

**DEPARTMENT OF ECONOMICS AND  
DEVELOPMENT STUDIES**

**Agenda Items for First Board of Studies  
Meeting**

**18 July 2024**



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18/7/24  
**Dean**  
School of Social Sciences  
Central University of Jharkhand

Dean  
School of Social Sciences  
Central University of Jharkhand

**CENTRAL UNIVERSITY OF JHARKHAND  
SCHOOL OF HUMANITIES AND SOCIAL SCIENCES  
CHERI-MANATU, RANCHI-835222  
JHARKHAND  
2024**

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**Agenda Item: 01**

Approval of 3 year of the 5 year integrated B.A.-M.A. Economics syllabus.

In view of National Higher Education Curriculum Framework by UGC, University had developed the Template for preparation of Course Curriculum. Accordingly, Department of Economics and Development Studies (DEDS) is proposing the course curriculum for three years of five-year Integrated B.A.-M.A. degree program with MEME.

Submitted for discussion and approval please.

**Agenda Item:02**

Approval of Ph.D syllabus

Submitted for discussion and approval.

**Agenda Item: 03**

Approval of enrolled students of integrated B.A.-M.A. Batch 2022-27 and 2023-28.

The Department of Economics and Development Studies of Central University of Jharkhand has admitted 27 students for integrated B.A.-M.A. in Batch 2022-27 and 28 students for Batch 2023-28. The details of admitted students are provided as Annexure-I.

Submitted for approval.

**Agenda Item: 04**

Approval of Newly Enrolled Ph.D scholar Mr. Gautam Kumar for 2023 batch.

The Department of Economics and Development Studies of Central University of Jharkhand has admitted 01 Ph.D student for the academic year 2024-2025. The details of admitted student are provided as Annexure-II.

Submitted for approval.

**Agenda Item: 05**

Approval of PH.D. External examiner to evaluate the thesis of Ph.D scholar Mr. Atul Anand Jha.

Mr. Atul Anand Jha (Reg. No. 191002201005) the Ph.D Scholar of Economics in the Department of Economics and Development Studies of Central University of Jharkhand has submitted his thesis on 15<sup>th</sup> May 2024 under the supervision of Dr. Sanhita Sucharita. The list of examiners may be approved to evaluate his Ph.D. thesis.

Submitted for approval.

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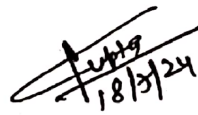
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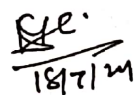
Agenda Item: 06 | Any other matter

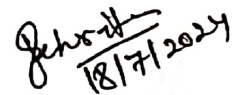
Any other matter may be discussed apart from the Agenda Items with the permission of the Chair.

  
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Central University of Jharkhand  
School of Humanities and Social Sciences  
Department of Economic and Development Studies  
Integrated B.A. & M.A. Program (2023-28)

Enrolment No. of Students

Ref: CUJ/SHSS/DEDS/EN/13

Date: November 10, 2023

Sl. No.	Name	Registration No.	Enrolment No.
1.	SUJATA KUMARI	CUJCT0008579	23370703001
2.	DEWASHISH KUMAR	CUJCT0008242	23370703002
3.	RESIMI KUMARI	CUJCT0004022	23370703003
4.	SAHIL BANSAL	CUJCT0002490	23370703004
5.	GAUTAM KUMAR	CUJCT0001879	23370703005
6.	PRIYANSHU MAHTO	CUJCT0000513	23370703006
7.	ADITYA KUMAR	CUJCT0000389	23370703007
8.	ROUSHAN KUMAR	CUJCT0002442	23370703008
9.	SONU KUMAR	CUJCT0001600	23370703009
10.	MUSKAN KUMARI	CUJCT0004034	23370703010
11.	NIKITA SINGH	CUJCT0004719	23370703011
12.	KHUSHBOO KUMARI	CUJCT0002792	23370703012
13.	TOFIQUE ANSARI	CUJCT0002166	23370703013
14.	RANI KUMARI	CUJCT0005376	23370703014
15.	AKANKSHA VERMA	CUJCT0005199	23370703015
16.	KHUSBOO KUMARI	CUJCT0005805	23370703016
17.	AYUSH KUMAR RAJAK	CUJCT0004126	23370703017
18.	LAXMI RAJ	CUJCT0008115	23370703018
19.	RAVI KUMAR	CUJCT0003428	23370703019
20.	ARPITA CHAKRABARTY	CUJCT0004666	23370703020
21.	RAVIKANT SINGH	CUJCT0003749	23370703021
22.	PRASHIK RAVINDRA MESHAM	CUJCT0008298	23370703022
23.	ANJALI KUMARI	CUJCT0009606	23370703023
24.	VISHAL SONI	CUJCT0009668	23370703024
25.	KAJAL KUMARI	CUJCT0009686	23370703025
26.	SIYANISH KUMAR NAYAK	CUJCT0002316	23370703026
27.	SWATI SINGH	CUJCT0001011	23370703027
28.	NIDHI KUMARI	CUJCT0009576	23370703028
29.	AKSHITA SINGH	CUJCT0003718	23370703029
30.	RITIK RAJ	CUJCT0002705	23370703030
31.	NIKHIL KUMAR MAHTO	CUJCT0005480	23370703031
32.	SHIVANI KUMARI	CUJCT0006710	23370703032
33.	RAHUL KUMAR	CUJCT0001728	23370703033

November 10, 2023

Dr. Atul K. Gupta  
Head of the Department (H/C)  
DEDS

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Anita  
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Jehon  
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P. K. Mishra



Central University of Jharkhand  
School of Humanities and Social Sciences  
Department of Economics and Development Studies  
Integrated BA-MA Program 2022  
Enrolment No. list of students

Ref: CUJ/SHSS/DG DS/2022/04/01

Date: 23/12/2022

SN	Name	Application No.	Admitted Category	Enrolment No.
1	Abhash Narayan Singh	CUJK2022000493	UR	22370703001
2	Abhay Pratap Chaudhary	CUJCT22004721	SC	22370703002
3	Abhishek Singh	CUJCT22006726	EWS	22370703003
4	A.E.Bharat Peter	CUJCT22000516	OBC-NCL	22370703004
(M)	5 Amar Vishwakarma	CUJCT22006999	OBC-NCL	22370703005
6	Anish Kumar ✓	CUJCT22008404	SC	22370703006
7	Armaan Verma ✓	CUJCT22006591	UR	22370703007
8	Dayanand Kumar	CUJCT22002158	OBC-NCL	22370703008
9	Deepak Pandit	CUJK2022000211	OBC-NCL	22370703009
10	Gaurav Kumar	CUJCT22005685	EWS-NCL	22370703010
11	Gaurav Kumar ✓	CUJCT22005924	OBC-NCL	22370703011
(C)	12 Golden Kumar	CUJCT22004771	UR	22370703012
13	Ishika Kumari	CUJK2022000408	OBC-NCL	22370703013
14	Mritunjay Pandey	CUJCT22005110	EWS-NCL	22370703014
T,C	15 Nibash Chandra Mahato	CUJCT22003025	UR	22370703015
16	Piyush Kumar	CUJCT22000672	SC	22370703016
17	Priya Barha	CUJCT22001537	ST	22370703017
18	Rama Bhardwaj	CUJK2022000208	UR	22370703018
19	Ravi Ranjan Kumar	CUJCT22000622	OBC-NCL	22370703019
20	Ritik Ranjan ✓	CUJCT22001694	UR	22370703020
21	Sanjana Sharma	CUJCT22004188	UR	22370703021
M,C,T,C	22 Shivam Gupta	CUJCT22004121	UR	22370703022
23	Shrejal Verma	CUJCT22007233	UR	22370703023
24	Shreya Kumari	CUJCT22006240	UR	22370703024
25	Subham Kumar	CUJCT22000100	UR	22370703025
26	Tanishka Gupta	CUJCT22000759	OBC-NCL	22370703026
M	27 Vipin Soren ✓	CUJCT22007160	ST	22370703027
C	28 Yash Raj	CUJCT22005776	UR	22370703028

*Alok K. Gupta*  
23/12/22  
Dr. Alok Kr. Gupta  
HOD (I/C)

Dr. A.K. Gupta  
Dean, SHSS

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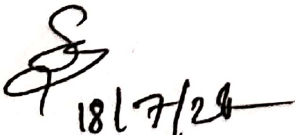
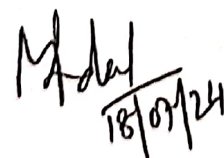

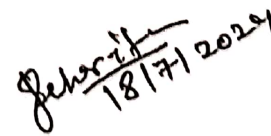
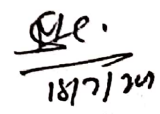
**Central University of Jharkhand**  
**School of Humanities and Social Sciences**  
**Department of Economics and Development Studies**  
**Ph. D. Program**

List of Student Admitted

Sl. No.	Name of Student	Registration No.	Date of Admission	Name of the Supervisor
1.	GAUTAM KUMAR	23370201001	09-01-2024	DR. SANHITA SUCHARITA, Assistant Professor, DEDS

List of Student Ph.D. submitted

Sl. No.	Name of Student	Registration No.	Date of Ph.D. submission	Name of the Supervisor
2.	Atul Anand Jha	19100201005	15-05-2024	DR. SANHITA SUCHARITA, Assistant Professor, DEDS

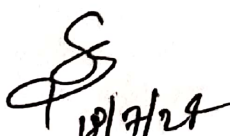

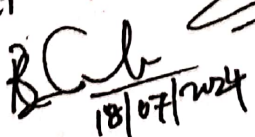


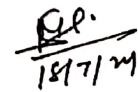
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**Central University of Jharkhand**  
**School of Social Sciences**  
**Department of Economics and Development Studies**

Minutes of the Meeting of **First Board of Studies (BoS)** held on July 18, 2024 (Thursday) at 11:15 am in online mode:

