DAV University, Jalandhar

Department of Commerce Business Management & Economics



Scheme and Syllabi

for

Bachelor of Science (Economics) Honours/ Honours with Research

(As per NEP-2020)

Batch-2024 & onwards

1. About the University:

DAV University stands as a pioneer in contemporary education in India, emphasizing 21st-century skills crucial for success in today's competitive landscape. The campus, marked by modern infrastructure and verdant spaces, serves as an inspiring backdrop for academic pursuits, cooperative experiences, and extracurricular activities.

Our curriculum spans engineering, business, sciences, humanities, and social sciences, strategically designed to foster critical thinking, creativity, and adaptability among students. The forward-thinking faculty prioritizes skill development, problem-solving, communication, and collaboration, aiming to prepare graduates for the challenges of the modern world.

DAV network covers 900+ campuses spread over 21 states of India, with nearly 2 million students being trained yearly.

2. About the Department of Academic Affairs:

The Department of Academics Affairs, DAV University works for the continuous improvement of the quality of academic activities of the university. The department is comprised of experienced faculty members and staff contributing from different functional domains and specializations. The department strongly believes that quality in education could only be envisaged with stronger cohesion between the different stakeholders of an academic body. This can only be achieved with an appropriate blend of a constructive teaching pedagogy with the student learning process. The department regularly monitors the quality of teaching-learning process in the university and works to provide necessary solutions as and when desired.

3. Vision:

To ardently seek, consider and implement latest nuances, developments and innovations in Sciences, Languages, Engineering and Technology, Business Studies and Computer Sciences in order to ensure that students develop a holistic acumen for making strategic and judicious decisions in the local and global spectra.

To harness and transform natural, human and technological resources to ensure sustainable development, so that they enhance, enrich and bequest human life with imagination, skills and vision. Thereby, they become instrumental in the integral development of society and mankind.

4. Mission:

To facilitate our stakeholders to have a broad, encompassing access to knowledge & education and to assist individuals unravel deeper dimensions of learning & experimentation.

To enable students become imaginative, integrated beings who constructively and creatively contribute to environment and society and who play a vital role in the advancement of learning and understanding.

5. Goals:

We envision the creation of excellent human resource through the integration of multi-dimensional Personality Development Programme with the university curriculum in order to produce world-class professionals.

Our four main educational goals are:

- Humanized education (to educate an individual to be an intellectual with strong moral character);
- Socialized education (to educate an individual who can willingly serve the community);
- Specialized education (to foster creativity, well balanced with practicality);
- Globalized education (a forward-looking, global-minded individual);

6. Core Values:

- Competence
- Integrity
- Creativity
- Innovation
- Trust
- Excellence
- Community

7. Objectives:

- To provide an academically ambient environment for its stakeholders.
- To develop scientifically superior, socially awake, and responsible citizens.
- To generate industry-oriented competent manpower to meet the needs of globalization.
- To provide state-of-the-art equipment for R&D facilities in the university.
- To provide effective linkage between industry and university for sponsored research and consultancy.
- To ensure regular up-gradation of knowledge and skills of the faculty.

- To attain National and International accreditations.
- To develop centers of excellence in the emerging areas of science and technology.
- Merging of knowledge with the spirit of good ethics, values and Vedic teachings.

8. Eligibility for Admission:

Student must have successfully completed the 10+2 examination **The applicant must have** obtained a minimum of 50% marks (45% marks for SC/ST applicants) in aggregate.

The medium of instruction for the entire Graduation Degree Programme shall be English only.

9. Programme Structure:

The B.Sc. Economics Degree Programmes at DAV University is of 4 Academic Years (8 semesters), with each academic year divided into two semesters of 90 working days in each semester.

10. Choice Based Credit System (CBCS):

The DAV University is followed Choice Based Credit System. All the courses are to be registered by a student in a semester to earn Credits. Credit shall be assigned to each course in a L: T: P (Lecture: Tutorial: Practical).

One Credit- for one hour/week/Semester for Theory/Lecture(L) course and Tutorials

One Credit- for two hour/week/Semester for Laboratory/Practical (P)

Each student shall Register for and secure the specified number of Credits (160 Credits) require for the completion of the B. Sc. Economics Degree.

11. Student Attendance System

- The subject teacher marks online attendance on DAVIS portal and students keep track of their attendance online by using their user ID and password.
- The students are expected to attend all scheduled lectures (theory and practical) regularly. The attendance of the students is taken by their respective teachers at the start of the lecture/ lab session. A student, who reports late for class or leaves before the class is over, is not given attendance by the teacher. All absences are counted, regardless of the reason for the absence. Further, the percentage of attendance of a student in a subject also contributes to the internal marks of that subject.
- The attendance should be recorded in progressive manner. Absent students should be marked 'X' in the student attendance register.

12. Attendance Requirements:

- A student failing to attend 75% of the scheduled lectures in Theory & Practical courses will be detained in that course and will not be allowed to appear in the University exam of that course. A student detained in the course(s) would be allowed to appear in the university exam only on having completed the attendance in the course(s), when the course(s) is offered as regular course(s).
- The University is following a semester system for all its programmes. Each semester has elements of Mid Semester Examination (MST), Written Quiz (Objective Type MCQs)/Assignment/Project Work/Seminar (evidence based) and End Semester Examination (ESE). To be eligible for appearing in the ESE (End Semester Examination) each student has to fulfill the following conditions:
 - (i) Minimum 75% attendance of the lecture delivered/classes engaged in each subject.
 - (ii) Maintained discipline and good character in the campus
 - (iii) Not involved in any case of criminal nature outside the University during the period of study.
 - A candidate who fails to attain 75% of attendance in any subject, he/she will not be allowed to appear in that subject. However, if the attendance is between 50% to 74.9% in a subject, he /she can complete the attendance in the next academic year, whenever, the subject is offered. He/she will required to attend the classes to extent he/she reaches the 75% of attendance as required in the subject. He/she will not be eligible for marks reserved for attendance. Candidate will have to pay University fee and examination fee as decided by the University from time to time.
 - If the attendance is between 25% to 49.9% he/she can complete it in the next two consecutive semesters whenever it is offered in two academic years. By attending 25% in the next academic year remaining in the next to next academic year. Candidate has to pay fee and examination fee as decided by the University from time to time. No attendance marks shall be awarded in this case also.
 - Candidate completing the shortage of attendance can appear in the ESE in the next available opportunity i.e. Supplementary/End Semester examination whichever is earlier after paying the necessary fee for this purpose.
 - Where attendance is less than 24.9% the candidate or takes semester off due to unavoidable circumstances will have to repeat the semester by registering the same at the end of the programme whenever offered by paying the applicable semester fee and continuation fee.
 - Under no circumstance a candidate can be allowed to register for two semester simultaneously.
 - Vice-Chancellor on the recommendation of subject teacher through HOD and Dean (Academics) may condone 1% of attendance in each subject for exceptional cases.
 - A student shall be given a Medical leave up to maximum of 15 days in a semester provided medical certificate submitted is from CMO/SMO/MO of a Govt. Hospital or taken from a private hospital/Nursing Home/Doctor it has to be counter signed by Civil Surgeon/CMO/SMO of a Govt. hospital or by the University authorized Doctor/University Doctor. The medical certificate submitted after one week joining the University as fit candidate shall not be entertained.
 - A student shall be given duty leave upto maximum of 20 days per semester to participate in the cultural/NSS/Sports/NCC duly recommended by the Head of the activity in-charge.

- However, in exceptional cases the duty leave can go maximum up to 50 % of the lecture delivered. The exceptional cases shall be decided by a committee of experts constituted by the Vice-Chancellor. The exceptional cases should participate at National/International level.
- Candidate missing their MST due to above exigencies a special exam be conducted and if he/she misses ESE a chance in the supplementary examination/next ESE without charge of any examination fee be provided.
- Non-payment of full semester fee or hostel charges or bus/transport charges or due if any kind: In case of non-payment of semester fee or hostel charges or bus/transport charges or dues, if any by a candidate but who has fulfilled the attendance condition is permitted to appear in the final examination (ESE) but his /her result shall not be declared and will be kept withheld and his/her portal shall be blocked till the time he/she clears his/her dues and will not be eligible for promotion to next semester. Once the pending dues are cleared the result shall be declared and portal be re-opened

13. Examination Policy/Scheme

The Examinations/Assessment will be as under:

- 1. **Mid Semester Examination**: Weightage 25% (Question Paper of 25 marks of 1½ hours duration). More than one paper in a day may be held.
- 2. Written Quiz (Objective Type MCQs) and Assignment and Project Work/Seminar (evidence based): Weightage 20% and will be completed at departmental level at least fifteen days before the start of End Semester Examinations/Practical.

Note: After the completion of every lecture/module the teacher is required to take a quiz based on the module taught to get an idea of the understanding/learning of the student.

- 3. End Semester Examination: Weightage 50% (Question Paper of 50 marks of 3 hours' duration) (Appearance compulsory)
- 4. Attendance: 5%

Total weightage of the course: 100%

Pattern of Question Paper:

 Mid Semester Examination: One MSE per course shall be conducted in the middle of a semester having 50% of syllabus. This MSE shall be subjective type examination of 1½ hours duration with a maximum of 25 marks. The composition of MSE shall be as follows:

Section	Max	No. of	Type of question	Total
	Marks per	questions		Marks
	question			(25)

		to be attempted		
A	1	5	Very Short Answer Type: Each Question to be answered with in 5-8 lines. (indicative)	5
В	4	3	Short Answer Type (3 questions out of 5 questions to be attempted). Each question to be answered in maximum 2 pages (indicative)	12
C	8	1	Long Answer Type (One question out of 2 questions to be attempted). Each question to be answered in maximum 4 pages (Indicative)	8

- 2. Written Quiz (Objective type questions i.e. MCQs) and Assignment/Project Work/Seminar: This has to be conducted at Departmental Level by informing the schedule date to the students well in advance. The department is free to have its own pattern and to be conducted after the conduct of the Mid Semester Examinations and at least one week before the schedule of the End Semester Examinations/End Term Practical.
- Sufficient care should be taken to set the questions out of higher order thinking skills (HOTS) for assignments and out of three assignments given to the students, one must be an open ended assignment.
 - (a) Written Quiz (Objective Type MCQs): 10 Marks
 - (b) Assignment and Project Work/Seminar (evidence based): 10 Marks
- 3. **End Semester Examination**: One ESE per course will be conducted in the end of a semester. This ESE shall be subjective type examination of 3 hours' duration with a maximum of 50 marks. The composition of ESE shall be as follows:

Section	Max	No. of	Type of question	Total
	Marks	questions		Marks
	per	to be		(50)
	question	attempted		
	-	•		

A	1	10	Very Short Answer Type. Each Question to be answered with in 5-8 lines. (indicative)	10
В	4	6	Short Answer Type (6 Questions out of 10 questions to be attempted). Each Question to be answered in maximum 2 pages) (indicative)	24
С	8	2	Long Answer Type (2 Questions to be attempted out of 4 questions). Each question to be answered in maximum 4 pages. (indicative)	16

4. Attendance: 5 marks

75%	0 marks
More than 75% and less than 80%	1 marks
80% and less than 85%	2 marks
85% and less than 90%	3 marks
90% and less than 95%	4 marks
95% and above	5 marks

Note: The weightage in the End Semester Examination paper be given as under to cover whole of the syllabi of the course:

- i. 25% of the ESE paper be set from the first half of the syllabi covered in the Mid Semester Examination.
- ii. 75% of the ESE paper be set from the rest of the half of the syllabi taught after mid semester examination.
 - 5. To qualify for the grant of credits for a particular course, a candidate must get at least 40% pass marks. In case a course contains both theory and practical in a single course code, a candidate must get at least 40% pass marks in theory and practical together.
 - 6. In case course code of theory and practical are different then the candidate has to pass separately in both practical and theory.

- 7. Candidates' appearance in End Term Examination is compulsory and should score at least pass marks separately in each paper other than the marks obtained in other components of assessment.
- 8. If a student fails in a particular course by not getting minimum of 40% marks, he/she will be awarded 'R' grade in that course. In such case, a student will be allowed to re-appear as under:
- i. Reappear examination will be conducted only for those students who are unable to attain minimum passing grade 'P', i.e. 40%
- ii. The Reappear Practical Examination will be conducted only for ESE for those students who are unable to attain minimum passing grade, i.e. 40% till his/her last attempt of re-appear examination.
- iii. Number of attempts other than the regular one will be given to a student to qualify the course in which he/she is having reappear grade within time limit to qualify the degree i.e. +2 years.
- In each of the attempts, a student would be allowed to appear in re-appear examination by paying a fee of Rs. 2000/- per course or as per the University fee decided from time to time.
- v. Re-appear examination shall be conducted in every semester in the month of September/October and March/April for candidates who are unable to get grade required to pass. The Re-appear examination shall have the same template as that of ESE and the weightage shall be 100%.
- vi. If a student gets re-appear in a course which contains theory as well as practical, then he/she has to re-appear in theory examination only and marks/weightage of practical examination shall be carried forwarded till he/she passes the course will be kept as it is.
- vii. Maximum Duration: The maximum duration allowed to complete a course will be 2 additional years across the Programmes irrespective of the normal duration of the programme.

The student who fails to qualify the Programme within the maximum duration allowed. The Governing Body shall be authorized to review individual hardship cases where a student fails to clear all chances available and permit to him/her a golden chance.

- viii. Chances for Improvement in Marks (Scores) The students shall also be provided along with the re-appear examination, chance for improvement in their earlier marks (scores). This would be available for all the courses. A student will have to pay an improvement fee of Rs. 4000/- per course per chance or as per the University fee decided from time to time. This chance however will be offered along with reappear examination when that particular course is being offered. In case a student opting for improvement examination scores less marks than the previous, his/her original result will stand.
- 9. The University has adopted 10-point scale grading system of evaluation as recommended by UGC as per details below:

Class Interval (Percentage)	Letter Grade	Grade Point
> 90 - < =100	O (Outstanding)	10
> 80- < =90	A+ (Excellent)	9
>70-<=80	A (Very Good)	8
>60-<=70	B+ (Good)	7
>50-<=60	B (Above Average)	6
>40-<=50	C (Average)	5
40	P (Pass)	4
Below 40	R (Re-appear)	0

Formula for Equivalent Percentage = 10 x CGPA

In addition, the following grading systems would be adopted as per the contingency:

Description	Letter Grade	Grade Point
Detained	F	0
Absent	Ab	0
Incomplete	Ι	0
JMC/Fee Default/Indiscipline	RL	0
Issue/Any other reason		
Satisfactory*	S	0
Unsatisfactory*	U	0

*Satisfactory grade and unsatisfactory grade will be given in the courses which have no grade point and are qualifying in nature to complete the programme as per the requirements of the statutory bodies such as ICAR, AICTE, etc.

- 10. To take cognizance of Unfair Means of Conduct (UMC) cases reported during various examinations, UMC Committee constituted will decide the matter to deal with such cases, the decision of the Committee shall be final.
- 11. To maintain transparency in the evaluation system, every student shall be given a chance to scrutinize his/her answer sheet free of cost within the notified period after the conduct of examination and declaration of result by the concerned teacher.
- 12. In case candidate fails to turn up for scrutiny on time it will be presumed that he/she has no objection and will lose chance to scrutinize the paper in future.
- 13. Controller of Examination will send a sample of question papers and a sample of evaluated answer sheets to external experts to maintain the quality in Examination process with prior permission of Dean Academics and Vice-Chancellor.
- 14. The medium of instructions for teaching and examination is English.

