

**MAR IVANIOS COLLEGE  
(AUTONOMOUS)**

**Affiliated to the University of Kerala,  
Thiruvananthapuram  
Kerala**



**SCHEME AND SYLLABUS FOR THE  
FOUR YEAR UNDERGRADUATE  
PROGRAMME (FYUGP)**

**MAJOR DISCIPLINE  
ECONOMICS  
(With effect from 2024 Admissions)**

**Approved by the Board of Studies in  
Economics, History and Political Science**

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## PREAMBLE

National Education Policy (NEP 2020) envisions ‘higher education as playing an extremely important role in promoting human as well as societal wellbeing and in developing India as envisioned in its Constitution - a democratic, just, socially conscious, cultured, and humane nation upholding liberty, equality, fraternity, and justice for all’ (Section 9.1). NEP also expects higher education ‘to develop good, thoughtful, well-rounded, and creative individuals, enabling an individual to study one or more specialized areas of interest at a deep level, and also develop character, ethical and Constitutional values, intellectual curiosity, scientific temper, creativity, spirit of service, and 21st century capabilities across a range of disciplines including sciences, social sciences, arts, humanities, languages, as well as professional, technical, and vocational subjects’ (Section 9.1.1). Hence, more than the creation of greater opportunities for individual employment, higher education represents the key to more vibrant, socially engaged, cooperative communities and a happier, cohesive, cultured, productive, innovative, progressive, and prosperous nation. (Section 9.1.3). NEP also identifies some of the major problems currently faced by the higher education system in India (Section 9.2) and envisions a complete overhaul and re-energizing of the higher education system to overcome these challenges and thereby deliver high-quality higher education, with equity and inclusion (Section 9.3). One of the major changes which the policy proposes is moving towards a more multidisciplinary undergraduate education (Section 9.3(b)) which develops all capacities of human beings -intellectual, aesthetic, social, physical, emotional, and moral in an integrated manner (Section 11.3). In order to achieve this in its full potential, NEP visions the adjusting of the structure and lengths of degree programmes accordingly. “The undergraduate degree will be of either 3 or 4-year duration, with multiple exit options within this period, with appropriate certifications, e.g., a certificate after completing 1 year in a discipline or field including vocational and professional areas, or a diploma after 2 years of study, or a Bachelor ’s degree after a 3-year programme. The 4-year multidisciplinary Bachelor's programme, however, shall be the preferred option since it allows the opportunity to experience the full range of holistic and multidisciplinary education in addition to a focus on the chosen major and minors as per the choices of the student.” (Section 11.9)

In accordance with the NEP 2020, the UGC formulated a new student-centric “Curriculum and Credit Framework for Undergraduate Programmes (CCFUP)” incorporating a flexible choice-based credit system, multidisciplinary approach, and multiple entry and exit options and establishing three Broad Pathways,

- (a) 3-year UG Degree,
- (b) 4-year UG Degree (Honours), and
- (c) 4-year UG Degree (Honours) with Research)

Accordingly, the Kerala Higher Education Reforms Commission 2022, headed by Prof Shyam B. Menon, has recommended a comprehensive reform in the undergraduate curriculum with the adoption of the 4-year undergraduate Programmes, which will bring undergraduate education in Kerala at par with the universities abroad. Consequently, Kerala State Curriculum Committee for Higher Education 2023 has been constituted, with Dr Suresh Das as Chairman, and they have proposed a model Kerala State Higher Education Curriculum framework for undergraduate education.

The University of Kerala has decided to introduce the Four Year Under Graduate Programmes (FYUGP) from the academic year 2024-2025 onwards in its teaching departments and all affiliated colleges, and has issued many draft documents and conducted college level awareness programmes about the same.

Mar Ivanios College, by virtue of its autonomy status, conferred in 2014 and extended in 2022, vide University Grants Commission (Conferment of Autonomous Status Upon Colleges and Measures for Maintenance of Standards in Autonomous Colleges) Regulations, 2023, has the power to review existing courses/programmes and, restructure, redesign and prescribe its own courses/programmes of study and syllabi and to formulate new courses/programmes within the nomenclature specified by UGC as per the Specification of Degrees 2014 as amended from time to time. Accordingly, the Board of Studies in Economics of Mar Ivanios College (Autonomous) proposed the implementation of the FYUGP scheme with effect from 2024 admission onwards and prepared the scheme and syllabi through many of the meetings and discussions. The Academic Council of the college which met on 30<sup>th</sup> April gave discussed the proposal and syllabi in detail and approved the same to be implemented from 2024 admission onwards, subject to the final directions of the University of Kerala.

