

**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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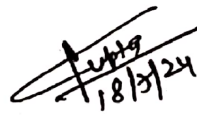
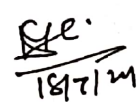
Agenda Item: 06 | Any other matter

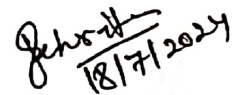
Any other matter may be discussed apart from the Agenda Items with the permission of the Chair.

  
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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.	SIHANISH 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. Anil 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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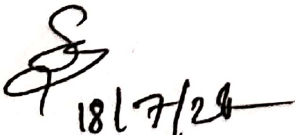
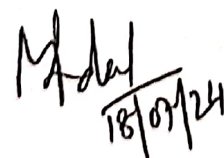

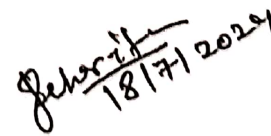
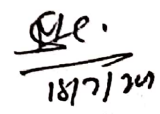
**Central University of Jharkhand**  
**School of Humanities and Social Sciences**  
**Department of Economics and Development Studies**  
**Ph. D. Program**

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

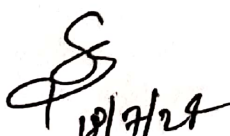

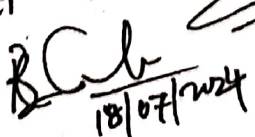


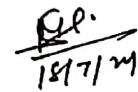
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**Central University of Jharkhand**  
**School of Social Sciences**  
**Department of Economics and Development Studies**

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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- 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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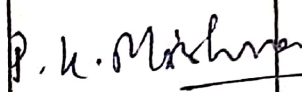
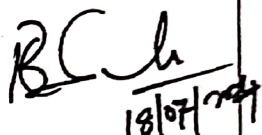
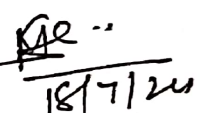

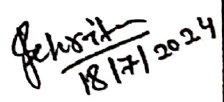

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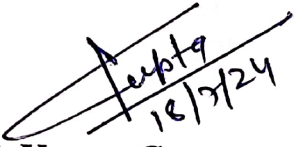
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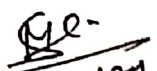


SN	Members	Designation	Signature
1	Dr. Alok Kumar Gupta	Associate Professor, DPSPA Dean: School of Social Science as Chairman	 18/7/24
2	Prof. Narayan Chandra Nayak	Professor, Department of Humanities and Social Sciences, IIT Kharagpur, Kharagpur, West Bengal.	Email approved attached
3	Prof. Bikram Keshari 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. DEDES, SHSS, CUJ, Ranchi, Jharkhand. (Member)	 18/7/2024
9	Dr. Linkon Mondal	Asst. Prof. DEDES, 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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**Dr. Alok Kumar Gupta**  
Associate Professor  
Dean—School of Social Sciences

**Dean**

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

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18/7/24



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

### THREE YEARS OF FIVE YEARS INTEGRATED B.A.-M.A. PROGRAMME

### BACHELOR OF ARTS IN ECONOMICS



**CENTRAL UNIVERSITY OF JHARKHAND**  
**CHERI-MANATU, RANCHI-835222**  
**JHARKHAND**  
**July, 2024**

*P. K. Mishra*

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**Central University of Jharkhand**  
**School of Humanities and Social Sciences**  
**Department of Economics and Development Studies**  
**Three Years of the Five Years Integrated BA-MA 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 Three Years of the Five Years Integrated BA-MA in Economics**

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 Department of Economics and Development Studies introduces fundamental theories and principles of economics and their application in the real-life situation, International trade, exchange rates and financial markets. The curricula of the department focus on India's relations to the rest of the world which affect aggregate economic activity, employment, exchange rate and inflation and form the scope for monetary and fiscal policy. By the time the programme ends, the students will have the ability to apply these abilities to understand and solve global, national, and local economic and social problems as well as model and analyse a wide range of theoretical and applied problems in economics.

**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 Integrated B.A.-M.A. programme. The courses of the programme emphasise the pattern and growth of public expenditure in India, interdependent nature of key macroeconomic variables, sectors and markets, and the dynamics of responses to exogenous domestic and international economic shocks. A few exemplar courses are worth mentioning which directly focus on the above relevance: Indian Economy (ECO013010), Public Economics (ECO012010), Development Economics-I (ECO012020), Development Economics-II (ECO013080), International Trade (ECO013050) and Open-Economy Macroeconomics (ECO031020).

**Central University of Jharkhand**  
**School of Humanities and Social Sciences**  
**Department of Economics and Development Studies**  
**Three Years of Five-Year Integrated BA-MA in Economics**

Semesters	Major	Minor	MDC	AECC	SEC	VAC	Total Credits
Sem-I	1X5	1X4	1X3	1X2	1X3	1X3	20
Sem-II	1X5	1X4	1X3	1X2	1X3	1X3	20
Sem-III	2X4=8	1X4	1X3	1X2	1X3	---	20
Sem-IV	2X5+1X4=14	1X4	---	1X2	---	---	20
Sem-V	2X5+1X4=14	1X4	---	---	1X2=2	---	20
					Internship		
Sem VI	4X4=16	1X4	---	---	---	----	20
<b>Total</b>	<b>62</b>	<b>24</b>	<b>9</b>	<b>8</b>	<b>11</b>	<b>6</b>	<b>120</b>

**Courses as Designed:**

SN	Courses	Number and Credits	Number of Courses
1	Major Courses	5 Credits	6 Courses
2	Major Courses	4 Credits	8 Courses
3	Minor Courses	4 Credits	6 Courses
4	MDC	3 Credits	3 Courses
5	SEC	3 Credits	3 Course
6	Internship	2 Credits	1 Course



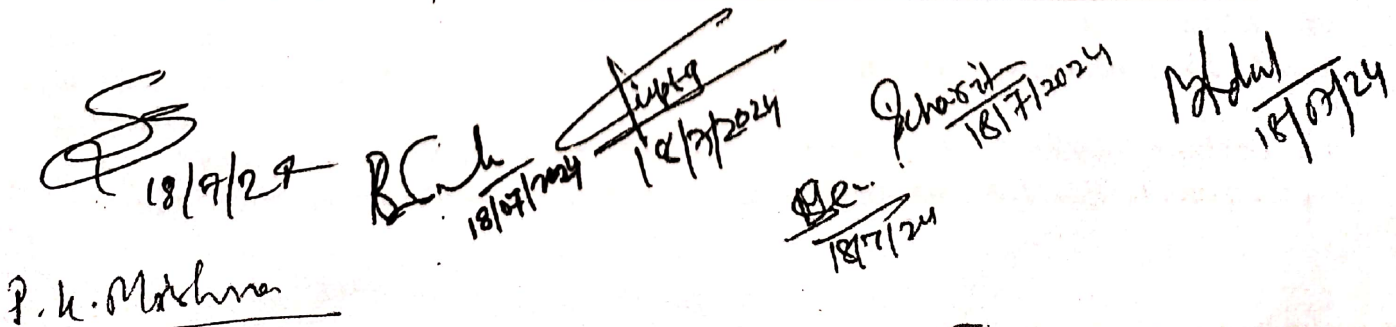
**Central University of Jharkhand**  
**School of Humanities and Social Sciences**  
**Department of Economics and Development Studies**  
**Three Years of the Five Years Integrated BA-MA in Economics**

**List of Courses**  
**(Major in Economics and Development Studies)**

SN		Major Courses	Credit	Course Code (Major)
		<b>SEMESTER-I</b>		
1	MJC-1	Microeconomics	5	ECO011010
		<b>Semester-II</b>		
2	MJC-2	Statistical Method for Economics-I	5	ECO011020
		<b>Semester-III</b>		
3	MJC-3	Public Economics	4	ECO012010
4	MJC-4	Macroeconomics-I	4	ECO012030
		<b>Semester-IV</b>		
5	MJC-5	Development Economics-I	5	ECO012020
6	MJC-6	Statistical Method for Economics-II	5	ECO012040
7	MJC-7	Macroeconomics-II	4	ECO012060
		<b>Semester-V</b>		
8	MJC-8	Indian Economy	5	ECO013010
9	MJC-9	Mathematical Method for Economics	5	ECO013030
10	MJC-10	International Trade	4	ECO013050
		<b>Semester-VI</b>		
11	MJC-11	Basic Econometrics/Research Methodology	4	ECO013020 ECO013040
12	MJC-12	Monetary Economics	4	ECO013060
13	MJC-13	Environmental Economics	4	ECO013080
14	MJC-14	Development Economics-II	4	ECO013100
		<b>Total</b>	<b>62</b>	

**Minor Courses (Economics and Development Studies)**

SN	SEM		Minor Courses	Credit	Course Code for (Minor)
1	Sem-I	MNC-1	Money and Banking	4	ECO021010
2	Sem-II	MNC-2	Introductory Macroeconomics	4	ECO021020
3	Sem-III	MNC-3	Statistics	4	ECO022010
4	Sem-IV	MNC-4	Introductory Microeconomics	4	ECO022020
5	Sem-V	MNC-5	Public Finance	4	ECO023010
6	Sem-VI	MNC-6	Issues on Indian Economy	4	ECO023020


  
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			<b>Total (6X4=24)</b>	<b>24</b>	
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### Multidisciplinary Courses

SN	SEM		Multidisciplinary Courses	Credit	Course Code (MDC)
1	Sem-I	MDC-1	Principles of Economics	3	ECO031030
2	Sem-II	MDC-2	Open Economy Macroeconomics	3	ECO031020
3	Sem-III	MDC-3	Indian Economy and Policy	3	ECO032010
			<b>Total</b>	<b>09</b>	

### SEC Courses

SN	SEM		Skill Enhancement Courses	Credit	Course Code (SEC)
1	Sem-I	SEC-1	Basic Mathematical Economics	3	ECO051010
2	Sem-II	SEC-2	Computer Applications in Economics	3	ECO051020
3	Sem-III	SEC-3	Field Studies and Practices	3	ECO052010
			<b>TOTAL</b>	<b>09</b>	

SN	SEM		Internships	Credit	Course Code
1	Sem-V		Summer Internships	02	ECO053010
			<b>TOTAL</b>	<b>02</b>	

- 1) **Major Courses:** Major courses are from the Discipline in which the student is admitted and hence are mandatory requirement of his/her program of study. MJC shall be the core credit courses of the Discipline which will spread across the semesters. [A Student is required to take at least 62 Credit of MJC in Three Years].
- 2) **Minor Courses (MNC):** The student upon admission in the FYUP shall be given freedom to choose one Minor Subjects among the subjects floated by the Department of Studies across different schools/departments except the Department of Major Discipline. MNC once allotted (as per rule) to student will not be changed. [A student is required to take at least 24 Credits of Minor Courses in Three Years.]
- 3) **Multidisciplinary Course (MDC): [9 Credits]** MDC will provide multidisciplinary learning to students. These courses shall consist of groups of courses offered by different Department of Studies under different Programs. A student will have to choose from the available courses as per their interests/suitability in a program. [A Student will have to earn a total of 09 credit course (to be done) from a set of MDC spread over first Three Semesters].
- 4) **Ability Enhancement Compulsory Courses (AECC): (8 Credits)**—Students are required to achieve competency in: (i) Modern Indian Language; (ii) English Language;

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- (iii) Hindi Language; with special emphasis on language and communication skills. [All students admitted to UG courses shall have to take 8 credit AECC courses mandatorily.]
- 5) **Skill Enhancement Courses (SEC): [9 Credit+2 Credit Internship]**—A student will have to take mandatorily SEC courses as offered by the University. These courses are aimed at imparting practical skills, hands-on training, soft skills, etc. to enhance the employability of students.
- 6) **Value-Added Courses (VAC): [06 Credit]** A student will have to take mandatorily VAC courses as offered by the University.
- 7) **Summer Internship: [02 Credit]** Every student will have to do summer internship as designed by the University.