14. Earning Credits through Massive Online Open Courses (MOOC'S)

- Students can avail a facility of earning up to a maximum of 40% credits of their degree requirements through MOOC's.
- MOOC's eligible for this purpose are the courses offered by NPTEL/SWAYAM courses only

• MOOC's can be taken in respective area only in lieu of Elective courses, such as HSS Electives, Science Electives, Open electives, Departmental Electives. No core, lab or project courses can be

dropped in lieu of MOOC's.

- A student desirous of opting for a MOOC's shall submit an application not later than one week prior to the scheduled normal date of semester registration to the concerned HoD/ Dean Faculty) giving the following details:
- a) Course Title, Agency offering MOOC, Examination System and Credits of the Course.
- b) Timing and duration of the course and its examination centres.
- c) Centres for conducting of examination, facilities at the centre of the examination.
- d) The course to be dropped in lieu of the MOOC, transcript and electives opted in current semester.
- e) Fee and other charges, if any, payable to MOOC providing and certification agency shall be borne by concerned student at his/her level.
- f) The student shall submit to the COE the original certificate issued by MOOC authorities along with a photocopy of the same. The original will be returned after verification and verification shall be certified by the COE on the photocopy which shall be kept in records.
- g) An equivalent Grade corresponding to grade/marks awarded by MOOC agency shall be determined by a committee consisting of Dean (Faculty) and an HoD. This equivalent Grade shall be shown in the transcript and accounted in the SGPA and CGPA calculations.

15. Mentor-Mentee System

At the start of the session, a student group consisting of 20-30 students is allotted to a faculty mentor of the respective department. Mentors then serve as thought partners for students in their academic journey and help to become autonomous learners and agents of their change. They express understanding of student's aspirations, and fears & support their success by acting as an advocate for their best interests. Mentors interact with students on a regular basis (at least one lecture per week) to assess their academics and discuss their difficulties. Students are also counseled by their respective mentors individually to know the reasons for poor performance in Internal Assessment Tests.

16. Feedback of the Faculty by the students

The Student feedback of the Faculty is scheduled twice a semester (online). The students can submit their feedback through an online link shared by the department of academic affairs. Feedback from the students to strengthen the quality of teaching-learning environment and

to look for opportunities to improve teacher's performance in classroom engagement to bring excellence in teaching and learning.

17. Teaching Learning Pedagogies

- Activity-based learning: Various indoor and outdoor activities are designed, developed, and implemented in all the departments to ensure that students become more aware of design and team processes. Various activities like Mind Mapping, Concept Map, Ball of Knowledge, etc. are conducted in the class during each semester.
- **Problem Solving Learning**: Open assignments, tutorials, crosswords, puzzles, and quizzes as per the Bloom Taxonomy levels are given to the students to enhance their learning.
- **Project-based learning:** Most of the UG and PG courses have projects/dissertation as the subject of their curriculum. The students are encouraged to work on projects using the latest technologies. Students are encouraged to take capstone projects with industry participation.

Department of Commerce Business Management and Economics

Vision

- To ardently seek, consider and implement latest nuances, developments and innovations in Commerce, Business Management & Economics in order to ensure that students develop a holistic acumen for making strategic and judicious business decisions.
- To harness and transform natural, human and managerial resources to ensure sustainable development, so that they enhance, enrich and bequest human life with imagination, skills and vision. Thereby, they become instrumental in the integral development of society and mankind.

Mission

- To facilitate our stakeholders to have a broad, encompassing access to commerce, business management and economics knowledge & education and to assist individuals unravel deeper dimensions of learning & experimentation.
- To enable commerce, business management and economics students become imaginative, integrated beings who constructively and creatively contribute to environment and society and who play a vital role in the advancement of learning and understanding.

Introduction of the Programme

The B.Sc. (Economics) Honours programme has been designed to provide a cutting-edge expertise in mainstream economics with minor (Econometrics). The programme aims to develop analytical, creative and critical thinking skills for problem solving and decision making. It aims at better understanding of social, economic and political issues and also explores the full spectrum of finance. The transferable skills attained through the B.Sc. (Economics) Honours are highly sought after by employers and increase the employability quotient of students in various dynamic fields. A student could be an economist, a government advisor, financial consultant, econometrician, banker and also look forward to different government positions after successful completion of the programme. Keeping in view the new NEP, the programme is multidisciplinary in nature and integrates different fields like Finance, Mathematics, Statistics, Operations Research, industrial sector, agriculture sector, Environmental Studies, Model Building with an inbuilt local as well as global perspective. New elements such as internship, case studies, seminars and research projects enhance deeper understanding of the practical applications of the programme. So, join in to embark on a whole new adventure with us. The Bachelor's degree Honours programme in Economics is a full-time undergraduate programme of 4 years that aims at providing a programme structure which would retain the 'traditional' in the programme and equip the students with business acumen necessary to succeed in the professional world. On completion of B.Sc. (Economics) Honours at DAV University, students will acquire comprehensive knowledge of how the economic principles are applied in the society, family, government and private sector, business, and science.

Program Educational Objectives (PEOs) PROGRAMME EDUCATIONAL OBJECTIVES (PEOs)

PEO1: To equip the students with comprehensive understanding of the concepts and theories of economics.

PEO2: To develop analytical and problem-solving skills in order to understand the dynamics of business and society at local and regional level.

PEO3: To develop research orientation among students to pursue their higher education and career in the field of economics.

Program Outcomes (POs)

PROGRAMME OUTCOMES (POs)

PO1: Critical Thinking: Take informed actions after identifying the assumptions that frame our thinking and actions, checking out the degree to which these assumptions are accurate and valid, and looking at our ideas and decisions (intellectual, organisational, and personal) from different perspectives.

PO2: Effective Communication: Speak, read, write, and listen clearly in person and through electronic media in English and one Indian language, and make meaning of the world by connecting people, ideas, books, media, and technology.

PO3: Social Interaction: Elicit the views of others, mediate disagreements, and help reach conclusions in group settings.

PO4: Effective Citizenship: Demonstrate empathetic social concern, equity-centred national development, and the ability to act with an informed awareness of issues and participate in civic life through volunteering.

PO5: Ethics: Recognise different value systems, including your own, understand the moral dimensions of your decisions, and accept responsibility for them.

PO6: Environment and Sustainability: Understand the issues of environmental contexts and sustainable development.

PO7: Self-directed and Life-long Learning: Acquire the ability to engage in independent and life-long learning in the broadest context of socio-technological changes.

PROGRAMME SPECIFIC OUTCOMES (PSOs)

PSO1: To enable the students for the application of economic principles for the understanding of real time regional and national issues.

PSO2: Empowering the students to identify the key macro-economic indicators and measures of economic change, growth, and development.

	PEO 1	PEO 2	PEO 3
PEOs			
Pos			
P01	Yes	Yes	Yes
PO2		Yes	Yes
PO3	Yes	Yes	
PO4			Yes
PO5	Yes		Yes
PO6	Yes		
PO7	Yes	Yes	Yes

Mapping of PEO with POs

Mapping of PEO with PSO

	PEO 1	PEO 2	PEO 3
PEOs			
PSOs			
~			
PSO1	Yes	Yes	
PSO2	Yes	Yes	Yes
PSO3	Yes		Yes

	Course-type Wise Details of Credits						
S.No.	Broad Category of Course	3-Yr B.Sc Economics (Credits)	4-Yr B.Sc Economics (Credits) Honours	4-Yr B.Sc Economics (Credits) Honours with Research			
1	Core Courses	61	85	83			
2	Minor Courses	24	40	32			
3	Multidisciplinary Courses	9	9	9			
4	Ability Enhancement Course (AEC)	8	8	8			
5	Skill Enhancement Courses (SEC)	10	10	10			
6	Value Added Courses	6	6	6			
7	Summer Internship	2	2	2			
8	Research Project/Dissertation	-		12			
	Total Credits	120	160	162			

	S	Semester &	course W	ise Detai	ls of Cro	edits				
S.No.	SEMESTER	DSC	MC	MDC	AEC -C	SEC- C	VAC -C	SE C- SI	SE C- RP	Total
1	Ι	4x2=8	-	3x1=3	2	2x2=4	3	-	-	20
2	II	5x1=5 4x1=4	-	3	2	3	3	-	-	20
3	III	4x2=8	4x1=4	3	2	3	-	-	-	20
4	IV	4x3=12	4x2=8	-	-	-	-	-	-	20
5	V	4x2=8	4x2=8	-	2	-	-	2	-	20
6	VI	4x4=16	4x1=4	-	-	-	-	-	-	20
7	VII (Hons)	4x3=12	4x2=8	-	-	-	-	-		20
8	VIII (Hons)	4x3=12	4x2=8	-	-	-	-	-		20
7	VII (Hons with Research)	4x3=12 2x1=2	4x1=4	-	-	-	-	-	3	21
8	VIII (Hons with Research)	4x2=8	4x1=4	-	-	-	-	-	9	21

KEY:

DSC = Discipline specific Course	MDC= Multi-Disciplinary Course	AEC-C = Ability Enhancement	MC = Minor Course
VAC - C = Value Added Course	SEC-C =Skill	SEC- SI = Summer	SEC- RP=
	Enhancement Course	Internship	Research Project

Semester 1

S.No	Paper Code	Course Title	L	Т	Р	Cr	Course Type
1	ECN103	Microeconomics-1	4	0	0	4	DSC
2	ECN104	Macroeconomics-1	4	0	0	4	DSC
3		Multi-disciplinary Elective	-	-	-	3	MDC
4		Workshop on Excel for Economists	0	0	4	2	SEC-C
5		Skill Enhancement-Elective	-	-	-	2	SEC-C
6		Value Added Courses	-	-	-	2	VAC-C
7		Ability Enhancement Elective	-	-	-	2	AEC-C
						19	

Note:

- 1. Student is required to opt for skill enhancement course of two credits from the relative basket.
- 2. Student is required to opt for Multi-Disciplinary Course of three credits from the relative basket.

		Semester 2	2				
S.No	Paper Code	Course Title	L	Т	Р	Cr	Course Type
1	ECN105	Microeconomics-II	4	0	0	4	DSC
2	ECN106	Macroeconomics-II	4	1	0	5	DSC
3		Multi-Disciplinary Elective	-	-	-	3	MDC
4		Ability Enhancement Elective	-	-	-	2	AEC-C
5		Skill Enhancement-Elective	-	-	-	3	SEC-C
6		Value added course	-	-	-	2	VAC-C
7		Value added course	-	-	-	2	VAC-C
						21	

Note:

Student is required to opt for skill enhancement course of two credits other than opted in previous semester/s from the relative basket.

Student is required to opt Multi-Disciplinary Course of three credits other than opted in previous semester/s from the relative basket

Batch 2024

First Exit:

The student will be awarded "Undergraduate Certification in Economics" after exit at this point, provided they secure 4 credits in skill/work based vocational courses or internship/apprenticeship for 4-6 weeks (with minimum 120 hours) during summer term.

S.No	Paper Code	Course Title	L	Т	Р	Cr	Course Type
1	ECN201	Microeconomics-III	4	0	0	4	DSC
2	ECN202	Macroeconomics-III	4	0	0	4	DSC
3	ECN203	Statistics-I	4	0	0	4	MC
4		Multi-Disciplinary Elective	-	-	-	3	MDC
5		Ability Enhancement- Elective	-	-	-	2	AEC-C
6		Skill Enhancement-Elective	-	-	-	3	SEC-C
						20	

Semester 3

Note:

- 1. Student is required to opt for skill enhancement course of two credits other than opted in previous semester/s from the relative basket.
- 2. Student is required to opt for ability enhancement course of two credits other than opted in previous semester/s from the relative basket
- 3. Student is required to opt Multi-Disciplinary Course of three credits other than opted in previous semester/s from the relative basket

S.No	Paper Code	Course Title		Т	Р	Cr	Course Type
1	ECN204	Development Economics	4	0	0	4	DSC
2	ECN205	Regional Economics with special reference to Punjab Economy	4	0	0	4	DSC
3	ECN206	Money and Banking	4	0	0	4	DSC
4	ECN207	Statistics-II	4	0	0	4	MC
5	ECN208	Mathematics for Economists-1		0	0	4	MC
						20	

Semester 4

Note:

1. Student is required to opt for ability enhancement course of two credits other than opted in previous semester/s from the relative basket

2. Continuing students will undergo an internship in approved organizations for minimum 6 weeks during the summer vacations. They will be required to present summer internship project report during the fifth semester.

Second Exit:

The student will be awarded "Undergraduate Diploma in Economics" after exit at this point, provided they secure 4 credits in skill/work based vocational courses or

internship/apprenticeship for 4-6 weeks (with minimum 120 hours) offered during first year summer term or second year summer term.

S.No	Paper Code	Course Title	L	Т	Р	Cr	Course Type						
1	ECN301	Agricultural Economics	4	0	0	4	DSC						
2	ECN302	Indian Economy	4	0	0	4	DSC						
3	ECN303	Seminar on Summer Internship	0	0	0	2	SEC-SI						
4	ECN304	Statistics- III	4	0	0	4	МС						
5	ECN305	Mathematics for Economists-II	4	0	0	4	МС						
		Ability Enhancement-Elective	-	-	-	2	AEC-C						
						20							

Semester	5
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Semester 6

S.No	Paper Code	Course Title	L	Т	Р	Cr	Course Type
1	ECN306	Public Finance	4	0	0	4	DSC
2	ECN307	International Economics	4	0	0	4	DSC
3	ECN308	Economics of Health and	4	0	0	4	DSC
		Education					
4	ECN309	Environmental Economics	4	0	0	4	DSC
5	ECN310	Mathematics For	4	0	0	4	MC
	Economists-III						
						20	

Note

The student will be awarded "Bachelor's Degree in B.Sc. Economics" after completion.

S. No	Paper Code	Course Title	L	Т	Р	Cr	Course Type
1	ECN401	Industrial Economics	4	0	0	4	DSC
2	ECN402	Labor economics	4	0	0	4	DSC
3	ECN403	Research Methodology	4	0	0	4	DSC
4	ECN404	Research Ethics	2	0	0	2	DSC
5	ECN451	Research Project-1 (Synopsis)	0	0	0	3	SEC-RP
6	ECN452	Basic Econometrics	4	0	0	4	MC
						21	

Semester 7 (With Research)

Semester 8

S.No	Paper Code	Course Title	L	Т	Р	Cr	Course Type
1	ECN405	Global Political Economy	4	0	0	4	DSC
2	ECN406	Advanced Global Trade Challenges and Opportunities	4	0	0	4	DSC
3	ECN453	Research Project-II (Submission)	0	0	0	9	SEC-RP
4	ECN454	Advanced Econometrics	4	0	0	4	МС
						21	

Note:

1. Student is required to opt for value added course of two credits other than opted in previous semester/s from the relative basket.

The student will be awarded "Bachelor's Degree (Honours with Research) in Economics" after completion.