**Members Present:**

SN	Members	Designation	Attendance
1	Dr. Alok Kumar Gupta	Associate Professor, DPSPA and HoD-DEDS/Chairman	Present
2	Prof. Narayan Chandra Nayak	Professor, Department of Humanities and Social Sciences, IIT Kharagpur, Kharagpur, West Bengal.	Present
3	Prof. Bikram Keshari Pattanaik	Professor, School of Extension and Development Studies, Indira Gandhi National Open University, Maidan Garhi, New Delhi.	Present
4	Prof. Pabitra Kumar Mishra	Professor & Head, Department of Economic Studies, School of Social Sciences, Central University of Punjab, Bathinda, Punjab.	Present
5	Prof. Kunja Bihari Panda	Professor & Head, Department of Statistics, School of Natural Sciences, CUJ, Ranchi, Jharkhand.	Present
6	Prof. Manoj Kumar	Professor, Department of Environmental Sciences, School of Natural Resource Management, CUJ, Ranchi, Jharkhand.	Present
7	Dr. Subhash Kumar Baitha	Asst. Prof., DIR, SHSS, CUJ, Ranchi, Jharkhand. (Member)	Present
8	Dr. Sanhita Sucharita	Asst. Prof. DEDS, SHSS, CUJ, Ranchi, Jharkhand. (Member)	Present
9	Dr. Linkon Mondal	Asst. Prof. DEDS, SHSS, CUJ, Ranchi, Jharkhand. (Member)	Present

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Agenda as attached with this MoM were presented, discussed, deliberated upon and resolved as mentioned against each:

- 1) Agenda as mentioned in Annexure-I to this Minutes of the Meeting (MoM) were discussed and resolution as mentioned against each were arrived at.
- 2) A detailed discussion took place regarding Agenda Item No. 1 "Course Curriculum of Three-year of the Five-year Integrated B.A.-M.A. in Economics". It was discussed and finalised as attached-with as Annexure-II.
- 3) It has been pointed out by external members of the BOS that the Syllabus may be revised in the light of the discussion that took place in present BOS and be passed in the Next BoS for future batches of students.
- 4) It has also been pointed out that the Programme Outcome, Program Specific Outcome, Module-wise course outcome and Learning Outcome in different subjects must be included as per the requirements of the NAAC in accordance with NEP-2020.
- 5) It was also suggested that something on Indian Knowledge System be included in the relevant Course to make it in consonance with the requirement of the NEP-2020.
- 6) Suggestions were also made regarding the new pattern of coding as circulated by UGC. The BOS was appraised that the same is decided by the University and the necessary changes shall be incorporated as directed by the University from time to time.
- 7) Regarding Agenda Item No.2. All the members present agreed to approve the Course Curriculum of Ph.D. course work as attached-with since the same stands approved by Expert Committee earlier.
- 8) All the members present agreed upon and approved Agenda Item No. 3, 4, and 5 as mentioned in the Detailed Agenda.

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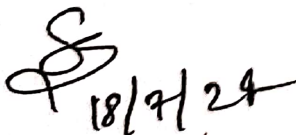
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- 9) All the members present agreed upon and approved the Newly Enrolled Ph.D. research scholar Mr. Gautam Kumar for 2023 batch as mentioned in Agenda Item No.4.
- 10) Agenda Item No.5 'Approval of Ph.D. External examiner to evaluate the thesis of Ph.D. scholar Mr. Atul Anand Jha' have been approved by all the members present in the meeting.
- 11) Prof. Nayak suggested that the course mapping in respective semesters may be done in such manner that the same course could be Major for students of Economics and Minor for Students of other Departments who opt for it. This shall help reduce the workload burden of the Faculty.
- 12) The present course structure may be allowed to be adjusted according to the need of the University as per NEP-2020.
- 13) Papers like Principles of Economics and Basic Mathematical Economics as well as any other paper taught to First and second batch of students may be adjusted according to the need of the University.
- 14) Approval for any other matter related to Framing of Course Curriculum for UG-PG Program or restructuring of the same shall be solicited through circulation to Members of the BOS.
- 15) Meeting ended with thanks to respective external members, internal members and the Chair.

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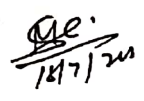
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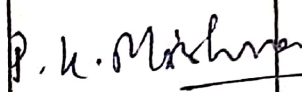
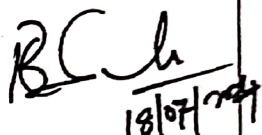
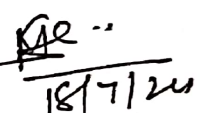

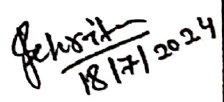

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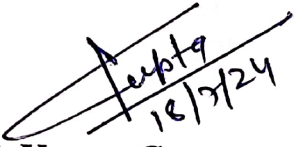
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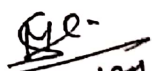


SN	Members	Designation	Signature
1	Dr. Alok Kumar Gupta	Associate Professor, DPSPA Dean: School of Social Science as Chairman	 18/7/24
2	Prof. Narayan Chandra Nayak	Professor, Department of Humanities and Social Sciences, IIT Kharagpur, Kharagpur, West Bengal.	Email Approved attached
3	Prof. Bikram Keshari Pattanaik	Professor, School of Extension and Development Studies, Indira Gandhi National Open University, Maidan Garhi, New Delhi.	Email approved attached.
4	Prof. Pabitra Kumar Mishra	Professor & Head, Department of Economic Studies, School of Social Sciences, Central University of Punjab, Bathinda, Punjab.	
5	Prof. Kunja Bihari Panda	Professor & Head, Department of Statistics, School of Natural Sciences, CUJ, Ranchi, Jharkhand.	 18/07/24
6	Prof. Manoj Kumar	Professor, Department of Environmental Sciences, School of Natural Resource Management, CUJ, Ranchi, Jharkhand.	 18/7/24
7	Dr. Subhash Kumar Baitha	Asst. Prof., DIR, SHSS, CUJ, Ranchi, Jharkhand. (Member)	 18/7/24
8	Dr. Sanhita Sucharita	Asst. Prof. DEDS, SHSS, CUJ, Ranchi, Jharkhand. (Member)	 18/7/2024
9	Dr. Linkon Mondal	Asst. Prof. DEDS, SHSS, CUJ, Ranchi, Jharkhand. (Member)	 18/07/24

  
Dr. Alok Kumar Gupta  
Associate Professor and HoD  
DEDS/SHSS/CUJ

**Dean**  
**School of Social Sciences**  
**Central University of Jharkhand**

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## Annexure-I

Sl. No.	Agenda Items	Page No.	BoS Decision
Agenda Item: 01	Approval of "Three years of the Five-year integrated B.A.-M.A. in Economics" syllabus.	1	Noted and Approved
Agenda Item: 02	Approval of Ph.D. syllabus as discussed and approved by Expert Committee	2	Noted and Approved
Agenda Item: 03	Approval of enrolled students of integrated B.A.-M.A. Batch 2022-27 and 2023-28.	3	Noted and Approved
Agenda Item: 04	Approval of Newly Enrolled Ph.D. research scholar Mr. Gautam Kumar for 2023 batch.	4	Noted and Approved
Agenda Item: 05	Approval of Panel of External Examiners of Ph.D. Thesis evaluation of Mr. Atul Anand Jha Ph.D. Research Scholar, DEDS	5	Noted and Approved
Agenda Item: 06	Any other matter	6	NA

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18/7/24

**Dr. Alok Kumar Gupta**  
Associate Professor  
Dean—School of Social Sciences

**Dean**

**School of Social Sciences**  
**Central University of Jharkhand**

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18/07/2024

P. K. Mishra

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18/7/24



Alok Kumar Gupta &lt;alokgupta@cuja.ac.in&gt;

**From Alok K Gupta**

2 messages

**Alok Kumar Gupta** <alokgupta@cuja.ac.in>

Mon, Jul 22, 2024 at 3:38 PM

To: B K Pattanaik &lt;bkpattanaik@ignou.ac.in&gt;, "soeds@ignou.ac.in" &lt;soeds@ignou.ac.in&gt;

Respected Sir

Greetings of the Day

This to request you to accord a line of approval through return email of the Board of Studies Minutes of the Meeting (MOM) held on July 18, 2024 in online mode.

I also request you to take a print out of File No. 5 (Claim Form), fill-up the personal and bank details and sign the same and send back the soft copy for necessary processing at my end.

With Due Regards

Alok K Gupta

Dean: School of Social Sciences

Central University of Jharkhand

**5 attachments** **5-Prof. Bikram Keshari Pattanaik.pdf**  
1004K **4-SyllabusPh.D..pdf**  
1165K **3-SyllabusBA.MA.pdf**  
1917K **1-MinutesofTheMeetingBOS.pdf**  
2397K **2-AzendaBOS.pdf**  
2822K**B K Pattanaik** <bkpattanaik@ignou.ac.in>

To: Alok Kumar Gupta &lt;alokgupta@cuja.ac.in&gt;

Mon, Jul 22, 2024 at 4:35 PM

I approve the minutes.

[Quoted text hidden]

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Prof. B.K. Pattanaik

Professor

School of Extension and Development Studies

IGNOU

New Delhi-110068

Ph:011- 29571662

Mob : 09717033945

Alternate e-mail; bikramkpattanaik@gmail.com



Alok Kumar Gupta <alokgupta@cej.ac.in>

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**From Alok K Gupta**

Mon, Jul 22, 2024 at 10:03 PM

Narayan Nayak <nayak114@gmail.com>  
To: Alok Kumar Gupta <alokgupta@cej.ac.in>  
Cc: ncnayak@hss.iitkgp.ac.in

Approved.  
Thanks and Regards,

N C Nayak  
Professor (Economics), Dept of HSS  
Head, Dept of Education  
IIT Kharagpur

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**DEPARTMENT OF ECONOMICS AND  
DEVELOPMENT STUDIES**

**SYLLABUS**

**Ph.D. ECONOMICS PROGRAMME**



**CENTRAL UNIVERSITY OF JHARKHAND  
CHERI-MANATU, RANCHI-835222**

**JHARKHAND**

**July 18, 2024**

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P. K. Mishra

**Central University of Jharkhand**  
**School of Humanities and Social Sciences**  
**Department of Economics and Development Studies**  
**Ph.D. in Economics**

The details of the Curricula developed and implemented in the Departments of Economics and Development Studies that have relevance to the local, regional, national, and global developmental needs, which is reflected in the Programme outcomes (POs) and Course outcome of the Programmes offered by the University.

