for successful completion
PRMC101	Research Methodology	2:1:1	4	80	40
PREC 102	Research and Publication Ethics (RPE)	1:1:0	2	40	20
PECC103	Global Issues and Indian Economy	3:1:0	4	80	40
Subject specific elective paper (Any one)		3:1:0	4	80	40
PECE 104	Contemporary Issue in Indian Economy				
PECE 105	Project Report**				
PECE 106	Computer Application in Research				
PECE 107	Advanced Theories in Economics				
PECC 108	Field work (Seminar / Conference Presentation / Review literature, Journal club and other activities assigned)	0:2:2	4	80	40
PECE109	**Uttarakhand Economy**	3:1:0	4	80	40
Total			**18**	**360**	**180**

Core Paper

PRMC 101: Research Methodology **No. of credits 04**

Paper–I: Research Methodology (Compulsory), Code: PRMC–101

Unit I: Concept & Types of Research

Meaning and importance of Research – Types of Research – Selection and formulation of Research Problem – Research Design, Classification of Research, Pure and AppliedResearch, Exploring or Formulative Research, Descriptive Research, Diagnostic Research/Study, Evaluation research/Studies, Action Research, Experimental Research, Analytical Study of Statistical Method, Historical Research.

Unit II: Methods Research

Surveys. Case Study, Field Studies General Survey of various Methods including Survey Method, Interdisciplinary Method, Case Study Method, Sampling Method, Statistical Method, Observation Method, Interview Method, Schedule Method, Questionnaire Method, Documentary Method, Library Method, Historical Method and Scientific Method. Characteristic Features of Scientific Method; Empirical Verifiable, Cumulative, Self - Correcting, Deterministic. Ethical & Ideological neutrality (Value Free), StatisticalGeneralizability.

Unit III: Data Collection and Data Analysis

Collection, Objectives and Classification of Data, Aims, Methods and Objects ofTabulation of Data, Forms and Processes of Interpretation and Presentation of Data. Primary, Secondary and Tertiary Data. Construction and adaptation of instruments, administration of questions and tests. Data organization in SPSS & Excel, Graphical representation of data, Definition and Aims of Content Analysis, Problems of Content Analysis, Computer and Content Analysis Discussion and Interpretation of results, Testing of Hypothesis: Logical and Statistical Techniques.

Unit IV: Report Writing

Locating Information on a Topic of Interest, Acquiring Copies of Articles of Interest, The Nature of Scientific Variables, Conceptual Versus Operational Definitions of Variables, Levels of Measurement, Various Paradigms, The Basic Format for a Research Report, Identification of the Parts of a Research Report, Citation and Referencing Styles, Essentials of Report Writing, Aids for Writing Good Research Report.

References:

1. Bagchi, Kanak Kanti (2007) Research Methodology in Social Sciences: APractical Guide. Delhi, Abijeet Publications.
2. Kothari, C.R (2004) Research Methodology: An Introduction, Delhi, New Age.
3. Cooper, R. Donald and Pamela S. Schindler (2003) Business Research Methods,Delhi, Tata McGraw-Hill.
4. Flyvbjerg, Bent (2001) Making Social Science Matter: Why Social Inquiry Failsand How it can Succeed Again, United Kingdom, Cambridge University Press.
5. Goodde and Hatte (1952) Methods in Social Research, New York, McGraw – Hill.

Core Paper

RPEC 102: Paper II: Research and Publication Ethics (RPE) No. of credits 02

The course comprises of six modulus listed in table below. Each module has 4-5units.

Theory

RPE 01 Philosophy and Ethics 04 credit

RPE 02 Scientific Conduct 04 credit

RPE 03 Publication Ethics

07 credit**Practice**

RPE 04 Open Access publishing 04 credit

RPE 05 Publication Misconduct 04 credit

RPE 06 Databases and Research Metrics 07 credit

Total **30 credit**

Theory

RPE 01Philosophy and Ethics (3 hours)

1. Introduction to philosophy: definition, nature and scope, concept , branches.
2. Ethics : definition , moral philosophy, nature of moral judgments and reaction

RPE 02 Scientific Conduct (5 hours)

1. Ethics with respect to science and research
2. Intellectual honesty and research integrity
3. Scientific misconducts: Falsification, and Plagiarism(FFP)
4. Redundant publication: duplicate and overlapping publication, salami slicing
5. Selective reporting and misrepresentation of data.