S.No	Paper Code	Course Title	L	Т	Р	Cr	Course Type
1	ECN401	Industrial Economics	4	0	0	4	DSC
2	ECN402	Labor economics	4	0	0	4	DSC
3	ECN407	History of Economic Thought	4	0	0	4	DSC
4	ECN452	Basic Econometrics	4	0	0	4	MC
5	ECN455	Operations Research	2	0	4	4	MC
						20	

Semester 7 (without Research)

Semester 8

S.No	Paper Code	Course Title	L	Т	Р	Cr	Course Type
1	ECN405	Global Political Economy	4	0	0	4	DSC
2	ECN406	Advanced Global Trade	4	0	0	4	DSC
		Challenges and Opportunities					
3	ECN408	Financial Economics	4	0	0	4	DSC
4	ECN454	Advanced Econometrics	4	0	0	4	MC
5	ECN456	Data Analysis	2	0	4	4	MC
						20	

Note:

The student will be awarded "Bachelor's Degree (Honours) in Economics" after completion.

Course	Ability-	Cr.	Course	Skill-	Cr.	Course	Value-	Cr.
Code	Enhancement		Code	Enhancement		Code	Added	
	Courses			Courses			Courses	
MGN90	Personality	1L+1P	MGN90	Essentials of	2L+1P		Environment	2L+2
1A	Enhancement		1 S	Entrepreneurship-			al Studies	Р
				Thinking and			(Mandatory)	
				Action				
MGN90	Personality	2P		Design Thinking	2P		Human	2L+2
2A	Development						Values and	Т
							Ethics	
							(Mandatory)	
	Behavioural&	1L+1P		Design Thinking &	2L		Gender	2L
	Life Skills			Innovation			Sensitization	

	Global Citizenship in Higher Education	2L	Data Analytics	2L+1P	Professional Ethics	2L
	Communication Skills (Mandatory)	1L+1P	Cyber Security	3 (2L+1 P)	Sustainable Development	2L
	Health & Yoga	1L+1P	Digital Fluency	1L+1P	Green Technologies	2L
	Technical Report Writing	2L	Fundamentals of Computer programming & IT(FCPIT)	2L	General Studies	2L
MGN90 3A	Leadership Management	2L	Python Programming	3 (2L+1 P)	NSS	2 (1L+1 P)
	Therapeutic Yoga	1L+1P	Disaster Preparedness and Planning	2L		
	Creative & Critical Thinking	1L+1P	Intellectual Property Rights	2L		
	Community Engagement & Social Responsibility (Mandatory)	1L+1P	Apiculture	2P		
			NCC*	3 (2L+1 P)		

Multidisciplinary Studies

Course	Course Name	Faculty/Department
Code		
	Basics of Physics	Physics
	Basics of Chemistry	Chemistry
	Basics of Biology	Zoology & Botany
	Introductory Biotechnology	Biotechnology
	Introductory Microbiology	Microbiology
	Functioning of the Human Body	Zoology
	Introductory Botany	Botany
MGN901M	Business Management for Beginners	CBME
MGN902M	Fundamental of Mutual Funds	CBME
ECN901M	Economics for Beginners	CBME
	Professional Communication	English
	Fine Arts	Arts, Fine Arts & Performing Arts
	Jyotish: 'Eye of the Veda'	Vedic Studies
	Mathematical Statistics	Mathematics
	Introductory Journalism	JMC
	Professional Photography	JMC
	Library Information Sciences	Library Sciences



L	Т	Р	Credits
4	0	0	4

Course Code	ECN103							
Course Title	Microe	conomics – I						
Course Outcomes	CO1: ⁷ perspe CO2: ⁷ and de CO3: ⁷ CO4:	CO1: The course introduces the students to the first course in economics from the perspective of individual decision making as consumers and producers. CO2: The students learn some basic principles of microeconomics, interactions of supply and demand, and characteristics of perfect and imperfect markets. CO3: The student will learn about production function and producer equilibrium. CO4: students will understand the fundamentals of cost and revenue concepts.						
Examination Mode	Theory	Theory						
	Contin	uous Assessmen	nt		MSE	MSP	ESE	ESP
Assessment Tools	Quiz	Assignment	ABL/PBL	Lab Performance				
Weightage	10	10	5	-	25	-	50	-
Syllabus			1		1	J	I	CO Mapping
Unit 1								
•	Introduction to Economics: Meaning, Definition, Scope, Importance and Basic problems of an economy.CO1							
•	Demand and Supply functions, Market Equilibrium, Shift in market CO1 equilibrium due to change in demand and supply.							
•	Elasticity of demand: Methods of calculating price, income, and cross elasticities; Degrees and their interpretation, relationship among various types of elasticities.CO1							
•	Elasticity of Supply: Meaning and Method of calculating elasticity of Supply. Degrees and their interpretation.CO1						COI	
Unit 2								
•	Consur and La	ner Choice: Car w of Equi Marg	dinal theory: inal utility.	Law of Diminish	ing Mar	ginal Ut	ility	CO2

•	Ordinal theory: Budget sets, Indifference curves: Meaning and properties, marginal rate of substitution.	CO2
•	Consumer equilibrium; effects of change in prices and income; Income and substitution effects: Hicksian approach.	CO2
Unit 3		
•	Theory of production: Production function, isoquants, properties of isoquants, iso-cost lines, optimum input combination.	CO3
•	Producer's Equilibrium, Expansion Path, Principle of marginal rate of technical substitution.	CO3
•	Law of variable proportions and Law of returns to scale.	CO3
Unit 4		
•	Theory of Cost: concept of economic cost; Short run and long run cost curves; increasing and decreasing cost industries; envelope curve.	CO4
•	Traditional cost theory v/s Modern cost theory	CO4
•	Revenue analysis: concept of total revenue, marginal revenue and average revenue & their relationships	CO4
Text Books	 Bernheim, B. D., M. Whinston and A. Sen. <i>Microeconomics</i>. Tata McGraw-Hill Education. Koutsoyiannis, A. <i>Modern Microeconomics</i>. Palgrave Macmilian, Second Edition, 2003 Lipsey, G. and K.A. Chrysal. <i>Economics</i>. Oxford University Press. 2004. Mankiw, N.Gregory. <i>Principles of Economics</i>. Worth Publishers. 2007. Seventh Edition. Salvatore, D. <i>Microeconomics: Theory and Applications</i>. Oxford University Press. 2008 Samuelson, P.A. and W. D. Nordhaus. <i>Economics</i>. Tata McGraw Hill. 2005 	



L	Т	Р	Credits
4	0	0	4

Course Code	ECN104							
Course Title	Macroe	Macroeconomics – I						
Course Outcomes	CO1: 7 CO2: 7 CO3: 7 CO4: 7	CO1: To understand the concept of national income and different methods of measuring it.CO2: To summarize the contributions made by the classical economists in macroeconomics.CO3: To summarize the contributions made by the Keynesian economists in macroeconomics.CO4: To understand the concept of money and the factors contributing demand for money						
Examination Mode	Theory							
	Contin	uous Assessmer	nt		MSE	MSP	ESE	ESP
Assessment Tools	Quiz	Assignment	ABL/PBL	Lab Performance				
Weightage	10	10	5	-	25	-	50	-
Syllabus	CO Mapping							CO Mapping
Unit 1	Introduction to Macroeconomics							
•	Meani limitati	Meaning, Nature and scope, importance, Micro vs. Macroeconomics, and its CO1 limitations.						
•	Variables: Real and nominal; Induced and autonomous; Lagged and un- lagged; ex-ante andex- post; CO1						CO1	
•	Model and Equations; Equality & identity; stock and flow; Static, Equilibrium CO1 and Disequilibrium. CO1						CO1	
Unit 2	Nation	al Income						
•	Definition: Economic and Non- Economic Production: Productive Vs Non- productive,intermediate, and final output;							CO2
•	Concepts of national income. Measurement of National Income: National income: Concepts, components and methods of measurement; Income, Output and Expenditure methods,Difficulties in national income measurement. Nominal and Real GNP.CO2							CO2
•	Circula	ar flow of incom	e in two, thre	ee and four sector	s' econo	mies;		CO2

Unit 3		
•	National Accounts: Meaning, objectives and importance. Different methods of preparing national income accounts; Social Income Accounts, Fund Flow Accounting, Balance of Payment method and Input Outputmethod.	CO3
•	GNP and Welfare; Inter temporal and international comparisons of National income.	CO3
Unit 4	Determination of Income and Employment:	
•	Classical View: Labour Market; Product Market and MoneyMarket.	CO4
•	Say's Law of Markets (Barter and a monetized economy).	CO4
•	Classical theory of income, output and incomedetermination.	CO4
Text Books	 Beckerman, W. An introduction to National Income Analysis, London, E.L.B.S. 1976. Studenski, Paul, A. The Income of Nations part 2, Theory and Methodology, New York UniversityPress, 1958. Ackley, G. Macro Economics: Theory and Policy. Macmillan publishers. 1978. Branson, William H. Macro-Economic Theory and Policy. Indian edition. Dornbush, R., S. Fisher and R. Startz. Macro Economics. Tata Mc. Graw Hill. 2004. Rana, K.C. and K.N. Verma. Macro-Economic Analysis. Vishal Publishing Co. 2014. Shapiro, Edward. Macroeconomic Analysis. Galgotia Publications. 1999. Indian edition. 	

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L	Т	Р	Credits
0	0	4	2

Course Code								
Course Title	Worksl	Workshop on Excel for Economists						
Course Outcomes	CO1. U CO2. 0 CO3. A CO4. U	 CO1. Understand the structure of Excel functions CO2. Create, sort, and filter lists. CO3. Apply conditional functions CO4. Use Excel's Look Up functions 						
Examination Mode	Practical							
	Contin	uous Assessmen	nt		MSE	MSP	ESE	ESP
Assessment Tools	Quiz	Assignment	ABL/PBL	Lab Performance	-			
Weightage	-	-	-	20	-	30	-	50
Syllabus		L	1	1				CO Mapping
Unit 1	Introd	uction to Excel						
•	Launch Excel and navigate the worksheet. Enter and edit data in a worksheet. Build worksheets.							CO1
•	Structure of an excel function							CO1
•	Functions such as SUM (), MIN (), MAX (), AVERAGE (), COUNT (), AUTOSUM, AUTOFILL.							CO1
Unit 2	Working with an Excel List							
•	Understanding Excel List Structure, sorting a List Using Single Level Sort, sorting a List Using Multi-Level Sorts, Using Custom Sorts in an Excel List.CO2							CO2
•	Filter an Excel List Using the AutoFilter, Creating Subtotals in a List							CO2
•	Format a List as a Table, Using Conditional Formatting to Find Duplicates, Removing Duplicates.							CO2
Unit 3	Condit	tional Function	s and Worki	ing with Large E	Excel Dat	ta Sets		
•	Conditional Functions: Working with Excel Name Ranges, Using Excel's IF () Function, Nesting Functions, Using Excel's COUNTIF () Function, Using Excel's SUMIF () Function, Using Excel's IFERROR () Function.						CO3	
•	Workir	ng with Large Se	ets of Excel I	Data: Using the Fi	reeze Par	nes Tool	,	CO3

	Grouping Data (Columns and/or Rows), Consolidating Data from Multiple Worksheets	
Unit 4	Look Up and Text Based Function	
•	Excel's Lookup Functions: Using Excel's VLOOKUP () Function	CO4
•	Using Excel's HLOOKUP () Function	CO4
•	Using Excel's INDEX () and MATCH() Functions	CO4
Text Books	 Etheridge, D. Excel Data Analysis, Indianapolis: Wiley Publishing. Latest Edition Alexander, Kusleika, & Walker Bach; Excel 2019 Bible; Wiley,2018 John Walkenbach; Excel Charts, Wiley,2016 Lokesh Lalwani, BPB publication, 'Excel All-in One: Master the new features of Excel,2019 	



L	Т	Р	Credits
4	0	0	4

Course Code	ECN105								
Course Title	Microe	Microeconomics – II							
Course Outcomes	CO1: To inculcate knowledge of perfect competition and monopoly. CO2: To inculcate knowledge of monopolistic competition. CO3: Students will learn the concepts of oligopoly and price discrimination. CO4: Enable students about the game theories in microeconomics.								
Examination Mode	Examination Theory Mode								
	Contin	uous Assessme	nt		MSE	MSP	ESE	ESP	
Assessment Tools	Quiz	Assignment	ABL/PB L	Lab Performance	-				
Weightage	10	10	5	-	25	-	50	-	
Syllabus		CO Mapping							
Unit 1								CO1	
•	Perfect competition: its features, price determination, equilibrium of firm and industry in market period, short run and long run; Shut down point, short period and long period supply curves. CO1								
•	Monop and lor	ooly: Meaning, . ng run, monopo	Assumptions lypower, sup	s, equilibrium of p pply curve.	the mono	polist i	n short	CO1	
•	Price d discrin	liscrimination: r ninating monop	neaning, deg oly, monopo	grees, conditions ly control and re	and equi gulation.	librium	in	CO1	
Unit 2								CO2	
•	Monop and de	Monopolistic competition: meaning, assumptions, product differentiation and demand curve, firm and group equilibrium;							
•	Selling	g costs, excess c	apacity, Dur	nping.				CO2	

•	Price determination under monopsony and bilateral monopoly.	CO2
Unit 3		CO3
•	Oligopoly: meaning, features, causes for the existence of oligopoly, approaches to the determination of price and output under oligopoly	CO3
•	Non-Collusive Oligopoly: Cournot, Bertrand, and Kinked demand curve model.	CO3
•	Collusive Oligopoly: Cartels and price leadership models.	CO3
Unit 4		CO4
•	Game Theory: basic concepts; Prisoner's Dilemma; competitive strategy: dominant strategies and Nash Equilibrium.	CO4
•	Concepts of expected value and uncertainty, markets with asymmetric information-adverse selection, moral hazards, agency problems	CO4
Text Books	 Bernheim, B. D., M. Whinston and A. Sen. <i>Microeconomics</i>. Tata McGraw-Hill Education. Koutsoyiannis, A. <i>Modern Microeconomics</i>. Palgrave Macmilian, Second Edition, 2003. Lipsey, G. and K.A. Chrysal. <i>Economics</i>. Oxford University Press. 2004. Mankiw, N.Gregory. <i>Principles of Economics</i>. Worth Publishers. 2007. Seventh Edition. Salvatore, D. <i>Microeconomics: Theory and Applications</i>. Oxford University Press. 2008 Henderson & Quant <i>Microeconomic Theory, A Mathematical Approach</i>. Samuelson, P.A. and W.D. Nordhaus. <i>Economics</i>. Tata McGraw Hill. 2005. 	