**Programme Outcomes (POs) of the Ph.D. Economics**

The Ph.D. programme in Economics offers a top-notch research setting including numerous study domains. It is mandatory for Ph.D. candidates to finish one semester of coursework prior to beginning their dissertation. The whole Curricula formulated in such a manner to incorporate the local, regional, national, and global developmental needs, which rightly reveal in the Programme Outcomes (POs). The curricula allow the students to apply their analytical knowledge of the topic to real-world economic experiences and to analyse changing processes from a historical standpoint. The study of development-related topics is given particular attention when considering the global, national and regional issues of Indian economy.

**Relevance to the local, regional, national, and global developmental needs, which is reflected in the Course outcomes of the programmes**

The relevance of curricula to the local, regional, national, and global developmental needs have been incorporated in the course outcomes of Ph.D. programme. The courses provide a critical understanding of global, national and regional issues and their dynamics, and planning complexities. A few exemplar courses are worth mentioning which directly focuses on the above relevance: Financial Economics (ECO911030), Monetary Economics (ECO911030), International Economics (ECO911030), Regional Development in India (ECO911030), Industrial Economics (ECO911040) and Agricultural Economics (ECO911040).

SYLLABUS STRUCTURE				
Sl.No.	Subject Code	Subject Title	L-T-P	Credit
1	ECO911010	Research Methodology	4-0-0	4
2	ECO911020	Advanced Economic Theory	4-0-0	4
3	ECO911030	Any one subject from Optional List of Group-A	4-0-0	3
4	ECO911040	Any one subject from Optional List of Group-B	4-0-0	3
5	ECO911050	Research and Publication Ethics	2-0-0	2
<b>Total</b>				<b>16</b>

**Group- A (Select any one subject from this group)**

1. Financial Economics
2. Monetary Economics
3. International Economics
4. Basic Econometrics
5. Regional Development in India


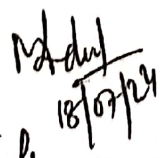
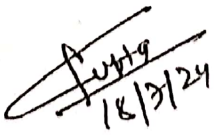
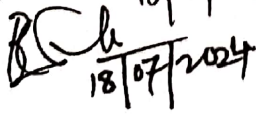
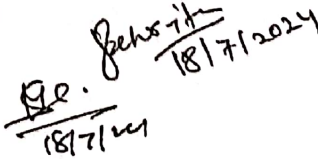
**Group- B (Select any one subject from this group)**

1. Industrial Economics
2. Agricultural Economics
3. Economics of Human Resources
4. Economics of Infrastructure and Development
5. Labour Economics

**Members of Board of Studies**

**Dr. Alok Kumar Gupta**, Associate Professor, Chairman BOS & Head and Dean, Department of Economics and Development Studies, School of Humanities and Social Sciences, Central University of Jharkhand, Cheri-Manatu, Ranchi-850222, Jharkhand;  
**Professor Narayan Chandra Nayak**, Professor, Department of Humanities and Social Sciences, Indian Institute of Technology Kharagpur, Kharagpur, West Bengal-721302, India;  
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P. K. Mishra



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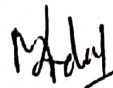
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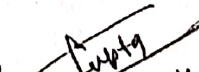
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P. K. Mishra

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**Central University of Jharkhand**  
**School of Humanities and Social Sciences**  
**Department of Economics and Development Studies**

**Course Curriculum**

1)	<b>Type of Course</b>	Ph.D. Course Work
2)	<b>Name of the Course</b>	Research Methodology
3)	<b>Course Code:</b>	ECO911010
4)	<b>Total Credit:</b>	04 (Four)
5)	<b>Floated by/Proposed by</b>	Department of Economics and Development Studies(DEDS)
6)	<b>Who can teach this course</b>	Faculty of the Department of Economics and Development Studies will teach the course.
7)	<b>Overview</b>	The aim of this subject is to acquaint the scholars of doctorate program with the research methods used in economics.
8)	<b>Programme/course objective</b>	The aim of this subject is to acquaint the scholars of doctorate program with the research methods used in economics. The paper enables learners to develop a skill set that helps them to plan, design and prepare a research project. The course is based on enhancing the research acumen of learners as it incorporates theory and techniques required in research process.
9)	<b>Course features and learning outcome</b>	On successful completion of the module students will be able to: Develop a conceptual understanding and foundation related to Research Methodology and its various approaches. Identify and provide a logical reasoning in the formulation of research problem, and the problems involved in systematic explanation of phenomenon. Develop Research Design based on multifarious approaches with quantitative techniques for economic data analysis. The course will improve the probabilities of fetching employment as the courses will give a better understanding of statistical tools, research techniques and econometric modelling to analyse the data.
10)	<b>Who can attend the course</b>	This course is suitable for Research Scholars of Economics and Development Studies.
11)	<b>Course Eligibility/Pre-requisite</b>	Ph.D. Students
12)	<b>Course Duration:</b>	One Semester
13)	<b>Course Structure</b>	
(i)	<b>Unit- I</b>	Research Methodology: An Introduction – Meaning, Objectives, Types, Significance, Research Process, Criteria for Good Research.

		Defining Research Problem – what is a research problem, necessity of defining research problem, techniques involved in defining a problem.
(ii)	<b>Unit-II</b>	<b>Research Design</b> – Meaning, Need, Features of a Good design, different research designs, basic principles. <b>Sampling Design</b> – Census and sample survey, steps in sampling design, different types of sample designs, Sampling theory.
(iii)	<b>Unit-III</b>	<b>Measurement and Scaling Techniques</b> – Measurement in research, measurement scales, scaling, important scaling techniques, scale construction techniques. <b>Data Sources and Methods of Data Collection</b> – Sources of Data – NSSO, IMF, RBI, Government Bodies and other International Organizations, Collection of primary data, observation method, interview method, collection of data through questionnaires and schedules, collection of secondary data, case study method.
(iv)	<b>Unit-IV</b>	<b>Processing and Analysis of Data</b> – Processing operations, types of analysis, use of statistics in research.
(v)	<b>Unit-V</b>	<b>Hypothesis Testing</b> – What is hypothesis, procedure for hypothesis testing, important parametric and non-parametric tests. <b>Statistical Testing</b> – Parametric and Non-Parametric Tests (t-test, f-test, chi-square test etc.) <b>Multivariate Analysis Techniques</b> – Classification of multivariate techniques, important multivariate techniques.
(vi)	<b>Unit-VI</b>	<b>Computer Usage</b> – Basics, Introduction to SPSS, and STATA and their Application in Econometric Analysis <b>Interpretation and Report Writing</b> – Why interpretation, techniques of interpretation, significance of report writing, steps, and oral presentation
<b>14)</b>	<b>Text Book and References:</b>	
(i)	Ferber, R., and Verdoorn, P.J., Research Methods in Economics and Business,	
(ii)	Gopal, M.H., Research Reporting in Social Sciences, Dharwar: Karnatak University.	
(iii)	Joseph A. Maxwell, Qualitative Research Design: An Integrative Approach, Sage Publications, 2004	
(iv)	Ostle, Bernard, and Mensing, Richard W., Statistics in Research, 3rd ed., Ames Iowa: The Iowa State University Pres	
(v)	Ackoff, Russell L., The Design of Social Research, Chicago: University of Chicago Press	
(vi)	Glock, Charles Y., Survey Research in the Social Sciences, New York: Russell Sage Foundation	
(vii)	Cooley, William W., and Lohnes, Paul R., Multivariate Data Analysis, New York: John Wiley & Sons	
(viii)	Easerly-Smith, M., Torpe, R. And Lowe,A., Management Research, Sage Publications, 1999	



**Central University of Jharkhand**  
**School of Humanities and Social Sciences**  
**Department of Economics and Development Studies**

**Course Curriculum**

1)	<b>Type of Course</b>	Ph.D. Course Work
2)	<b>Name of the Course</b>	Advanced Economic Theory
3)	<b>Course Code:</b>	ECO911020
4)	<b>Total Credit:</b>	04 (Four)
5)	<b>Floated by/Proposed by</b>	Department of Economics and Development Studies(DEDS)
6)	<b>Who can teach this course</b>	Faculty of the Department of Economics and Development Studies will teach the course.
7)	<b>Overview</b>	Advanced economic theory updates scholars with the advanced topics in economics.
8)	<b>Programme/course objective</b>	To understand the role of risk, uncertainty, institutions, endogenous growth in economics, concept of welfare.
9)	<b>Course features and learning outcome</b>	After completion of the course students will learn the workings of uncertainty, risk, choice and preference in decision-making process. They will also get familiarized with the concepts of institutional economics, new endogenous growth theories and dynamic issues prevailing in economics.
10)	<b>Who can attend the course</b>	This course is suitable for Research Scholars of Economics and Development Studies.
11)	<b>Course Eligibility/Pre-requisite</b>	M.A. Economics
12)	<b>Course Duration:</b>	One Semester
13)	<b>Course Structure</b>	
(i)	<b>Unit- I</b>	<p><b>Economics of Uncertainty:</b> Expected Utility and Certainty Equivalence – Measures of Risk and Risk Aversion – Sensitivity Analysis – The Economics of Insurance  The Competitive Firm under Uncertainty – The Economics of Search – Elementary Search Models – adaptive Search – Alternatives to the Expected Utility Hypotheses – The Competitive Industry under Uncertainty – The Efficient Market Hypothesis.</p> <p><b>New Institutional Economics:</b> Ingredients of Non-Walrasian Analysis – Transaction costs, Adverse Selection, Moral Hazard, Principal Agent Problem, Path dependency, Free Riders and Coase Theorem</p> <p>Transaction Cost Economics – Basic Propositions, Transaction costs and the Evolution of the firm, Property Rights – Transaction Costs and Exchange; The prospects for New Institutional Economics</p>