The salient features of the syllabus prepared and presented by the Board of Studies include the following:

1. Integrated Theoretical and Practical Components: The syllabus seamlessly blend theoretical concepts with practical applications, ensuring students understand the real-world relevance of what they are learning.

2. **Hands-On Activities:** Incorporating hands-on activities, experiments, and projects allows students to engage actively with the material, fostering deeper understanding and retention.
3. **Case Studies and Real-World Examples:** Including case studies and real-world examples provides context and illustrates how theoretical knowledge can be applied to solve practical problems encountered in various fields.
4. **Collaborative Learning Opportunities:** Group projects, discussions, and collaborative problem-solving activities encourage teamwork and peer-to-peer learning, enhancing students' ability to apply theoretical concepts in a team setting.
5. **Industry-Relevant Skills Development:** Identifying and integrating skills that are in demand in the relevant industry ensures that students are equipped with the necessary tools to succeed in their careers upon graduation.
6. **Experiential Learning:** Opportunities for internships, field trips, and industry partnerships allow students to gain firsthand experience and apply theoretical knowledge in real-world settings.
7. **Feedback and Reflection:** Regular feedback mechanisms and opportunities for self-reflection help students identify areas for improvement and reinforce their learning journey.
8. **Continuous Assessment:** Implementing varied assessment methods such as quizzes, presentations, and project reports ensures continuous evaluation of students' understanding and progress throughout the course.
9. **Flexibility and Adaptability:** A syllabus that can adapt to emerging trends, technological advancements, and changing industry needs ensures that students receive relevant and up-to-date education.
10. **Lifelong Learning Skills:** Fostering a mindset of curiosity, adaptability, and continuous learning prepares students to navigate the ever-evolving landscape of their chosen field beyond the confines of the classroom.
  - The curriculum is designed based on Outcome Based Education (OBE) approach.
  - The curriculum follows Choice-Based Credit System (CBCS): This system allows students to select courses from a prescribed list. A specified number of credits must be earned to award the degree
  - The curriculum follows the basic framework, course wise/programme-wise minimum/maximum credits set by the University of Kerala for FYUGP and abides by the basic mandatory principles of **Four Year Under Graduate Programmes (UoK-FYUGP) Regulations, 2024.**
  - **About Economics Discipline**

Economics is the study of how individuals, businesses, government and societies allocate resources to satisfy their needs and wants. It examines the production,

distribution, and consumption of goods and services, as well as the behaviour of markets and the factors influencing them. Through the analysis of economic principles, theories, and models, the students gain insights into decision-making processes, the effects of policies, and the functioning of economies at various levels - local, national and global. Economics equips learners with analytical skills to understand and address the complex socio-economic issues, fostering informed citizenship and guiding effective policy making.

### **Graduate Attributes and Programme Outcomes (POs):**

The National Higher Education Qualification Framework (NHEQF) envisages that students on completion of a programme of study must possess and demonstrate the expected graduate profile/attributes acquired through one or more modes of learning. The graduate profile/attributes indicate the quality and feature or characteristics of the graduate of a programme of study, including learning outcomes relating to the disciplinary area(s) relating to the chosen field(s) of learning and generic learning outcomes that are expected to be acquired by a graduate on completion of the programme(s) of study. The graduate profile/attributes include capabilities that help widen the current knowledge base and skills, gain and apply new knowledge and skills, undertake future studies independently, perform well in a chosen career, and play a constructive role as a responsible citizen in the society. The graduate profile/attributes are acquired incrementally and describe a set of competencies that are transferable beyond the study of a particular subject/disciplinary area and programme contexts in which they have been developed. Graduate profile/attributes are fostered through meaningful learning experiences made available through the curriculum and learning experience, the total college/university experience, and a process of critical and reflective thinking. Mar Ivanios College (Autonomous) is fully committed to ensuring the attainment of the necessary graduation attributes by the students. The college has clearly defined its *raison de'tre*, the philosophy of its existence, through the Motto "Truth Shall Liberate You" (*Veritas Vos Liberabit*) which refers to the ultimate enlightenment which can emerge only at the intersection of sharp intellect, sound physique, strong mind, staunch ethics, and profound spirituality. This is further made explicit through its Vision, Mission and Goals and the same expect all students who graduate from the college to:



1. Have inculcated “the values of truth and charity for the protection and promotion of human dignity and of a cultural heritage, through teaching, research, and extension activities dedicated to society”;
2. Be co-creators of a vibrant academic community known for its innovation, intellectual rigour and social commitment;
3. Be “intellectually trained, morally upright, socially committed, spiritually inspired and ecologically conscious young men and women who would be dedicated to working for the good of society, the nation and the world”;
4. Have acquired “global competencies and skills”;
5. Have inculcated a sense of harmony, equality and fraternity among youth, transcending religious, linguistic, regional or sectional diversities; and
6. Have developed “scientific temper, humanism and the spirit of inquiry and reform”.

Programme Outcomes are the expected student attributes achieved by a student after the student completes the FYUGP from any of the streams/pathways.

The Programme Outcomes (POs) for the FYUGP programmes across all streams and pathways, based on the above core philosophy, and in consonance with the National Higher Education Qualifications Framework (NHEQF) are given below:

**By the end of the Four-Year Under-Graduate Programme, students will:**

<b>PO 1</b>	<p><b>Demonstrate the acquisition of all necessary knowledge and skills within their disciplinary/ multi-disciplinary areas of learning. These include the acquisition of:</b></p> <ul style="list-style-type: none"> <li>• <b>comprehensive knowledge and coherent understanding of their chosen disciplinary/ interdisciplinary areas of study, their linkages with related fields, and the awareness of current trends in their chosen area of study;</b></li> <li>• <b>essential knowledge for skilled work in chosen field(s), including self-employment and entrepreneurship skills;</b></li> <li>• <b>proficiency in specialized areas within chosen fields of study, encompassing diverse practical skills applicable to different situations within those fields;</b></li> <li>• <b>the ability to apply learned knowledge to novel situations, solve problems, and relate concepts to real-world scenarios rather than just memorizing curriculum content.</b></li> </ul>
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<b>PO 2</b>	<p><b>Acquire problem-solving, critical thinking, analytical reasoning skills and demonstrate creativity in their thought processes</b> by demonstrating the ability to:</p> <ul style="list-style-type: none"> <li>• solve different kinds of problems in familiar and non-familiar contexts both within and outside their disciplinary/ multidisciplinary areas of learning;</li> <li>• apply analytic thought to a body of knowledge, including the analysis and evaluation of policies, and practices, as well as evidence, arguments, claims, and beliefs;</li> <li>• analyse and synthesize data from a variety of sources and draw valid conclusions and support them with evidence and examples.</li> <li>• the ability to plan, execute and report the results of an experiment or investigation;</li> <li>• adhere to scientific temper and ethics in their thought process;</li> <li>• adopt innovative, imaginative, lateral thinking, interpersonal skills and emotional intelligence; and</li> <li>• incubate entrepreneurial and start-up ideas.</li> </ul>
<b>PO 3</b>	<p><b>Develop a profound environmental dedication by fostering ecological awareness and engaging in actions that promote sustainable development</b> by achieving the ability to</p> <ul style="list-style-type: none"> <li>• recognize environmental and sustainability issues, and participate in actions to promote sustainable development as well as mitigate the effects of environmental degradation, climate change, and pollution;</li> <li>• contribute to effective waste management, conservation of biological diversity, management of biological resources and biodiversity, forest and wildlife conservation, sustainable development and living, and the preservation of life in all forms.</li> <li>• participate in community-engaged services/ developmental activities and thus exemplify the ideals of community engagement and service learning and deep social commitment.</li> </ul>
<b>PO 4</b>	<p><b>Accomplish perfect communication, teamwork, and leadership skills, particularly in academic and professional settings, while demonstrating nuance and attention to etiquette in all communicative contexts.</b> This will enable them to:</p> <ul style="list-style-type: none"> <li>• listen carefully, and read texts and research documents, and present complex information with clarity and precision to different audiences;</li> <li>• express thoughts and ideas and communicate effectively through speech and writing using appropriate media;</li> <li>• communicate using language which is respectful of gender and</li> </ul>