RPE 03 Publication Ethics (7 hours)

1. Publication ethics: definition, introduction and importance
2. Best practices / standards setting initiatives and guidelines: COPE, WAME,etc.
3. Conflicts of interest
4. Publication misconduct: definition, concept, problems that lead to unethical behavior and vice versa, types
5. violation of publication ethics, authorship and contributorship
6. Identification of publication misconduct, complaints and appeals
7. Predatory publishers and journals

Practice

RPE 04: Open Access Publishing (4 hrs.)

1. Open access publications and initiatives
2. SHERPA / RoMEO online resource to check publisher copyright andself-archiving policies
3. Software tools to identify predatory publications developed by SPPU
4. Journal finder / journal suggestion tools viz. JANE, Elsevier journal Finder, Springer, Journal Suggester, etc.

RPE 05: Publication Misconduct (4 hrs.)

A. Group Discussion (2 hrs.)

1. Subject specific ethical issues, FFP, authorship
2. Conflicts of interest
3. Complaints and appeals: examples and fraud from India and abroad.

B. Software tools (2 hrs.)

Use of plagiarism software like Turnitin, Urkund and other open sourcesoftware tools.

RPE 06 :Databases and Research Metrics(7 hrs.) A. Databases (4 hrs)

1. Indexing databases
2. Citation databases: Web of Science, scopus, etc.

B. Research Metrics (3 hrs.)

1. Impact factor of journal as per journal Citation report, SNP, SJR,IPP, Cite score.

Metrices: h-index, g index, i10 index, altmetrics.

Course code	: **PECC 103:**				
Course Name	: **Global Issues and Indian Economy**				
Semester /Year	:				
		L	**T**	**P**	**C**
		3	**1**	**0**	**4**

L - Lecture T – Tutorial P – Practical C – Credit

Course Objectives:

1. To understand the trade policy and world economy.
2. To know about the Indian Monetary system, Banking RBI and Monetary market.
3. To make them familiar with India's balance of payment Foreign Exchange and International Economic Organization.

Course Contents:

Unit I: Global economy: features, India and the global economy, New International Economic Order, Foreign Trade and Policy, globalization of world economy.

Unit II: Economic Integration and Cooperation: Recent policy agreements anddevelopments in EU, SAPTA, SAARC, areas of global cooperation for India

Indian Monetary system, Banking RBI and Monetary market.

Unit III: India's balance of payment Foreign Exchange and investment, recent fluctuations in Rupees value against foreign currencies and its impact, MNC's and their role and impact.

Unit IV: International.Economic Organisation and Indian Economy: Impact of WTO on Indian economy and other developing and under developed nations; IMF, World Bank group.ADB, UNCTAD and regional trade blocs.

Recommended readings:

1. Bhagwati, J. (Ed.) (1981), International Trade, Selected Readings, Cambridge, University Press, Massachusetts
2. Carbough, R.J. (1999), International Economics, International Thompson Publishing, New York.
3. Chacholiades, M. (1990), International Trade : Theory and Policy, McGraw Hill, Kogakusha, Japan.
4. Dana, M.S. (2000), International Economics: Study, Guide and Work Book, (5th Edition), Routledge Publishers, London.
5. Dunn, R.M. and J.H. Mutti (2000), International Economics, Routledge, London.
6. Kenen, P.B. (1994), The International Economy, Cambridge University Press, London.
7. Kindleberger, C.P. (1973), International Economics, R.D. Irwin, Homewood.
8. King, P.G. (1995), International Economics and International Economic Policy : A Reader, McGraw Hill International, Singapore.
9. Krugman, P.R. and M. Obstfeld (1994), International Economics : Theoryand Policy, Glenview, Foresman.
10. Salvatore, D. (1997), International Economics, Prentice Hall, Upper Saddle River, N.J., New York.
11. Soderston, Bo (1991), International Economics, The MacmillanPress Ltd., London. Aggarwal, M.R. (1979), Regional Economic Cooperation in South Asia, S. Chand and Co., New Delhi.
12. Brahmananda, P.R. (1982), The IMF Loan and India's Economic Future, Himalaya Publishing House, Bombay.
13. Grable, J.O. (1996), International Financial Markets, Prentice Hall,

Course outcomes (COs):

Upon successful completion of the course a student will be able to

CO1	Recall the features of Global Economy, Economic Integration, balance of payment and foreign trade Policy.
CO2	Identify the Economic Integration and Cooperation.
CO3	Explain India's balance of payment and Foreign Exchange rate.
CO4	Know about the International Economic
CO5	Evaluate the features of Global Economy and foreign trade Policy.
CO6	Write the IMF, World bank and ADB.