L	Т	Р	Credits
4	1	0	5

Course Code	ECN10	ECN106							
Course Title	Macro	economics – II							
Course Outcomes	CO1: To assimilate the notion of Aggregate demand and Aggregate supply in the Economy CO2: To understand the concept and theories of consumption function and investment CO3: Students will learn the working of multiplier and its effects. CO4: To strengthen the awareness about the basic economic issues like inflation, unemployment and trade cycle.								
Mode	Theory								
	Contin	uous Assessme	nt		MSE	MSP	ESE	ESP	
Assessment Tools	Quiz	QuizAssignmentABL/PBLabLPerformance							
Weightage	10	10	5	-	25	-	50	-	
Syllabus		CO Mapping							
Unit 1				CO1					
•	Basic (Concepts: Full e	ent.	CO1					
•	Aggreg	gate demand an	d aggregate	supply functions.				CO1	
•	Effecti effecti	ve demand: De ve demand, imp	terminants o portance of e	of effective demand.	nd, deter	minatio	n of	CO1	
Unit 2								CO2	
•	Keyne investr	sian Economics nent functions.	: Keynes co	nsumption function	on; savir	ng and		CO2	
•	Psycho	ological law of	consumption	1				CO2	
•	Detern work i thrift.	nination of inco n a two sector,	ame x of	CO2					
Unit 3				CO3					

•	Multiplier: Static and Dynamic analysis. Balanced – budget multiplier. Foreign trade multiplier.	CO3
•	Theories of Consumption: Absolute Income Hypothesis; Relative Income Hypothesis; Permanent Income Hypothesis.	CO3
Unit 4		CO4
•	The Marginal Efficiency of Investment, Relationship between the MEC and MEI, Factor affecting inducement to investment;	CO4
•	Classical theory of investment; Keynesian theory of investment; Acceleratortheory of investment.	CO4
Text Books	 Ackley, G. <i>Macro Economics Theory and Policy</i>. Macmillan publishers. 1978. Branson, William H. <i>Macro-Economic Theory and Policy</i>. Indian edition. Dornbush, R., S. Fisher and R. Startz. <i>Macro Economics</i>. Tata McGraw Hill. 2004. Rana, K.C. and K.N. Verma. <i>Macro-Economic Analysis</i>. Vishal Publishing Co. 2014. Shapiro, Edward. <i>Macroeconomic Analysis</i>. Galgotia Publications. 1999. Indian edition. 	



L	Т	Р	Credits
4	0	0	4

Course Code	ECN201								
Course Title	Microe	Microeconomics – III							
Course Outcomes	 CO1: Students will get knowledge about factor pricing and understand the theories of rent determination. CO2: Students will able to get knowledge about wages, interest, profit and their determination. CO3: Enable students to now about Edgeworth box and Walras Law. CO4: Students will learn welfare economics concepts and importance. 								
Mode	Theory								
	Contin	uous Assessme	nt		MSE	MSP	ESE	ESP	
Assessment Tools	Quiz	Assignment	ABL/PB L	Lab Performance					
Weightage	10	10	5	-	25	-	50	-	
Syllabus		CO Mapping							
Unit 1								CO1	
•	Factor determ	Pricing: Margin ination of facto		CO1					
•	Econor determ	mic Rent: conce	pts (such as lian and Moc	quasi rent etc.) ar lern theory.	nd theori	es of ren	ıt	CO1	
Unit 2								CO2	
•	Wages	and its determi	ination.					CO2	
•	Interes	t: Classical and	Loanable fu	und theory				CO2	
•	Determination of profit and theories of profit.								
Unit 3								CO3	
•	Edgeworth box: 2 good, 2 factor, 2 consumer analysis and Pareto optimality conditions							CO3	

•	Walras Law; Equilibrium and efficiency	CO3
•	Grand Utility possibility frontier.	CO3
Unit 4		CO4
•	Welfare Economics: Concepts, Compensation Principle (Kaldor-Hicks)	CO4
•	Social Welfare Function	CO4
•	Theory of Second best, Arrow' s Impossibility.	CO4
Text Books	 Bernheim, B. D., M. Whinston and A. Sen. <i>Microeconomics</i>. Tata McGraw-Hill Education. Koutsoyiannis, A. <i>Modern Microeconomics</i>. Palgrave Macmilian, Second Edition, 2003 Lipsey, G. and K.A. Chrysal. <i>Economics</i>. Oxford University Press. 2004. Mankiw, N.Gregory. <i>Principles of Economics</i>. Worth Publishers. 2007. Seventh Edition. Salvatore, D. <i>Microeconomics: Theory and Applications</i>. Oxford University Press. 2008 Samuelson, P.A. and W.D. Nordhaus. <i>Economics</i>. Tata McGraw Hill. 2005. 	


L	Т	Р	Credits
4	0	0	4

Course Code	ECN20	ECN202							
Course Title	Macro	Macroeconomics – III							
Course Outcomes	CO1: Develop an understanding about the equilibrium in product and money markets. CO2: Understand different trade cycles theories and inflation theories. CO3: Students will understand the Open Economy models. CO4: Students will learn the importance of monetary and fiscal policy.								
Examination Mode	Theory								
	Contin	uous Assessme	ent		MSE	MSP	ESE	ESP	
Assessment Tools	Quiz	Assignment	ABL/PB L	Lab Performance	-				
Weightage	10	10	5	-	25	-	50	-	
Syllabus				CO Mapping					
Unit 1								CO1	
•	Equilit in IS a	orium in produc nd LM function	et and money s.	markets: IS and I	LM funct	tions, ch	anges	CO1	
•	ISLM	General eqhi m (changes in g	eneral equilibriur	n			CO1	
•	Elastic	ity of IS and Ll	M functions	and monetary and	d fiscal p	olicies.		CO1	
Unit 2								CO2	
•	Trade Kaldor	Cycles: Featur Samuelson, F	es, Keynes' Iicks models	view on trade c s,control of trade	ycle, Sc cycle.	humpet	er,	CO2	
•	Inflatio Keynes inflatio	on: Causes, con sian, Modern th on)	sequences an neory of Inf	nd cures, theories lation (demand P	of inflat Pull and	ion: Cla Cost pu	assical, Ish	CO2	
•	Inflatio	on – unemploy	ment trade of	off.Natural rate of	f unempl	oyment	•	CO2	

Unit 3		CO3
•	Open Economy models: Short run open economy model, nominal exchange rate and real exchange rate	CO3
•	Mundell-Fleming model and exchange rate determination, purchasing power parity.	CO3
Unit 4		CO4
•	Monetary Policy: Instruments, objectives and effectiveness in recession and boom.	CO4
•	Fiscal Policy: Instruments and full employment; budget surplus; problems of stabilization policy.	CO4
•	Recent Developments in Macro Economics	CO4
Text Books	 Ackley, G. <i>Macro Economics Theory and Policy</i>. Macmillan publishers. 1978. Branson, William H. <i>Macro-Economic Theory and Policy</i>. Indian edition. Dornbush, R., S. Fisher and R. Startz. <i>Macro Economics</i>. Tata McGraw Hill. 2004. Rana, K.C. and K.N. Verma. <i>Macro-Economic Analysis</i>. Vishal Publishing Co. 2014. Shapiro, Edward. <i>Macroeconomic Analysis</i>. Galgotia Publications. 1999. Indian edition. 	



L	Т	Р	Credits
4	0	0	4

Course Code	ECN20	ECN203							
Course Title	Statisti	Statistics – I							
Course Outcomes	CO1: To study the tabular and graphical presentation of the data CO2: To understand the measures of Central Tendency Dispersion in order to interpret empirical data CO3: To study the index number and its impact on consumer cost of living index. CO4: To understand the concept of correlation and regression analysis.								
Examination Mode	Theory								
	Contin	uous Assessme	nt		MSE	MSP	ESE	ESP	
Assessment Tools	Quiz	Assignment	ABL/PB L	Lab Performance					
Weightage	10	10	5	-	25	-	50	-	
Syllabus		CO Mapping							
Unit 1								CO1	
•	Definit	tion: Scope, Imj	portance and	limitation of stat	istics.			CO1	
•	Classif and tw	ication and Tab o – way freque	oulation of dated and the second s	ata: discrete and c ion.	continuo	us one –	way	CO1	
•	Diagra	mmatic and gra	phic present	ation of Data.				CO1	
Unit 2								CO2	
•	Measu proper	res of Central T ties, merits and	endency; Modemerits.	ean, Median, Mo	de, GM a	and HM	,	CO2	
•	Measure of Dispersion: Absolute and Relative measures of dispersion- CO2 Range, Quartile Deviation, MeanDeviation, Standard Deviation and Variance.							CO2	
Unit 3								CO3	
•	Index I problem	Numbers: Mear ms in constructi	ing scope ar	nd limitation of in numbers.	idex num	ibers,		CO3	

•	Tests of Index numbers (time reversal and factor reversal tests), Weighted price and quantity index numbers using aggregate method: Laspeyre's, Paasche's, Fisher's Formulae, cost of living index numbers.	CO3
•	Tests for the consistency of index numbers. Use the index numbers to various fields.	CO3
Unit 4		CO4
•	Correlation: meaning, Types, importance, Methods to measure – Scatter Diagram, Karl Pearson's productmoment and spearman's rank correlation.	CO4
•	Regression: Meaning, simple regression, least squares principle, properties of correlation and regressioncoefficients.	CO4
Text Books	 Nagar A.L. and R.K. Das. <i>Basic Statistics</i>. Oxford University Press. 1976 Gupta, S.C. <i>Fundamentals of Statistics</i>. Himalaya Publishing House. New Delhi. 2013. Gupta, S.P. <i>Statistical Methods</i>. Sultan Chand and Sons. New Delhi. 2012. Gupta C.B. <i>An Introduction to Statistical Methods</i>. Vikas Publishing House. New Delhi. 2009. Spiegel, M.R. <i>Theory &Problems of Statistics</i>. McGraw Hill. 2009. 	



L	Т	Р	Credits
4	0	0	4

Course Code	ECN20	ECN204						
Course Title	Develo	Development Economics						
Course Outcomes	CO1- To enable students to understand the basic concepts of Economic Growth and Development CO2- To examine the different tools for measuring economic growth and development. CO3- To impart knowledge about theoretical framework of Growth and Development under different Schools of economic thought. CO4- students will understand the concept of capital formation and importance of foreign aid.							
Examination Mode	Theory							
	Contin	uous Assessme	nt		MSE	MSP	ESE	ESP
Assessment Tools	Quiz	Assignment	ABL/PB L	Lab Performance				
Weightage	10	10	5	-	25	-	50	-
Syllabus		L	1		1			CO Mapping
Unit 1								CO1
•	Econor develo	mic Developme pment goals.	ent: Meaning	g and its evolution	n, Sustai	nable		CO1
•	Growth Charac	h vs. Developm eteristics of Dev	ent- signific velopment.	ance, objectives	and core	values		CO1
•	Indicators of Development: GDP as measure of welfare, Social and Economic indicators, Physical QualityLife Index, Human Development Index.							CO1
Unit 2								CO2
•	Strateg Theory	gies of Develop: 7 of Big Push, C	ment: Theor Critical Mini	y of Balanced an mum Effort Thes	d Unbal sis.	anced C	browth,	CO2
•	Model labour	s of Structural (, Nurkse' Mode	Change: Lew I, Fei and Ra	vis model of unlin anis Model.	mited su	pply of		CO2

Unit 3		CO3
•	Dualistic Development: Social and Technological Dualism.	CO3
•	Models of Growth: Classical Model, Marxian Model, Schumpeter's Model, Harrod- Domar Model, Kaldor's Model, Rostow's stages of growth.	CO3
Unit 4		CO4
•	Capital formation: Meaning and Sources; capital –output ratio; Human Capital: Concept and utilization.	CO4
•	Foreign Aid: Forms and sources; Trade vs. Aid; Transfer of technology.	CO4
Text Books	 Chew, S.C. and R. A. Denmark. <i>The Underdevelopment of Development</i>. Sage Publications. New Delhi.1999. Debraj, Ray. <i>Development Economics</i>. Oxford University Press. 1998. Meier, G. M. and J. E. Rauch. <i>Leading Issues in Economic Development</i>. Oxford University Press. 2000. Taneja, M. L. and R. M. Myer. <i>Economics of Development and Planning</i>. Vishal Publications. 2014. Thirlwall, A.P. <i>Growth and Development</i>. Palgrave Macmillan Publishers. 7th edition. Todaro, M. P. and Stephen C. Smith. <i>Economic Development</i>. Pearson Publications. 2011. 	



L	Т	Р	Credits
4	0	0	4

Course Code	ECN20	ECN205							
Course Title	Region	Regional Economics with Special Reference to Punjab Economy							
Course Outcomes	CO1: S CO2: S CO3: T Punjab CO4: S Punjab	 CO1: Students will learn about regional economics concepts, problems and policies. CO2: Students will be able to understand structural changes in Punjab economy. CO3: This will help in understanding agriculture and industrial growth and their importance in Punjab economy. CO4: Students will learn how to solve problem of resource mobilization & fiscal crisis in Punjab. 							
Examination Mode	Theory								
	Contin	uous Assessme	nt		MSE	MSP	ESE	ESP	
Assessment Tools	Quiz	Assignment	ABL/PB L	Lab Performance					
Weightage	10	10	5	-	25	-	50	-	
Syllabus						I		CO Mapping	
Unit 1									
•	Region econor	al Economics: nic problems; I	Concept, Sc Location fact	cope, and framew tors;	ork; Reg	ional		CO1	
•	Differe & their region	Different Approaches to study Regional Economics; Location of placesCO1& their problems; Nature of Regions and relation of activities within a region							
•	Region	al policy & obj	jectives.					CO1	
								CO2	
Unit 2									
•	Structu & proc	ıral Changes in luctivity Green	Punjab Econ Revolution;	nomy: Agricultur role, performanc	ral in Pur ce & imp	njab, Gr lication	owth s;	CO2	
•	Agricu	ltural diversific	cation, ration	ale, constraints,	and pros	pectus;		CO2	
Unit 3								CO3	

•	Industry in Punjab: Industrial development – Pattern, performance,	CO3
	constraints & challenges; Small-scale industry role, problems &	
	prospects;	
•	State & industrial development	CO3
Unit 4		CO4
•	Development of transport and banking in Punjab. Finances of Punjab	CO4
	State; Sources of revenue and heads of expenditure;	
•	Problems of resource mobilization & fiscal crisis in Punjab.	CO4
Text Books	1.Hoover, F.M. : An Introduction to Regional Economics.	
	2.Richardson, H.W.: Regional Economics.	
	3.Johar, R.S.& J.S. Khanna : Studies in Punjab Economy.	
	4.Raikhy, P.S. & S.S. Gill : Resource Mobilization and Economic	
	Development: A Regional Perspective.	
	5.Govt. of Punjab : Statistical Abstracts.	
	6.Bawa R.S. & P.S.Raikhy : Punjab Economy : Emerging Issues	



L	Т	Р	Credits
4	0	0	4

Course Code	ECN206								
Course Title	Money	Money and Banking							
Course Outcomes	CO1. U demand	Understand nature I for money,	e, functions an	nd growth of money	y, Supply	creation	of mon	ey and theories of	
	CO2. the process of credit creation of a commercial bank, the functions of commercial bank. Explain the various functions of central bank, credit policy of India.								
	CO3. Application of traditional and modern theories of international trade, understanding of tariff and non-tariff barriers and their equilibrium analysis.								
	CO4. Apply functions, provisions of international trade system and functions to facilitate the global trade. Students will be able analyze impact of WTO on current global trade in detail								
Examination Mode	Theory								
	Contin	uous Assessme	nt		MSE	MSP	ESE	ESP	
Assessment Tools	Quiz	Assignment	ABL/PB L	Lab Performance					
Weightage	10	10	5	-	25	-	50	-	
Syllabus			I		1	1		CO Mapping	
Unit 1	Money	: Introduction						CO1	
•	Nature	and functions	s of money					CO1	
•	money	and near mo	ney					CO1	
•	Demar	nd for money						CO1	
•	Fisher,	Cambridge, K	eynesian the	eories				CO1	
•	Supply	of money, me	chanics of 1	money supply cr	reation			CO1	
•	measur	res of money su	pply in Indi	a				CO1	
Unit 2	Rate of	f Interest						CO2	
•	Meanin	ng and Classific	ation of Inte	erest				CO2	