	<p>minority orientations;</p> <ul style="list-style-type: none"> <li>• act together as a group or a team in the interests of a common cause and working efficiently as a member of a team;</li> <li>• inspire the team with a vision to achieve a stated goal, and use management skills to guide the team in the right direction.</li> </ul>
<b>PO5</b>	<p><b>Acquire the necessary skills, including ‘learning to learn’ skills, and foster innovative ideas to improve competence and employability, keeping pace with the evolving global landscape and technological advancements</b> by demonstrating the ability to:</p> <ul style="list-style-type: none"> <li>• pursue learning activities throughout life, through self-paced and self-directed learning aimed at personal development, meeting economic, social, and cultural objectives, and adapting to changing trades and demands of the workplace, including adapting to the changes in work processes in the context of the fourth industrial revolution, through knowledge/ skill development/reskilling;</li> <li>• work independently, identify appropriate resources required for further learning;</li> <li>• acquire organizational and time management skills to set self-defined goals and targets with timelines;</li> <li>• be a proactive life-long learner.</li> <li>• use ICT in a variety of learning and work situations;</li> <li>• access, evaluate, and use a variety of relevant information sources, and use appropriate software for analysis of data;</li> <li>• navigate cyberspaces by following appropriate ethical principles and cyber etiquette.</li> <li>• use cutting edge AI tools with equal commitment to efficiency and ethics.</li> <li>• think ‘out of the box’ and generate solutions to complex problems in unfamiliar contexts;</li> </ul>
<b>PO6</b>	<p><b>Develop research-related skills including the ability to conceptualize research hypotheses/projects and adopt suitable tools and methodologies for analysis</b> with:</p> <ul style="list-style-type: none"> <li>• a keen sense of observation, inquiry, and capability for asking relevant/ appropriate research questions;</li> <li>• the ability to problematize, synthesize, and articulate issues and design research proposals;</li> <li>• the ability to define problems, formulate appropriate and relevant research questions, formulate hypotheses, test hypotheses using quantitative and qualitative data, establish hypotheses, make inferences based on the analysis and interpretation of data, and predict cause-and effect relationships;</li> </ul>

	<ul style="list-style-type: none"> <li>• the capacity to develop appropriate methodology and tools for data collection;</li> <li>• the appropriate use of statistical and other analytical tools and techniques;</li> <li>• the ability to plan, execute and report the results of an experiment or investigation;</li> <li>• the ability to acquire the understanding of basic research ethics and skills in practicing/doing ethics in the field/ in personal research work, regardless of the funding authority or the field of study</li> </ul>
PO7	<p><b>Assimilate a sound value system, a sense of autonomy, multicultural competence, social commitment, and the spirit of inclusivity and empathy by imbibing the spirit and the holistic ethos of the ‘Multi-Dimensional Ivanian’ (MDI) approach.</b> This will enable them to:</p> <ul style="list-style-type: none"> <li>• embrace and practice constitutional, humanistic, ethical, and moral values in life, including universal human values of integrity, truth, righteous conduct, peace, love, nonviolence, scientific temper, citizenship values;</li> <li>• identify ethical issues related to work, follow ethical practices and be objective, unbiased, and truthful actions in all aspects of work, including avoiding unethical behaviour such as fabrication, falsification or misrepresentation of data, or committing plagiarism, and adhering to intellectual property rights;</li> <li>• exercise responsibility and demonstrate accountability in applying knowledge and/or skills in work and/or learning contexts appropriate for the level of the qualification, including ensuring safety and security at workplaces;</li> <li>• practice responsible global citizenship required for responding to contemporary global challenges, enabling learners to become aware of and understand global issues and to become active promoters of more peaceful, tolerant, inclusive, secure, and sustainable societies;</li> <li>• effectively engage in a multicultural group/society and interact respectfully with diverse groups;</li> <li>• identify with or understand the perspective, experiences, or points of view and emotions of another individual or group.</li> <li>• demonstrate gender sensitivity and adopt a gender-neutral approach, as also empathy for the less advantaged and the differently-abled including those with learning disabilities;</li> <li>• demonstrate proficiency in arts/ sports/ games, physical, mental and emotional fitness, entrepreneurial /organizational /pubic speaking/environmental/ community-oriented areas by actively participating in the wide range of co-curricular activities that are available to the students of Mar Ivanios College.</li> </ul>