		<b>New Endogenous Growth Theorems:</b> Paul Romer and Robert Lucas; Outline of Intergenerational Economics and Experimental Economics; The capability approach to welfare economics – application to evolving HDI; Feminist Economics and Welfare Theory
<b>(ii)</b>	<b>Unit-II</b>	<b>Social Choice Theory:</b> Need for community decisions and its dilemma - Axiomatic treatment of Individual preferences - Different definitions of Rationality - Choice sets, Maximal sets and other related mathematical concepts - importance of morality - “Rational Fools” - Pareto rules and its extensions - normative evaluations of the existing public choice mechanisms - Arrow’s impossibility and its extensions - Rights and justice - interest, well-being and advantage.
<b>(iii)</b>	<b>Unit-III</b>	<b>Dynamic Issues in Economics:</b> Intertemporal Choice - Intertemporal Production - Overlapping Generations - Tâtonnement and Learning - Introduction to chaos theory - Some economic models with chaos
<b>(iv)</b>	<b>Unit-IV</b>	Databases and Research Metrics: Indexing databases, Citation databases: Web of Science, Scopus etc, Impact Factor of Journal as per Journal Citation Report, SNIP, SJR, IPP, Cite Score, Metrics: h-index, g-index, i10index, Altmetrics
<b>12)</b>	<b>Text Book and References:</b>	
<b>(i)</b>	Barro and Salai-Martin: Growth Theory	
<b>(ii)</b>	Bose, Rakshit and Sinha (eds): Issues in economic Theory and Public Policy	
<b>(iii)</b>	K. H. Borch, The Economics of Uncertainty, Princeton University Press, 2009	
<b>(iv)</b>	Todd Sandler, Economic Concepts for Social Sciences, Cambridge University Press, 2010	
<b>(v)</b>	Mascollel, Whinston, Green: Microeconomic Theory	
<b>(vi)</b>	Mueller: Public Choice	
<b>(vii)</b>	Romer: Advanced Macro-economics	
<b>(viii)</b>	Ronald Shone: Economic Dynamics	
<b>(ix)</b>	Sen: Choice, welfare and Measurement	
<b>(x)</b>	Sen: Collective Choice and social welfare	
<b>(xi)</b>	Varian: Microeconomics	
<b>(xii)</b>	Barro and Salai-Martin: Growth Theory	
<b>(xiii)</b>	Bose, Rakshit and Sinha (eds): Issues in economic Theory and Public Policy	

**Central University of Jharkhand**  
**School of Humanities and Social Sciences**  
**Department of Economics and Development Studies**  
**Ph.D. Economics**  
**Course Curriculum**

1)	<b>Type of Course</b>	Ph.D. Course Work
2)	<b>Name of the Course</b>	FINANCIAL ECONOMICS
3)	<b>Course Code:</b>	ECO911030
4)	<b>Total Credit:</b>	03 (Three)
5)	<b>Floated by/Proposed by</b>	Department of Economics and Development Studies (DEDS)
6)	<b>Who can teach this course</b>	Faculty of the Department of Economics and Development Studies will teach the course.
7)	<b>Overview</b>	
8)	<b>Programme/course objective</b>	The goal of this paper is to introduce the theories and models concerning financial economics helpful for conceptualizing current issues and problems in the relevant field.
9)	<b>Course features and learning outcome</b>	Students acquire extensive theoretical knowledge in portfolio risk management, capital asset pricing, and the operation of financial derivatives. The course familiarises students with the terms and concepts related to financial markets and helps them comprehend business news/articles better. The course also helps to enhance a student's understanding of real life investment decisions. The course has a strong employability quotient given the relatively high demand for skilled experts in the financial sector
10)	<b>Who can attend the course</b>	Ph.D. Students
11)	<b>Course Eligibility/Pre-requisite</b>	M.A. Economics
12)	<b>Course Duration:</b>	One Semester
13)	<b>Course Structure</b>	
(i)	<b>Unit- I</b>	<b>Markets, Models, Interest rates, Utility Maximization, Risk:</b> Financial Markets, Interest Rates; Models of Securities Prices; Optimal Consumption/Portfolio Strategies; Risk <b>Pricing and Hedging of Derivative Securities:</b> Arbitrage and Risk-Neutral Pricing; Options Pricing; Fixed-Income Market Models and Derivatives, Hedging, Bond Hedging, Numerical Models
	<b>Unit-II</b>	<b>Pricing and Hedging of Derivative Securities:</b> Arbitrage and Risk-Neutral Pricing; Options Pricing; Fixed-Income Market Models and Derivatives, Hedging, Bond Hedging, Numerical Models



		<b>Equilibrium Models:</b> Equilibrium fundamentals, CAPM, Multifactor Models, Other Pure Exchange Equilibria
<b>(iii)</b>	<b>Unit-III</b>	<b>Behavioural Finance Theory:</b> Standard Finance vs. Behavioural Finance, Prospect Theory and Investor Psychology, Empirical Evidence. <b>Theory of Financial Intermediation:</b> Financial Intermediaries in the neo-classical model, Why do Financial Intermediaries exist? Empirical Evidence <b>Theory of the Banking Firm:</b> Objectives of a Banking Firm, Theory of Deposit Contracts, Credit Risk and Risk Measurement, Regulation in Banking
<b>(iv)</b>	<b>Unit-IV</b>	<b>Market Microstructure Theory:</b> Trading Mechanisms and the Design of Exchanges, Autocorrelation in Security Prices, Sequential Models and Strategic Models, Regulation of Exchanges
<b>12)</b>	<b>Text Book and References:</b>	
<b>(i)</b>	Bodie and Merton: Finance, Prentice Hall	
<b>(ii)</b>	Campbell, Lo and Mackinlay: The Econometrics of Financial Markets, Princeton University Press	
<b>(iii)</b>	Elton and Gruber: Modern Portfolio Theory and Investment Analysis, John Wiley & Sons. Copeland, T.E., J.F. Weston, and K. Shastri (2005), Financial Theory and Corporate	
<b>(iv)</b>	Fama, E. (1998), Market Efficiency, Long-Term Returns, and Behavioural Finance, Journal of Financial Economics 49, 283-306	
<b>(v)</b>	Daniel, K., D. Hirshleifer, and A. Subrahmanyam (1998), Investor Psychology and Security	
<b>(vi)</b>	Market Under- and Overreaction, Journal of Finance 53, 1839-1885	
<b>(vii)</b>	Shleifer, A. and Vishny (1997), Limits of Arbitrage, Journal of Finance 52, 35-55	

**Central University of Jharkhand**  
**School of Humanities and Social Sciences**  
**Department of Economics and Development Studies**  
**Ph.D. Economics**  
**Course Curriculum**

1)	<b>Type of Course</b>	Ph.D. Course Work
2)	<b>Name of the Course</b>	MONETARY ECONOMICS
3)	<b>Course Code:</b>	ECO911030
4)	<b>Total Credit:</b>	03 (Three)
5)	<b>Floated by/Proposed by</b>	Department of Economics and Development Studies (DEDS)
6)	<b>Who can teach this course</b>	Faculty of the Department of Economics and Development Studies will teach the course.
7)	<b>Overview</b>	
8)	<b>Programme/course objective</b>	The objective of this paper is to understand the monetization of exchange and its relation to the technologies of production and of exchange, and the relation between the nominal quantity of money and aggregate economic activity.
9)	<b>Course features and learning outcome</b>	Taking into account to the fast development of Indian financial sector and increasing role of monetary policy, paper aims to generate theoretical and applied understanding of monetary economics.
10)	<b>Who can attend the course</b>	Ph.D. Students
11)	<b>Course Eligibility/Pre-requisite</b>	M.A. Economics
12)	<b>Course Duration:</b>	One Semester
13)	<b>Course Structure</b>	
(i)	<b>Unit- I</b>	Tobin's General Equilibrium Approach; Blanchard Formulation; its extension; Exchange Rate Dynamics;
	<b>Unit-II</b>	Cagan's model of Hyperinflation; Calvo-Rodriguez Model; Financial Repression; Financial Liberalization; Equilibrium
(iii)	<b>Unit-III</b>	New Structuralist Literature; Dependent and Self Reliant Growth with Foreign Borrowing;
(iv)	<b>Unit-IV</b>	The pure theory of Risk; Financing Vs Forgiving A Debt Overhang; Market-Based Debt Reduction Scheme.
12)	<b>Text Book and References:</b>	
(i)		Tobin, James. "A General Equilibrium Approach To Monetary Theory." Journal of Money, Credit, and Banking, February 1969, 1(1), pp. 15-29.
(ii)		Demirguç-Kunt, Ask and Enrica Detragiache, 1998a. "The Determinants of Banking Crises in Developing and Developed Countries" IMF Staff Papers, 45(1), pp. 81- 109.
(iii)		Diaz-Alejandro, Carlos F., 1985. "Good-Bye Financial Repression, Hello Financial Crash" Journal of Development Economics, 19, pp. 1-24.

<b>(iv)</b>	Edwards, Sebastian, 1999. "On Crisis Prevention: Lessons from Mexico and East Asia" Cambridge, MA: National Bureau of Economic Research Working Paper No. 7233 (July).
<b>(v)</b>	Krugman, Paul, 1979. "A Model of Balance-of-Payments Crises" Journal of Money, Credit, and Banking, 11(August), pp. 311-325.
<b>(vi)</b>	Buffie, Edward, F. (1993), "Direct Foreign Investment, Crowding Out, and Underemployment in the Dualistic Economy" Oxford Economic Papers; 45(4), October 1993, pages 639-67.
<b>(vii)</b>	Caballero, Ricardo and Arvind Krishnamurthy (1998), "Emerging Market Crises: an Asset Markets Perspective," NBER Working Paper No. 6843, December.
<b>(viii)</b>	Corsetti, Giancarlo, Paolo Pesenti, and Nouriel Roubini (1998). "Paper Tigers? A Model of the Asian Crisis," NBER Working Paper No. 6783, November.