•	Determination of interest rate	CO2
•	Factors affecting the level and structure of interest rates	CO2
•	Theories of interest: Classical theory of interest	CO2
•	Keynesian theory of interest	CO2
Unit 3	Commercial Banking	CO3
•	Meaning and types of commercial banks	CO3
•	Credit creation process of commercial banks	CO3
•	Central Banking: Meaning and functions	CO3
•	Techniques of credit control with special reference to India	CO3
Unit 4	Monetary system	CO4
•	Monetary Policy: Targets and indicators	CO4
•	macroeconomic objectives	CO4
•	Monetary policy in less developed countries	CO4
•	Indian Monetary and Credit System	CO4
•	System of note-issue; computation of money supply by the RBI	CO4
•	Problems and working of money and capital markets	CO4
Text Books	Sundram, K.P.M. <i>Money, Banking, Trade and Finance</i> . Sultan Chand & Sons. New Delhi. 2014	



L	Т	Р	Credits
4	0	0	4

Course Code	ECN20	ECN207							
Course Title	Statisti	Statistics – II							
Course Outcomes	CO 1: 5 CO 2: 0 CO 3: 1 CO 4: 1 metho	CO 1: Students study the basics of statistical inference. CO 2: Create and conduct an empirical research project in Economics CO 3: To understand hypothesis testing and research methodology CO 4: To acquire thorough understanding of data analysis, statistical tools and research methodology that facilitate transition to higher research programs like M A/MSc and PhD							
Examination Mode	Theory	Theory							
	Contin	uous Assessme	nt		MSE	MSP	ESE	ESP	
Assessment Tools	Quiz	Assignment	ABL/PB L	Lab Performance					
Weightage	10	10	5	-	25	-	50	-	
Syllabus				L		1		CO Mapping	
Unit 1								CO1	
•	Correla coeffic	ation and Regre	ession Analy ons, application	sis: Partial and m ion and properties	ultiple c s.	orrelatio	on	CO1	
•	Fitting numeri	of multiple reg calexamples.	ression by le	east squares techn	ique stre	ess on		CO1	
Unit 2								CO2	
•	Skewn dispers Skewn of Skew	Skewness, Moments and Kurtosis: Introduction, Difference between dispersion and Skewness Tests of Skewness, Absolute measure of Skewness, Karl Pearson's coefficient of Skewness, Bowley's coefficient of Skewness Kelly's coefficient of Skewness.							
•	Momen Measur	nts about arbitra res of Kurtosis.	ary origin, C	entral Moments, 2	Moment	sabout z	zero.	CO2	
Unit 3								CO3	

•	Time Series Analysis: Meaning, Components: Models, economic significance of time series, methods of estimating trend and seasonal variations.	CO3
•	Growth Curves: Properties, methods of estimation and applications of parabolic, geometric, exponential, modified exponential, Gompertz and logistic growthcurves.	CO3
Unit 4		CO4
•	Probability: Definition (classical and empirical only), laws of probability, conditional probability, and independence of events (applications only)	CO4
•	Concept of random variables, probability density and massfunction, expectation, moments, moment generating function, properties (without proof).	CO4
Text Books	 Nagar A.L. and R.K. Das. <i>Basic Statistics</i>. Oxford University Press. 1976. Gupta, S.C. <i>Fundamentals of Statistics</i>, Himalaya Publishing House. New Delhi. 2013. Gupta, S.P. <i>Statistical Methods</i>. Sultan Chand and Sons. New Delhi. 2012. Gupta C.B. <i>An Introduction to Statistical Methods</i>. Vikas Publishing House. New Delhi. 2009. Spiegel, M.R. <i>Theory &Problems of Statistics</i>. McGraw Hill. 2009. 	



L	Т	Р	Credits
4	0	0	4

Course Code	ECN20	ECN208							
Course Title	Mather	Mathematics for Economists – I							
Course Outcomes	CO1: Students will be well versed with identifying various mathematical functions and their applications at course completion. CO2: Mathematical outcomes will be interpreted well in terms of economics. CO3: Students will get to learn applications of mathematical tools to economy. CO4: A basic understanding of this course is essential for solving problems pertaining to economic theory where mathematics is used as a tool								
Examination Mode	Theory	Theory							
	Contin	uous Assessme	nt		MSE	MSP	ESE	ESP	
Assessment Tools	Quiz	Assignment	ABL/PB L	Lab Performance					
Weightage	10	10	5	-	25	-	50	-	
Syllabus								CO Mapping	
Unit 1								CO1	
•	The straight line, Mathematical modelling, Applications: Demand, Supply, Cost, and Revenue.							CO1	
•	Transla Income	ations of linear e, Budget and c	Functions, e ost constrair	elasticity of dema nts,Excel for line	nd, Supj ar Funct	oly and ions.		CO1	
Unit 2									
•	Simult and bro	aneous equation eak even, Const	ns: Solving s umer andpro	simultaneous equ oducer surplus	ations, I	Equilibri	ium	CO2	
•	Non-linear functions and applications; Quadratic, Cubic and other polynomial functions. Exponential functions.							CO2	
Unit 3									
•	Arithm Arithm	netic Progressio netic mean, A.M	n; Definition 1. between t	n nth term of an A wo numbers, app	A.P, sum lication	of n ter of A.P.	rms, series	CO3	

•	Geometric Progression; Definition, nth terms of G.P. series, sumof n terms, Geometric mean between two numbers, Application of G.P. series	CO3
Unit 4		
•	Financial Mathematics: Simple interest, compound interest and annual percentage rates, depreciation, net present value and internal rate of return	CO4
•	Annuities, debt repayments, Sinking funds, the relationshipbetween interest rate and the prices of bonds.	CO4
Text Books	 Bradley T. Paul Patton. Essential Mathematics for Economics and Business. Wiley Publication. 2014. Chiang, A.C. Fundamental Methods of Mathematics Economics. McGraw Hill. 2005. Kandoi, B. Mathematics for Business and Economics with Applications. Volume-1. Himalaya Publishing House. New Delhi. 2011. Kandoi, B. Mathematics for Business and Economics with Applications. Volume-1I. Himalaya Publishing House. New Delhi. 2011. Kandoi, B. Mathematics for Business and Economics with Applications. Volume-1I. Himalaya Publishing House. New Delhi. 2011. Yamane, T. Mathematics for Economist. Prentice Hall of India. New Delhi. 2001. 	



L	Т	Р	Credits
4	0	0	4

Course Code	ECN30	ECN301							
Course Title	Agricu	Agricultural Economics							
Course Outcomes	CO1: Understand the nature, importance and role of agriculture in Indian economy and reasons for backwardness.								
	CO2: 1 land re	Need, role and i forms done by t	mportance o he governme	f agriculture cred ent.	lit. Vario	ous instit	tutions a	available for credit,	
	CO3:	New agriculture	e technology	and its impact of	n various	s factors	related	with agriculture.	
	CO4: Structure, type and defects of agriculture marketing in India. Agriculture price policy and mobilization of agriculture surplus.								
Examination Mode	Theory								
	Contin	uous Assessmer	nt		MSE	MSP	ESE	ESP	
Assessment Tools	Quiz	Assignment	ABL/PB L	Lab Performance					
Weightage	10	10	5	-	25	-	50	-	
Syllabus								CO Mapping	
Unit 1	Agricu	lture Economics	s in the econo	omy				CO1	
•	Nature	, scope of agricu	ulture and its	importance in ec	onomics	5		CO1	
•	Role of	f agriculturein e	conomic dev	velopment				CO1	
•	Reason	ns for backward	ness of India	n agriculture				CO1	
•	Transf	orming tradition	al agricultur	e				CO1	
•	Farmir farmin	ng Systems: F g and state farm	amily farm ing	ing, co-operativ	e farmi	ng, col	llective	CO1	
•	Farm s	ize and product	ivity					CO1	
Unit 2	Agricu	ltural credit						CO2	
•	Need,	role of co-opera	tive and com	nmercial banks				CO2	

•	Land reforms- consolidation of holdings	CO2
•	abolition of intermediaries	CO2
•	ceiling on land holdings and tenurial reforms	CO2
•	need, nature and evaluation with special reference to India	CO2
Unit 3	New agricultural technology	CO3
•	Its impact on production	CO3
•	Its impact on income distribution and labour absorption	CO3
•	Negative consequences of new agricultural technology in the context of Punjab	CO3
•	Crop diversification – Need, progress and problems	CO3
Unit 4	Agricultural Marketing in India	CO4
•	Structure, types and defects of agriculture markets in India	CO4
•	Marketing functions, marketing margins, marketed surplus and marketable surplus	CO4
•	Factors affecting marketed surplus	CO4
•	Agricultural Price Policy: Need and objectives	CO4
•	Mobilization of agricultural surpluses	CO4
•	Terms of tradebetween agriculture and industry	CO4
•	Agricultural taxation in India	CO4
Text Books	 1. Sourth Worth, H.M. and John Sten, B.F. Agricultural Development and Economic Growth (1967) 2 Sadhu, A.N. and Amarjit Singh. Fundamentals of Agricultural Economics, Himalaya Publishers.New Delhi. 	



L	Т	Р	Credits
4	0	0	4

Course Code	ECN302								
Course Title	Indian	Indian Economy							
Course Outcomes	CO1. Develop ideas of the basic characteristics of Indian economy, its potential on natural resources.								
	CO2. U and rela	CO2. Understand the importance, causes and impact of population growth and its distribution, translate and relate them with economic development.							
	CO3. Understand agriculture as the foundation of economic growth and development, analyze the progress and changing nature of agricultural sector and its contribution to the economy as a whole.								
	CO4. Grasp the importance of planning undertaken by the government of India, have knowledge on the various objectives, failures and achievements as the foundation of the ongoing planning and economic reforms taken by the government.								
Examination Mode	Theory								
	Contin	uous Assessme	nt		MSE	MSP	ESE	ESP	
Assessment Tools	Quiz	Assignment	ABL/PB L	Lab Performance					
Weightage	10	10	5	-	25	-	50	-	
Syllabus				1				CO Mapping	
Unit 1	Structu	re of Indian Ec	conomy					CO1	
•	Nation ofNation	al Income and ' onal income in	Trends, Sect India	orial contribution	n, Inter-s	state var	iation	CO1	
•	Capita	l Formation and	Economic 1	Development in	India			CO1	
•	Humar rate of	n resources and population in I	economic de ndia	evelopment in In	dia: Size	e and gr	owth	CO1	
•	Demog Family	graphic features	s of India's P welfareprogr	Population, Popul camme in India.	lation Pc	licy in 1	India,	CO1	
•	Povert	y Line and vari	ous measure	s to control Pove	erty			CO1	
Unit 2	Econo	mic Planning in	India					CO2	

•	Review of first ten Five Year Plans in India	CO2
•	Resources mobilization during different plans	CO2
•	Eleventh five-year plan: objectives, target and achievement and its critical analysis	CO2
•	Twelfth f eyear plan: objectives, target and achievement, issues for approach to the twelfth plan	CO2
Unit 3	Basic Issues in Agriculture	CO3
•	Role, nature and Emerging trends in agriculture	CO3
•	Factors determining productivity and Remedies measures to raise agriculture productivity inIndia	CO3
•	Agriculture sustainability and development during plan period	CO3
•	Issues in Industrial Development: Industrial development during planning period	CO3
•	Review of Industrial policy of 1948, 1956, 1977 and new industrial policy 1991	CO3
•	Small scale and Cottage industries in India and MSME	CO3
•	Public sector in India-its role, growth, performance, problems; Issue of privatization.	CO3
Unit 4	External Sector: India's foreign trade	CO4
•	features, composition and direction of Indian foreign trade	CO4
•	India's balance of payments position in India	CO4
•	Foreign Trade policy in India	CO4
•	Current Global slowdown and financial turmoil and itsimpact on Indian economy	CO4
Text Books	 Kapila, Uma, Indian Economy: Programme and Policies, Academic Foundation, New Delhi, 2015. Dutt, Ruddra and, K.P.M. Sundharam. <i>Indian Economy</i>. New Delhi: S. Chand and Company Ltd.2015. Misra, S.K. & V.K. Puri. Indian Economy. Himalayan Publishing House. 2015. 	



L	Т	Р	Credits
4	0	0	4

Course Code	ECN30	3CN304							
Course Title	Statisti	tatistics – III							
Course	CO1: 5	Students will le	arn theoretic	al distribution an	d deriva	tion wit	h nume	rical.	
Outcomes	CO2: 5	Students will ge	et detailed kr	nowledge about s	ampling	concep	ts.		
	CO3: H	Enable the stude	ents to under	rstand theories of	estimati	ion.			
	CO4: It makes the students to understand the testing of hypothesis.								
Examination Mode	Theory								
	Contin	uous Assessme	nt		MSE	MSP	ESE	ESP	
Assessment Tools	Quiz	Assignment	ABL/PB L	Lab Performance					
Weightage	10	10	5	-	25	-	50	-	
Syllabus	1	<u> </u>				<u> </u>	1	CO Mapping	
Unit 1								CO1	
•	Theore	tical Distributi	on; binomial	l, Poisson and nor	rmal dist	ribution	IS	CO1	
•	Deriva their fi	tion with nume tting.	rical exampl	les based upon th	ese distr	ibutions	and	CO1	
Unit 2								CO2	
•	Sampli randon	ing: Concepts u n, systematic, a	used in samp and stratified	ling: methods of	sampling	g simple	>	CO2	
•	Point e proper	stimation: Con ties of a good e	cept of rando stimator;me	om sampling, me thods of estimatio	aning of on.	an estir	nator;	CO2	
Unit 3								CO3	
•	Theori	es of estimation	ı; Point Estir	mation, Interval F	Estimatio	on.		CO3	
•	Concep elemen	pts of null and a ntary tests based	alternative h d on above s	ypothesis;types o ampling distribut	f errors; ions.	some		CO3	

Unit 4		CO4
•	Testing of Hypothesis; Large sample test; Sampling of attributes, Test of significance for difference of proportion, Single mean, Differences of means.	CO4
•	t- test, chi square and F-test.	CO4
Text Books	 Gupta, S.C. and V.K. Kapoor. <i>Fundamental of Applied</i> <i>Statistics</i>. Sultan Chand and Sons. New Delhi.2010 Kapur, J.N. and H.C. Saxena. <i>Mathematical Statistics</i>. S. Chand and Company. New Delhi. 1995. Mood, A.M. and F.A. Gray Bill. <i>Introduction to the Theory</i> <i>of Statistics</i>. McGraw Hill Company, NewYork. 1963. 	