## Programme Specific Outcomes (PSOs)

In conformity with the POs, the Programme Specific Outcomes (PSOs) of the Major in Economics are drafted as given below:

1. Explore the theoretical underpinnings, conceptual foundations and methodological framework of Economics.
2. Examine a broad spectrum of development challenges and offer pragmatic solutions.
3. Enhance cognitive, analytical, and research proficiencies emphasizing digital technologies and adapting to software innovations.
4. Engage with institutions and markets, ensuring the integration of sustainable development principles.
5. Strengthen leadership and communication skills through managerial capacity building.
6. Encourage creativity, uphold ethical values, and advocate for ethical conduct in every aspect of life.

## Course and Credit Structure of FYUGP

The pathway preferably followed by the department will be Major with Minor or Major with multiple disciplines of study.

The Course and Credit Structure of FYUGP is given below:

Sem	DSC (4 Cr)	DS E (4 Cr)	AEC (3 Cr)	SEC (3 Cr)	MDC (3 Cr)	VAC (3 Cr)	Internshi p (credit- 2)/ Project/ Addition al Courses (credit- 12)	Total course s	Total credit s
<b>I</b>	A-1 B-1 C-1		AEC (Eng)-1 AEC(O L)-2		MDC-1			6	21
<b>II</b>	A-2 B-2 C-2		AEC (Eng)-3 AEC(O		MDC-2			6	21

			L)-4						
<b>III</b>	A-2 B-2 C-2	DS E A -1			MDC (Kerala Studies )-3	VAC -1		6	22
<b>IV</b>	A-4 A-5	DS E A-2		SEC- 1		VAC -2 VAC -3	Internship	6	21
<b>V</b>	A-6 A-7 A-8	DS E -3 DS E -4		SEC- 2				6	23
<b>VI</b>	A-9 A-10 A-11	DS E -5 DS E -6		SEC- 3				6	23
<b>Total</b>	A (11) B (3) C (3)	6	4	3	3	3	1*	36	133
<b>EXIT OPTION AVAILABLE AND STUDENTS WILL BE AWARDED UG DEGREE WITH MAJOR IN A</b>									
<b>VII</b>	A-12 A-13 B/C-4 B/C-5 B/C-6	DS E -7						6	24
<b>VIII</b>	MOO C course s A -14, A -15						Research Project/ Internship /Project or 03 courses - 12Cr	2+1**/ 3***	20
<b>Total</b>	A (15) B(3) C (3) B/C(3 )	7	4	3	3	3	1*+1**/ 3***	44+ 1* + 1**/ 3***	177

A – Major Discipline

B/C-Minor/Multiple discipline

\* - Mandatory Internship at the end of Semester 4

\*\* - Research Project/ Internship /Project as part of Honours with Research

\*\*\* - Additional courses of 4 credits each.

## Cr - Credits

- **Research group project for students exiting after UG 3 years:** Students who propose to exit after 3 Year UG programme can do a group project with an extra two credits to obtain research experience in discipline-specific areas of the program. The BoS can decide the number of students for the group and the evaluation criteria.
- Students will be able to take other pathways permissible under **University of Kerala Four Year Under Graduate Programmes (UoK-FYUGP) Regulations, 2024**, subject to the availability of courses/ faculty/infrastructure of the college.
- The Board of Studies shall prepare and publish a list of online courses at different levels before the commencement of classes in the respective semester offered in various online educational platforms recognised by the academic council of the college, which can be opted by the students for acquiring additional credits.
- **Field Trip / Study Tour :** A study tour to places of interest in India focusing on secularism and oneness promotes intercultural understanding, tolerance, and the appreciation of diversity, fostering the values of secularism and unity in a multicultural society. Field visits provide students with practical, hands-on experiences that enhance their understanding of theoretical concepts taught in the classroom. By seeing and experiencing real-world applications of what they learn, students are better equipped to grasp and retain knowledge. This engagement can lead to improved academic performance and a deeper comprehension of the subject matter.  
Hence, Field Trip will be part of the 3 Year/4 Year UG Programme majoring in B.A. Economics offered by the Department of Economics, Mar Ivanios College (Autonomous). The number of days for the field trip will be decided by the Principal in consultation with the BoS and the College Council.