### 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;

**Professor Bikram Keshari Pattanaik**, Professor, School of Extension and Development Studies, Block-15-F, Indira Gandhi National Open University, Maidan Garhi, New Delhi – 110068, India;

**Professor Pabitra Kumar Mishra**, Professor & Head, Department of Economic Studies, School of Social Sciences, Central University of Punjab, VPO-Ghudda, Bathinda, Punjab-151401, India;

**Professor Kunja Bihari Panda**, Professor & Head, Department of Statistics, School of Natural Sciences, Central University of Jharkhand, Cheri-Manatu, Ranchi-850222, Jharkhand, India;

**Professor Manoj Kumar**, Professor, Department of Environmental Sciences, School of Natural Resource Management, Central University of Jharkhand, Cheri-Manatu, Ranchi-850222, Jharkhand, India;

**Dr. Subhash Kumar Baitha** Assistant Professor, Department of International Relations Studies, School of Humanities and Social Sciences, Central University of Jharkhand, Cheri-Manatu, Ranchi-850222, Jharkhand, India;

**Dr. Sanhita Sucharita**, Member, Assistant Professor Department of Economics and Development Studies, School of Humanities and Social Sciences, Central University of Jharkhand, Cheri-Manatu, Ranchi-850222, Jharkhand, India;

**Dr. Linkon Mondal**, Member, Assistant Professor, Department of Economics and Development Studies, School of Humanities and Social Sciences, Central University of Jharkhand, Cheri-Manatu, Ranchi-850222, Jharkhand, India;

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P. K. Mishra



# **MAJOR COURSES**

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

**Course Curriculum**

1)	<b>Type of Course</b>	Major
2)	<b>Name of the Course</b>	Microeconomics
3)	<b>Course Code:</b>	ECO011010
4)	<b>Total Credit:</b>	5 (Five)
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 course introduces students the concept of economics being used in real life decisions. The goal of this subject is to introduce the student the fundamental theories and principles of economics and their application in the real-life situation.
9)	<b>Course features and learning outcome</b>	The course introduces the students to the first course in economics from the perspective of individual decision making as consumers and producers. The students learn some basic principles of microeconomics, interactions of supply and demand. Basic market models of perfect competition, monopoly, and their features. After completing this course, students will be able to take individual decision making as consumers and producers. It will develop economic way of thinking to understand, analyse and to take decision.
10)	<b>Who can attend the course</b>	This course is suitable for students from Science, Social Science, and Humanities. Students of CUJ in Semester I can attend the course.
11)	<b>Course Eligibility/Pre-requisite</b>	10+2 or equivalent
12)	<b>Course Duration:</b>	One Semester
13)	<b>Course Structure</b>	
(i)	<b>Unit I</b>	
		Meaning of economics, Meaning of microeconomics and macroeconomics and their difference
		What is an economy? Central problems of an economy: what, how and for whom to produce
		Concepts of production possibility frontier and opportunity cost
(ii)	<b>Unit-II</b>	
		Demand – Market demand, Determinants of demand, Demand schedule, Demand curve and its slope, Shift and Movement of Demand Curve, Law of Demand and its exception, Price Consumption Curve, Income Consumption Curve, Giffen good, inferior good, Derivation of demand curve for normal and giffen good, Price effect, income effect and

		substitution effect, Price elasticity of demand, Income elasticity of Demand, Cross elasticity of Demand, Measurement of price elasticity of demand, Relationship between price elasticity of demand and total expenditure. Factors affecting elasticity of Demand, Meaning of utility - Marginal utility, Law of diminishing marginal utility, Law of Equimarginal Utility
<b>(iii)</b>	<b>Unit-III</b>	
		Supply, Law of Supply Elasticity of Supply, Types of elasticity of Supply, factor affecting elasticity of supply.
		Indifference curve, properties of Indifference curve, Indifference Map, The consumer's budget (budget set and budget line)
		Consumer equilibrium theory through indifference curve Analysis
		Utility maximisation and demand function, Marshallian, Indirect Utility and the Expenditure Function, Hicksian.
<b>(iv)</b>	<b>Unit-IV</b>	
		Isoquant, properties of Isoquant, iso cost line, Producer equilibrium and Long-Run Cost Minimization
		Total Product , Average Product, Marginal Product, Relation between TP, MP and AP Production function –Short-Run, Long-Run , law of variable proportion, Law of Returns to Scale Cobb Douglas Production Function and its Properties
		Cost –Short run costs - total cost, total fixed cost, total variable cost, Average cost; Average fixed cost, average variable cost and marginal cost-meaning and their relationship, Types of Cost, Relation between AC and MC
		Revenue –Total revenue, Average revenue, Marginal revenue - meaning and their relationship
<b>(v)</b>	<b>Unit-V</b>	
		Market, Meaning and its classification on the basis of competition Perfect competition – Features and equilibrium level of price and output determination, Monopoly Market -Features and equilibrium level of price and output determination, Price Discrimination under monopoly Market, Oligopoly- Features and equilibrium level of price and output determination, Monopolistic competition-Features and equilibrium level of price and output determination
<b>12)</b>	<b>Text Book</b>	
<b>(i)</b>		Pindyck, Robert. S; Rubinfeld, : Micro Economics, Prentice Hall of India, Daniel. M and Mehta Prem. L New Delhi. First Indian Reprint (2005).
<b>(ii)</b>		Hal R. Varian, Intermediate Microeconomics, a Modern Approach, W.W. Norton and Company/Affiliated East-West Press (India), 8th edition, 2010. The workbook by Varian and Bergstrom may be used for problems.
<b>(iii)</b>		Henderson, J.M. and R.E. Quandt (1980), Microeconomic Theory: A Mathematical Approach, McGraw Hill, New Delhi.
<b>(iv)</b>		Koutsoyiannis, A. (1979), Modern Microeconomics, (2nd Edition), Macmillan Press, London.



( v )	Hal R. Varian, Microeconomic Analysis. W.W. Norton and Company/Affiliated East-West Press (India), 3 <sup>rd</sup> edition, 2019.
(V)	Robert Frank and Ben Bernanke, Principles of Microeconomics, The McGraw-hill Series in Economics) fifth edition, 2012
	<b>References:</b>
(ii)	Baumal, W.J. Economic Theory and Operational Analysis, 3rd edition; New Delhi, Prentice Hall, 1996.
(iii)	Hirshleifer, J. and A. Glazer (1997), Price Theory and Applications, Prentice Hall of India, New Delhi.
(iv)	Green, H.A.G. (1971), Consumer Theory, Penguin, Harmondsworth.

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

**Course Curriculum**

1)	<b>Type of Course</b>	Major
2)	<b>Name of the Course</b>	Statistical Methods for Economics-I
3)	<b>Course Code:</b>	ECO011020
4)	<b>Total Credit:</b>	5 (Five)
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 well equip the students with statistical tools, technique and their application to the real-life problem. The emphasis will be on the concept of application for the decision making rather than derivations.
9)	<b>Course features and learning outcome</b>	This course provides students to understand the data and its relevance to develop an understanding of the quantitative techniques from statistics. The course will develop the ability to interpret the numerical information that forms the basis of decision-making in research and business. The course will improve their chances of getting employed as the course will give them a better understanding of statistical tools to analyse the data. Students will be provided with the theoretical concepts, tools and methods of statistics as well as the opportunity to work through example problems. An important learning outcome of the course will be the capacity to analyse statistics in everyday life.
10)	<b>Who can attend the course</b>	This course is suitable for the students of the Department of Economics and Development Studies. Students of CUJ in Semester II can attend the course.
11)	<b>Course Eligibility/Pre-requisite</b>	10+2 or equivalent
12)	<b>Course Duration:</b>	One Semester
13)	<b>Course Structure</b>	
(i)	<b>Unit I</b>	
		Introduction to Statistics: Basic concepts: Population, Sample, Parameter, Frequency Distribution, Cumulative frequency; Graphic and diagrammatic representation of data,
		Techniques of data collection; Sampling vs. Population,

		Primary and secondary data.
		Sampling methods. probability sampling non probability sampling methods
<b>(ii)</b>	<b>Unit-II</b>	
		Central Tendency and Dispersion: Measures of central tendency; Mean, Median, Mode, Geometric mean and Harmonic mean.
		Measure of dispersion; range , quartile deviation, mean deviation and standard deviation
<b>(iii)</b>	<b>Unit-III</b>	
		Correlation and Regression: Correlation and Regression Correlation; Simple, Coefficient of correlation — Karl Pearson and Rank Correlation
		Regression analysis — Estimation of regression line in a bivariate distribution— Least squares method, interpretation of regression coefficients
	<b>Unit-IV</b>	
		Time Series and Index Numbers :Time series analysis — Concept and components — Determination of regular, trend and seasonal indices
		Index numbers — Concept, price relative, quantity relative, value relative; Laspeyer's, Paasche's and Fisher, Problems in the construction and limitations of index numbers, Tests for ideal index number
	<b>Unit-V</b>	
		Probability and Distribution Probability: Concept, Rules of probability (Addition and Multiplication); Random variables, Mathematical expectations, Theoretical distribution — Binomial, Poisson and Normal: their properties and uses.
		Test of Hypothesis: Statistical testing of Hypothesis and error: large and small sampling tests-Z. t and F tests, nonparametric test: Chi-square, ANOVA test
<b>12)</b>	<b>Text Book and References:</b>	
(i)	Gupta S.C (1990) Fundamentals of Statistics - Sultan Chand & Sons, Delhi.	
(ii)	Gupta, SP (2014) Statistical Methods 43rd Edition,, S. Chand and Sons, New Delhi	
(iii)	Croxtton, F.E., D.J. Cowden and S. Klein (1973), Applied General Statistics, Prentice Hall, New Delhi.	
(iv)	Gupta, S.C. and V.K. Kapoor (1993), Fundamentals of Applied Statistics, S. Chand and Sons, New Delhi	
(v)	Speigal, M.R. (1992), Theory and Problems of Statistics, McGraw Hill Book, London.	
(vi)	Gupta, S.C. and V.K. Kapoor (2014) Fundamentals of Mathematical Statistics S. Chand and Sons, 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>	Major
2)	<b>Name of the Course</b>	Public Economics
3)	<b>Course Code:</b>	ECO012010
4)	<b>Total Credit:</b>	4 (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>	
8)	<b>Programme/course objective</b>	This course aims to familiarise students with the key topics in government revenue and expenditure, provide them with a solid analytical understanding of the implications of government intervention for allocation, distribution, and stabilisation, and introduce them to the key theoretical and empirical concepts in public economics.
9)	<b>Course features and learning outcome</b>	The course introduces students to the fiscal components of an economy with the basic problems of resource allocation, income distribution, budgetary planning. The students learn about fiscal instruments such as – tax, revenue, debt, and expenditure; budget, its types and components, theories and principles, and the workings of government in developing budgetary policies. After completing this course students will have a thorough understanding of fiscal instruments with a careful analysis of the issues which underline budgetary policies at global, national and regional level.
10)	<b>Who can attend the course</b>	This course is suitable for students of the Department of Economics and Development Studies. Students of CUJ in Semester III can attend the course.
11)	<b>Course Eligibility/Pre-requisite</b>	10+2 or equivalent
12)	<b>Course Duration:</b>	One Semester
13)	<b>Course Structure</b>	
(i)	<b>Unit I</b>	<b>Introduction</b>
		Public economics meaning, Role of Government, Market failure, government intervention

		Public good, private good and merit good. Allocation of Resources between Public & Private goods: Samuelson's pure theory of Public Goods (Partial & General Equilibrium Analysis),
		Principle of Maximum social advantage.
<b>(ii)</b>	<b>Unit-II</b>	<b>Public Expenditure</b>
		Principles and effects of public expenditure. Hypotheses of public expenditure (Wagner, Peacock-Wiseman and Colin Clark), Canon of public expenditure, Causes, Pattern and growth of public expenditure in India.
<b>(iii)</b>	<b>Unit-III</b>	<b>Public Revenue</b>
		Tax Revenue and Non-Tax Revenue; Classification of Taxation; Direct Tax and Indirect Tax. Goods and Service Tax, Canon of taxation. Impact of Taxation on allocation, production and distribution, Principles of Taxation-Benefit principles (Bowen & Lindahl model), Ability to Pay, Principle, Incidence and Shifting of Taxation, Theories of Tax Shifting, Laffer Curve
<b>(iv)</b>	<b>Unit-IV</b>	<b>Government Budget and its Component</b>
		Public Debt and Public Budget: Public Debt Vs Private Debt, Sources of Public Debt. Issues and burden of Public Debt in India Concept & Implications of Deficit, Financing; Consolidation and Corrective measures- FRBM Act. Fiscal Federalism: Principles of Federal Finance, Major issues in Centre-State Financial Relations in India, Transfer of Grants: types of Grants, Finance Commission- Evaluation of its working, Co-operative Federalism, NITI Aayog.
<b>12)</b>	<b>Text Book and References:</b>	
<b>(i)</b>	Atkinson, A. and Stiglitz, J. (1980): Lectures in Public Economics, McGraw Hill, London.	
<b>(ii)</b>	Browning, Edgar K. and Browning, Jacqueline, M. (2004): Public Finance and the Price System, Pearson Education Pvt. Ltd. Delhi.	
<b>(iii)</b>	Buchanan, James M. (1968): The Demand and Supply of Public Goods, Skokie III Rand McNally.	
<b>(iv)</b>	Chelliah, Raja J. et.al: Trends and Issues in India's Federal Finance.	
<b>(v)</b>	Chelliah, Raja J: Fiscal policy in Underdeveloped Countries.	
<b>(vi)</b>	Cullis, John & Jones, Philip (2009): Public Finance and Public Choice, Oxford University Press, Oxford.	
<b>(vii)</b>	Jha, Raghendra (1999): Modern Public Economics, Routledge, London, and New York	
<b>(viii)</b>	Laffont, Jean. Jacques (1994): Fundamentals of Public Finance, Cambridge Mass, MIT Press.	
<b>(ix)</b>	Musgrave, R.A., and Musgrave, P.B. (1989): Public Finance in Theory and Practices, McGraw Hill, New York.	
<b>(x)</b>	Musgrave, Richard.A.(1959): The Theory of Public Finance, McGraw Hill, New York. Myles,	