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Course code	: PECE 104			
Course Name	: Contemporary Issue in Indian Economy			
Semester /Year	:			
L	T	P	C	
3	1	0	4	

Course Objectives:

1. To understand the concept of Agriculture Prices and Food Security in India.
2. To know about the Poverty and Inequality in India
3. To explain the Impact of Education on economy and Indian Financial system.

Course Content:

Unit I: Economic Reforms in India. Liberalization policy1991,Indian Infrastructure, Human Development, trade and agriculture, Importance of agriculture. Agriculture Prices and Food Security in India.

Unit II: Poverty and Inequality in India. An overview of various recent employment and poverty alleviation programmes in India, New Industrial Initiatives programmes. Indian tax system.

Unit III: Education and Economic development, Investment and government policies for education, Impact of Education on economy, Niti Aayog functions, Recommendations of latest financial commission.

Unit IV: Indian Financial system: Recent reforms in the field of banking Sector. Indian Capital Market, Inflation in India, sustainable development, government environmental policies.

Recommended readings:

1. Ahluwalia, I.J. and I.M.D. Little (Eds.) (1999), India's Economic Reforms and Development (Essays in honour of Manmohan Singh), Oxford University Press, New Delhi.
2. Bardhan, P.K. (9th Edition) (1999), The Political Economy of Development in India, Oxford University Press, New Delhi.
3. Bawa, R.S. and P.S. Raikhy (Ed.) (1997), Structural Changes in Indian Economy, Guru Nanak Dev University Press, Amritsar.
4. Brahmananda, P.R. and V.R. Panchmukhi (Eds.) (2001), Development Experience in the Indian Economy : Inter-State Perspectives, Bookwell, Delhi.
5. Chakravarty, S. (1987), Development Planning: The Indian Experience, Oxford University Press, New Delhi.
6. Dantwala, M.L. (1996), Dilemmas of Growth: The Indian Experience, Sage Publications, New Delhi. Datt, R. (Ed.) (2001), Second Generation Economic Reforms in India, Deep & Deep Publications, New Delhi.
7. Government of India, Economic Survey, (Annual), Ministry of Finance, New Delhi. Jain, A.K. (1986), Economic Planning in India, Ashish Publishing House, New Delhi.
8. Jalan, B. (1992), The Indian Economy — Problems and Prospects, Viking, New Delhi. Jalan, B. (1996), India's Economic Policy — Preparing for the Twenty First Century, Viking, New Delhi.
9. Joshi, V. and I.M.D. Little (1999), India : Macro Economics and Political Economy, 1964- 1991, Oxford University Press, New Delhi.
10. Parikh, K.S. (1999), India Development Report — 1999-2000, Oxford University Press, New Delhi. Reserve Bank of India, Report on Currency and Finance, (Annual).
11. Sandesara, J.C. (1992), Industrial Policy and Planning, 1947-1991 : Tendencies, Interpretations and Issues, Sage Publications, New Delhi.
12. Sen, R.K. and B. Chatterjee (2001), Indian Economy : Agenda for 21stCentury

(Essays in honour of Prof. P.R. Brahmananda), Deep & Deep Publications, New Delhi.

13. Ghatak, S. (1986), An Introduction to Development Economics, Allen and Unwin, London. Gillis, M., D.H. Perkins, M. Romer and D.R. Snodgrass (1992), Economics of Development, (3rd Edition), W.W. Norton, New York.

Course outcomes (COs):

Upon successful completion of the course a student will be able to:

CO1	Understand the Economic Reforms, Agriculture Prices and Food Security in India.
CO2	Explore the structure of tax and poverty system in India.
CO3	Define the, Investment and government policies for education.
CO4	Gain knowledge about the Sustainable development.
CO5	Evaluate the Indian Financial system
CO6	Gain the knowledge about the Niti Aayog and New Industrial Initiatives programme.

Core Paper

PECE 105 **Project Report** **No. of credits 04**

A student will have to conduct a micro level field study based on any of the topicsas discussed and assigned by the supervisor. The report will be based on the primary and secondary data and the report of the study will have to be submitted in writtenform and further a power point presentation.