## Course Participation/Attendance-

1. student shall be permitted to register for the end-semester evaluation of a specific course to acquire the credits only if the student has completed 75% of the prescribed classroom activities in physical, online, or blended modes, as stipulated by the BoS, including any makeup activities as specified by the faculty of that particular course.
2. The reasons/cases of permissible authorised leave shall be specified by the college, with the approval of the Academic Council, ratified by the Governing Body.
3. The condonation facility shall be availed as per the existing University/college norms.

## Assessment and Evaluation

1. The assessment of a course shall combine a Continuous Comprehensive Assessment (CCA) and an End Semester Evaluation (ESE).
2. For courses without practical/lab modules, 30% weightage shall be given for CCA and the remaining 70% of the weight shall be for the ESE.
3. CCA will have two sub-components: Formative Assessment (FA) and Summative Assessment (SA).
4. The CCA subcomponents will be given marks as per the following proportions:
  - Discipline specific summative assessment - 15% of the total
  - Course attendance (Formative) - 5 % of the total.
  - Discipline specific formative assessment - 10% of the total.
5. The details of summative and formative assessment criteria, including that of attendance, will be specified by each course coordinator at the beginning of the semester, with the approval of the respective Head of the Department/BoS Chairperson and the Principal, and will be published on the college website.
6. For courses with practical/lab modules, 40% weightage shall be given for CCA and the remaining 60% of the weight shall be for the ESE.
7. In such cases specified in the item above, the CCA subcomponents will be given marks as per the following proportions:
  - Discipline specific summative assessment - 10% of the total
  - Course attendance (Formative) - 5 % of the total.
  - Discipline specific formative assessment - 15% of the total.
  - Summative Assessment (Practical Record, Practical test, skill, etc). - 10% of the total

The above is given in detailed tabular form as follows:

Sl. No.	Activity	Percentage (%) of the total	
		Theory courses	Courses with practical



1.	Summative Assessment (written Test or any other discipline specific assessment tools like Open book test, Lab reports, problem-based assignments, individual or team project report, case study report, literature survey, book reviews, video/film/documentary productions, etc)	15	10
2.	Summative Assessment (Practical	-----	10
3.	Formative Assessment (Attendance)	5	5
4.	Formative Assessment (Class room activities, observation of skills, viva voce, quiz, interview, oral presentations, in class discussions, computerized adaptive testing, group tutorial work, reflection writing assignments, field study reports, self and peer assessments, service-learning activities, etc.)	10	15
	Total	30	40

3. The Course Coordinator shall be responsible for evaluating all the components of CCA for the course in question. Any grievances regarding the same shall be submitted to the Course Coordinator within 5 days of the publication of the same on the department notice board or official class group. If the grievance is not settled at the Course Coordinator level, the student is free to appeal to the Head of the Department, within the next 3 days, who will discuss the same in the Department Level Monitoring Committee (DLMC). If still needed, students can further appeal to the College Level Monitoring Committee (CLMC) or in essential situations the University Level Monitoring Committee (ULMC) in a time period as specified by these bodies.

- Regarding evaluation, one credit will be evaluated for 20 marks in a semester; thus, a 4-credit course will be evaluated for 80 marks, and 3-credit courses for 60 marks. However, any changes to this if brought by the University will be followed.
- The duration of the end semester examination of a course with 4 credits will be 2 hours and the same for a course with 3 credits may be 1.5 hours/2 hours.

### Mark Distribution Table

Course	Credit		Marks		Lecture			Practical		
	Lecture	Practical	Lecture	Practical	CCA (30%)		ESE (70%)	CCA (40%)		ESE (60%)
					SA (50%)	FA (50%)		SA (50%)	FA (50%)	
4 credit courses	4	0	80	0	12	12	56	0	0	0
	3	1	60	20	9	9	42	4	4	12
	2	2	40	40	6	6	28	8	8	24
	1	3	20	60	3	3	14	12	12	36
	0	4	0	80	0	0	0	16	16	48
3 credit courses	Credits		Marks		Lecture			Practical		
	Lecture	Practical	Lecture	Practical	CCA (30%)		ESE (70%)	CCA (40%)		ESE (60%)
					SA (50%)	FA (50%)		SA (50%)	FA (50%)	
	3	0	60	0	9	9	42	0	0	0
	2	1	40	20	6	6	28	4	4	12
	1	2	20	40	3	3	14	8	8	24
0	3	0	60	0	0	0	12	12	36	