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

**Course Curriculum**

1)	<b>Type of Course</b>	Major
2)	<b>Name of the Course</b>	Macroeconomics-I
3)	<b>Course Code:</b>	ECO012030
4)	<b>Total Credit:</b>	4 (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>	
8)	<b>Programme/course objective</b>	The course introduces students to the concept of economics being used. This is the first module in a two-module sequence that introduces students to the basic concepts of Macroeconomics. Macroeconomics deals with the aggregate economy. This course discusses the preliminary concepts associated with the determination and measurement of aggregate macroeconomic variables like GDP, savings, investment, and money.
9)	<b>Course features and learning outcome</b>	This course will allow students to understand the basic functioning of the macroeconomics. The students will develop skills to analyze impacts of policy actions and to evaluate the advantages and disadvantages of different policies.
10)	<b>Who can attend the course</b>	This course is suitable for Students of the Department of Economics and Development Studies in Semester III. Students of CUJ can attend the course.
11)	<b>Course Eligibility/Pre-requisite</b>	10+2 or equivalent
12)	<b>Course Duration:</b>	One Semester
13)	<b>Course Structure</b>	
(i)	<b>Unit I</b>	
		Macroeconomics meaning, nature and scope, National Income and its Related Aggregates, Circular flow of income, Measurement of National Income-Product Method/Value added Method, Income Method, Expenditure Method
(ii)	<b>Unit-II</b>	
		Classical Theories: Classical model of determination of output and employment in the short run: Say's Law of markets; Keynesian Theory of Income and employment, Effective Demand; Concept of Investment Multiplier: Simple and Dynamic, Leakages and limitations
		The Principle of Acceleration, Interaction of Accelerator and Multiplier; Investment function: Types of investment, Concept of MEC and MEI.
(iii)	<b>Unit-III</b>	



		Consumption Function: Keynes Psychological Law of Consumption and Its Implications; Theories of Consumption function: Absolute Income Hypothesis, Relative Income Hypothesis, Permanent Income Hypothesis, Life Cycle Hypothesis; Business Cycle
<b>(iv)</b>	<b>Unit-IV</b>	
		Money and Evolution of Money; Barter system of exchange; disadvantages of barter exchange; Money Definition and functions of money; Types of money: legal tender money and bank money, near money, quasi-money, money and liquidity; supply of money; measures of money supply; credit creation; tools of monetary policy.
<b>14)</b>		
<b>Text Book</b>		
<b>(i)</b>	Dornbusch, R., Fischer, S., Startz, R. (2018). Macroeconomics, 12th ed. McGraw-Hill.	
<b>(ii)</b>	Branson, W.A. (1989), Macroeconomic Theory and Policy, (3rd Edition), Harper and Row, New York.	
<b>(iii)</b>	Mankiw, N. Gregory (2016), Macroeconomics. New York: Worth Publishers.	
<b>References:</b>		
<b>(i)</b>	Ackley, G. (1978), Macroeconomics : Theory and Policy, Macmillan, New York.	
<b>(ii)</b>	Blackhouse, R. and A. Salansi (Eds.) (2000), Macroeconomics and the Real World (2 Vols.), Oxford University Press, London.	
<b>(iii)</b>	Hall, R.E. and J.B. Taylor (1986), Macroeconomics, W.W. Norton, New York.	
<b>(iv)</b>	Heijdra, B.J. and V.P. Fredericck (2001), Foundations of Modern Macroeconomics, Oxford University Press, New Delhi.	
<b>(v)</b>	Shapiro, E. (1996), Macroeconomic Analysis, Galgotia Publications, New Delhi.	
<b>(vii)</b>	Jha, R. (1991), Contemporary Macroeconomic Theory and Policy, Wiley Eastern Ltd., New Delhi.	
<b>(viii)</b>	Romer, D.L. (1996), Advanced Macroeconomics, McGraw Hill Company Ltd., New York.	
<b>(ix)</b>	Scarfe, B.L. (1977), Cycles, Growth and Inflation, McGraw Hill, New York.	
<b>(xi)</b>	Surrey, M.J.C. (Ed.) (1976), Macroeconomic Themes, Oxford University Press, Oxford.	
<b>(xii)</b>	Froyen, R. T. (2013). Froyen: Macroeconomics. Pearson Higher Ed.	
<b>(xiii)</b>	National Account Statistics: Sources and methods (2012); Central Statistics Office, MoSPI; Government of India	

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

1)	<b>Type of Course</b>	Major
2)	<b>Name of the Course</b>	Development Economics-I
3)	<b>Course Code:</b>	ECO012020
4)	<b>Total Credit:</b>	5 (Five)
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 course introduces the theories of growth and development. The goal of this subject is to introduce to students the fundamentals of development theories, measurement of poverty and inequality, and interdependence between agriculture and industry.
9)	<b>Course features and learning outcome</b>	The course introduces students to the basic development theories, concept of poverty and inequality, and importance of agriculture and industry to the overall development. After completing this course students will have a thorough understanding of several important concepts of development issues along with its empirical dimension.
10)	<b>Who can attend the course</b>	This course is suitable for students of the Department of Economics and Development Studies. Students of CUJ in Semester IV can attend the course.
11)	<b>Course Eligibility/Pre-requisite</b>	10+2 or equivalent
12)	<b>Course Duration:</b>	One Semester
13)	<b>Course Structure</b>	
(i)	<b>Unit I</b>	<b>Introduction</b>
		Economic growth and economic development; Quantitative and qualitative measurement of concept; causes of low growth in LDCs;
		Characteristics of underdeveloped countries – vicious cycle of poverty and cumulative
		causation; obstacles to economic development
(ii)	<b>Unit-II</b>	<b>Indicators of Growth and Development</b>
		PQLI, HDI, HPI, MDPI, GDI; capital formation and economic development; specific indicators of growth
(ii)	<b>Unit-III</b>	<b>Theories of Growth and Development</b>
		Classical theory, Marxian theory; Schumpeterian theory; Rostow's stages of economic growth; Solow model and convergence with population growth and technical progress
(iii)	<b>Unit-IV</b>	<b>Measuring Poverty and Inequality</b>

		Measuring poverty: Head Count Ratio, Poverty Gap Ratio, Squared Poverty Ratio, FGT Ratio; Measuring Inequality – Lorenz curve and Kuznets’ inverted U hypothesis; Growth, poverty and inequality
<b>(iv)</b>	<b>Unit-V</b>	<b>Agriculture, Industry and Development</b>
		Agriculture, Industry and Economic Development: Role of agriculture; Transforming traditional agriculture; Barriers to agricultural development; Role of industrialization; Interdependence between agriculture and industries – A model of complementarities between agriculture and industry
<b>12)</b>	<b>Text Book and References:</b>	
<b>(i)</b>	Todaro, Michael P and Stephen C Smith (2006): Economic Development, 8th Edition, Pearson	
<b>(ii)</b>	Debraj Ray (2009): Development Economics, Oxford University Press.	
<b>(iii)</b>	Thirlwall, A P (2011): Economics of Development, 9th Edition, Palgrave Macmillan	

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**Course Curriculum**

1)	<b>Type of Course</b>	Major
2)	<b>Name of the Course</b>	Statistical Method for Economics-II
3)	<b>Course Code:</b>	ECO012040
4)	<b>Total Credit:</b>	5 (Five)
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 course introduces the concept of testing of hypothesis and regression analysis. The goal of this subject is to introduce to students the elementary econometrics.
9)	<b>Course features and learning outcome</b>	The course introduces students to the regression analysis and problems in regression. After completing this course students will have a thorough understanding of elementary econometric issues.
10)	<b>Who can attend the course</b>	This course is suitable for students of the Department of Economics and Development Studies. Students of CUJ in Semester IV can attend the course.
11)	<b>Course Eligibility/Pre-requisite</b>	10+2 or equivalent
12)	<b>Course Duration:</b>	One Semester
13)	<b>Course Structure</b>	
(i)	<b>Unit I</b>	<b>Estimation</b>
		Parameter and Statistic; Estimator and Estimate; Theory of Estimation: Estimation of parameters; properties of estimators – small sample and asymptotic properties; point and interval estimation
(ii)	<b>Unit-II</b>	<b>Testing of Hypothesis</b>
		Testing of hypotheses: defining statistical hypotheses; Simple and composite hypotheses; Null and alternative hypothesis; Type I and Type II errors, Critical region; Critical value; Power of a test; Test statistics: z, chi square, t and F
(iii)	<b>Unit-III</b>	<b>Linear Regression Analysis</b>
		Two variable linear regression model – Assumptions; Least square estimates, Variance and covariance between Least square estimates; BLUE properties; Standard errors of estimates; Coefficient of determination; Inference in a two variable linear regression model; ANOVA
(iv)	<b>Unit-IV</b>	<b>Multiple Regression Analysis</b>
		Assumption, Estimation of parameters, Properties of estimators, BLUE properties, ANOVA, R <sup>2</sup> and Adj. R <sup>2</sup>



<b>(v)</b>	<b>Unit-V</b>	<b>Violation of Classical Assumptions</b>
		Heteroscedasticity, Multicollinearity and Auto-correlation: Meaning, consequences, tests and remedies.
<b>12)</b>	<b>Text Book and References</b>	
<b>(i)</b>	S. C. Gupta (2017): Fundamentals of Statistics, Himalaya Publishing House, Delhi	
<b>(ii)</b>	Murray R. Spiegel (2017): Theory & Problems of Statistics, Schaum's publishing	
<b>(iii)</b>	Gujarati, D & Sangeetha (2007); "Basic Econometrics", McGraw Hill Book Co.	

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**Course Curriculum**

1)	<b>Type of Course</b>	Major
2)	<b>Name of the Course</b>	Macroeconomics-II
3)	<b>Course Code:</b>	ECO012060
4)	<b>Total Credit:</b>	4 (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>	
8)	<b>Programme/course objective</b>	The course introduces the basic macroeconomics. The goal of this subject is to introduce to students the fundamental theories of macroeconomics and also its applications.
9)	<b>Course features and learning outcome</b>	The course introduces students to the theories of demand for money, concept of supply of money, IS-LM approach, Inflation-unemployment trade off and balance of payments and exchange rate. After completing this course students will have a thorough understanding of macroeconomic theories and concept.
10)	<b>Who can attend the course</b>	This course is suitable for students of the Department of Economics and Development Studies at CUJ and can attend the course in Semester IV.
11)	<b>Course Eligibility/Pre-requisite</b>	10+2 or equivalent
12)	<b>Course Duration:</b>	One Semester
13)	<b>Course Structure</b>	
(i)	<b>Unit-I</b>	<b>Demand for Money and Supply of Money</b>
		Demand for Money – Classical, Neoclassical and Keynesian Approaches, The Keynesian Liquidity Trap and its Implications, Supply of Money, The Theory of Money Supply Determination and Money Multiplier, Measures of Money Supply in India
(ii)	<b>Unit-II</b>	<b>IS and LM Approach of Measuring Aggregate Demand and Supply</b>
		Derivation of Aggregate Demand and Aggregate Supply Curves in the IS-LM Framework; Nature and Shape of IS and LM curves; Interaction of IS and LM curves and Determination of Employment, Output, Prices and Investment; Changes in IS and LM curves and their Implications for Equilibrium
(iii)	<b>Unit-III</b>	<b>Inflation, Unemployment and Trade Cycles</b>
		Inflation – Unemployment Trade off and the Phillips Curve – Short run and Long run Analysis; Adaptive and Rational Expectations; The Policy Ineffectiveness Debate; Meaning and Characteristics of Trade Cycles;

		Hawtrey's Monetary Theory, Hayek's Over-investment Theory and Keynes' views on Trade Cycles
<b>(iv)</b>	<b>Unit-IV</b>	<b>Balance of Payments and Exchange Rate</b>
		Balance of Payments: Current Account and Capital Account; Surplus and Deficit; Meaning of Fixed and Flexible Exchange Rates and Managed Floating Market for Foreign Exchange; Determination of Exchange Rate; Mundell-Fleming model
<b>13)</b>	Text Book and References	
<b>(i)</b>	N. Gregory Mankiw (2010): Macroeconomics, 7th edition, Cengage Learning India Private Limited, New Delhi.	
<b>(ii)</b>	Richard T. Froyen (2005): Macroeconomics, 2nd Edition, Pearson Education Asia, New Delhi.	
<b>(iii)</b>	Dornbusch, R., Fischer, S., Startz, R. (2018). Macroeconomics, 12th ed. McGraw-Hill.	