L	Т	Р	Credits
4	0	0	4

Course Code	ECN30	ECN305							
Course Title	Mather	Mathematics for Economists – II							
Course	CO1: 5	Students will be	able to unde	erstand sets and re	elations.				
Outcomes	CO2: 1	Enable the stude	ents to under	stand about diffe	rentiatio	n and pa	artial di	fferentiation.	
	CO3: I	Provide knowled	lge of maxin	na, minima and b	asic trig	onometr	ic funct	ions.	
	CO4: S	CO4: Students will have good knowledge about matrices.							
Examination Mode	Theory								
	Contin	uous Assessmer	nt		MSE	MSP	ESE	ESP	
Assessment Tools	Quiz	Assignment	ABL/PB L	Lab Performance					
Weightage	10	10	5	-	25	-	50	-	
Syllabus								CO Mapping	
Unit 1									
•	Sets an econor	d Relations: Fu nics, System of	nctions-type equations.	s of function and	its appli	cation i	n	CO1	
•	Limits	and Continuity	of functions					CO1	
Unit 2								CO2	
•	Differe	entiation: Rules	of differentia	ation, Economic A	Applicat	ions; Ma	arginal and	CO2	
	total co	ost.	lue, totalle ve	line, marginar co	st, avera	ige cost	and		
•	Partial	differentiation.						CO2	
Unit 3								CO3	
•	Maxim	a and Minima,	profit maxim	nization-Economi	c applic	ations		CO3	

•	Basic Trigonometric Functions: Angle – Positive and negative,	CO3
	Trigonometric ratio of angle	
I Loit A		CO4
Unit 4		04
•	Linear Algebra: Matrices, types, products of matrices, Adjoint of a matrix,	CO4
	Inverse of a matrix, rank of a matrix, determinants	
•	Simultaneous linear equations (Cramer's rule). Inverse method	CO4
Text Books	1. Bradley T. Paul Patton. Essential Mathematics for Economics and Business. Wiley Publication. 2014	
	2. Chiang, A.C. Fundamental Methods of Mathematics Economics.	
	McGraw Hill. 2005	
	3. Kandoi, B. Mathematics for Business and Economics	
	with Applications. Volume-I, HimalayaPublishing	
	House. New Delhi. 2011.	
	4. Kandoi, B. Mathematics for Business and Economics	
	with Applications. Volume-II, HimalayaPublishing	
	House. New Delhi. 2011.	
	5. Monga, G.S. <i>Mathematics and Statistics for Economics</i> . Vikas	
	Publication. New Delhi. 2005.	
	6. Yamane, T. <i>Mathematics for Economist</i> . Prentice Hall of India. New Delhi. 2001.	
	7. Aggarwal & Joshi. Mathematics for Economists	



L	Т	Р	Credits
4	0	0	4

Course Code	ECN3	ECN306							
Course Title	Public	Public Finance							
Course Outcomes	 CO1. Understand the sources of finance both public and private, demonstrate the role of government to correct market failures and possible advantage of public financing. CO2. Understand the possible burden, benefits and distribution of various types of taxes among various classes of people, know the general trend and impact on general welfare and arouse them to suggest good and bad tax system. CO3. Understand the needs of public borrowing from all possible sources to meet necessary public investment/expenditures. Also be alerted to find sources for repayment. CO4. Deliver effectively the preparation of budget and how they are passed in the house. Understand the changes in size and flexibility of state and central budget along with the role played by Finance 								
Examination Mode	Theory								
	Contin	uous Assessmer	nt		MSE	MSP	ESE	ESP	
Assessment Tools	Quiz	Assignment	ABL/PB L	Lab Performance					
Weightage	10	10	5	-	25	-	50	-	
Syllabus								CO Mapping	
Unit 1									
•	Introdu fiscal f sector	action: Nature a functions (alloca and public expe	nd scope of pation, distributed and the scope of patient of the scope	public finance, ca ition and stability	ategories 7), meani	of revenged of revenged of revenues of revenues of the second sec	nue, ıblic	CO1	
•	Marke public	t Performance: 1 good – their eff	Meaning of e	efficiency, extern on, merit goods.	alities, p	orivate v	ersus	CO1	
Unit 2								CO2	
•	Taxati to pay	on: Requiremen principle, equit	ts for a good y(horizontal	l tax structure; be and vertical);	enefit pri	nciple, a	ability	CO2	

•	Tax base (income, consumption and wealth); direct vs. indirect taxes, proportional vs. progressive taxes; tax incidence (Concept and measurement).	CO2
Unit 3		CO3
•	Optimal Taxation: Normative versus positive, commodity tax, income tax, analysis of normative andpositive optimal tax.	CO3
•	Public Debt: Concept, objectives and significances of public debt, sources of public borrowings; distinctionbetween internal and external debt.	CO3
Unit 4		CO4
•	Issues in Indian Public Finance: Recent tax reforms, fiscal federalism in India, state and local finances.	CO4
•	International Issues: Global public goods, taxation of international trade, government revenue and smuggling	CO4
Text Books	 Musgrave, R. A and P. B Musgrave. <i>Public</i> <i>Finance in Theory and Practices</i>, McGraw-Hill International Editions, 1989. Cullis, John and Philip Jones, <i>Public Finance and</i> <i>Public Choice</i>, Oxford University Press, Third Edition (Indian), 2010. Rao, M Govind and Mihir, Rakshit. <i>Public</i> <i>Economics: Theory and Policy Essays in Honor of</i> <i>Amaresh Bagchi</i>, Sage Publications, 2011. Srivastava, D K and U, Shankar (ed.). <i>Development and Public</i> <i>Finance: Essays in Honour of Raja J. Chelliah</i>, Sage Publications, 2012. 	



L	Т	Р	Credits
4	0	0	4

Course Code	ECN30	ECN307							
Course Title	Interna	International Economics							
Course Outcomes	CO 1 – To enable students to understand the basic concepts related to international trade.CO 2- To familiarize students with policies that influence trade between countries.								
	CO3- 1 determ	Γo familiarize st ination.	tudents abou	t Balance of Payr	nent and	l intricad	cies of e	xchange rate	
	CO 4-1 interna	Fo enable studen tional economic	nts to have a c system.	basic understand	ing of th	e emerg	ging trer	nds in the field of	
Examination Mode	Theory	1							
	Contin	uous Assessmer	nt		MSE	MSP	ESE	ESP	
Assessment Tools	Quiz	Assignment	ABL/PB L	Lab Performance					
Weightage	10	10	5	-	25	-	50	-	
Syllabus								CO Mapping	
Unit 1									
•	Trade ' compa	Theories and Co rative advantage	ommercial Po e, and opport	olicy: Theories of tunity cost;	f absolut	e advan	tage,	CO1	
•	Heckso limitat	cher-Ohlin theorions.	ry of trade- i	ts main features,	assumpt	tions, ar	ıd	CO1	
•	Terms	of trade (concep	pts and secul	ar deterioration i	n terms o	of trade)		CO1	
Unit 2									
•	Instrum barrier dumpin	Instruments of Trade Policy: Rationale of protection; Tariff and non-tariff barriers to trade (quota, voluntaryexport restraints, export subsidies, dumping and international cartel);CO2							
•	Tariff a	and quota (parti	al equilibriu	manalysis).				CO2	
Unit 3								CO3	

•	Balance of Payments: Concepts and components of balance of payments.	CO3
•	Equilibrium and disequilibriumin balance of payments; various measures to correct deficit in the balance of payment.	CO3
Unit 4		CO4
•	Exchange Rate: Meaning, concept of equilibrium exchange rate and determination; Fixed versus flexible exchange rates: Managed floating exchange rate; Purchasing Power Parity (absolute, relative); Bretton wood systems and its breakdown.	CO4
•	Contemporary Issues: Financial Globalization, Global Financial Crises (2007-2009), IMF its working and operation.	CO4
Text Books	 Krugman, Paul, M. Obstfeld and Marc J. Melitz. <i>International Economics: Theory and Policy</i>. AddisonWesley Longman. Ninth Edition, 2012. Salvatore, D.K. <i>International Economics</i>. John Wiley and Sons. 2013. Soderston, Bo and G. Reed. <i>International Economics</i>. Macmillan Publishing House. 1994. 	



L	Т	Р	Credits
4	0	0	4

Course Code	ECN30	ECN308							
Course Title	Econo	Economics of Health and Education							
Course	CO1: I	CO1: Enable the students to understand the importance of health economics.							
Outcomes	CO2: 7	Γo provide knov	vledge about	the demand and	supply o	of health	a care.		
	CO3: I	t provides know	vledge regard	ding the formulat	ion healt	th finan	cing pol	licy.	
	CO4: 5	CO4: Students will know the importance of education & investment in human capital.							
Examination Mode	Theory	Theory							
	Contin	uous Assessmen	nt		MSE	MSP	ESE	ESP	
Assessment Tools	Quiz	Assignment	ABL/PB L	Lab Performance					
Weightage	10	10	5	-	25	-	50	-	
Syllabus								CO Mapping	
Unit 1	Introdu	iction to Health	Economics					CO1	
•	Meani	ng, Importance	and Essentia	1 Features of Hea	lth Ecor	omics		CO1	
•	Concep CMR,	ots: Health, Hea MMR,	llth Care, Bii	rth rate, Fertility	rate, Dea	th rate,	IMR,	CO1	
•	Morbio	lity rate (Acute	and Chronic	e), Adjusted Life	Year (D.	ALY)		CO1	
•	Quality	Adjusted Life	Year (QUA)	LY), Sex Ratio.				CO1	
Unit 2	Deman	d and Supply o	f Heath Care	2:				CO2	
•	Deman	d for Health Ca	are					CO2	
•	Case o	f Health Care A	ccessibility					CO2	
•	Socio I	Economic and C	Cultural Feat	ures				CO2	
•	Supply	of Health, Hea	lth Care Del	ivery System				CO2	
•	Pricing	g of Health Care	2					CO2	

Unit 3	Health Financing Policy	CO2
•	Health Expenditure – Public & Private – Direct and Indirect	CO3
•	Health Insurance, Concept of User Cost	CO3
•	Health Policy of WHO	CO3
•	National Health Policy – NRHM	CO3
•	Health as a State Subject	CO3
Unit 4	Education & Investment in Human Capital	CO4
•	Rate of Return to Education: Private and Social	CO4
•	Quality of Education, Signaling or Human Capital	CO4
•	Theories of Discrimination	CO4
•	Gender and Caste Discrimination in India	CO4
•	Literacy Rates, School articipation, School	CO4
•	Quality Measures with special reference to India	CO4
Text Books	 Henderson J.W. <i>Health Economics and Policy</i> .Thomson learning. Latest Edition. Ramankutty. A Premier of Health System Economics. Allied publications. New Delhi. 2007 Ronald G., Ehrenberg and S. Robert and Smith. Modern Labor Economics: Theory and Public Policy. Addison Wesley. 2005. William, Jack. Principles of Health Economics for Developing Countries. World BankInstitute Development Studies. 1999. World Development Report. Investing in Health. The World Bank, 2014. 	



L	Т	Р	Credits
4	0	0	4

Course Code	ECN3)9							
Course Title	Enviro	Environmental Economics							
Course Outcomes	CO 1: It will familiarize the students the association of the economy and environment CO 2: Enable students to develop a comprehensive knowledge on the environmental theories for analysis CO3: This would impart the skills essential for understanding and solving the environmental issues. CO 4: Enable the students to impart knowledge about environmental policy tools and disaster management in India								
Examination Mode	Theory								
	Contin	uous Assessme	ent		MSE	MSP	ESE	ESP	
Assessment Tools	Quiz	Assignment	ABL/PB L	Lab Performance					
Weightage	10	10	5	-	25	-	50	-	
Syllabus				•				CO Mapping	
Unit 1	Introdu	action to Enviro	onmental Eco	onomics				CO1	
•	Meani	ng, Scope and I	mportance of	of environmental	econom	ics		CO1	
•	Positiv	e and Normativ	veEconomic	S				CO1	
•	Type of	of Environment	al Goods					CO1	
•	Use va	lue and Nonuse	e value (exis	tence, altruistic a	nd bequ	est valu	e)	CO1	
•	Public	goods, Private	goods, Club	goods				CO1	
•	Open a	access resources	s					CO1	

Unit 2	Market Failure and Externalities	CO2
•	Theory of Environmental Regulation and Policy	CO2
•	Assignment of PropertyRights and Coase Theorem	CO2
•	Government Interventions: - Command & Control Measures	CO2
•	Marketable Instruments	CO2
Unit 3	Valuation of Environmental Goods and Services	CO3
•	Indirect method (revealed preference)	CO3
•	household production function-travel cost, hedonic pricing	CO3
•	direct/stated preference method – contingent valuation	CO3
Unit 4	Economic Growth and the Natural Environment	CO4
•	Rise and fall of Environmental Kuznets Curve	CO4
•	Sustainable Development: - Meaning of sustainability	CO4
•	weak or strong, goals and indicators of sustainable development	CO4
•	National Accounting and the Natural Environment	CO4
•	Green National Income Accounting with specialreference to India	CO4
Text Books	Roger Perman, Yue Ma, James McGilvray and Michael Common.Natural Resource andEnvironmental Economics. PearsonEducation/Addison Wesley. 3rd edition.Kolstad, Charles D. Intermediate Environmental Economics. OxfordUniversity Press.	



L	Т	Р	Credits
4	0	0	4

Course Code	ECN3	ECN310								
Course Title	Mather	Mathematics for Economists – III								
Course Outcomes	CO1: Students will learn about difference equations and their applocations.									
	CO3: I	CO3: It enables the students to learn Input – Output Analysis.								
Examination Mode	Theory	Theory								
	Contin	uous Assessme	nt		MSE	MSP	ESE	ESP		
Assessment Tools	Quiz	Assignment	ABL/PB L	Lab Performance						
Weightage	10	10	5	-	25	-	50	-		
Syllabus				1				CO Mapping		
Unit 1								CO1		
•	Differe Differe	ence equations a ence Equation o	and their app f First order.	lications; Linear	Homoge	enous		CO1		
•	Non-L	inear differentia	al equation o	f First Order.				CO1		
Unit 2								CO2		
•	Simple Integration and Applications; Rules of Integration, Methods of C Integration, Integration by Parts C							CO2		
•	Econor surplus	mic Applicatior s, Producer Surp	ns: Cost, Rev plus.	enue, Demand F	unction,	Consun	ner	CO2		
Unit 3										

•	Input – Output Analysis: Assumptions; Transaction matrix: Technical coefficients, Hawkin–Simon Conditions, Metzler condition, open and close input-output systems	CO3
•	Dynamic input output analysis (an introduction).	CO3
Unit 4		
•	Linear Programming: Formulation of linear programming p r o b l e m. Graphical method, Simplex method, Two-phase simplex method, unbounded solution, infeasible solution, degeneracy and cycling problem.	CO4
•	Duality theorem, Solution of primal and dual by simplex method. Dual simplex method.	CO4
Text Books	 Bradley T. Paul Patton. Essential Mathematics for Economics and Business. Wiley Publication. 2014. Chiang, A.C. Fundamental Methods of Mathematics Economics. McGraw Hill. 2005. Kandoi, B. Mathematics for Business and Economics with Applications. Volume-1, HimalayaPublishing House. New Delhi. 2011. Kandoi, B. Mathematics for Business and Economics with Applications. Volume-II, HimalayaPublishing House. New Delhi. 2011. Kandoi, B. Mathematics and Statistics for Economics. Vikas Publication. New Delhi. 2005. Yamane, T. Mathematics for Economist. Prentice Hall of India. New Delhi. 2001. 	