### Letter Grades and Grade Point

- A mark system is followed to evaluate each question. For each course in the semester, letter grades and grade points are introduced in a 10-point indirect grading system as per the guidelines given below.
- The Semester Grade Point Average (SGPA) is computed from the grades to measure the student's performance in a given semester. The SGPA is based on the current term's grades, while the Cumulative Grade Point Average (CGPA) is based on the grades in all courses taken after joining the programme of study.
- The weighted grade point will be mentioned in the student's final grade cards, issued by the college, based on the marks obtained.

4. The grades and grade points will be given as per the following format:

Letter Grade	Grade Point	Percentage of marks (X) (CCA + ESE together)	Class
<b>O (Outstanding)</b>	10	$X \geq 95\%$	FIRST CLASS WITH DISTINCTION
<b>A+ (Excellent)</b>	9	$85\% \leq X < 95\%$	
<b>A (Very Good)</b>	8	$75\% \leq X < 85\%$	
<b>B+ (Good)</b>	7	$65\% \leq X < 75\%$	FIRST CLASS
<b>B (Above Average)</b>	6	$55\% \leq X < 65\%$	
<b>C (Average)</b>	5	$45\% \leq X < 55\%$	SECOND CLASS
<b>P (Pass)*</b>	4	$35\% \leq X < 45\%$	THIRD CLASS
<b>F (Fail)</b>	0	$X < 35\%$	FAIL
<b>Ab (Absent)</b>	0		FAIL

- For a course PASS, separate minimum of 35% is needed for CCA and ESE.
- Less than 35% in either ESE or CCA is FAIL.

### Computation of SGPA and CGPA

SGPA (Semester Grade Point Average) and CGPA (cumulative Grade Point Average) will be computed as follows:

1. The SGPA is the ratio of the sum of the product of the number of credits with the grade points scored by a student in all the courses taken by a student and the sum of the number of credits of all the courses undergone by a student in the semester. That is,

$$S_j = \frac{\sum(C_{ij} \times G_{ij})}{\sum C_{ij}}$$

where  $S_j$  is the SGPA in the  $j^{\text{th}}$  semester,

$C_{ij}$  is the number of credits for the  $i^{\text{th}}$  course in the  $j^{\text{th}}$  semester, and

$G_{ij}$  is the the grade point scored by the student in the  $i^{\text{th}}$  course in the  $j^{\text{th}}$  semester.

2. The CGPA is also calculated in the same manner considering all the courses undergone by a student over all the semesters of a programme. That is,

$$CGPA = \frac{\sum(C_i \times S_i)}{\sum C_i}$$

8. where  $S_i$  is the SGPA in the  $i^{\text{th}}$  semester and

$\sum C_i$  is the total number of credits in the  $i^{\text{th}}$  semester.

3. The SGPA and CGPA shall be rounded to 2 decimal points and reported in the transcripts
4. **Requirement for the successful completion of a Semester:** SGPA of 4 or above and a PASS in all the courses, that is, minimum total of 35% mark in each course (CCA + ESE), with a separate minimum of 35% mark for both CCA and ESE. Appropriate and permissible rules of rounding off numbers may be adopted as per decisions of the Academic Council.

Ms. LIJI D

Chairman BoS  
(Economics, History and Political Science)  
Mar Ivanios College (Autonomous),  
Thiruvananthapuram  
Thiruvananthapuram