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**Course Curriculum**

1)	<b>Type of Course</b>	Major
2)	<b>Name of the Course</b>	Indian Economy
3)	<b>Course Code:</b>	ECO013010
4)	<b>Total Credit:</b>	05 (Five)
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>	Using appropriate analytical frameworks, this course reviews major trends in economic indicators and policy debates in India in the post-Independence period, with particular emphasis on paradigm shifts and turning points
9)	<b>Course features and learning outcome</b>	<p>This course will help students to understand the various real economic issues at global national and regional level. It will broaden their horizons and enable them to analyze current economic policy thus improving their chances of getting employed, and be more effective, in positions of responsibility and decision making.</p> <p>At the end of the course, a student should be able to understand the development paradigm adopted in India since independence and evaluate its impact on economic as well as social indicators of progress and wellbeing.</p>
10)	<b>Who can attend the course</b>	This course is suitable for students of the Department of Economics and Development Studies. Students of CUJ in Semester V can attend the course.
11)	<b>Course Eligibility/Pre-requisite</b>	10+2 or equivalent
12)	<b>Course Duration:</b>	One Semester
13)	<b>Course Structure</b>	
(i)	<b>Unit I</b>	<b>Introduction</b>
		Characteristics of Indian Economy: Basic features and problems of Indian Economy
		Economic History of India; Change in Indian Economic structure after Globalization



		Emergence and development of Planning exercise in India – historical debates, plan models and shift in focus over time
		Planning commission v/s NITI Aayog, Evaluation of Five-Year Plans.
<b>(ii)</b>	<b>Unit-II</b>	<b>Poverty, Unemployment and Inflation</b>
		Concepts of Poverty and Measurements, Inequality and problem of Identification, Human Development Index and SDGs
		Employment Structure and its Elasticity, Labour Market & Labour issues in India.
		Inflation – trends, structure and causes, Black money in India
<b>(iii)</b>	<b>Unit-III</b>	<b>Agriculture and Land Reforms</b>
		Policies and Performance in Agriculture: Sectoral Composition of Indian Economy: Agricultural Crisis & Policy response
		Trends in Agricultural Production and Productivity, Evaluation of land reforms & Green Revolution.
<b>(iv)</b>	<b>Unit-IV</b>	<b>Industry and Infrastructure</b>
		Policies and Performance in Industry: Trends and Patterns of Industrial Sector with focus on PSUs and Private Sectors.
		Trends and Performance in Services: Pattern & Structure of Growth, Major Challenges, Policy Responses
		Infrastructure Development: Physical and Social; Public-Private Partnerships
<b>(v)</b>	<b>Unit-V</b>	<b>India's Balance of Payment and Foreign Trade</b>
		Balance of Payment, Balance of Payment Crisis, Balance of Payment and New Economic Reforms of 1991.
		Foreign Trade: Structure and Direction, Flow of Foreign Capital, India's Foreign Trade Policies (1991, 2004-09, 2005-06). GATT, WTO and India's Foreign Trade.
<b>12)</b>	<b>Text Book</b>	
<b>(i)</b>	Indian Economy Performance and Policies (21st ed.)Uma Kapila Academic Foundation	
	References:	
<b>(i)</b>	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.	
<b>(ii)</b>	Bardhan, P.K. (9th Edition) (1999), The Political Economy of Development in India, Oxford University Press, New Delhi.	
<b>(iii)</b>	Bawa, R.S. and P.S. Raikhy (Ed.) (1997), Structural Changes in Indian Economy, Guru Nanak Dev University Press, Amritsar.	
<b>(iv)</b>	Brahmananda, P.R. and V.R. Panchmukhi (Eds.) (2001), Development Experience in the Indian Economy : Inter-State Perspectives, Bookwell, Delhi.	
<b>(v)</b>	Chakravarty, Sukhamoy (1987) Development Planning: The Indian Experience, Clarendon Press Oxford.	
<b>(vi)</b>	Chakravarty, Sukhamoy (1998) Writings on Development, Oxford University Press, New Delhi.	

<b>(vii)</b>	Dantwala, M.L. (1996), Dilemmas of Growth : The Indian Experience, Sage Publications, New Delhi.
<b>(viii)</b>	Datt R & K.P.M Sundharam, "Indian Economy", S. Chand & co. Ltd, New Delhi.
<b>(ix)</b>	Government of India, Economic Survey, (Annual), Ministry of Finance, New Delhi.
<b>(x)</b>	Jain, A.K. (1986), Economic Planning in India, Ashish Publishing House, New Delhi.
<b>(xi)</b>	Jalan, B. (1992), The Indian Economy — Problems and Prospects, Viking, New Delhi.
<b>(xii)</b>	Jalan, B. (1996), India's Economic Policy — Preparing for the Twenty First Century, Viking, New Delhi.
<b>(xiii)</b>	Joshi, V. and I.M.D. Little (1999), India : Macro Economics and Political Economy, 1964-1991, Oxford University Press, New Delhi.
<b>(xiv)</b>	Kapila Uma (ed), "Indian Economy since independence", 21 st edition, Academic Foundation
<b>(xv)</b>	Misra S.K & V.K Pure, "Indian Economy", 29th revised edition, Himalayan publication House, Mumbai.
<b>(xvi)</b>	Parikh, K.S. (1999), India Development Report — 1999-2000, Oxford University Press, New Delhi. Reserve Bank of India, Report on Currency and Finance, (Annual).
<b>(xvii)</b>	Sandesara, J.C. (1992), Industrial Policy and Planning, 1947-1991 : Tendencies, Interpretations and Issues, Sage Publications, New Delhi.
<b>(xviii)</b>	Sen, R.K. and B. Chatterjee (2001), Indian Economy : Agenda for 21st Century (Essays in honour of Prof. P.R. Brahmananda), Deep & Deep Publications, New Delhi.

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**Department of Economics and Development Studies**  
**Course Curriculum**

1)	<b>Type of Course</b>	Major
2)	<b>Name of the Course</b>	Mathematical Method for Economics
3)	<b>Course Code:</b>	ECO013030
4)	<b>Total Credit:</b>	5(Five)
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 transmit the body of basic mathematics that enables the study of economic theory at the undergraduate level. In this course, particular economic models are not the ends, but the means for illustrating the method of applying mathematical techniques to economic theory in general.
9)	<b>Course features and learning outcome</b>	The analytical tools introduced in this course have applications wherever optimization techniques are used in business decision-making. Anybody looking to work as an analyst in the corporate world needs these tools. The course also improves the student's logical reasoning when presenting or refuting arguments.
10)	<b>Who can attend the course</b>	This course is suitable for students of the Department of Economics and Development Studies. Students of CUJ in Semester V can attend the course.
11)	<b>Course Eligibility/Pre-requisite</b>	10+2 or equivalent
12)	<b>Course Duration:</b>	One Semester
13)	<b>Course Structure</b>	
(i)	<b>Unit I</b>	<b>Preliminaries</b>
		Preliminaries - Logic And Proof Techniques; Sets And Set Operations; Relations; Functions And Their Properties; Number Systems Graphs;
		Elementary, Types of Functions: Quadratic, Power, Exponential, Logarithmic
(ii)	<b>Unit-II</b>	<b>Matrix and Determinants</b>
		Different kinds of matrices, Matrix operations – addition, multiplication, transpose
		Singular matrices and matrix inversion.
		Determinants and operations with determinants. Eigen vectors and eigen values.

<b>(iii)</b>	<b>Unit-III</b>	<b>Derivative of a function</b>
		Rules of derivation; Higher order derivatives of a function of one variable; Functions of several variable and partial derivatives (of first and higher orders); Hessian matrix; Linear, convex, and concave functions; Derivatives for a vector valued function; Jacobian matrix
		Marginal Concepts Marginal utility, Marginal propensity to Consume, Marginal propensity to Save, Marginal product, Marginal Cost, Marginal Revenue, Marginal Rate of Substitution, Marginal Rate of Technical Substitution. Relationship between Average Revenue and Marginal Revenue- Relationship between Average Cost and Marginal Cost -Elasticity: Price elasticity, Income elasticity, Cross elasticity
<b>(iv)</b>	<b>Unit-IV</b>	<b>Partial differentiation techniques and Optimisation</b>
		Partial differentiation techniques; Geometric interpretation of partial derivatives; Partial derivatives in Economics; Elasticity of a function – demand and cost elasticity, cross and partial elasticity
		Optimisation Maxima minima Substitution Method and Lagrange Method of Maxima and Minima, utility and profit maximisation, cost minimisation
<b>(v)</b>	<b>Unit-V</b>	<b>Integration</b>
		Integration, Concept of integration, simple rules of integration, application to consumer's surplus and producer 'surplus.
<b>14)</b>	<b>Text Book</b>	
<b>(i)</b>	Mathematics for economic analysis. Prentice Hall. (4th ed.) Sydsæter, K., & Hammond, P. J. (1995). Pearson Education India	
<b>(ii)</b>	Chiang, A. C., & Wainwright, K. (2005). Fundamental methods of mathematical economics (4th ed.). McGraw-Hill/Irwin.	
<b>(iii)</b>	J.M. Henderson, & R.E. Quandt. (1958) Microeconomic Theory. A Mathematical Approach. Economics Handbook Series. McGraw-Hill Book Company. (3rd Edition)	
	<b>References:</b>	
<b>(i)</b>	Allen, R.G.D. (1974), Mathematical Analysis for Economists, Macmillan Press and ELBS, London.	
<b>(ii)</b>	Allen, R.G.D. (1976), Mathematical Economics, Macmillan, London.	
<b>(iii)</b>	Arrow, K.J. and M. Intrilligator (Eds.) (1982), Handbook of Mathematical Economics, Volumes I, II and III, North Holland, Amsterdam.	
<b>(iv)</b>	Chung, J.W. (1993), Utility and Production: Theory and Applications, Basil Blackwell, London.	
<b>(v)</b>	Ferguson, C.E. (1976), Neo-classical Theory of Production and Distribution, Modules 3 and 4	



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**Course Curriculum**

1)	<b>Type of Course</b>	Major
2)	<b>Name of the Course</b>	International Trade
3)	<b>Course Code:</b>	ECO013050
4)	<b>Total Credit:</b>	4 (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>	
8)	<b>Programme/course objective</b>	The course introduces the trade theories and trade policies. The goal of this subject is to introduce to students the fundamental concepts of trade, exchange rates, and financial markets.
9)	<b>Course features and learning outcome</b>	The course introduces students to the various trade theories, trade policies, exchange rates and financial markets at a national and global level. After completing this course students will have a thorough understanding of trade policies and demand for and supply of exchange rate and financial markets.
10)	<b>Who can attend the course</b>	This course is suitable for the students of the Department of Economics and Development Studies at CUJ and can attend the course in Semester V.
11)	<b>Course Eligibility/Pre-requisite</b>	10+2 or equivalent
12)	<b>Course Duration:</b>	One Semester
13)	<b>Course Structure</b>	
(i)	<b>Unit I</b>	<b>Trade Theories and it's importance</b>
		Importance of the study of International Economics; Inter-regional and international trade; Theories of Trade-absolute advantage (Adam Smith), comparative advantage (David Ricardo) and opportunity cost (Haberler); Heckscher-Ohlin theory of trade — its main features, assumptions and limitations (Leontief Paradox); Factor Price Equalization theorem.
(ii)	<b>Unit-II</b>	<b>Trade Policy and International Economic Institutions</b>
		Concepts of terms of trade and their importance; Doctrine of reciprocal demand – Offer curve technique; Gains from trade; Trade as an Engine of Growth and Concept of immiserizing growth, Tariffs and quotas – their impact in partial equilibrium analysis; the concept of optimum tariff, Functions of IMF, Role of IMF in international liquidity, Reforms for the emergence of international monetary system; World Bank and WTO.

<b>(iii)</b>	<b>Unit-III</b>	<b>Exchange Rate</b>
		Exchange Rate Concept and Types of Exchange Rate (bilateral vs. trade-weighted exchange rate, cross exchange rate, spot, forward, futures), Demand for and Supply of foreign exchange, Exchange Rate Determination: Mint Parity Theory, Purchasing-Power Parity Theory, Fixed versus Flexible exchange rate
<b>(iv)</b>	<b>Unit-IV</b>	<b>Balance of Trade and Balance of Payments</b>
		Balance of Trade and Payments Concepts and components of balance of trade and balance of payments; Disequilibrium in balance of payments; Various measures to correct deficit in BOPs (Expenditure switching and expenditure reducing policies, Direct control), Depreciation Vs. Devaluation; Elasticity approach to devaluation, Foreign trade multiplier- Concept and implications.
<b>12)</b>	<b>Text Book and References:</b>	
<b>(i)</b>	Mannur H. G ( Recent Edition) International Economics, Vikash Publishing	
<b>(ii)</b>	Salvatore Dominick, International Economics, Wiley India.	
<b>(iii)</b>	Sodersten Bo and Reed J, International Economics, McMillan Publisher	

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**Course Curriculum**

1)	<b>Type of Course</b>	Major
2)	<b>Name of the Course</b>	Basic Econometrics
3)	<b>Course Code:</b>	ECO013020
4)	<b>Total Credit:</b>	4 (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>	
8)	<b>Programme/course objective</b>	The course introduces the single equation and simultaneous equation models and also focuses on panel data analysis. The goal of this subject is to introduce to students the fundamentals of panel data analysis, dynamic econometric models and simultaneous equation models.
9)	<b>Course features and learning outcome</b>	The course introduces students to various applications of dummy independent variables, use of panel data, dynamic econometric models and its applications and also simultaneous equation model framework. After completing this course students will have a thorough understanding of various econometric models and can perform data analysis and write research papers.
10)	<b>Who can attend the course</b>	This course is suitable for students of the Department of Economics and Development Studies. Students of CUJ in Semester VI can attend the course.
11)	<b>Course Eligibility/Pre-requisite</b>	10+2 or equivalent
12)	<b>Course Duration:</b>	One Semester
13)	<b>Course Structure</b>	
(i)	<b>Unit I</b>	<b>Dummy Independent Variables</b>
		Dummy variable trap, Testing structural stability of regression models comparing two regressions, interaction effects, estimating seasonal effects, ANOVA vs ANCOVA, piecewise linear regressions.
(ii)	<b>Unit-II</b>	<b>Panel Data Regression Models</b>
		Benefits and challenges involved in the construction of panel data. Two-period panel analysis with policy implications. Estimation methods- fixed effects vs random effects approaches, Hausman test.
(iii)	<b>Unit-III</b>	<b>Distributed Lag Models</b>
		Koyck's geometric lag, Almon's polynomial lag, Partial adjustment and adaptive expectation models; Autoregressive models- estimation by

		using instrumental variables, Detecting autocorrelation in autoregressive models- Durbin h-test; error correction mechanism, Causality in economics- Granger and Sim's tests.
<b>(iv)</b>	<b>Unit-IV</b>	<b>Simultaneous Equation Models</b>
		Simultaneous equation bias and inconsistency of OLS estimators, Identification- rank and order conditions, Estimation- Recursive system and OLS, ILS, 2SLS, and 3SLS methods.
<b>13)</b>	<b>Text Book and References:</b>	
<b>(i)</b>	Maddala G. S. (Ed) (1993), Econometrics Methods and Application (2vols) Aldershot U.K	
<b>(ii)</b>	Gujarati D. N. (1995), Basic Econometrics (2 <sup>nd</sup> Edition), Mc Grow Hill	
<b>(iii)</b>	Baltagi, B. H. (1998), Econometrics, Springer, New York.	
<b>(iv)</b>	Goldberger, A. S. (1998), Introductory Econometrics, Harvard University Press, Cambridge Mass.	
<b>(v)</b>	Kmenta J. (1997), Elements of Econometrics (Reprint Edition) University of Michigan Press, New York.	
<b>(vi)</b>	Koutsoyiannis A. (1997), Theory of Econometrics (2 <sup>nd</sup> Edition) The Macmillan Press Ltd, London.	
<b>(vii)</b>	Theil, H. (1981), Introduction to Econometrics, Prentice Hall of India, New Delhi.	