**Central University of Jharkhand**  
**School of Humanities and Social Sciences**  
**Department of Political Science and Public Administration**  
**Integrated BA-MA in Political Science**  
**Course Curriculum**

1)	<b>Type of Course</b>	Ph.D. Course Work
2)	<b>Name of the Course</b>	INTERNATIONAL ECONOMICS
3)	<b>Course Code:</b>	ECO911030
4)	<b>Total Credit:</b>	03 (Three)
5)	<b>Floated by/Proposed by</b>	Department of Economics and Development Studies (DEDS)
6)	<b>Who can teach this course</b>	Faculty of the Department of Economics and Development Studies will teach the course.
7)	<b>Overview</b>	
8)	<b>Programme/course objective</b>	The objective of this paper is to understand (1) an analytical training in the critical use of theories of international trade and finance; (2) an opportunity for students to develop critical understanding of the current policy debate on international trade and development, foreign direct investment and multinational corporations, international migration and labour market issues, regional integration and globalization, management of open developing economies with large external shocks, dynamics of currency and financial crises, management of exchange rates and capital accounts, international monetary and financial architecture, and other global economic issues.
9)	<b>Course features and learning outcome</b>	Compare alternative theories of international trade Analyze and test international trade models Evaluate the impact of tariffs and non-tariff barriers Identify the validity and efficiency of protectionist policies Estimate the impact of preferential trade arrangements Read and analyze the nation's balance of payment Understand how a foreign exchange market operates
10)	<b>Who can attend the course</b>	Ph.D. Students
11)	<b>Course Eligibility/Pre-requisite</b>	M.A. Economics
12)	<b>Course Duration:</b>	One Semester
13)	<b>Course Structure</b>	

(i)	<b>Unit- I</b>	<b>Gains from Trade:</b> Patterns of Trade and the gains from Trade: insights from Classical Theory; Trade between dissimilar countries: insights from factor proportions theory; Trade between similar countries: implications of decreasing costs and imperfect competition.
(ii)	<b>Unit-II</b>	<b>Barriers to Trade:</b> The Theory of Protection: tariffs and other barriers to trade; Arguments for protection and the political economy of trader policy
(iii)	<b>Unit-III</b>	<b>World Economic Integration:</b> Regional blocs: Preferential Trade Liberalization; Commercial
(iv)	<b>Unit-IV</b>	<b>International Finance:</b> Determinants of Exchange Rates; The Exchange-Rate Regime Choice and a Common Currency Area; International Debt and Currency Crises; The Role of the IMF and other International Financial Organizations
<b>12)</b>	<b>Text Book and References:</b>	
(i)	Paul R. Krugman and Maurice Obstfeld, International Economics: Theory and Policy, 6 th edition, Addison-Wesley, 2002.	
(ii)	R.E. Caves, J.A. Frenkel and R.W. Jones, World Trade and Payments, Harper Collins.	
(iii)	J. N. Bhagwati, A. Panagariya and T. N. Srinivasan, Lectures on International Trade, 2 nd edition, MIT Press, 1998.	
(iv)	M. Obstfeld and K. Rogoff, Foundation of International Macroeconomics, McGraw-Hill, 1996.	
(v)	Bhagwati, Jagdish, Arvind Panagariya and T. N. Srinivasan. "The Muddles Over Outsourcing." Journal of Economic Perspectives, Vol. 18, No. 4, Fall 2004, pp. 93-114.	
(vi)	Samuelson, Paul. 1971. "An Exact Hume-Ricardo-Marshall Model of International Trade." Journal of International Economics, 19:1, pp. 1-18.	
(vii)	Dixit & Norman, Theory of International Trade, Cambridge, 1980,	
(viii)	Helpman and Krugman, Market Structure and Foreign Trade, MIT Press, 1985.	
(ix)	Brander and Spencer, "Export Subsidies and International Market Share Rivalry," JIE 18, 1985.	
(x)	Eaton and Grossman, "Optimal Trade and Industrial Policy Under Oligopoly," QJE, 1986. Claude Barfield, Free Trade, Sovereignty, Democracy: The Future of the World Trade Organization, Washington, D.C.: AEI Press, 2001	
(xi)	R. Cooper, "Economic Interdependence and Coordination of Economic Policies," Handbook of International Economics, Vol. II, 1985	
(xii)	J. Sachs, "Managing the LDC Debt Crisis," Brooking Papers on Economic Activity 2, 1986. Joseph Stiglitz, Globalization and Its Discontents, New York: W.W. Norton, 2002, Chapters 1-4. Frederic S. Mishkin, "Global Financial Instability: Framework, Events, Issues," JEP, Vol. 13, No. 4, 1999	
(xiii)	Kenneth Rogoff, "International Institutions for Reducing Global Financial Instability," JEP, Vol. 13, No. 4, 1999	
(xiv)	Sebastian Edwards, "How Effective are Capital Controls?," JEP, Vol. 13, No. 4, 1999 Stanley	
(xv)	Fischer, "On the Need for an International Lender of Last Resort," JEP, Vol. 13, No. 4, 1999	

**Central University of Jharkhand**  
**School of Humanities and Social Sciences**  
**Department of Economics and Development Studies**  
**Ph.D. Economics**  
**Course Curriculum**

1)	<b>Type of Course</b>	Ph.D. Course Work
2)	<b>Name of the Course</b>	BASIC ECONOMETRICS
3)	<b>Course Code:</b>	ECO911030
4)	<b>Total Credit:</b>	03 (Three)
5)	<b>Floated by/Proposed by</b>	Department of Economics and Development Studies (DEDS)
6)	<b>Who can teach this course</b>	Faculty of the Department of Economics and Development Studies will teach the course.
7)	<b>Overview</b>	
8)	<b>Programme/course objective</b>	The objective of this subject is to review some basic econometrics concepts and methods, and to prepare students for basic empirical work in economics.
9)	<b>Course features and learning outcome</b>	This course teaches students how to comprehend data and how it relates to developing a grasp of statistical quantitative procedures. The course has a strong employability quotient given the relatively high demand for skilled experts.
10)	<b>Who can attend the course</b>	Ph.D. Students
11)	<b>Course Eligibility/Pre-requisite</b>	M.A. Economics
12)	<b>Course Duration:</b>	One Semester
13)	<b>Course Structure</b>	
(i)	<b>Unit- I</b>	<b>The Linear Regression Model</b> – Functional forms of regression models, qualitative explanatory variables regression models, regression diagnostics – multicollinearity, heteroscedasticity, autocorrelation, model specification errors., model specification errors.
(ii)	<b>Unit-II</b>	<b>Regression diagnostics</b> – multicollinearity, heteroscedasticity, autocorrelation, model specification errors, model specification errors.
(iii)	<b>Unit-III</b>	<b>Regression Models with Cross-Sectional Data</b> – The logit and probit models, multinomial regression models, ordinal regression models, limited dependent variable regression models, poisson and negative binomial regression models,
(iv)	<b>Unit-IV</b>	<b>Time Series Econometrics</b> – stationary and non-stationary time series, cointegration and error correction models, ARCH and GARCH models, economic forecasting, panel data regression models, survival analysis, stochastic regressors and the method of instrumental variables.
12)	<b>Text Book and References:</b>	

<b>(i)</b>	D. N. Gujarati and D.C. Porter, Essentials of Econometrics, McGraw Hill, 4 th Edition, International Edition, 2010.
<b>(ii)</b>	Christopher Dougherty, Introduction to Econometrics, Oxford University Press, 3 rd Edition, Indian Edition, 2007.
<b>(iii)</b>	Jan Kmenta, Elements of Econometrics, Indian Reprint, Khosla Publishing House, 2 <sup>nd</sup> edition, 2008.
<b>(iv)</b>	Jeffrey M. Wooldridge, Econometrics, Cengage Learning, India Edition, 2009.
<b>(v)</b>	Dimitrios Asteriou and Stephen Hall, Applied Econometrics: A Modern Approach, Palgrave Macmillan, 2007.



**Central University of Jharkhand**  
**School of Humanities and Social Sciences**  
**Department of Economics and Development Studies**  
**Ph.D. Economics**  
**Course Curriculum**

1)	<b>Type of Course</b>	Ph.D. Course Work
2)	<b>Name of the Course</b>	REGIONAL DEVELOPMENT IN INDIA
3)	<b>Course Code:</b>	ECO911030
4)	<b>Total Credit:</b>	03(Three)
5)	<b>Floated by/Proposed by</b>	Department of Economics and Development Studies (DEDS)
6)	<b>Who can teach this course</b>	Faculty of the Department of Economics and Development Studies will teach the course.
7)	<b>Overview</b>	
8)	<b>Programme/course objective</b>	The objective of the course is to acquaint students with regional development in India and issues of regional disparity.
9)	<b>Course features and learning outcome</b>	Students are expected to have obtained the skills in understanding a region, its dynamics, and planning complexities, once they undergo this course.
10)	<b>Who can attend the course</b>	Ph.D. Students
11)	<b>Course Eligibility/Pre-requisite</b>	M.A. Economics
12)	<b>Course Duration:</b>	One Semester
13)	<b>Course Structure</b>	
(i)	<b>Unit- I</b>	<b>Significance of Regional Disparities:</b> Theories of Divergence and Convergence; Measures of Divergence and Convergence; Regional Disparities in Colonial India. Regional Disparities in post-independence India: Trends in Regional Disparities in Income Consumption; Sectoral Income and Employment Patterns across regions.
(ii)	<b>Unit-II</b>	<b>Regional Distribution of Industrial Development:</b> Industrial Locational Theories, Dispersal of Industries to Backward Areas under Licensing Regime, Spatial Concentration of Industries in Liberalised Regime, Regional Differences in Industrial Wages
(iii)	<b>Unit-III</b>	<b>Regional Disparities in Agricultural Growth and Productivity:</b> Trends in regional agro production and productivity, Role of Public Spending
(iv)	<b>Unit-IV</b>	<b>Regional Distribution of Infrastructure:</b> Trends in regional disparities in Infrastructure, Association with Regional Disparities in Development
12)	<b>Text Book and References:</b>	

<b>(i)</b>	Adelman, I. and C.T. Morris (1973) – Economic Growth and Social Equity in Developing Countries, Stanford, USA
<b>(ii)</b>	Ahluwalia, M. (1976) – “Inequality, Poverty, and Development”, Journal of Development Economics, Vol. 6
<b>(iii)</b>	Anand, S. and R. Kanbur (1993) – “The Kuznets Process and the Inequality-Development Relationship”, Journal of Development Economics, Vol. 40
<b>(iv)</b>	Anand, S. and R. Kanbur (1993a) – “Inequality and Development: A Critique”, Journal of Development Economics, Vol. 41
<b>(v)</b>	Dimitrios Asteriou and Stephen Hall, Applied Econometrics: A Modern Approach, Palgrave Macmillan, 2007. Kuznets, S. (1955) – “Economic Growth and Economic Inequality, American Economic Review, Vol. 45,
<b>(vi)</b>	Kuznets, S. (1963) – “Quantitative Aspects of Economic Growth of Nations: VIII, Distribution of Income by Size”, Economic Development and Cultural Change, Vol. 12.
<b>(vii)</b>	Mathur, Ashok (2000), National and Regional Growth Performance in the Indian Economy, in Reform and Employment, New Delhi, IAMR and Concept Publishers.
<b>(viii)</b>	Shand, Ric and S. Bhide (2000), “Sources of Economic Growth: Regional Dimensions of Reforms,” Economic and Political Weekly, Vol. 35, No. 42, October 14.