Course code : PECE 106				
Course Name : Computer Application in Research	L	T	P	C
Semester /Year :	3	1	0	4

Course Objectives:

1. To study hardware and software systems of Computer.
2. To understand information technology and access to digital literature.
3. To understand statistical tools for quantitative analysis

Course Contents:

UNIT 1: Elements of Computer System: Introduction to Computers-Hardware Storage, data storage Media, I/O Device, RAM, ROM, Operating System, Files and

Directories, Hard Disc Management, Resident Transient, Computer networking and multimedia. Working with MS word, MS Excel, page maker and power point.

Unit II: Data Analysis and Presentation: Meaning and working with internet, internet services-world wide web (www), electronic mails or E-mails, Searching on the web- search engines. Accessing and using online information, online journals and texts, statistical reference sites.

Unit III: Using SPSS for data analysis: Creating a data file, uni-variate analysis, bi- variate analysis, multivariate analysis and tests of significance; Usage of SPSS in data analysis.

Recommended readings:

1. Rajaraman , V. (1996) , Fundamentals of Computers , Prentice Hall ofIndia , New Delhi .
2. Sanders D.H. (1988), Computers Today. McGram Hill (3rd Edition)
   Intrilligator, M.D.(1978), Economic Models.
3. Wood, M.B. (1983), Introduction Computer Security, Broadman Associates,Delhi.
4. Rajasekaran, S. (1986), Numerical Methods in Science and Engineering, A.H. Wheeler, Allahabad.
5. Sanders, D.H. (1988), Computers Today, McGraw Hill (3rd Edition),New York. Sinha, P.K. (1992), Computer Fundamentals. BPB Publications, New Delhi.
6. Rajaraman, V. (1996), Fundamentals of Computers, Prentice Hall ofIndia, New Delhi.
7. Basandra, S.K (2002), Computers today, Galgotia publications, NewDelhi
8. Banerjee, Utpap K (1985), Computer management and Planning, Tata Mcgraw Hill publishing company Ltd, India
9. Long, Larry (1987), Computers in Business, Prentice-Hall, USA

Course outcomes (COs):

Upon successful completion of the course a student will be able to

CO1	Demonstrate the usage of computers and how computers are essential components in learning, business and society.
CO2	Inculcate the knowledge of word processing to produce professional-looking documents.
CO3	Determine and use of SPSS.
CO4	Analyze the Data and Presentation
CO5	Conclude the Elements of Computer System
CO6	Develop the data file, uni-variate analysis, bi- variateanalysis, multivariate analysis and tests of significance

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Course code	: PECE 107			
Course Name	: Advanced Theories in Economics			
Semester /Year	:			
	L	T	P	C
	3	1	0	4

Course Objectives:

1. To understand the Competitive general equilibrium, behaviour of Producer and Consume.
2. To know about Classical and Modern approaches.
3. To understand the Micro foundations of aggregate demand and dynamics of optimization and Foreign Trade Multiplier.

Course Contents:-

Unit I: Competitive general equilibrium: Utilitarian and Marginalist Approach,Optimality and Welfare Theorems: Amartya Sen and Rawlsian Justice, Analysis of individual agents' behavior under uncertainty and markets subject to asymmetric information, Asymmetric information and its impact on the behavior of Producer and Consumer

Unit II: Classical and modern approaches to decision-making and economic behavior under uncertainty, Classical expected utility; subjective probability, Behavioral theory of economic choice under uncertainty

UNIT III: Micro foundations of aggregate demand and dynamics of optimization –Okuns Law and Indian Economy - Permanent income, lifetime portfolio choice, theory of investment and consumption-Rational expectations hypothesis – Short and Long Run Phillips curve Real business cycle theory Samuelson and Hicks, The Question of Persistence-New Keynesian and Modern Mainstream Economics

UNIT IV: Foreign Trade Multiplier, Dynamics of IS-LM Analysis, Growth- Inflation Dilemma - Mundell-Fleming - Lucas and Romer Models and Applicability

Recommended readings:

1. Datta and Sundhram (2018), Indian Economy, Himalaya Publishing House, Bombay.
2. Chakravarty, S. (1987), Development Planning : The Indian Experience, Oxford University Press, New Delhi.
3. David Romer: Advanced Macro Economics-McGraw Hill
4. Shapiro: Macro Economics-Oxford
5. Mankiv-Macro Economics
6. Datta, B. (1992), Indian Planning at the Crossroads, Oxford University Press,New Delhi, Ghosh, P.K. (1977), Government and Industry, Oxford University. Press, New Delhi, Joshi, V. and I.M.D. Little (1999), India : Macro Economics and Political Economy : 1964-1991, Oxford University Press, New Delhi.
7. Datt, G. (1996), Bargaining Power, Wages and Employment: An Analysis of Agricultural Labour Markets in India, Sage Publications, New Delhi Economics 146
8. Hajela, P.D. (1998), Labour Restructuring in India: A Critique of the New Economic Policies, Commonwealth Publishers, New Delhi.
9. Jhabvala, R. and R.K. Subrahmanya (Eds.) (2000), The Unorganised SectorWork Security and Social Protection, Sage Publications, New Delhi.
10. Lester, R.A. (1964), Economics of Labour, (2nd Edition), Macmillan,New York.
11. McConnell, C.R. and S.L. Brue (1986), Contemporary Labour Economics, McGraw-Hill, New York.
12. Papola, T.S., P.P. Ghosh and A.N. Sharma (Eds.) (1993), Labour, employment and Industrial Relations in India, B.R. Publishing Corporation,New Delhi.

Course outcomes (COs):

Upon successful completion of the course a student will be able to

CO1	Complete the Welfare Theorems and asymmetric information.
CO2	Compare the Classical and modern approaches to decision-making and economic behavior under uncertainty,
CO3	Explain the theory of investment and consumption.
CO4	Describe the Foreign Trade Multiplier and inflation.
CO5	Justify the Micro foundations of aggregate demand and dynamics of optimization
CO6	Develop the theory of investment and consumption

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Course code : PECE-109				
Course Name : Uttarakhand Economy				
Semester /Year :				
	L	T	P	C
	3	1	0	4

L - Lecture T – Tutorial P – Practical C – Credit

Course Objectives :

The objectives of this course are

1. To study the Features and Constraints of Uttarakhand's Economy.
2. To study the Socio-Economic and Demographic Features.
3. To explain the Public Finances of Uttarakhand.

Course Contents:

Unit-1 Structure of the Economy

Structure of Uttarakhand Economy: Features and constraints; Natural resources of the state; Development of Uttarakhand's Economy since its formation; HDI of Uttarakhand; Contribution of different sectors in Uttarakhand's economy (GSDP and employment).

Unit-2 Socio-Economic and Demographic features of Uttarakhand

Demographic features: Sex ratio; population density, literacy rate, Decadal growth of various population parameters; health indicators: birth rate, death rate, Infant mortality rate. Rural-Urban unemployment; Women labour force participation rate; Migration pattern-district wise study and factors responsible for it; Urban-Rural poverty

Unit-3 Status of major sectors of Uttarakhand Economy

Status of agriculture, Land use and cropping pattern, agriculture land holdings; Status of organic farming. Major crops of state and high potential crops ((MAPs); Problems of agriculture in Hill regions; State government support to agriculture; Status of Industrial

Unit-4 State of Public Finances of Uttarakhand Economy

Trends in Receipt and Expenditure of the State Government; status of Key Fiscal Ratios in state; Public Debt in the state

Unit-5 Major State Government Schemes launched after year 2015

Study of major schemes (for agriculture, employment generation, tourism, migration, women empowerment) launched by Uttarakhand Government after year 2015.

References Books:

1. Mehta. G.S., Uttarakhand Prospects of Development. Indu Publishing Company, New Delhi.

2. Agrawal J.C., and S.P. Agrawal, Uttarakhand Past Present and Future, Concept publishing Company, New Delhi.

3. Nautiyal, R. R. and Datta Rajlakshmi. 2018. *Development Dynamics of A Himalayan State* Vol. 1 & 2.

4. Mamgain, R. P., & Reddy, D. N. (2015). Out-Migration From Hill Region of Uttarakhand: Issues and Policy Options. *National Institute of Rural Development and Panchayati Raj, Rajendranagar Hyderabad*, 1-27.

Course Outcomes

Upon successful completion of the course a student will be able to

CO1	Get exposure to the basic structure of Uttarakhand's economy.
CO2	Understand the socio-economic and demographic features of Uttarakhand's economy
CO3	Know about the status of basic economic indicators of Uttarakhand's economy.
CO4	Critically analyse the role of different sectors in Uttarakhand's economy along with strengths of Uttarakhand's economy and various issues associated with various sectors of the state's economy.
CO5	Understand the fiscal position of state's economy and to critically
CO6	learn about the state government's policies for growth and development of its population and overall economy.