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**Course Curriculum**

1)	<b>Type of Course</b>	Major
2)	<b>Name of the Course</b>	Research Methodology
3)	<b>Course Code:</b>	ECO013040
4)	<b>Total Credit:</b>	4 (Five)
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 course provides the foundation to the concept and procedures for undertaking research to address business problems of different functional areas. It enables the students to understand the critical steps in carrying out the required review of literature, data collection and analysis for submission and presentation of reports as per the managerial requirements.
9)	<b>Course features and learning outcome</b>	Understanding the need and significance of research in social sciences. Demonstrating the research process. Getting acquaintance on various methods of sampling, the data collection techniques through schedules and questionnaires. Acquiring competence in preparation of schedules, questionnaires and their pre-testing and final preparation. Understanding the formulations of hypothesis, application of tests for the significance of parameters. Learning documentation writing and its presentation. Acquiring capability in preparation of projects for funding from various agencies
10)	<b>Who can attend the course</b>	This course is suitable for students from Science, Social Science, and Humanities. Students of CUJ in Semester VI can attend the course.
11)	<b>Course Eligibility/Pre-requisite</b>	10+2 or equivalent
12)	<b>Course Duration:</b>	One Semester
13)	<b>Course Structure</b>	
(i)	<b>Unit I</b>	<b>Research Methodology: An Introduction</b>
		Meaning of Research Objectives of Research Motivation in Research Types of Research (i) Pure Research (ii) Applied Research (iii) Exploratory Research (iv) Descriptive Research (v) Explanatory Research (vi) Qualitative & Quantitative Research



		<p>Significance of Research  Research Method versus Methodology  Steps of Basic Research Process  Research Problem; meaning, components and steps to formulate a research problem.  Research Design; Components of Research Design  Research Ethics  Concept &amp; method to avoid plagiarism.</p>
<b>(ii)</b>	<b>Unit-II</b>	<b>Methods of Data Collection</b>
		<p>Collection of Primary Data  Instruments of Data Collection  Observation Method  Interview Method  Case Study Method  Focus Group Discussion</p>
<b>(iii)</b>	<b>Unit-III</b>	<b>Questionnaire and Sampling design</b>
		<p>Collection of Data through Questionnaires  Difference Between questionnaire and schedule  Difference Between Open and Closed Ended Questionnaire  Collection of Secondary Data  Census and Sampling Survey  Implication of a Sample Design  Characteristics of a Good Sample Design  Different types of Sample Design (i) Quantitative (ii) Qualitative (iii) Mixed Approach  Sampling Need and Types  Sampling and Non-Sampling Error, Editing and Coding of Data, Data analysis methods for Quantitative Research  Scaling (meaning, classification of scaling, measurement scale)</p>
<b>(iv)</b>	<b>Unit-IV</b>	<b>Tabulation &amp; Report Writing</b>
		<p>Tabulation; rules for tabulation and parts of point  Report Writing; types and formats of Report  Concept of Normality  Hypothesis Testing:  Correlation Coefficients,  Simple and Bivariate Regression,  Chi-square Tests, t-tests and ANOVA;  Reliability and Validity;  Introduction to Multivariate tests;  Introduction to Non-parametric tests  Reporting a Quantitative Study  Writing Research Proposals &amp; Reports: Purpose, nature and evaluation,  Literature review, steps in literature review, development, argumentation,  avoidance of plagiarism  Content and format, Practical considerations, timelines, budgets,  supervision</p>

	Management Presentation and defence of proposals.
<b>12)</b>	<b>Text Book</b>
<b>(i)</b>	Research and methodology: methods and techniques – CR Kothari (New age international publication)
<b>(ii)</b>	Business Research Methods,12 <sup>th</sup> Edition by Donald R.Cooper and Pamela S. Schindler (Authors), Mc-Graw Hill, ISBN:9780073521503
<b>(iii)</b>	Research Methodology: A Step-by-Step Guide for Beginners,2e by Ranjit Kumar (Author), Pearson Publications, ISBN:9788131704967
<b>(iv)</b>	Management Research Methodology, K.N. Krishnaswamy, Appaired Sivakumar and. Maharajan (Authors), Pearson Publication, ISBN:9788177585636
<b>(v)</b>	Marketing Research: An Applied Orientation,7th Edition, by Naresh Malhotra and Satya Bhusan Das(authors), Pearson Publication, ISBN: 9780136094234
	<b>References:</b>
<b>(i)</b>	Business Research Methods,5thEdition, Emma Bell, Alan Bryman,and Bill Harley(authors), Oxford University Press, ISBN:9780198809876

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

1)	<b>Type of Course</b>	Major
2)	<b>Name of the Course</b>	Monetary Economics
3)	<b>Course Code:</b>	ECO013060
4)	<b>Total Credit:</b>	4 (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>	
8)	<b>Programme/course objective</b>	The course introduces students to the concept of money and theories that explain why an individual demands money. It also develops an understanding of the monetary transmission mechanism, whereby decisions made by the monetary authorities concerning money supplies or interest rates can have real effects on the economy and cultivate an understanding of the uncertainties that policy-makers face and how policy makers may deal with these.
9)	<b>Course features and learning outcome</b>	After completing this course students will be able to explain why people hold money and assess the role and efficacy of monetary policy. Students will also be able to describe and explain the main channels of the monetary transmission mechanism, through which monetary policy can have real effects on the economy. An important learning outcome of the course will be the ability to analyse the merits and disadvantages of different monetary policies used by Central Banks.
10)	<b>Who can attend the course</b>	This course is suitable for the Department of Economics and Development Studies at CUJ and can attend the course in Semester VI.
11)	<b>Course Eligibility/Pre-requisite</b>	10+2 or equivalent
12)	<b>Course Duration:</b>	One Semester
13)	<b>Course Structure</b>	
(i)	<b>Unit-I</b>	<b>Definition and Theories of Money</b>
		Concepts of money – measurement of money – advantages of money – theories of demand for money: Post Keynesian developments and Monetarist approach – financial intermediaries – nature and functions – model of money supply determination – high powered money and behavioral model of money supply determination – methods of monetary control.
(ii)	<b>Unit-II</b>	<b>Monetary Transmission Mechanism</b>
		Meaning – interest rate channel, credit channel, bank lending channel, balance sheet channel, exchange rate channel, other asset price channels.

<b>(iii)</b>	<b>Unit-III</b>	<b>Monetary Policy</b>
		Instruments, targets, indicators, lags in monetary policy and rules versus discretion debate.
<b>(iv)</b>	<b>Unit-IV</b>	<b>Central Banking</b>
		Functions of a central bank – quantitative and qualitative methods of credit control – bank rate policy, open market operations, cash reserve ratio, selective methods, role and functions of Reserve Bank of India – objectives and limitations of monetary policy with special reference to India.
<b>14)</b>	<b>Text Book and References</b>	
<b>(i)</b>	Lewis, M K & Mizen, P D (2000), Monetary Economics, OUP Catalogue, Oxford University Press	
<b>(ii)</b>	Pierce, D G and P J Tysome (1985) Monetary economics: theories, evidence and policy, Butterworths, London	
<b>(iii)</b>	Carl E Walsh (1998), Monetary Theory and Policy, MIT Press, Cambridge	
<b>(iv)</b>	C Rangarajan (1999), Indian Economy: Essays in Money and Finance, UBSPD	
<b>(v)</b>	Narendra Jadhav (1994), Monetary Economics for India, Macmillan.	
<b>(vi)</b>	Bennett McCallum (1989), Monetary Economics: Theory and Policy, Macmillan.	
<b>(vii)</b>	Saving, R T (1967), “Monetary policy targets and indicators”, Journal of Political economy,75: 446-465	

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**Department of Economics and Development Studies**  
**Course Curriculum**

1)	<b>Type of Course</b>	Major
2)	<b>Name of the Course</b>	Environmental Economics
3)	<b>Course Code:</b>	ECO013080
4)	<b>Total Credit:</b>	4 (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>	
8)	<b>Programme/course objective</b>	The course introduces the interaction between ecology and environment. The goal of this subject is to introduce to students the fundamentals of environmental economics, the economy of pollution, marketable permits and measurement of environmental values.
9)	<b>Course features and learning outcome</b>	The course introduces students to the environmental issues such as conserving biodiversity, ecology, pollution issues, marketable permit and environmental valuation approaches. After completing this course students will have a thorough understanding of environmental issues and challenges.
10)	<b>Who can attend the course</b>	This course is suitable for students from Science, Social Science, and Humanities. Students of CUJ in Semester VI can attend the course.
11)	<b>Course Eligibility/Pre-requisite</b>	10+2 or equivalent
12)	<b>Course Duration:</b>	One Semester
13)	<b>Course Structure</b>	
(i)	<b>Unit I</b>	<b>Economy and Environment</b>
		Interaction Between Ecological and Economic Systems; Environment Development-Poverty Nexus; Sustainable Development-Concept and Operationalisation, The market model of environmental values, Environment economy interaction, The circular economy.
(ii)	<b>Unit-II</b>	<b>The Economy of Pollution</b>
		The optimal level of pollution, Pollution as externality, alternative definitions of pollution, The market achievement and optimal pollution, Property rights and market bargain theorems, Coase theorem, taxation, Subsidies and optimal pollution,
(iii)	<b>Unit-III</b>	<b>Marketable Permits: Types and theories</b>
		The optimal Pigovian tax, Pollution charges and abatement costs, Pollution reduction subsidies, Marketable pollution permits, The theory



		of marketable permits, The advantages of marketable permits, Types of permit system.
<b>(iv)</b>	<b>Unit-IV</b>	<b>Measurement of Environmental values</b>
		Option value, Existence value, Empirical measures of option and existence value, Total economic value and decision making; Direct and Indirect Valuation of Environmental Goods: The hedonic price approach, Contingent valuation, Travel cost approach, Household health production function, Willingness to pay vs. Willingness to accept
<b>14)</b>	<b>Text Book and References:</b>	
<b>(i)</b>	Kolstad C.D. (1999) Environmental Economics, Oxford University Press, New Delhi.	
<b>(ii)</b>	Pearce D.W. and R. Turner (1991) Economics of Natural Resource Use and Environment, John Hopkins University Press, Baltimore.	
<b>(iii)</b>	Tietenberg, T. (1994) Environmental Economics Policy and Harper Collins New York	
	<b>Additional Readings</b>	
<b>(i)</b>	Baumol W.J. and W.E. Oates (1988) The Theory of Environmental Policy (2nd Edition) Cambridge University Press, Cambridge.	
<b>(ii)</b>	Bromley, D.W.(Ed) (1995), Handbook of Environmental Economics, Blackwell, London	
<b>(iii)</b>	Fisher, A, C. (1981) Resource and Environmental Economics, Cambridge University press Cambridge.	
<b>(iv)</b>	Hanley N.J.F. Shogern and B.White (1997) Environmental Economics in Theory and Practice Macmillan.	
<b>(v)</b>	Hussen A.M. (1999) Principles of Environmental Economics Routledge, London.	
<b>(vi)</b>	Jeroen, C.J.M. van den Bergh (1999) Handbook of Environmental and Resource Economics, Edward Elgar Publishing Ltd U.K.	
<b>(vii)</b>	Perman R.Ma and J. McGilvary (1996) Natural Resource and Environmental Economics, Longman, London.	

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**Course Curriculum**

1)	<b>Type of Course</b>	Major
2)	<b>Name of the Course</b>	Development Economics-II
3)	<b>Course Code:</b>	ECO013100
4)	<b>Total Credit:</b>	4 (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>	
8)	<b>Programme/course objective</b>	The course introduces the theories of growth and development. The goal of this subject is to introduce to students the fundamentals of development theories, inter linkage between population and development, dualism and development and environment and development.
9)	<b>Course features and learning outcome</b>	The course introduces students to the basic development theories, inter-linkage between population and development, dualism and development, environment and development, and Indian economy and development
10)	<b>Who can attend the course</b>	This course is suitable for students of the Department of Economics and Development Studies. Students of CUJ in Semester VI can attend the course.
11)	<b>Course Eligibility/Pre-requisite</b>	10+2 or equivalent
12)	<b>Course Duration:</b>	One Semester
13)	<b>Course Structure</b>	
(i)	<b>Unit I</b>	<b>Population and Development</b>
		Demographic concepts: birth and death rates, age structure, fertility and its determinants, the Malthusian population trap and the microeconomic household theory of fertility; costs and benefits of population growth and the model of low-level equilibrium trap; rural-urban migration – the Harris Todaro migration model and policy implications
(ii)	<b>Unit-II</b>	<b>Dualism and Development</b>
		Dualism – geographic, social and technological; the theory of cumulative causation (Myrdal); the regional inequalities in the context of economic development; the inverted U relationship; international inequality and the centre-periphery thesis; dependency, exploitation and unequal exchange; the dualistic development thesis and its implications

<b>(iii)</b>	<b>Unit-III</b>	<b>Environment and Development</b>
		Basic issues of environment and development – Development and environment inter-linkage; Poverty, environmental degradation and externalities; common property resources, renewable and non-renewable resources; concept of sustainable development
<b>(iv)</b>	<b>Unit-IV</b>	<b>Indian Economy and Environment</b>
		Trade and economic development; export-led growth; terms of trade and the Prebisch Singer Hypothesis; trade strategies for development – import substitution vs. export promotion; international commodity agreements; trade vs aid.
<b>12)</b>	<b>Text Book and References:</b>	
<b>(i)</b>	Todaro, Michael P and Stephen C Smith (2006): Economic Development, 8th Edition, Pearson	
<b>(ii)</b>	Thirlwall, A P (2011): Economics of Development, 9th Edition, Palgrave Macmillan, New Delhi.	