**Central University of Jharkhand**  
**School of Humanities and Social Sciences**  
**Department of Economics and Development Studies**  
**Ph.D. Economics**  
**Course Curriculum**

1)	<b>Type of Course</b>	Ph.D. Course Work
2)	<b>Name of the Course</b>	INDUSTRIAL ECONOMICS
3)	<b>Course Code:</b>	ECO911040
4)	<b>Total Credit:</b>	03(Three)
5)	<b>Floated by/Proposed by</b>	Department of Economics and Development Studies(DEDS)
6)	<b>Who can teach this course</b>	Faculty of the Department of Economics and Development Studies will teach the course.
7)	<b>Overview</b>	The knowledge that the Scholars will derive from the course is useful for further study of firms, markets, and strategic interaction between firms and the determinants of industrial structure.
8)	<b>Programme/course objective</b>	This course aims to: provide students with the analytical skills required for understanding problems in industrial economics, including applications of game theory examine the key questions on the internal organisation of firms analyse various aspects of strategic interaction between firms and the determinants of industrial structure
9)	<b>Course features and learning outcome</b>	At the end of this course and having completed the essential reading and activities students should be able to: describe and explain the determinants of the size and structure of firms and the implications of the separation of ownership and control
10)	<b>Who can attend the course</b>	This course is suitable for Research Scholars of Economics and Development Studies.
11)	<b>Course Eligibility/Pre-requisite</b>	Ph.D. Students
12)	<b>Course Duration:</b>	One Semester
13)	<b>Course Structure</b>	
(i)	<b>Unit- I</b>	<b>Theory of the Firm:</b> Undifferentiated Products - Cournot, Stackelberg, Dominant firm model, Bertrand-Heterogeneous products - Chamberlin's small and large number case- Kinked demand curve theory - Bain's limit pricing - Sales and growth maximization hypothesis – Managerial theories of the firm - Game theoretical models.

		<p><b>Investment Decisions:</b> Conventional and modern methods - Risk and uncertainty – Sensitivity analysis - Financial statements and ratio analysis - Inflation accounting - Project appraisal methods – Industrial finance-Sources of finance - Capital structure - Incentive, signalling and control arguments - Separation of ownership and control.</p>
(ii)	Unit-II	<p><b>Vertically Related Markets and Competition Policy:</b> Successive and mutually related market power - Monopoly, variable proportions and price discrimination - Monopsony and backward integration - Uncertainty - Diversification, rationing and cost economics and asset specificity - Internal hierarchies- Hierarchies as information systems - Incentive structures and internal labour markets - Supervision in hierarchies - Competition policy: Need and requirements - Mergers and acquisitions - Coordination with other policies.</p>
(iii)	Unit-III	<p><b>Product market Differentiation and Imperfect Information:</b> Lancasterian and Hotelling approaches – representative consumer approach and Chamberlin’s model of diversity of tastes - The address approach -Competition in address-Free entry-Pure profit and non-uniqueness in free entry equilibrium product diversity and multi address firms - Bargains and rip-offs - Theory of sales - Quality and reputations-Product variety- Imperfect discrimination and price dispersions -Advertising - Dorfman Steiner condition - Lemons and information asymmetries.</p>
(iv)	Unit-IV	<p><b>Technical Change and Market Structure:</b> The Economics of patents - Adoption and diffusion of innovations - Innovations and rivalry : Kamien and Schwartz - Measures of concentration -Concentration ratio - Hirschman - Herfindahl index - Entropy measure - Structure conduct performance paradigm - Contestable markets - Fixed costs, Sunk costs and contestability -Stackelberg - Spence – Dixit model.</p> <p><b>Indian Industry:</b> Industrial growth in India: Trends and prospects – Public enterprises; efficiency, productivity and performance constrains - Small scale industries : definition, role, policy issues and performance - Capacity utilization - Industrial sickness and Exit policy - Concept of competitiveness - Nominal protection coefficients (NPC) and effective rate of protection (ERP) – Total factor productivity - Technology transfer - Pricing policies: Administered pricing and LRMC based tariffs – Industrial location policy in India; regional imbalance - Globalization and competition - Privatization.</p>
12)	<b>Text Book and References:</b>	



<b>(i)</b>	Ahluwalia, I. J. (1985), <i>Industrial Growth in India – Stagnation since Mid-sixties</i> , Oxford University Press, New Delhi.
<b>(ii)</b>	Ahluwalia, I. J. (1991), <i>Productivity and Growth in Indian Manufacturing</i> , Oxford University Press, New Delhi.
<b>(iii)</b>	Desai, A. V. (1994), “Factors Underlying the Slow Growth of Indian Industry”, in <i>Indian Growth and Stagnation - The Debate in India</i> Ex. Deepak Nayyar, Oxford University Press.
<b>(iv)</b>	Ferguson, Paul R. and Glenys J. Ferguson, (1994), <i>Industrial Economics - Issues and Perspectives</i> , Macmillan, London.
<b>(v)</b>	Shepher, William G. (1985), <i>The Economics of industrial Organisation</i> , Prentice - Hall, Inc, Englewood Cliffs, N. J.
<b>(vi)</b>	Staley, E & Morse R. (1965), <i>Modern Small Industry for Developing Countries</i> , McGraw Hill Book Company.
<b>(vii)</b>	Vepa R. K. (1988), <i>Modern Small Industry in India</i> , Sage Publications.
<b>(viii)</b>	Srivastava, M.P. (1987), <i>Problems of Accountability of Public Enterprises in India</i> , Uppal Publishing House, New Delhi.

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**Department of Economics and Development Studies**  
**Ph.D. Economics**  
**Course Curriculum**

1)	<b>Type of Course</b>	Ph.D. Course Work
2)	<b>Name of the Course</b>	Agricultural Economics
3)	<b>Course Code:</b>	ECO911040
4)	<b>Total Credit:</b>	03 (Three)
5)	<b>Floated by/Proposed by</b>	Department of Economics and Development Studies(DEDS)
6)	<b>Who can teach this course</b>	Faculty of the Department of Economics and Development Studies will teach the course.
7)	<b>Overview</b>	The aim of this subject is to acquaint the scholars of doctorate program with the policy and issues of agriculture sector in India.
8)	<b>Programme/course objective</b>	The aim of this subject to familiarise the students with the importance of agricultural economics, policies in the Indian landscape and issues
9)	<b>Course features and learning outcome</b>	On successful completion of the course the scholar would be able to understand how the agricultural sector of the economy works and how the issues are being resolved through policy tools. They will also be appraised about the current issues in the area.
10)	<b>Who can attend the course</b>	This course is suitable for Research Scholars of Economics and Development Studies.
11)	<b>Course Eligibility/Pre-requisite</b>	Ph.D. Students
12)	<b>Course Duration:</b>	One Semester
13)	<b>Course Structure</b>	
(i)	<b>Unit- I</b>	<b>Importance of Agricultural Economics</b> - Agriculture and Economic Development, Future Role of Agriculture, Main Feature of Indian Agriculture and Agricultural Policy, Soil Erosion, Conservation, and Sustainable Agriculture <b>Land Use</b> - Land Utilization & Cropping Pattern, Forest and Social Forestry, Operational Holdings, Fragmentation and Sub Division of Holdings, Land Reforms
(ii)	<b>Unit-II</b>	<b>Agricultural Marketing and Pricing:</b> Agricultural Price and Policy; Role of CACP; MSP and its impact, Agricultural Commodity Futures and Options; Nature and Principles of Future Markets; Participants in Future Markets; Trading in the Presence of Risk Aversions and Transaction Costs, Future Prices as Forecasts; Impact of Futures Trading, Agro-processing as Marketing Strategy; Specificities of Agro-processing, Developmental Role of Agro-processing Industries,