L	Т	Р	Credits
4	0	0	4

Course Code	ECN401							
Course Title	Industrial Economics							
Course Outcomes	CO1: It makes the students to understand the nature and scope of industrial econom CO2: Students will understand the industrial efficiency and technical efficiency. CO3: It makes learners to understand the growth of firm and market structure. CO4: It makes the students to understand various theories of Industrial Location						economics. ency. re. ation	
Examination Mode	Theory							
	Contin	uous Assessmer	nt		MSE	MSP	ESE	ESP
Assessment Tools	Quiz	Assignment	ABL/PB L	Lab Performance				
Weightage	10	10	5	-	25	-	50	-
Syllabus							CO Mapping	
Unit 1								
•	Definition: Nature and scope of Industrial Economics.							CO1
•	History and development of industrial Economics.						CO1	
•	Basic Concepts: Firm, industry, Market, Market structure, Market power, passive and active behavior of the firm.						CO1	
Unit 2	CO2							CO2
•	Conceptual framework for the study of Industrial Economics.						CO2	
•	Organizational form and alternative motivesof the firm.						CO2	
•	Industrial efficiency and technical efficiency. Optimum size of the firm.							CO2

Unit 3		CO3
•	Growth of the firm: Acquisition, diversification, merger constraints on Growth: demand, managerial andfinancial.	CO3
•	Market Structure: Seller's concentration; product differentiation; entry conditions and economics of scale.	CO3
Unit 4		CO4
•	Theories of Industrial Location: Factors affecting location; contributions of weber and Sargent Florance. Location policy in India since Independence.	CO4
•	Industrial concentration and dispersal in India. Industrial growth under planning in India.	CO4
•	Industrial policy and licensing policy, MRTP Act and FERA Act in India.	CO4
Text Books	 Barthwal, R. R. 2007. Industrial Economics: An Introductory Text Book. New Age International.New Delhi. Ferguson, P. R.1998. Industrial Economics: Issues and Prospectus. New York University Press. Seth, R. 2010, Industrial Economics. Ane Book. New Delhi. 	



L	Т	Р	Credits				
4	0	0	4				

Course Code	ECN402							
Course Title	Labour Economics							
Course Outcomes	CO1: It involves the study of the factors and structure of labor and importance in the economic activities.							
	CO2: It helps to understand the employers demand as well who requires the service of labour							
	CO3: It helps to analyses the wage structure, income and level of employment							
	Co4: Labour economics deals with various aspects of labour organizations, wage bargaining and man power economics.							
Examination Mode	Theory							
	Continuous Assessment MSE					MSP	ESE	ESP
Assessment Tools	Quiz	Assignment	ABL/PB L	Lab Performance				
Weightage	10	10	5	-	25	-	50	-
Syllabus	CO Mapping							
Unit 1	C01							
•	Introduction to Labour Economics: Meaning, Scope and Importance. CO1							
•	Labour Demand: Nature, Marginal Productivity Theory and demand for labour under different market forms, Short run and Long run labour demand curve for firm and industry; elasticity of substitution;CO1							
•	Marshall's rules of derived demand. CO1							CO1
Unit 2	CO2							
•	Labour Supply: Neoclassical Model of labour-leisure choice;							CO2
•	Effects of changes in non-labour income andwage rate on individual CO2 equilibrium; role of income and substitution effect, backward bending curve;							CO2

•	Individual and market labour supply curve.	CO2
Unit 3		CO3
•	Equilibrium in Labour Market: Analysis of equilibrium under the competitive and non-competitive marketforms.	CO3
•	Unemployment: History of Economic Thought – classical theory, Keynesian, New Classical, Phillips curve, Monetarism; various concepts of unemployment; work participation, labour absorption.	CO3
Unit 4		CO4
•	Rural and Urban Labour Market: Labour Market Reforms in India; Labour Laws in India; Subsistence wageand Minimum Wage Act in India;	CO4
•	Contemporary issues (post liberalization era); Welfare programmes, government wage employment and self-employment programmes.	CO4
•	Human Capital; Labour Mobility; ChildLabour issues; Issues in developing and transition economies.	CO4
Text Books	 Borjas, George J. Labour Economics. McGraw-Hill Irwin. 2013. Gould, J. P. and P. Edward Lazear. Microeconomic Theory. AITBS Publishers and Distributors Delhi.2001. Government of India. Indian Labour Yearbooks (various issues), GOI Kar, Saibal and Debabratta, Datta. Industrial and Labor Economics: Issues in Developing and Transition Countries. Springer India. 2015. Smith, Stephen. Labour Economics. Routledge. 2003 	


L	Т	Р	Credits
4	0	0	4

Course Code	ECN403							
Course Title	Research Methodology							
Course	CO1: F	Provide knowled	dge about da	ta types and sour	ces of da	ata.		
Outcomes	CO2: 5	Students will ga	in the knowl	ledge of sample ty	ype and	size.		
	CO3: 7	To provide kno	wledge abou	it errors in survey	<i>.</i>			
	CO4: Students will learn how to process collected data.							
Examination Mode	Theory							
	Contin	uous Assessme	nt		MSE	MSP	ESE	ESP
Assessment Tools	Quiz	Assignment	ABL/PB L	Lab Performance				
Weightage	10	10	5	-	25	-	50	-
Syllabus				<u>.</u>				CO Mapping
Unit 1	Data ty	pes and source	s					CO1
•	Qualita	ative and quanti	ty data					CO1
•	measur	ement and scale	es					CO1
•	second	ary sources of c	data and inst	itutions				CO1
•	Sample	e questionnaires	s: Measurem	ent and scales				CO1
Unit 2	Sample	e type and size						CO2
•	Simple	random sampli	ing					CO2
•	cluster	sampling						CO2
•	stratifie	ed sampling and	d its complic	ations				CO2
•	Determ	nining an approp	priate size					CO2
Unit 3	Errors	in surveys						CO3

•	Misunderstanding of questions and answers	CO3
•	problem of nonresponse	CO3
Unit 4	Processing of survey data	CO3
•	Cleaning of data and its coding	CO4
•	Ethics and scientific integrity	CO4
•	Standards of conduct, privacy in data	CO4
Text Books	 Bethlehem, J. (2009). Applied survey methods: A statistical perspective. Wiley. Cochran, W. (2008). Sampling techniques, 3rd ed. Wiley. Cooper, D., Schindler, P., Sharma, J. (2012). Business research methods, 12th ed. McGraw-Hill. Flick, U. (2012). Introducing research methodology: A beginner's guide to doing a research project. Sage Publications. Groves, R., Fowler, F., Couper, M., Lepkowski, J., Singer, E., Tourangeau, R. (2009). Survey Methodology. Wiley. Kumar, R. (2014). Research methodology: A step by step guide for beginners, 4th ed. Sage Publications. 	



In	hou		
L	Т	Р	Credit
2	0	0	2

Course Code	ECN404							
Course Title	Resear	Research Ethics						
Course On the completion of the course the student will be able to								
Outcomes	CO1: 1	Understand the	basics of phile	osophy, ethics a	nd scien	tific con	duct.	
	CO2:]	Develop unders	standing on pu	blication ethics	and pub	lication	miscondu	ıct.
	CO3: 0	Gain the knowl	edge about op	en access journa	ıls			
	CO4: 0	Gather the know	wledge about j	plagiarism and r	esearch	metrics.		
Examination Mode	Theory	У						
	Contin	uous Assessme	ent		MSE	MSP	ESE	ESP
Assessment Tools	Quiz	Assignment	ABL/PBL	Lab Performance				
Weightage	10	10	5	-	25	-	50	-
Syllabus				I			1	CO Mapping
Unit 1	Philos	ophy and Ethi	cs					CO1
	Introdu	uction to Philos	ophy- Definit	ion, Nature, Sco	ppe.			CO1
	Ethics	-Definition, Mo	oral Philosoph	y, Nature of Mo	ral Judg	ement.		CO1
	Scient researc	ific Conduct-In ch, Intellectual	tegrity and Et honesty and re	hics, Ethics with esearch integrity	n respect	to scien	ice and	CO1
	Scient Redun	ific misconduct dant publicatio	s: Falsifications, Selective r	n, Fabrication, a reporting and mi	nd Plagi sreprese	arism (I ntation (FFP), of data.	CO1
Unit 2	Public	cation Ethics						CO2
	Public standa of inte	ation ethics: de rds setting initi rest.	finition, introc atives and gui	duction and impo delines: COPE,	ortance, WAME	best pra , etc., Co	ctices / onflicts	CO2

	Publication misconduct: definition, concept, Violation of publication ethics, authorship and contributorship, Identification of publication misconduct, complaints and appeals, Predatory publishers and journals	CO2
Unit 3	Open Access Publishing	CO3
	Open access publications-Definition and concept	CO3
	Journal finder / journal suggestion tools viz. JANE, Elsevier Journal Finder, Springer Journal Suggested, etc.	CO3
Unit 4	Database & Research Metrics	CO4
	Plagiarism software like Tumitin, Urkund and other open-source software tools, Databases-Indexing databases, Citation databases: Web of Science, Scopus, etc.,	CO4
	Research Metrics-Impact Factor of journal as per Journal Citation Report, SNIP, SIR, IPP, Cite Score, Metrics: h-index, g index, i10 index, Altmetrics	CO4
Text Books	 Bird,A. (2006). Philosophy of Sciences. Routledge MacIntyre, Alasdair (1967). A Short History of Ethics. London P.Chandah. (2018). Ethics in Competitive Research: Do not get Scooped; do not get plagiarized. 	



L	Т	Р	Credits
4	0	0	4

Course Code	ECN40	ECN405						
Course Title	Global	Global Political Economy						
Course Outcomes	CO1: Understand the basic concepts of global political economy.CO2: Able to understand the concepts of changing dynamics of capitalist production.CO3: Students will learn about the political economy of global trade.							
	and cri	sis.	its to unders	tand the era of gr	obunsun		giobar	conomic instability
Examination Mode	Theory							
	Contin	uous Assessme	nt		MSE	MSP	ESE	ESP
Assessment Tools	Quiz	Assignment	ABL/PB L	Lab Performance				
Weightage	10	10	5	-	25	-	50	-
Syllabus								CO Mapping
Unit 1	Introdu	action and overv	view					C01
•	Perspe historic	ctives on politic cal overview	cal economy	of globalisation	with a			CO1
Unit 2	Chang	ing dynamics of	f capitalist p	roduction				CO2
•	Organi	zational forms	and Labour J	processes				CO2
	Fordist and post-Fordist production regimes CO2							CO2
•	Fordist	t and post-Fordi	ist production	n regimes				002
•	Fordist Multin	t and post-Fordi ational corporat	ist productio	n regimes tion, structural fo	orm and o	lynamic	s	CO2
•	Fordis Multin global	t and post-Fordi ational corporat value chains an	tions –evolut	n regimes tion, structural fo networks	orm and o	lynamic	S	CO2 CO2
• • • • •	Fordis Multin global the cha globali	t and post-Fordi ational corporat value chains an unging nature of sed economy	tions –evolut d production	n regimes tion, structural fo n networks nt, job security an	orm and o	lynamic r rights	es in a	CO2 CO2 CO2
• • Unit 3	Fordist Multin global the cha globali The po	t and post-Fordi ational corporativalue chains an unging nature of sed economy litical economy	tions –evolu d production employmen	n regimes tion, structural fo n networks nt, job security an ade	orm and o	lynamic r rights	in a	CO2 CO2 CO2 CO2 CO3

•	The role of finance in the globalised economy	CO3
•	financialisation of the global economy – trends, instruments, features and consequences	CO3
Unit 4	The state in the era of globalisation	CO4
•	Globalisation and the limits of the welfare and developmental states	CO4
•	Global economic instability and crisis	CO4
•	The 2008 global economic crisis – prelude, proximate and long term causes	CO4
•	Possibility of recurring crises	CO4
Text Books	 Bhaduri, A. (2002). Nationalism and economic policy in the era of globalization. In D. Nayyar (ed.): <i>Governing globalization: Issues and</i> <i>institutions</i>. Oxford University Press. Chang, D. (2009). Informalising labour in Asia's global factory. <i>Journal of Contemporary Asia</i>, 39, 161-179. Dore, R. (2008). Financialisation of the global economy. <i>Industrial and</i> <i>Corporate Change</i>, 17, 1097-1112. Harvey, D. (2005). <i>A brief history of neoliberalism</i>. Introduction, Chapters 1-3. Oxford University Press. Winham, G. (2011). The evolution of the global trade regime. In J. Ravenhill (ed.): <i>Global political economy</i>. Oxford University Press. 	



L	Т	Р	Credits
4	0	0	4

Course Code	ECN40	ECN406						
Course Title	Advan	Advanced Global Trade Challenges and Opportunities						
Course	CO1: 5	Students will ab	le to unders	tand trade policy	implica	tions an	d globa	l value chains.
Outcomes	CO2: It enables the students to understand the importance of innovation and digitalization in trade.							nd digitalization in
	CO3: Students will understand the concepts political economy and geopolitics of trade.							
	CO4: It will enable them to understand the challenges in trade, trade negotiations and diplomacy.							
Examination Mode	Theory							
	Contin	uous Assessme	nt		MSE	MSP	ESE	ESP
Assessment Tools	Quiz	Assignment	ABL/PB L	Lab Performance				
Weightage	10	10	5	-	25	-	50	-
Syllabus							•	CO Mapping
Unit 1	Review	w of Internatio	nal Econom	nics				CO1
•	Brief r	eview of key co	oncepts in in	ternational econo	omics			CO1
•	Compa	arative advantag	ge and trade	theories				CO1
•	Trade	policy and its ir	nplications					CO1
•	Globa	l Value Chains	G(GVCs)					CO1
•	Unders	standing GVCs	and their sig	gnificance				CO1
•	GVC g	governance and	coordination	n				CO1
•	GVC p	participation and	d upgrading	strategies				CO1

	Trade and Innovation	CO2
Unit 2		
•	Intellectual property rights (IPR) and trade	CO2
•	Technology transfer and its impact on trade	CO2
•	Innovation-driven trade policies	CO2
•	Trade in Services and Digital Trade	CO2
•	In-depth analysis of trade in services	CO2
•	The role of e-commerce and digital trade	CO2
•	Regulatory challenges in the digital economy	CO2
Unit 3	Trade Policy and Political Economy	CO3
•	Political economy of trade policy	CO3
•	Lobbying and interest groups in trade	CO3
•	Trade policy-making in a globalized world	CO3
•	Geopolitics of Trade	CO3
•	Geopolitical factors shaping trade dynamics	CO3
•	Trade tensions and disputes among major economies	CO3
•	National security considerations in trade policy	CO3
Unit 4	Trade and Emerging Markets	CO4
•	Challenges and opportunities in emerging markets	CO4
•	Trade strategies of emerging economies	CO4

•	Trade Finance and Risk Management	CO4
•	Financing international trade	CO4
•	Managing currency and financial risks	CO4
•	Trade credit and insurance	CO4
•	Trade Negotiations and Diplomacy	CO4
•	Advanced negotiation techniques in trade agreements	CO4
•	Diplomatic skills in trade diplomacy	CO4
Text Books	 Global Business Today" by Charles W. L. Hill and G. Tomas M. Hult Global Value Chains: Linking Local Producers from Developing Countries to International Markets" by Gary Gereffi International Trade: Theory and Policy" by Paul Krugman and Maurice Obstfeld International Trade: Feenstra and Taylor" by Robert C. Feenstra and Alan M. Taylor Trade, Development and Political Economy: Essays in Honour of Anne O. Krueger" edited by Sadik D. Al-Azm and Naved Hamid 	



L	Т	Р	Credits
4	0	0	4

Course Code	ECN407									
Course Title	The History of Economic Thought									
Course	CO1: f	CO1: familiarize the concept mercantilism & Physiocrats and the physiocratic school.								
Outcomes	CO2: /	Acquire knowle	edge of Briti	sh political econ	omy.					
	CO3: I	Enabling the stu	idents to hav	ve depth of socia	lism.					
	CO4: I	Enable students	to understa	nd Indian econor	nic thou	ughts.				
Examination Mode	Theory									
	Contin	uous Assessme	ent		MS	MSP	ESE	ESP		
Assessment Tools	Quiz	Assignment	ABL/PB L	Lab Performance	E					
Weightage	10	10	5	-	25	-	50	-		
Syllabus			I					CO Mapping		
Unit 1								CO1		
•	Mercar	ntilism & Physi	iocrats - Lin	nitations of natio	nal reso	ources.		CO1		
	in Fore	eign Trade, Def	n Conquest, inition of W	Vealth and the wa	ys in w	, Role of hich to	f State			
	augme	nt it, Importanc	ce of the Bal	ance of Trade.						
•	Works	of Francis Bac	on, Thomas	Mum, Josiah Ch	nild, Joh	nn Cary,	20	CO1		
	Italy, S	Scotland.	iiii Stuart ivi	in Age of Enligh	tenmen	t – Franc	<i></i> ,			
•	The Ph	nysiocratic scho	ol. Definitio	on of surplus. Th	e organ	ization o	of Zavlar	CO1		
	of Jaco	nic activities and ques Turgot, Fra	ancois Ques	nay, Richard Ca	Econor ntillon.	nique w	Orks			
								CO2		
Unit 2										

•	British Political Economy - Nature of the Surplus, Source of Value, Measure of Value, Market Prices and Natural Prices, Profits and Wages, Gross and Net Revenue (national income).	CO2
•	Income Distribution, Works of Adam Smith, David Ricardo, Robert Malthus.	CO2
•	Objections raised by J. B. Say, Charles Dupuit, W Stanley Jevons, and Leon Walras, J.M. Keynes	CO2
Unit 3		CO3
•	Socialism - Rise of Socialist ideas, Political background, Ricardian Theory of Rent, Nationalization of Land, French Socialists, Marxism, Marx's writings in theoretical economics.	CO3
•	The Marxian twist, Marxism post – 1991 - Schumpeter's Critique.	CO3
Unit 4		CO4
•	Indian Economic Thought - Early Indian economic thought - Chanakya's Artha shastra - Colonial Economic policies, Unfair treatment of the colonies, Nationalist response, Swadeshi Movement.	CO4
•	Economic ideas of M. G. Ranade, Dadabhay Nowrosjee, Gopal Krishna Gokhale, Dr. B. R. Ambedkar, M.K. Gandhi	CO4
Text Books	1.History of Economic Analysis by Joseph Schumpeter	
	2.Handbook on the History of Economic Analysis (eds) G. Faccarello and Heinz D. Kurz.	