# **MINOR COURSES**

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

**Course Curriculum**

1)	<b>Type of Course</b>	Minor
2)	<b>Name of the Course</b>	Money and Banking
3)	<b>Course Code:</b>	ECO021010
4)	<b>Total Credit:</b>	4 (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>	
8)	<b>Programme/course objective</b>	The course introduces the concept of money and features of banking. The goal of this subject is to introduce to students the fundamentals of money banking, features of banks and their role in present situation.
9)	<b>Course features and learning outcome</b>	The course introduces students to the concept, type and meaning of money; functions of commercial bank, and financial market and also highlight their role in Indian banking system. After completing this course students will have a thorough understanding of banking activities and realise the significance of monetary economics.
10)	<b>Who can attend the course</b>	This course is suitable for students from the Science, Social Science, and Humanities streams. Students of CUJ in Semester I can attend the course.
11)	<b>Course Eligibility/Pre-requisite</b>	10+2 or equivalent
12)	<b>Course Duration:</b>	One Semester
13)	<b>Course Structure</b>	
(i)	<b>Unit I</b>	<b>Money: Concept and Types</b>
		Money Definition and functions of money; Types of money: legal tender money and bank money, near money; Value of money and index number; construction of index number; WPI, CPI, PPI, GDP deflator, Cost of living index. Demand for money- Classical and Keynesian approaches, Patinkin and the Real Balance Effect; Friedman's Quantity theory of money. Supply of Money- Measures of money supply: M1, M2, M3 and M4; High powered money and money multiplier.
(ii)	<b>Unit-II</b>	<b>Commercial Banking: Meaning and Types</b>



		Commercial Banking Meaning and types; Functions of commercial banks; the process of credit creation and its limitations; Balance sheet and portfolio management, Banking sector reforms in India; Lessons from Global Financial Crisis and Policy Response in India.
<b>(iii)</b>	<b>Unit-III</b>	<b>Central Banking: Functions and measures</b>
		Central Banking Functions of a central bank; Quantitative and qualitative methods of credit control; Central Bank's Supervision and prudential measures for Financial stability; current monetary policy of India, liquidity adjustment facility (LAF) through Repo and reverse repo operation, MSF.
<b>(iv)</b>	<b>Unit-IV</b>	<b>Financial Markets: Meaning and Types</b>
		Financial Markets Financial Market, Meaning, Types, Money Market and Capital Market, Primary and Secondary Market, Stock Exchanges, SEBI; Role of Financial Markets for Economic Development.
<b>13)</b>	<b>Text Book and References:</b>	
<b>(i)</b>	L. M. Bhole and J. Mahukud, Financial Institutions and Markets, Tata McGraw Hill, 5th edition, 2011.	
<b>(ii)</b>	Frederic Mishkin, Economics of Money, Banking and Financial Markets, The Pearson Series in Economics, 11th Edition, 2014.	
<b>(iii)</b>	D. Begg, G. Vernasca, S. Fischer and R. Dornbusch, economics, Tata McGraw Hill, 11th Edition, 2014.	

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**Course Curriculum**

1)	<b>Type of Course</b>	Minor
2)	<b>Name of the Course</b>	Introductory Macroeconomics
3)	<b>Course Code:</b>	ECO021020
4)	<b>Total Credit:</b>	4 (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>	
8)	<b>Programme/course objective</b>	The course introduces students to the concept of economics being used. This module introduces students to the basic concepts and roots of Macroeconomics. Macroeconomics deals with the aggregate economy. This course discusses the introductory concepts associated with the determination and measurement of aggregate macroeconomic variables like GDP, savings, investment, money and inflation.
9)	<b>Course features and learning outcome</b>	This course will allow students to understand the fundamental concepts of the macroeconomics. They can effectively express general economic concepts, able to think critically in written/oral form and integrate knowledge and ideas in a rational and meaningful manner.
10)	<b>Who can attend the course</b>	This course is suitable for Students of the CUJ in Semester II.
11)	<b>Course Eligibility/Pre-requisite</b>	10+2 or equivalent
12)	<b>Course Duration:</b>	One Semester
13)	<b>Course Structure</b>	
(i)	<b>Unit-I</b>	<b>Introduction to macroeconomics and its aggregation</b>
		What is Macroeconomics? Scope and Significance, Microeconomics and Macroeconomics; the roots of macroeconomics: John Maynard Keynes and the Great Depression; Basic concepts in macroeconomics: consumption goods, capital goods, final goods, intermediate goods; stocks and flows; equilibrium and disequilibrium, statics and dynamics, gross investment and depreciation; Circular flow of income; Measurement of Gross Domestic Product; Actual GNP and Potential GNP, GDP and Welfare.
(ii)	<b>Unit-II</b>	<b>Aggregate Demand and Aggregate Supply</b>
		Aggregate demand and its components. Propensity to consume and propensity to save (average and marginal). Short-run equilibrium output; investment multiplier

		and its mechanism. Aggregate Supply in the long-run and the short-run, equilibrium inflation, adjustment to shocks. Meaning of full employment and unemployment, types of unemployment – voluntary, involuntary, cyclical, structural and frictional unemployment, analysis of unemployment, causes of unemployment, costs of unemployment. Problems of excess demand and deficient demand; measures to correct them - changes in government spending, taxes and money supply.
<b>(iii)</b>	<b>Unit-III</b>	<b>Government Budget and the Economy</b>
		Government budget - meaning, objectives and components. Classification of receipts - revenue receipts and capital receipts; Classification of expenditure – revenue expenditure and capital expenditure. Balanced, Surplus and Deficit Budget – measures of government deficit. Crowding-out Mechanisms-Prices, Interest, Foreign Exchange Rate.
<b>(iv)</b>	<b>Unit-IV</b>	<b>Inflation</b>
		Definition of Inflation, Measures of Inflation, Demand side/Demand-pull- Real and Monetary factors; Supply side/Cost-push- Wage push, Profit push, Supply shock, Combating Cost-Push inflation with restrictive Monetary and Fiscal policy, Relationship between Demand-side and Supply-side inflation, Economic effects of Inflation; hyperinflation.
<b>14)</b>	Text Book and References	
<b>(i)</b>	Mankiw, N. (2018). Principles of Economics, 8th ed. Cengage Learning	
<b>(ii)</b>	Henderson, J. V., Poole, W. (1991). Principles of Economics, 2nd ed. D.C Heath & Company.	
<b>(iii)</b>	Blanchard, O. (2018). Macroeconomics, 7th ed. Pearson Education.	
<b>(iv)</b>	Dornbusch, R., Fischer, S., Startz, R. (2018). Macroeconomics, 12th ed. McGraw-Hill.	
<b>(v)</b>	Jones, C. (2016). Macroeconomics, 4th ed. W. W. Norton.	
<b>(vi)</b>	Mankiw, N. (2016). Macroeconomics, 9th ed. Worth Publishers.	
<b>(vii)</b>	Shapiro E., (2016). Macroeconomic Analysis, 5th ed. Galgotias.	
<b>(viii)</b>	Evans-Pritchard, J. (1985). Macroeconomics: An Introductory Text, 1st ed. Macmillan.	

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**Course Curriculum**

1)	<b>Type of Course</b>	Minor
2)	<b>Name of the Course</b>	Statistics
3)	<b>Course Code:</b>	ECO022010
4)	<b>Total Credit:</b>	4 (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>	
8)	<b>Programme/course objective</b>	The objective of the course is to well equip the students with statistical tools, technique and their application to the real-life problem. The emphasis will be on the concept of application for the decision making rather than derivations.
9)	<b>Course features and learning outcome</b>	This course provides students to understand the data and its relevance to develop an understanding of the quantitative techniques from statistics. The course will develop the ability to interpret the numerical information that forms the basis of decision-making in research and business. Students will be provided with the theoretical concepts, tools and methods of statistics as well as the opportunity to work through example problems. An important learning outcome of the course will be the capacity to analyse statistics in everyday life.
10)	<b>Who can attend the course</b>	This course is suitable for students of the Department of Economics and Development Studies. Students of CUJ in Semester III can attend the course.
11)	<b>Course Eligibility/Pre-requisite</b>	10+2 or equivalent
12)	<b>Course Duration:</b>	One Semester
13)	<b>Course Structure</b>	
(i)	<b>Unit I</b>	<b>Introduction</b>
		Introduction to Statistics: Basic concepts: Population, Sample, Parameter, Frequency Distribution, Cumulative frequency; Graphic and diagrammatic representation of data,

		Techniques of data collection; Sampling vs. Population, primary and secondary data.
		Sampling methods. probability sampling non probability sampling methods
<b>(ii)</b>	<b>Unit-II</b>	<b>Measures of Central Tendency</b>
		Central Tendency and Dispersion: Measures of central tendency; Mean, Median, Mode, Geometric mean and Harmonic mean.
		Measure of dispersion; range , quartile deviation, mean deviation and standard deviation
<b>(iii)</b>	<b>Unit-III</b>	<b>Correlation and Regression</b>
		Correlation and Regression Correlation; Simple, Coefficient of correlation — Karl Pearson and Rank Correlation methods
		Regression analysis — Estimation of regression line in a bivariate distribution— Least squares method, interpretation of regression coefficients.
<b>(iv)</b>	<b>Unit-IV</b>	<b>Time Series and Index Numbers</b>
		Time series analysis — Concept and components —price relative, quantity relative, value relative; Laspeyer's, Paasche's and Fisher, Problems in the construction and limitations of index numbers, Tests for ideal index number
<b>References</b>		
<b>(i)</b>	Gupta S.C (1990) Fundamentals of Statistics - Sultan Chand & Sons, Delhi.	
<b>(ii)</b>	Gupta, SP (2014) Statistical Methods 43rd Edition,, S. Chand and Sons, New Delhi	
<b>(iii)</b>	Croxtton, F.E., D.J. Cowden and S. Klein (1973), Applied General Statistics, Prentice Hall, New Delhi.	
<b>(iv)</b>	Gupta, S.C. and V.K. Kapoor (1993), Fundamentals of Applied Statistics, S. Chand and Sons, New Delhi	
<b>(v)</b>	Speigal, M.R. (1992), Theory and Problems of Statistics, McGraw Hill Book, London.	
<b>(vi)</b>	Gupta, S.C. and V.K. Kapoor (2014) Fundamentals of Mathematical Statistics S. Chand and Sons, New Delhi	

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**Course Curriculum**

1)	<b>Type of Course</b>	Minor
2)	<b>Name of the Course</b>	Introductory Microeconomics
3)	<b>Course Code:</b>	ECO022020
4)	<b>Total Credit:</b>	4 (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>	
8)	<b>Programme/course objective</b>	The course introduces students the concept of economics being used in real life decisions. The goal of this subject is to introduce the student the fundamental theories and principles of economics and their application in the real-life situation.
9)	<b>Course features and learning outcome</b>	The course introduces the students to the first course in economics from the perspective of individual decision making as consumers and producers. The students learn some basic principles of microeconomics, interactions of supply and demand. Basic market models of perfect competition, monopoly, and their features. After completing this course, students will be able to take individual decision making as consumers and producers. It will develop economic way of thinking to understand, analyse and to take decision.
10)	<b>Who can attend the course</b>	This course is suitable for students from Science, Social Science, and Humanities. Students of CUJ in Semester IV can attend the course.
11)	<b>Course Eligibility/Pre-requisite</b>	10+2 or equivalent
12)	<b>Course Duration:</b>	One Semester
13)	<b>Course Structure</b>	
(i)	<b>Unit I</b>	
		Meaning of economics, Meaning of microeconomics and macroeconomics and their difference, What is an economy? Central problems of an economy: what, how and for whom to produce, Concepts of production possibility frontier and opportunity cost
(ii)	<b>Unit-II</b>	
		Demand – Market demand, Determinants of demand, Demand schedule, Demand curve and its slope, Shift and Movement of Demand Curve, Law of



		Demand and its exception, Price Consumption Curve, Income Consumption Curve, Giffen good, inferior good Derivation of demand curve for normal and giffen good, Price elasticity of demand, Income elasticity of Demand, Cross elasticity of Demand, Measurement of price elasticity of demand, Relationship between price elasticity of demand and total expenditure. Factors affecting elasticity of Demand, Meaning of utility - Marginal utility, Law of diminishing marginal utility, Law of Equimarginal Utility
<b>(iii)</b>	<b>Unit-III</b>	
		Supply, Law of Supply, Elasticity of Supply, Types of elasticity of Supply, factor affecting elasticity of supply, Indifference curve, properties of Indifference curve, Indifference Map, The consumer's budget (budget set and budget line), Consumer equilibrium theory through indifference curve Analysis
<b>(iv)</b>	<b>Unit-IV</b>	
		Total Product , Average Product, Marginal Product, Relation between TP, MP and AP Production function –Short-Run, Long-Run , law of variable proportion, Law of Returns to Scale
		Cost –Short run costs - total cost, total fixed cost, total variable cost, Average cost; Average fixed cost, average variable cost and marginal cost-meaning and their relationship, Types of Cost, Relation between AC and MC
		Revenue –Total revenue, Average revenue, Marginal revenue - meaning and their relationship
		Market, Meaning and its classification on the basis of competition Perfect competition – Features and equilibrium level of price and output determination Monopoly Market -Features and equilibrium level of price and output determination
<b>12)</b>	<b>Text Book</b>	
<b>(i)</b>		Pindyck, Robert. S; Rubinfeld,: Micro Economics, Prentice Hall of India, Daniel. M and Mehta Prem. L New Delhi. First Indian Reprint (2005).
<b>(ii)</b>		Hal R. Varian, Intermediate Microeconomics, a Modern Approach, W.W. Norton and Company/Affiliated East-West Press (India), 8th edition, 2010. The workbook by Varian and Bergstrom may be used for problems.
<b>(iii)</b>		Henderson, J.M. and R.E. Quandt (1980), Microeconomic Theory: A Mathematical Approach, McGraw Hill, New Delhi.
<b>(iv)</b>		Koutsoyiannis, A. (1979), Modern Microeconomics, (2nd Edition), Macmillan Press, London.
		<b>References:</b>
<b>(i)</b>		Baumal, W.J. Economic Theory and Operational Analysis, 3rd edition; New Delhi, Prentice Hall, 1996.
<b>(ii)</b>		Hirshleifer, J. and A. Glazer (1997), Price Theory and Applications, Prentice Hall of India, New Delhi.
<b>(iii)</b>		Green, H.A.G. (1971), Consumer Theory, Penguin, Harmondsworth.