		Selection and Evolution Options; Food Processing Policy of India, 2005.
(iii)	<b>Unit-III</b>	<b>Recent Issues in India Agriculture:</b> Mechanization in Agriculture; Sources of Irrigation; Impact of Irrigation; Agricultural Finance: Agency Relationship, Adverse Selection, Moral Hazards and Enforcement Problem; Segmented Rural Credit Markets; Resolving Information and Incentive Problems; Managing Borrowers' Credit Risks, Agribusiness and Trade Financing and Role of Social Capital; Taxation on Agricultural Income; Role of NABARD.
(iv)	<b>Unit-IV</b>	<b>Farm Management-</b> Farm Organization, Farm Planning & Budgeting, Co-operative farming <b>Political Economy of Global Agricultural Economics:</b> Protection across countries and sectors, Influence of global financial and political institutions; Collective actions of lobbying groups; Use of inefficient instruments and rent seeking; Public investment in agricultural research and TRIPS
<b>14)</b>	<b>Text Book and References:</b>	
(i)	Agrawal, A.N. : Indian Agriculture	
(ii)	Bruce L. Gardner and Gordon C. Rausser (2002):Handbook of Agricultural Economics, Vol-1A,1B, 2A, 2B and 3; North-Holland, Amsterdam	
(iii)	Eicher, C.K. and L.W. Witt: Agriculture in Economic Development	
(iv)	Government of India (2004):State of the Indian Farmer : A Millennium Study, AcademicFoundation and Ministry of Agriculture, New Delhi, (Vol. 1-27)	
(v)	Radhakrishna R, S. K. Rao, S. Mahendra Dev and K Subbarao (2006): India in a Globalising World: Some Aspects of Macro economy, Agriculture and Poverty, Academic foundation, New Delhi.	
(vi)	Sadhu & Singh : Agricultural Economics	
(vii)	T.W.Schultz (1981): Investing in Peoples: The Economics of Population Quality, University of California, Berkley.	
(viii)	Tygi, B.P. - Agricultural Economics & Rural Development	

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**Department of Economics and Development Studies**  
**Ph.D. Economics**  
**Course Curriculum**

1)	<b>Type of Course</b>	Ph.D. Course Work
2)	<b>Name of the Course</b>	ECONOMICS OF HUMAN RESOURCE
3)	<b>Course Code:</b>	ECO911040
4)	<b>Total Credit:</b>	03 (Three)
5)	<b>Floated by/Proposed by</b>	Department of Economics and Development Studies (DEDS)
6)	<b>Who can teach this course</b>	Faculty of the Department of Economics and Development Studies will teach the course.
7)	<b>Overview</b>	The course is intended to equip the students with a) the role of human resource management in the development and compensation of human resources in an organization and contemporary developments b) To provide the students a broad understanding of the fundamental economic concepts in health, health care and health policy. c) Understanding conceptual, legal, and empirical issues pertaining to labour in India.
8)	<b>Programme/course objective</b>	To equip the research scholars with the requisite and pertinent tools and techniques relevant for undertaking research in the field of human resource management and allied areas; enable them to gain expertise on advanced topics in human resource management, employment relations and other related areas.
9)	<b>Course features and learning outcome</b>	On successful completion of this course, students will be able to apply economic analysis to the management of human resources, Identify the considerations relevant to designing recruitment and retention strategies and compare the effectiveness of different incentives and compensation schemes to increase productivity.
10)	<b>Who can attend the course</b>	
11)	<b>Course Eligibility/Pre-requisite</b>	M.A. Economics
12)	<b>Course Duration:</b>	One Semester
13)	<b>Course Structure</b>	
(i)	<b>Unit- I</b>	<b>Human Capital Theories:</b> Theories of Human resource: relevance of Theory of Human Capital to Education, Health, Information and Migration; Household Economic theory - Supply of Human resource; Human capital and Economic



		development – Human development; Criticism to Human Capital theory.
(ii)	<b>Unit-II</b>	<b>Human Resource Management:</b> Education and Economic Development – Investment in education and training; Role of government in the provision of Education; On the Job training; Impact of Education on Agriculture and Industrial Productivity; Measurement of Human Resource; Manpower Planning.
(iii)	<b>Unit-III</b>	<b>Health Economics:</b> Investment in Health – Relevance of health economics; Micro economic tools for health Economics; Supply and demand for health; Consumption and investment aspects of Health; Health Insurance - Moral hazard - Demand and supply for Insurance; Role of Government in provision of Health; Costs of providing Health Services.
(iv)	<b>Unit-IV</b>	<b>Labour Market and Quality of Labour:</b> Demand for labour - Demand for Human resources; Short run and long run changes in the demand for labour; Supply of Labour and Market segmentation; Wage Theories –Trade Union and Wages; Evaluating the Labour Market –Qualitative Aspects; Labour Force participation- Trends in India; Allocation of Time – Value of Non-market work.
<b>12)</b>	<b>Text Book and References:</b>	
(i)	Berman, P. (Ed.) (1995) - Health Sector Reform in Developing Countries: Making Health Development Sustainable, Boston: Harvard Series on Population and International Health.	
(ii)	Blaug, M (1972) - Introduction to Economics of Education (Penguin)	
(iii)	Cohen, E and T. Gaske (1989) - Economics of Education. Pergamon Press, London Deshpande,	
(iv)	S., G. Standing, and L.K. Deshpande, (1998), Labour Flexibility in a Third World Metropolis, Commonwealth Publishers, New Delhi.	
(v)	Foster, A.D. and M.R. Rosenberg, (1993), Information Flows and Discrimination in Labour Markets in Rural Areas in Developing Countries, Annual Conference on Development Economics, World Bank, Washington D.C	
(vi)	Jhabvala, R. and R.K. Subrahmanya (Eds.) (2000), The Unorganised Sector : Work Security and Social Protection, Sage Publications, New Delhi.	
(vii)	Kannapon, S. (1983), Employment Problems and Urban Labour Markets in Developing Countries, University of Michigan, Ann Arbor.	
(viii)	McConnell, C.R. and S.L. Brue (1986), Contemporary Labour Economics, McGraw-Hill, New York.	
(ix)	McMohan, W.W. (1999) - Education and Development : Measuring the Social Benefits, Oxford University Press, Oxford.	
(x)	Riveros, L. (1990), Labour Market Policies and Labour Market Reforms in Socialist Economies, World Bank, Washington D.C..	
(xi)	Rosenberg M.R. (1988), Labour Markets in Low Income Countries in Chenery, H.B. and	

<b>(xii)</b>	T.N. Srinivasan, (Eds.), The Handbook of Development Economics, North-Holland, New York.
<b>(xiii)</b>	Schultz, T. W(1971) - Investment in Human Capital, Free Press, New York.
<b>(xiv)</b>	Tilak, J.B.G. (1994) - Education for Development in Asia, Sage Publications, New Delhi. World
<b>(xv)</b>	Bank (1993) - The World Development Report, 1993 : Investing in Health, Oxford University Press, New York.

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**School of Humanities and Social Sciences**  
**Department of Economics and Development Studies**  
**Ph.D. Economics**  
**Course Curriculum**

1)	<b>Type of Course</b>	Ph.D. Course Work
2)	<b>Name of the Course</b>	ECONOMICS OF INFRASTRUCTURE AND DEVELOPMENT
3)	<b>Course Code:</b>	ECO911040
4)	<b>Total Credit:</b>	03(Three)
5)	<b>Floated by/Proposed by</b>	Department of Economics and Development Studies(DEDS)
6)	<b>Who can teach this course</b>	Faculty of the Department of Economics and Development Studies will teach the course.
7)	<b>Overview</b>	This course is designed to introduce the role of infrastructure in economic growth. The broad view of physical as well as social infrastructure will be dealt in depth which will be helpful for the research Scholars
8)	<b>Programme/course objective</b>	<p>Course objectives</p> <p>Review the existing status of infrastructure as a whole, and the extant polices relating to infrastructure development in India and other developing countries.</p> <p>Identify the inadequacies in different infrastructure sectors and the policy changes required to facilitate rapid infrastructure development.</p> <p>Discuss new methods employed in addressing issues particularly relating to sustainability and regulatory practices.</p> <p>Discuss the role of public private participation in financing of infrastructure.</p>
9)	<b>Course features and learning outcome</b>	<p>Learning outcomes The expected learning outcome is enhanced critical and informed understanding of infrastructure development in India and other developing countries. At the end of the course, the participants would be able to</p> <ul style="list-style-type: none"> <li>▪ Critically reflect on the challenges in the development of sustainable infrastructure</li> <li>▪ Achieve a level of well-informed professional so that he contributes to the delivery of infrastructure development and management</li> </ul>
10)	<b>Who can attend the course</b>	Ph.D. Students
11)	<b>Course Eligibility/Pre-requisite</b>	MA Economics

<b>12)</b>	<b>Course Duration:</b>	One Semester
<b>13)</b>	<b>Course Structure</b>	
<b>(i)</b>	<b>Unit- I</b>	<p><b>Infrastructure and Economic Development</b> – Definition, Meaning, Classification of infrastructure (Social and Economic Infrastructure), Urban and Rural Infrastructure schemes in India – PURA, Growth of infrastructure under plans; Spatial aspects of development and linkages with infrastructure; Impact of Physical and Social Infrastructure on Development</p> <p><b>Physical Infrastructure – I (Energy and Power)</b> - Energy: Sources of Energy – Sources of Commercial and Non Commercial Energy Resources – Growth and Present Status – Energy Crisis in India; Power: Growth and Present Status – Rural Electrification in India – Problem of Power Shortage in India – Problem of SEBs in India.</p>
<b>(ii)</b>	<b>Unit-II</b>	<p><b>Physical Infrastructure – II (Transport &amp; Communication)</b> - Significance of Transport Infrastructure; Factors affecting Transport Network - Growth and Present status of Transport System in India; Impact of Transport Development on location of economic activities; Transport Sector Reforms in India; Postal and Telegraph. Telecommunication and Information Technology; Major issues in IT – Growth and present status of IT industry in India; Implications for Regional Development</p>
<b>(iii)</b>	<b>Unit-III</b>	<p><b>Physical Infrastructure – III (Irrigation)</b> - Water Resource and Irrigation Types; Impact of Irrigation on Agriculture; Role of Public Provisioning</p> <p><b>Social Infrastructure:</b> Growth and present status of Social Infrastructure – Education, Health, Housing and Banking &amp; Insurance; Impact of Social Infrastructure on Human and Economic Development</p>
<b>(iv)</b>	<b>Unit-IV</b>	<p><b>Infrastructure Demand &amp; Financing:</b> Demand Simulation for Infrastructure, Financing Needs, Infrastructure Financing in Plan Period, Infrastructure Financing in Recent Times, Privatisation</p>
<b>12)</b>	<b>Text Book and References:</b>	
<b>(i)</b>	Baru, R.V. (1998), Private Health Care in India: Social Characteristics and Trends, Sage Publications, New Delhi.	
<b>(ii)</b>	Becker, G.S. (1974), Human Capital (2nd Edition), National Bureau of Economic Research, New York.	
<b>(iii)</b>	Berman, P. and M.E. Khan (1993), Paying for India's Health Care, Sage Publications, New Delhi.	