L	Т	Р	Credits
4	0	0	4

Course Code	ECN408								
Course Title	Financia	Financial Economics							
Course Outcomes	 CO1: To familiarize the students with the basic concepts in financial economics CO2: To provide comprehensive knowledge on the role of finance and financial systems in operation CO3: The course intends to familiarize the students with the basic concepts in money market and capital market CO 4: To enable students to know the operation of the Indian Financial System and activities in the financial markets. 								
Examination Mode	Theory	,							
	Contin	uous Assessmer	nt		MSE	MSP	ESE	ESP	
Assessment Tools	Quiz	Assignment	ABL/PB L	Lab Performance					
Weightage	10	10	5	-	25	-	50	-	
Syllabus				-	<u> </u>			CO Mapping	
Unit 1	Financ	ial system and H	Financial Ma	ırkets				CO1	
•	Financ	ial system-Struc	cture-Functio	ons- Financial ma	rkets			CO1	
•	Financ	ial Instruments	-Financial sy	stem and Econor	nic deve	lopmen	t	CO1	
•	Money	market-Meanin	ng-Functions	3				CO1	
•	Instrum notes,]	nents of money Bills of Exchan	market-Call ge, Treasury	loans, Collateral Bills, Gilt edged	loans, P securitie	romisso es	ry	CO1	
•	RBI in	Indian Money	market					CO1	
Unit 2	Capital	Market						CO2	
•	Capital market	l market- Meani s	ing – Functio	ons-Structure-Prir	nary and	l Second	lary	CO2	

•	Instruments of Capital market- Bonds and debentures, Government promissory notes, Public sector bonds	CO2
•	Initial Public Offer-Methods of floatation of shares	CO2
•	Secondary Market- Nature and functions of stock exchanges -Settlement and trading in stock exchange	CO2
•	Players in stock exchanges -Speculators-Bulls, Bears, Lame duck, Stag- Kerb trading, Insider trading- Listing of securities	CO2
Unit 3	Security Market Analysis	CO3
•	Risk-Return on risk-types of risk- Security Evaluation	CO3
•	Fundamental Analysis, Technical Analysis -Fundamental Analysis	CO3
•	Dow Theory, Dow-Jones Index, Elliot Wave Theory	CO3
•	Derivatives-Options, Futures/Forwards, Swaps Construction of Stock market indices	CO3
Unit 4	Indian Financial System	CO4
•	Structure of Indian Financial System-Organization and management of Indian Stock Exchanges	CO4
•	Depositories in India NSDL, CSDL	CO4
•	Development financial institutions	CO4
•	Pension and Provident Funds, National Pension system and PFRDA (Pension Funds Regulatory and Development Authority)	CO4
•	Mutual funds- Venture capital funds- NBFIS, Chit Funds	CO4
•	Credit rating agencies in India	CO4
Text Books	1. Bhole, L M (1999): Financial Institutions and Markets, TATA Mc Graw Hill Co Ltd, New Delhi •	
	2. Gupta, S B (2007): Monetary Economics Institutions Theory and Policy, Chand and Co Ltd	
	3.Khan, N Y (1996): Indian Financial system, TATA Mc Graw Hill Co Ltd, New Delhi 4.Bharathi V Pathak(2003):Indian Financial system, Pierson Education, New Delhi.	



L	Т	Р	Credits				
4	0	0	4				

Course Code	ECN452								
Course Title	Basic Econometrics								
Course	CO1- To provide an understanding of Econometrics								
Outcomes	CO2- 1 model	Fo equip studen and providing a	ts with know basic idea a	vledge required for bout the multiple	or the est regressi	timation ion mod	of simp el.	ble linear regression	
	CO3-]	To enable them	to understan	d the econometrie	c modeli	ing and	multicol	llinearity.	
	CO4- Students will understand the concepts of autocorrelation and heteroscedasticity.								
Examination Mode	Theory								
	Contin	uous Assessme	nt		MSE	MSP	ESE	ESP	
Assessment Tools	Quiz	Assignment	ABL/PB L	Lab Performance					
Weightage	10	10	5	-	25	-	50	-	
Syllabus					•		•	CO Mapping	
Unit 1	Nature	, Meaning and S	Scope of eco	nometric				CO1	
•	Differe	ence between m	athematical e	economics, statis	tics and	econom	etrics	CO1	
•	Metho	dology of Econ	ometrics					CO1	
•	Differe	ence between co	orrelation and	l regression				CO1	
•	Simple	e linear regressio	on model (Ty	wo variables)				CO1	
•	Source their pr	es of disturbanc roperties	e terms, ass	umptions, least	squares	estimato	ors and	C01	
•	Gauss	Markov's theor	em					CO1	
Unit 2	Multip	le regression M	odel					CO2	
•	Definit	tion, assumption	ns, least–squa	ares estimation				CO2	
•	Testing	g significance of	f regression	coefficients, conc	cepts of l	R2 and I	R-2	CO2	

•	Functional forms: Estimation of quadratic, semi-log and double log functions	CO2
•	simple and compound rates of growth (applications)	CO2
Unit 3	Econometric Modeling	CO3
•	Specification of regression model	CO3
•	Model selection criterion and Diagonistic testing	CO3
•	Multicollinearity: Problem consequences	CO3
•	test to detect Multicollinearity, remedies	CO3
Unit 4	Autocorrelation and Heteroscedasticity	CO4
•	Nature of autocorrelation and heteroscedasticity	CO4
•	Consequences tests	CO4
•	remedies (elementary treatment)	CO4
Text Books	1. Christopher Dougherty. Introductory Econometrics. Oxford University Press. 2012.	
	2. Gujarti, D. N. Basic Econometrics. Tata McGraw Hill. 2004.	
	3. Koutsoyiannis, A. Theory of Econometrics. Palgrave Macmillan.2005.	



L	Т	Р	Credits
4	0	0	4

Course Code	ECN455									
Course Title	Opera	Operations Research								
Course Outcomes	CO1: I method	CO1: Identify the characteristics of linear programming problems. Understand various methods for solving linear programming problems								
	CO2: 5					JS.				
	CO3: S	Students will lea	arn to solve	the problems rela	ated to a	ssignme	ent.			
	CO4: U manag	CO4: Understand basic concept of game theory and learn the concepts of project management.								
Examination Mode	Theory	Theory								
	Contin	uous Assessme	ent		MSE	MSP	ESE	ESP		
Assessment Tools	Quiz	Assignment	ABL/PB L	Lab Performance						
Weightage	10	10	5	-	25	-	50	-		
Syllabus				<u>.</u>	4			CO Mapping		
Unit 1	Introdu	action to OR						CO1		
•	Operat	ions research ir	n India, natu	re, scope				CO1		
•	limitati	ion and techniq	ues of OR					C01		
•	Duality	y-Concept of du	ality in LPF.	P, Formulation of	the dua	l proble	m	CO1		
•	Rules f	for constructing	g the dual pro	oblem, Primal-D	ual relat	ionship		CO1		
•	Interpr Dual S	eting the Prima implex, Steps i	al-Dual rela n Dual Simr	tionship, -Dual o	of the D	oual is H	Primal,	CO1		
•	Sensi analy	tivity Analysis: sis	Sensitivity	analysis, Limitat	ions of S	Sensitivi	ity	CO1		
Unit 2	Transp	ortation Model						CO2		
•	Introdu	action, Optimal	solution of	Transportation pr	roblem			CO2		
•	Metho	ds for initial bas	sicfeasible so	olutions- NWCM	I, LCM,	VAM		CO2		

•	Optimality Tests- Stepping stone method, Modified distributionmethod	CO2
•	Degeneracy in Transportation problem	CO2
•	Profit maximization in Transportation problem,	CO2
•	Unbalanced Transportation problems, Trans shipment problem.	CO2
Unit 3	Assignment Model and	CO3
•	Introduction, Mathematical Formulation	CO3
•	Hungarian method [Minimization method, Maximization case in Assignment Problems	CO3
•	Travelling Salesman Problem, Un-balanced Assignment Problem, Air Crew assignment	CO3
•	Prohibited assignment/ Constrained assignment problem, LPP formulation of Assignment Problem	CO3
•	Inventory Control: Meaning, Inventory decisions, Types of Inventory, Factors affecting IC policy	CO3
•	Objectives of IC, Scope of IC, IC systems- P& Q	CO3
•	Inventory Models-Deterministic models (EOQ), Pricebreak approach, Safety stocks- factors & methods, Approaches to IC- ABC, VED.	CO3
Unit 4	Game Theory	CO4
•	Introduction, Types of strategy, The Maximin-Minimax principle	CO4
•	Saddle point, Types of problems-Games with pure strategies	CO4
•	Games with mixed strategies (8 methods), limitations of game theory	CO4
•	Network Analysis- PERT and CPM- Introduction	CO4
•	Objectives of Network Analysis, Applications of Network Model	CO4
•	ActivityTimes & Critical Path Computation of Critical Path Slack & Float	CO4
•	PERT- Steps & computing variance, Merits & demerits of PERT, CPM- Time estimating & Limitations	CO4
•	Project Cost analysis- Direct & indirect costs, The lowest cost schedule, Crashing of jobs, Allocation & leveling of resources (through CPM)	CO4

Text Books	 Kalavathy, S. <i>Operations Research</i>. Vikas Publishing House. New Delhi. 	
	 Kapoor, V.K. <i>Operations Research</i>. Sultan Chand & Sons. New Delhi. 	
	 Paneerselvam, R. <i>Operations Research</i>. Prentice Hall of India. New Delhi Vohra, N.D. <i>Quantitative Techniques in Management</i>. Tata McGraw Hill Publishing Company Ltd. 	



L	Т	Р	Credits
4	0	0	4

Course Code	ECN456								
Course Title	Data Analysis								
Course	CO1: Students will learn to represent and analysis of data of real-world problems.								
Outcomes	CO2: S	vsis.							
	CO3: t	CO3: understand visualization and representation using software's.							
CO4: To understand simple estimation techniques and test.									
Examination Mode	Theory	Theory							
	Contin	uous Assessme	nt		MSE	MSP	ESE	ESP	
Assessment Tools	Quiz	Assignment	ABL/PB L	Lab Performance					
Weightage	10	10	5	-	25	-	50	-	
Syllabus	CO Mapping								
Unit 1	Introduction to the course C							CO1	
•	How can the representation and analysis of data help us study real-world CO1 problems							CO1	
•	Public	y available data	a sets					CO1	
Unit 2	Using	Data: Available	e statistical so	oftware				CO2	
•	steps in	n data storage						CO2	
•	organiz	zation and clear	ning					CO2	
Unit 3	Visualization and Representation							CO3	
•	Alterna	ative forms of p	presenting da	ta				CO3	
Alternative forms of summarizing data						CO3			
Unit 4	Simple	e estimation tecl	hniques					CO4	
•	tests for statistical inference CO4								

Text Books	1. Levine, D., Stephan, D., Szabat, K. (2017). Statistics for managers	
	using Microsoft Excel, 8th ed. Pearson.	
	2. Tattar, P., Ramaiah, S., Manjunath, B. (2018). A course in statistics with	
	R. Wiley.	



L	Т	Р	Credits
4	0	0	4

Course Code	ECN454							
Course Title	Advanced Econometrics							
Course	CO1: Students will understand the concept of dummy variables.							
Outcomes	CO2: 1	This will help in	understand	ing the Simultane	eous Equ	ation M	Iodels.	
	CO3: Students will learn Distributed Lag Models.							
	CO4: it will help in understanding basic characteristics of Time Series Data.							
Examination Mode	Theory	Theory						
	Contin	uous Assessme	nt		MSE	MSP	ESE	ESP
Assessment Tools	Quiz	Assignment	ABL/PB L	Lab Performance				
Weightage	10	10	5	-	25	-	50	-
Syllabus	CO Mapping							
Unit 1	Dummy Variables CO1							
•	Regression on qualitative and quantitative variables CO1							C01
•	dumm	y variable trap		CO1				
•	structu	ral stability of r	egression m	odels				CO1
•	Chow	test, piecewise	linear regres	sion model				CO1
Unit 2	Simultaneous Equation Models CO2							CO2
•	Simultaneous bias, structural versus reduced form							CO2
•	Identification: rank versus order condition, exact and over identifications C							CO2
•	triangular model, methods of estimation including indirect least squares CO2							CO2
•	two-stage least squares and three-stage least squares model CO2							CO2
Unit 3	Distributed Lag Models							CO3

•	Formation of expectations	CO3
•	naïve expectation versus adaptive expectations models	CO3
•	partial adjustment models, distributed lag models	CO3
•	Koyck's model, Almon lag, polynomial distributed lag models	CO3
Unit 4	Basic Characteristics of Time Series Data	CO4
•	Random Walk	CO4
•	Testing for Non stationarity and Stationarity	CO4
•	Unit Root Tests	CO4
Text Books	 Gujarati, Damodar N. Basic Econometrics. New York: McGraw-Hill. 2007. Print. 	
	2. Wooldridge, Jeffrey M. Introductory Econometrics: A Modern Approach. Peking: Cengage Learning. 2009. Print.	
	3. Brooks, C. Introductory Econometrics for Finance. Cambridge University Press. 2003. First edition	