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

**Course Curriculum**

1)	<b>Type of Course</b>	Minor
2)	<b>Name of the Course</b>	Public Finance
3)	<b>Course Code:</b>	ECO023010
4)	<b>Total Credit:</b>	4 (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>	
8)	<b>Programme/course objective</b>	The course introduces the role and function of Government in an economy. The goal of this subject is to introduce to students the fundamentals of fiscal components – tax systems, expenditure, budgetary planning etc.
9)	<b>Course features and learning outcome</b>	The course introduces students to the fiscal components of an economy with the basic problems of resource allocation, income distribution and budgetary planning. The students learn about fiscal instruments such as – tax, revenue, debt, and expenditure; budget, its types and components, theories and principles, and the workings of government in developing budgetary policies. After completing this course students will have a thorough understanding of fiscal instruments with a careful analysis of the issues which underline budgetary policies.
10)	<b>Who can attend the course</b>	This course is suitable for students from Science, Social Science, and Humanities. Students of CUJ in Semester V can attend the course.
11)	<b>Course Eligibility/Pre-requisite</b>	10+2 or equivalent
12)	<b>Course Duration:</b>	One Semester
13)	<b>Course Structure</b>	
(i)	<b>Unit I</b>	<b>Introduction</b>
		Public Finance: Meaning and Scope, Normative Approach to Public Finance- Allocation, Distribution and Stabilization function of government, Welfare Economics and Government Intervention- Pareto Efficiency, Equity vs. Efficiency, Concept of Market Failure.
(ii)	<b>Unit-II</b>	<b>The Theory of Public Goods</b>

		Public Goods- Meaning and characteristics, Public Goods and Market Failure, Public good, private good and merit good. Pure and Impure Public Goods, The Free Rider Problem, Efficient Allocation of Public Goods- The Lindahl Equilibrium, Samuelson's theory of Public Expenditure.
<b>(iii)</b>	<b>Unit-III</b>	<b>Externalities</b>
		Meaning and types of Externalities and Market Failure, Internationalization of Externalities, Corrective taxes and Subsidies, Pollution Permits, Regulation and Direct Control, Assignment of Property Rights- The Coase Theorem
<b>(iv)</b>	<b>Unit-IV</b>	<b>Theories of Taxation</b>
		Elementary theories of Product and Factor taxation Concept of shifting and Incidence, Forward and Backward Shifting, The Demand and supply theory of Incidence, Incidence of Product taxes (Specific tax and Lump Sum Tax) under Perfect Competition and Monopoly, Incidence of Factor taxes under Perfect Competition and Monopoly
<b>14)</b>	Text Book and References:	
<b>(i)</b>	Atkinson, A. and Stiglitz, J. (1980): Lectures in Public Economics, McGraw Hill, London.	
<b>(ii)</b>	Browning, Edgar K. and Browning, Jacqueline, M. (2004): Public Finance and the Price System, Pearson Education Pvt. Ltd. Delhi.	
<b>(iii)</b>	Buchanan, James M. (1968): The Demand and Supply of Public Goods, Skokie III Rand McNally.	
<b>(iv)</b>	Chelliah, Raja J. et.al: Trends and Issues in India's Federal Finance.	
<b>(v)</b>	Chelliah, Raja J: Fiscal policy in Underdeveloped Countries.	
<b>(vi)</b>	Cullis, John & Jones, Philip (2009): Public Finance and Public Choice, Oxford University Press, Oxford.	
<b>(vii)</b>	Jha, Raghendra (1999): Modern Public Economics, Routledge, London, and New York	
<b>(viii)</b>	Laffont, Jean. Jacques (1994): Fundamentals of Public Finance, Cambridge Mass, MIT Press.	
<b>(ix)</b>	Musgrave, R.A., and Musgrave, P.B. (1989): Public Finance in Theory and Practices, McGraw Hill, New York.	
<b>(x)</b>	Musgrave, Richard.A.(1959): The Theory of Public Finance, McGraw Hill, New York. Myles,	

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

**Course Curriculum**

1)	<b>Type of Course</b>	Minor
2)	<b>Name of the Course</b>	Issues on Indian Economy
3)	<b>Course Code:</b>	ECO023020
4)	<b>Total Credit:</b>	4 (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>	
8)	<b>Programme/course objective</b>	To enable the students to grasp the current economic problems in India. To highlight the important economic sectors and challenges faced by them in the recent years. To acquaint students with the major policy regimes of government to resolve problems in agriculture, industry and service sector of India. To enable students to understand the change in policy focus from central planning to process of market integration of the Indian Economy with other markets.
9)	<b>Course features and learning outcome</b>	At end of this course Students will identify the current economic problems in India. Students will identify the important economic sectors and challenges faced by them in the recent years. Students will learn the major policy regimes of government and also try to resolve problems from agriculture, industry and service sector of India. Students will understand the change in policy focus from central planning to process of market integration of the Indian Economy with other markets in the world.
10)	<b>Who can attend the course</b>	This course is suitable for students from Science, Social Science, and Humanities. Students of CUJ in Semester V can attend the course.
11)	<b>Course Eligibility/Pre-requisite</b>	10+2 or equivalent
12)	<b>Course Duration:</b>	One Semester
13)	<b>Course Structure</b>	
(i)	<b>Unit I</b>	<b>Indian Economy and Development:</b>
		Characteristics of Indian Economy: Basic features and problems of Indian Economy

		<p>Understanding the basic structure and functioning of the Indian economy, along with various development policies and programs.</p> <p>Economic Planning in India: Understanding the objectives, strategies, and outcomes of different Five-Year Plans in India, along with their impact on economic development.</p> <p>Economic History of India; Change in Indian Economic structure after Globalization</p> <p>Emergence and development of Planning exercise in India – historical debates, plan models and shift in focus over time</p>
<b>(ii)</b>	<b>Unit-II</b>	<b>Poverty and Unemployment</b>
		<p>Concepts of Poverty and Measurements, Inequality and problem of Identification</p> <p>Employment Structure and its Elasticity, Labour Market &amp; Labour issues in India.</p> <p>Inflation – trends, structure and causes, Black money in India</p>
<b>(iii)</b>	<b>Unit-III</b>	<b>Indian Agriculture</b>
		<p>Understanding the challenges and issues related to Indian agriculture,</p> <p>Policies and Performance in Agriculture: Sectoral Composition of Indian Economy: Agricultural Crisis &amp; Policy response</p> <p>Trends in Agricultural Production and Productivity, Evaluation of land reforms &amp; Green Revolution.</p>
<b>(iv)</b>	<b>Unit-IV</b>	<b>Industry and Infrastructure</b>
		<p>Policies and Performance in Industry: Trends and Patterns of Industrial Sector with focus on PSUs and Private Sectors.</p> <p>Trends and Performance in Services: Pattern &amp; Structure of Growth, Major Challenges, Policy Responses</p> <p>Infrastructure Development: Physical and Social; Public-Private Partnerships</p> <p>Foreign Trade: Structure and Direction, BOP, Flow of Foreign Capital, Trade Policies, WTO</p> <p>Human Development Index and SDGs</p>
<b>14)</b>	<b>Text Book and References:</b>	
<b>(i)</b>	Indian Economy Performance and Policies (21st ed.)Uma Kapila Academic Foundation	
	<b>References:</b>	
<b>(i)</b>	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.	
<b>(ii)</b>	Bardhan, P.K. (9th Edition) (1999), The Political Economy of Development in India, Oxford University Press, New Delhi.	
<b>(iii)</b>	Bawa, R.S. and P.S. Raikhy (Ed.) (1997), Structural Changes in Indian Economy, Guru Nanak Dev University Press, Amritsar.	
<b>(iv)</b>	Brahmananda, P.R. and V.R. Panchmukhi (Eds.) (2001), Development Experience in the Indian Economy : Inter-State Perspectives, Bookwell, Delhi.	

(v)	Chakravarthy, Sukhamoy (1987) Development Planning: The Indian Experience, Clarendon Press
(vi)	Oxford.
(vii)	Chakravarthy, Sukhamoy (1998) Writings on Development, Oxford University Press, New Delhi.
(viii)	Dantwala, M.L. (1996), Dilemmas of Growth : The Indian Experience, Sage
(ix)	Publications, New Delhi.
(x)	Datt R & K.P.M Sundharam, "Indian Economy", S. Chand & co. Ltd, New Delhi.
(xi)	Government of India, Economic Survey, (Annual), Ministry of Finance, New Delhi.
(xii)	Jain, A.K. (1986), Economic Planning in India, Ashish Publishing House, New Delhi.
(xiii)	Jalan, B. (1992), The Indian Economy — Problems and Prospects, Viking, New Delhi.
(xiv)	Jalan, B. (1996), India's Economic Policy — Preparing for the Twenty First Century, Viking, New Delhi.
(xv)	Misra S.K & V.K Pure, "Indian Economy", 29th revised edition, Himalayan publication House, Mumbai.
(xvi)	Parikh, K.S. (1999), India Development Report — 1999-2000, Oxford University
(xvii)	Press, New Delhi. Reserve Bank of India, Report on Currency and Finance, (Annual).
(xviii)	Sandesara, J.C. (1992), Industrial Policy and Planning, 1947-1991 : Tendencies,
(xix)	Interpretations and Issues, Sage Publications, New Delhi.
(xx)	Sen, R.K. and B. Chatterjee (2001), Indian Economy: Agenda for 21st Century (Essays in honour of Prof. P.R. Brahmananda), Deep & Deep Publications, New Delhi.
(xxi)	Joshi, V. and I.M.D. Little (1999), India : Macro Economics and Political Economy, 1964-1991, Oxford University Press, New Delhi.



# **Multidisciplinary Courses**

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

**Course Curriculum**

1)	<b>Type of Course</b>	Minor
2)	<b>Name of the Course</b>	Principles of Economics
3)	<b>Course Code:</b>	ECO031030
4)	<b>Total Credit:</b>	3 (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 course exposes students to the basic of economic theory. It emphasises how economists think, how consumers and firms make decisions and interact in output and input markets, and how different market structures operate.
9)	<b>Course features and learning outcome</b>	Students will learn economic terms and concepts that impact our daily lives and appear in popular press. Some of these examples are scarcity, trade-offs, opportunity costs, markets, economy. Students will also learn about the method of how economics-how economists think and how they make theories to understand and solve human issues.
10)	<b>Who can attend the course</b>	This course is suitable for students from Science, Social Science, and Humanities. Students of CUJ in Semester I can attend the course.
11)	<b>Course Eligibility/Pre-requisite</b>	10+2 or equivalent
12)	<b>Course Duration:</b>	One Semester
13)	<b>Course Structure</b>	
(i)	<b>Unit I</b>	
		Economics meaning basic question of economics. Trade-offs, opportunity costs, Difference between micro and macroeconomics. Demand, law of demand , law of diminishing marginal utility, demand function, Supply, law of supply , elasticity of demand, elasticity supply, consumer surplus, budget line, production function, production possibility curve. Market meaning and forms of market
(ii)	<b>Unit-II</b>	
		Macroeconomics aggregate, GDP, GNP, NNP, GDP deflator, circular flow of Income, Inflation ,meaning, types, cause, effects and remedies, monetary policy and its instruments, fiscal policy,

<b>(iii)</b>	<b>Unit-III</b>	
		Structure of economy, Role of government, market failure, tax structure, financial institutions, financial market, financial instruments and financial regulation.
<b>14)</b>	<b>Text Book and References:</b>	
<b>(i)</b>	Principles of Economics, Gregory N Mankiw, Cengage Learning India Private Limited, New Delhi	
<b>(ii)</b>	Karl E. Case and Ray C. Fair (2007): Principles of Economics, 8 th Edition, Pearson Education Inc.	
<b>(iii)</b>	Dornbusch, R., Fischer, S., Startz, R. (2018). Macroeconomics, 12th ed. McGraw-Hill.	
<b>(iv)</b>	Musgrave, R.A., and Musgrave, P.B. (1989): Public Finance in Theory and Practices, McGraw Hill, New York.	