<b>(iv)</b>	Centre for Monitoring Indian Economy (1996), India: Energy Sector, CMIE, Mumbai. Crew,
<b>(v)</b>	M.A. and P.R. Kleindorfer (1979), Public Utility Economics, Macmillan, London. Indian Council of Social Sciences Research (ICSSR) (1976), Economics of Infrastructure Vol. VI, New Delhi.
<b>(vi)</b>	McMohan, W.W. (1999), Education and Development: Measuring the Social Benefits, Oxford University Press, Oxford.
<b>(vii)</b>	National Council of Applied Economic Research (NCAER) (1996), India Infrastructure Report: Policy Implications for Growth and Welfare, NCAER, New Delhi.
<b>(viii)</b>	Parikh, J. (Ed.) (1997), Energy Models for 2000 and Beyond, Tata McGraw-Hill, New Delhi.
<b>(ix)</b>	Parikh, K.S. (Ed.) (1997), India Development Report 1997, Oxford, New Delhi.
<b>(x)</b>	Parikh, K.S. (Ed.) (1999), India Development Report — 1999-2000, Oxford, New Delhi.

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**Ph.D. Economics**  
**Course Curriculum**

1)	<b>Type of Course</b>	Ph.D. Course Work
2)	<b>Name of the Course</b>	LABOUR ECONOMICS
3)	<b>Course Code:</b>	ECO911040
4)	<b>Total Credit:</b>	03(Three)
5)	<b>Floated by/Proposed by</b>	Department of Economics and Development Studies(DEDS)
6)	<b>Who can teach this course</b>	Faculty of the Department of Economics and Development Studies will teach the course.
7)	<b>Overview</b>	This course is designed to introduce the role of infrastructure in economic growth. The broad view of physical as well as social infrastructure will be dealt in depth which will be helpful for the research Scholars
8)	<b>Programme/course objective</b>	The paper makes students aware of different theories on labour and employment and development from the point of view of economic research. It provides details analysis on the latest development of labour market in developing countries with reference to India. The paper also identifies relevant issues on economic research on the aspect of labour and development.
9)	<b>Course features and learning outcome</b>	Students will be able to understand the theoretical and empirical aspects and prepare them well to carry out meaningful and better quality research in the area of labour and development.
10)	<b>Who can attend the course</b>	Ph.D. Students
11)	<b>Course Eligibility/Pre-requisite</b>	M.A. Economics
12)	<b>Course Duration:</b>	One Semester
13)	<b>Course Structure</b>	
(i)	<b>Unit- I</b>	<b>Theories of Population Growth and Employment:</b> Changing Composition of Employment; Theories of Labour Surplus and Labour Transfer
(ii)	<b>Unit-II</b>	<b>Conceptual and Measurement Issues of Labour Force:</b> Sectoral Distribution of Labour Force; Employment, Unemployment and Underemployment
(iii)	<b>Unit-III</b>	<b>Poverty Employment Linkages:</b> Poverty and Non-availability of Work, Working Poor

		<b>Conditions of Labour Market in India:</b> Working Conditions, Wages and Earnings, Changing patterns of Labour Market, Issues of Child Labour
(iv)	<b>Unit-IV</b>	<b>Discrimination in Labour Market:</b> Gender and Caste Discrimination, Endowment and Bias, Entry Barrier and Wage Discrimination, Unorganised Labour Force – Trends in Unorganised Labour Force; Social Security for Unorganised Workers Recent Employment Generation Schemes in India: Experiences of NREGA, Experiences of IREP
<b>12)</b>	<b>Text Book and References:</b>	
(i)	Breman, J. (1996), Footloose Labour: Working in India's Informal Economy, Cambridge University Press, Cambridge.	
(ii)	Custers, P. (1997), Capital Accumulation and Women's Labour in Asian Economies, Vistaar, New Delhi.	
(iii)	Deshpande, S., G. Standing, and L.K. Deshpande, (1998), Labour Flexibility in a Third World Metropolis, Commonwealth Publishers, New Delhi.	
(iv)	Foster, A.D. and M.R. Rosenberg, (1993), Information Flows and Discrimination in Labour Markets in Rural Areas in Developing Countries, Annual Conference on Development Economics, World Bank, Washington D.C	
(v)	Hajela, P.D. (1998), Labour Restructuring in India: A Critique of the New Economic Policies, Commonwealth Publishers, New Delhi.	
(vi)	Jhabvala, R. and R.K. Subrahmanya (Eds.) (2000), The Unorganised Sector: Work Security and Social Protection, Sage Publications, New Delhi.	
(vii)	Kalpagam, U. (1994), Labour and Gender: Survival in Urban India, Sage Publications, New Delhi.	
(viii)	Kannapon, S. (1983), Employment Problems and Urban Labour Markets in Developing Countries, University of Michigan, Ann Arbor.	
(ix)	McConnell, C.R. and S.L. Brue (1986), Contemporary Labour Economics, McGraw-Hill, New York.	
(x)	Misra, L. (2000), Child Labour in India, Oxford University Press, New Delhi.	
(xi)	Papola, T.S. and Sharma, A.N. (Eds.) (1999), Gender and Employment in India, Vikas Publishing House, New Delhi.	
(xii)	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.	
(xiii)	Riveros, L. (1990), Labour Market Policies and Labour Market Reforms in Socialist Economies, World Bank, Washington D.C.	
(xiv)	Rosenberg M.R. (1988), Labour Markets in Low Income Countries in Chenery, H.B. and T.N. Srinivasan, (Eds.), The Handbook of Development Economics, North-Holland, New York.	
(xv)	Sharma. A.N. and A. Kundu (Ed.) (2001), Informal Sector in India : Emerging Perspectives, Institute for Human Development, New Delhi.	
(xvi)	Venkata Ratnam, C.S. (2001), Globalization and Labour-Management Relations: Dynamics of Change, Sage Publications/Response Books, New Delhi.	

**Central University of Jharkhand**  
**School of Humanities and Social Sciences**  
**Department of Economics and Development Studies**

**Course Curriculum**

1)	<b>Type of Course</b>	Ph.D. Course Work
2)	<b>Name of the Course</b>	Research and Publications Ethics
3)	<b>Course Code:</b>	ECO911050
4)	<b>Total Credit:</b>	02 (Two)
5)	<b>Floated by/Proposed by</b>	Department of Economics and Development Studies(DEDS)
6)	<b>Who can teach this course</b>	Faculty of the Department of Economics and Development Studies will teach the course.
7)	<b>Overview</b>	Research ethics provides researchers with the guidelines to conduct their research responsibly. It monitors and educates researchers to ensure that high ethical standards are kept throughout the research process. Generally, research ethics focuses on the analysis of ethical concerns that come up when people are involved research.
8)	<b>Programme/course objective</b>	To understand the philosophy of science and ethics, research integrity and publication ethics. To identify research misconduct and predatory publications. To understand indexing and citation databases, open access publications, research metrics (citations, h-index, impact Factor, etc.). To understand the usage of plagiarism tools.
9)	<b>Course features and learning outcome</b>	After completion of the course, students will able to learn how to be aware about the publication ethics and publication misconducts, understand the philosophy of science and ethics and research integrity, develop hands-on skills to identify research misconduct and predatory publications, differentiate indexing and citation databases, open access publication and research metrics, use plagiarism tools effectively.
10)	<b>Who can attend the course</b>	Ph.D. Students
11)	<b>Course Eligibility/Pre-requisite</b>	M.A. Economics
12)	<b>Course Duration:</b>	One Semester
13)	<b>Course Structure</b>	
(i)	<b>Unit- I</b>	Philosophy and Ethics: Introduction to Philosophy: definition, nature and scope, concept, branches Ethics: definition, moral philosophy, nature of moral judgements and reactions.

		Scientific Conduct: Ethics with respect to science and research, Intellectual honest and research integrity, Scientific misconducts: Falsification, Fabrication, and Plagiarism (FFP), Redundant publications: Duplicate and overlapping publications, salami slicing, selective reporting and misrepresentation of data
		Publication Ethics: Publication ethics: definition, introduction and importance, Best practices/standards setting initiatives and guidelines: COPE, WAME, etc., Conflict of interest, Publication misconduct: definition, concept, problems that lead to unethical behaviour and vice versa, types. Violation of publication ethics, authorship and contributorship, Identification of publication misconduct, complaints and appeals, Predatory publishers, and journals
(ii)	<b>Unit-II</b>	Open Access Publishing: Open access publications and initiatives, SHERPA/RoMEO online resource to check publisher copyright & self-archiving policies, Software tool to identify predatory developed by SPPU, Journal finder/Journal suggestion tools viz., JANE, Elsevier Journal Finder, Springer Journal Suggester, etc.
		Publication Misconduct: Subject specific ethical issues, FFP, authorship, Conflict of interest, Complaints, and appeals: examples and fraud from India and abroad
		Databases and Research Metrics: Indexing databases, Citation databases: Web of Science, Scopus etc, Impact Factor of Journal as per Journal Citation Report, SNIP, SJR, IPP, Cite Score, Metrics: h-index, g-index, i10index, Altmetrics
<b>12)</b>	<b>Text Book and References:</b>	
(i)	Bird, A. (2006). Philosophy of Science, Routledge.	
(ii)	MacIntyre, Alasdair (1967), A Short History of Ethics, London.	
(iii)	P. Chaddah, (2018) Ethics in Competitive Research: Do not get scooped, do not get plagiarized, ISBN: 978-9387480865.	
(iv)	National Academy of Sciences, National Academy of Engineering and Institute of Medicine (2009), On Being a Scientist: A Guide to Responsible Conduct in Research, Third Edition, National Academies Press.	
(v)	Resnik, D.B. (2011), What is ethics in research & why is it important, National Institute of Environmental Health Sciences, 1-10.	