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**Department of Economics and Development Studies**  
**Course Curriculum**

1)	<b>Type of Course</b>	Multidisciplinary Courses
2)	<b>Name of the Course</b>	Open Economy Macroeconomics
3)	<b>Course Code:</b>	ECO031020
4)	<b>Total Credit:</b>	3 (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>	This course aims to emphasis on how a country's relations to the rest of the world affect aggregate economic activity, employment, exchange rate and inflation and form the scope for monetary and fiscal policy.
9)	<b>Course features and learning outcome</b>	The student will identify how exchange rates, interest rates and capital movements between currencies are determined, how the effects of changes in fiscal and monetary policy shifts in private sector behaviour. An open economy actively examines economies nationally and globally by analyzing participation in global trade, allowing the exchange of goods, services, and financial assets across international boundaries. This enables the students to understand the impacts of the International Macroeconomic Policy and to assess the benefits and drawbacks of different policies.
10)	<b>Who can attend the course</b>	This course is suitable for Students of the CUJ in Semester II.
11)	<b>Course Eligibility/Pre-requisite</b>	10+2 or equivalent
12)	<b>Course Duration:</b>	One Semester
13)	<b>Course Structure</b>	
(i)	<b>Unit-I</b>	
		Measure of international transactions: balance of payment; current account: trade of goods and services, transfer payment, capital account, financial account; balance of payments equilibrium, Autonomous and Accommodating Transactions; national account; Sustainability of Current-Account Deficits
(ii)	<b>Unit-II</b>	
		Exchange Rates and the Foreign Exchange Market; Money, Interest Rates, and Exchange Rates; Price Levels and the Exchange Rate in the Long Run;

		Output and the Exchange Rate in the Short Run; The Mundell-Fleming Model; Fixed Exchange Rates and Foreign Exchange Intervention
<b>(iii)</b>	<b>Unit-III</b>	
		International Macroeconomic Policy: International Monetary Systems: An Historical Overview; Financial Globalization: Opportunity and Crisis; Optimum Currency Areas and the Euro; Developing Countries: Growth, Crisis, and Reform
<b>14)</b>	<b>Text Book and References</b>	
<b>(i)</b>	Feenstra, R., Taylor, A. (2014). International economics, 3rd ed. Worth Publishers.	
<b>(ii)</b>	Krugman, P., Obstfeld, M., Melitz, M. (2018). International economics: Theory and policy, 11th ed. Pearson Education.	
<b>(iii)</b>	Pugel, T. (2015). International Economics, 16th ed. McGraw-Hill Education.	

**Central University of Jharkhand**  
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**Course Curriculum**

1)	<b>Type of Course</b>	Multidisciplinary
2)	<b>Name of the Course</b>	Indian Economy and Policy
3)	<b>Course Code:</b>	ECO032010
4)	<b>Total Credit:</b>	3 (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 highlight issues and challenges on Indian Economy. The emphasis will be on the giving broad overview of various issues in different sectors of the economy.
9)	<b>Course features and learning outcome</b>	This course provides students to understand the nature of problems and it's possible solution in different sectors of the Indian economy. Issues related to Indian agriculture, industry, and tertiary sector of the economy. An important learning outcome of the course will be the capacity to analyse various issues which may be developed as research questions later.
10)	<b>Who can attend the course</b>	This course is suitable for students from Science, Social Science, and Humanities. Students of CUJ in Semester III can attend the course.
11)	<b>Course Eligibility/Pre-requisite</b>	10+2 or equivalent
12)	<b>Course Duration:</b>	One Semester
13)	<b>Course Structure</b>	
(i)	<b>Unit I</b>	<b>Issues in Agriculture Sector of India</b>
		Farmer suicides, coping and adaptation mechanism, agricultural credit, need for second Green revolution; policies for sustainable agriculture; farm inputs and subsidies; agricultural marketing; commercialization and diversification of agriculture; New Agricultural Policy.
(ii)	<b>Unit II</b>	<b>Issues in Industrial Sector of India</b>
		Industrial policy of 1956, 1977, 1980, and 1991; recent policies to deal with displacement; Public Sector enterprises and their performance; Privatization and disinvestment debate; Problem of sick units in India and government policy.
(ii)	<b>Unit III</b>	<b>Tertiary Sector Development</b>
		Tertiary Sector: growth and contribution of service sector to GDP of India, share of services in employment; contribution of Indian banking sector; IT sector share to Indian GDP; recent growth of services in India



<b>14)</b>	<b>Text Book and References:</b>	
<b>(i)</b>	Datt, R. and K.P.M. Sundharam (2006), Indian Economy, fifty-third edition, S.Chand, New Delhi	
<b>(ii)</b>	Puri, V.K. and S.K. Misra (2023), Indian Economy, 41 <sup>st</sup> edition, Himalaya Publishing House, New Delhi	
<b>(iii)</b>	Dhingra, I.C. (2018), The Indian Economy: Environment & Policy, 30 <sup>th</sup> edition, S. Chand, New Delhi	

# **Skill Enhancement Courses**

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

**Course Curriculum**

1)	<b>Type of Course</b>	Skill Enhancement
2)	<b>Name of the Course</b>	Basic Mathematical Economics
3)	<b>Course Code:</b>	ECO051010
4)	<b>Total Credit:</b>	3 (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 transmit the body of basic mathematics that enables the study of economic theory at the undergraduate level. In this course, particular economic models are not the ends, but the means for illustrating the method of applying mathematical techniques to economic theory in general.
9)	<b>Course features and learning outcome</b>	The analytical tools introduced in this course have applications wherever optimization techniques are used in business decision-making. The course additionally makes the student more logical in making or refuting arguments
10)	<b>Who can attend the course</b>	This course is suitable for students from Science, Social Science, and Humanities. Students of CUJ in Semester I can attend the course.
11)	<b>Course Eligibility/Pre-requisite</b>	10+2 or equivalent
12)	<b>Course Duration:</b>	One Semester
13)	<b>Course Structure</b>	
(i)	<b>Unit I</b>	
		Preliminaries - Logic And Proof Techniques; Sets And Set Operations; Relations; Functions And Their Properties; Number Systems Graphs;
		Elementary, Types of Functions: Quadratic, Power, Exponential, Logarithmic
(ii)	<b>Unit-II</b>	
		Different kinds of matrices, Matrix operations – addition, multiplication, transpose
		Singular matrices and matrix inversion.
		Determinants and operations with determinants. Eigen vectors and eigen values.
(iii)	<b>Unit-III</b>	
		Rules of derivation; Higher order derivatives of a function of one variable; Functions of several variable and partial derivatives (of first and higher

	orders); Hessian matrix; Linear, convex, and concave functions; Derivatives for a vector valued function; Jacobian matrix
<b>14)</b>	<b>Text Book</b>
<b>(i)</b>	Mathematics for economic analysis. Prentice Hall. (4th ed.) Sydsaeter, K., & Hammond, P. J. (1995). Pearson Education India
<b>(ii)</b>	Chiang, A. C., & Wainwright, K. (2005). Fundamental methods of mathematical economics (4th ed.). McGraw-Hill/Irwin.
<b>(iii)</b>	J.M. Henderson, & R.E. Quandt. (1958) Microeconomic Theory. A Mathematical Approach. Economics Handbook Series. McGraw-Hill Book Company. (3rd Edition)
	<b>References</b>
<b>(i)</b>	Allen, R.G.D. (1974), Mathematical Analysis for Economists, Macmillan Press and ELBS, London.
<b>(ii)</b>	Allen, R.G.D. (1976), Mathematical Economics, Macmillan, London.
<b>(iii)</b>	Arrow, K.J. and M. Intrilligator (Eds.) (1982), Handbook of Mathematical Economics, Volumes I, II and III, North Holland, Amsterdam.
<b>(iv)</b>	Chung, J.W. (1993), Utility and Production: Theory and Applications, Basil Blackwell, London.
<b>(v)</b>	Ferguson, C.E. (1976), Neo-classical Theory of Production and Distribution, Modules 3 and 4

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**School of Humanities and Social Sciences**  
**Department of Economics and Development Studies**

**Course Curriculum**

1)	<b>Type of Course</b>	Skill Enhancement
2)	<b>Name of the Course</b>	Computer Applications in Economics
3)	<b>Course Code:</b>	ECO051020
4)	<b>Total Credit:</b>	3 (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 well equip the students with statistical tools, technique and their application to the real-life problem. The emphasis will be on the concept of application for the decision making rather than derivations.
9)	<b>Course features and learning outcome</b>	This course provides students to understand the data and its relevance to develop an understanding of the quantitative techniques from statistics. The course will develop the ability to interpret the numerical information that forms the basis of decision-making in research and business. Students will be provided with the theoretical concepts, tools and methods of statistics as well as the opportunity to work through example problems. An important learning outcome of the course will be the capacity to analyse statistics in everyday life.
10)	<b>Who can attend the course</b>	This course is suitable for students from Science, Social Science, and Humanities. Students of CUJ in Semester II can attend the course.
11)	<b>Course Eligibility/Pre-requisite</b>	10+2 or equivalent
12)	<b>Course Duration:</b>	One Semester
13)	<b>Course Structure</b>	
(i)	<b>Unit I</b>	<b>Data Processing and Presentation</b>
		Data processing using Microsoft Excel – fundamentals of spreadsheets – fillhandles – absolute positioning – cell operations – data sorting and filter – Data presentation: Charts- barcharts, line charts, pie charts – statistical functions –measures of central tendencies and dispersions – data analysis – regression
(ii)	<b>Unit-II</b>	<b>Introduction to Stata</b>
		Introduction to Stata – Stata Description – Stata Windows creating new dataset – importing ASCII data – creating log, cmdlog and do files –

		generating and replacing variables – summary statistics and exploratory data analysis –frequency tables and two-way cross tabulations
<b>(iii)</b>	<b>Unit-III</b>	<b>Multivariate data analysis</b>
		Multivariate data analysis using SPSS and E-Views – basics data management – importing data – recoding variables – creating new variables using compute command –selecting and weighting cases – univariate analysis – cross tabulations –multiple regression analysis, Importing data to E-views-Time series regression analysis
<b>14)</b>	<b>Text Book and References:</b>	
<b>(i)</b>	Baltagi, B. H. (2005) Econometric analysis of panel data, third edition, John Wiley and Sons, Ltd.	
<b>(ii)</b>	Brooks Chris (2 <sup>nd</sup> edition), 2008, Introductory Econometrics for finance using E-views, Cambridge University press	
<b>(iii)</b>	Jack Johnston and John Dinardo, Econometric Methods, McGraw-Hill International Editions, Singapore, 1997	
<b>(iv)</b>	Walter Enders, Applied Econometric Time Series, Wiley India (P) Ltd, New Delhi2004	
<b>(v)</b>	Wooldridge J.M., Introductory Econometriccis, Cengage Learning publication Acock Alan C. 2006, A Gentle Introduction to STATA, Third edition, STATA press.	

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**Department of Economics and Development Studies**

**Course Curriculum**

1)	<b>Type of Course</b>	Skill Enhancement
2)	<b>Name of the Course</b>	Field Studies and Practices
3)	<b>Course Code:</b>	ECO052010
4)	<b>Total Credit:</b>	3 (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 well equip the students with statistical tools, technique and their application to the real-life problem. The emphasis will be on the concept of application for the decision making rather than derivations.
9)	<b>Course features and learning outcome</b>	This course provides students to understand the data and its relevance to develop an understanding of the quantitative techniques from statistics. The course will develop the ability to interpret the numerical information that forms the basis of decision-making in research and business. Students will be provided with the theoretical concepts, tools and methods of statistics as well as the opportunity to work through example problems. An important learning outcome of the course will be the capacity to analyse statistics in everyday life.
10)	<b>Who can attend the course</b>	This course is suitable for students from Science, Social Science, and Humanities. Students of CUJ in Semester III can attend the course.
11)	<b>Course Eligibility/Pre-requisite</b>	10+2 or equivalent
12)	<b>Course Duration:</b>	One Semester
13)	<b>Course Structure</b>	
(i)	<b>Unit I</b>	<b>Introduction</b>
		Basic concepts of surveying; Population and Sample; Parameter and Statistic; types of population; sampling methods; research questions; hypotheses; developing theoretical framework; Types of survey data: cross section, time series and panel data.
(ii)	<b>Unit II</b>	<b>Data Collection</b>
		Pilot survey; Field survey; Methods of Primary Data collection; Data entry; Coding and decoding; Tabulation; Diagrammatic representation of data; mapping; data analysis tools: descriptive vs econometric.
(iii)	<b>Unit III</b>	<b>Issues and Challenges</b>



		Non-response cases; selection bias, construction of model; sampling vs non-sampling errors; problem of endogeneity
<b>14)</b>	<b>References</b>	
<b>(i)</b>	Kothari C.R., Research Methodology: Methods and Techniques (2 <sup>nd</sup> revised edition), New Age International Publishers, 2004.	
<b>(ii)</b>	Gupta S.C, Kapoor V.K., Fundamentals of Mathematical Statistics, Sultan Chand & Sons, 2014.	
<b>(iii)</b>	Kumar R., Research Methodology: a step by step guide for beginners (3 <sup>rd</sup> edition), SAGE Publications Ltd, 2011.	