10-05-2024

**LIST OF COURSES**

Course Code	Course Title	Course Category	Credits	Hour distribution per week		
				L	T	P
<b>SEMESTER I   Academic Level 100-199</b>						
MIUK1DSCECO 100.1	Introductory Microeconomics	DSC (A1 – Major)	4	4		
MIUK1DSCECO101.1	Introduction to Economics	DSC (B1 – Minor)	4	4		
MIUK1DSCECO 102.1	Contours of Indian Economy	DSC (C1 – Minor)	4	4		
MIUK1MDCECO 100.1	Economics in Practice	MDC	3	3		
<b>SEMESTER II   Academic Level 100-199</b>						
MIUK2DSCECO 150.1	Introductory Macroeconomics	DSC (A2 – Major)	4	4		
MIUK2DSCECO 151.1	Money and Banking	DSC (B2 – Minor)	4	4		
MIUK2DSCECO 152.1	Economic History of Independent India	DSC (C2 – Minor)	4	4		
MIUK2MDCECO 150.1	Media and Communication Economics	MDC	3	3		
<b>SEMESTER III   Academic Level 200-299</b>						
MIUK3DSCECO 200.1	Intermediate Microeconomics	DSC (A3 – Major)	4	4		
MIUK3DSCECO 201.1	Economics of Business and Innovation	DSC (B3 – Minor)	4	4		
MIUK3DSCECO 202.1	Managerial Economics	DSC (C3 – Minor)	4	4		
MIUK3DSEECO 200.1	Behavioural Economics	DSE	4	4		
MIUK3DSEECO 201.1	Economics of Insurance	DSE	4	4		
MIUK3VACECO 200.1	Environmental Issues and Management	VAC	3	3		
<b>SEMESTER IV   Academic Level 200-299</b>						
MIUK4DSCECO 250.1	Intermediate Macroeconomics	DSC (A4 – Major)	4	4		
MIUK4DSCECO 251.1	Mathematical Methods for Economic Analysis	DSC (A5 – Major)	4	4		

MIUK4DSEECO 250.1	Environmental Economics	DSE	4	4		
MIUK4DSEECO 251.1	Foundations of Data Science	DSE	4	4		
MIUK4VACECO 250.1	Women and Development	VAC	3	3		
MIUK4VACECO 251.1	Disaster Management	VAC	3	3		
MIUK4SECECO 250.1	Economics of Startups	SEC	3	3		
MIUK4INTECO 250.1	Summer Internship (Mandatory)	INT				
<b>SEMESTER V   Academic Level 300-399</b>						
MIUK5DSCECO 300.1	Economics of Growth and Development	DSC (A6 – Major)	4	4		
MIUK5DSCECO 301.1	Financial System and Markets	DSC (A7 – Major)	4	4		
MIUK5DSCECO 302.1	Statistical Methods for Economic Analysis	DSC (A8 – Major)	4	4		
MIUK5DSEECO 300.1	Public Economics	DSE	4	4		
MIUK5DSEECO 301.1	Research Methodology for Economics	DSE	4	4		
MIUK5DSEECO 302.1	Artificial Intelligence and Machine Learning in Economics	DSE	4	4		
MIUK5SECECO 300.1	Security Analysis and Portfolio Management	SEC	3	3		
<b>SEMESTER VI   Academic Level 300-399</b>						
MIUK6DSCECO 350.1	International Economics	DSC (A9 – Major)	4	4		
MIUK6DSCECO 351.1	Indian Economy	DSC (A10 – Major)	4	4		
MIUK6DSCECO 352.1	Econometric Analysis	DSC (A11 – Major)	4	4		
MIUK6DSEECO 350.1	Gender Economics	DSE	4	4		
MIUK6DSEECO 351.1	Kerala Economy	DSE	4	4		
MIUK6DSEECO 352.1	Financial Econometrics	DSE	4	4		
MIUK6SECECO 350.1	Data Analysis using Spreadsheet and R-Programming	SEC	3	3		

MIUK6SECECO 351.1	Academic Writing in Economics	SEC	3	3		
<b>SEMESTER VII   Academic Level 400-499</b>						
MIUK7DSCECO 400.1	Advanced Microeconomics	DSC (A12 – Major)	4	4		
MIUK7DSCECO 401.1	Advanced Macroeconomics	DSC (A13 – Major)	4	4		
MIUK7DSEECO 400.1	Open Economy Macroeconomics	DSE	4	4		
MIUK7DSEECO 401.1	Mathematical Methods for Economic Analysis II	DSE	4	4		
<b>SEMESTER VIII   Academic Level 400-499</b>						
MIUK8CIPECO 450.1	Capstone Internship (Mandatory for UG Honours)					

**SPECIALIZATION:** Adequate Discipline Specific Elective (DSE) specialisation courses will be provided in Developmental Studies/Data Analytics and hence the students will be able to acquire 3 Year/4 Year (Honours) UG degree majoring in Economics with specialisation in Developmental Studies/Data Analytics.

## SEMESTER I



## Mar Ivanios College (Autonomous)

<b>Discipline</b>	<b>ECONOMICS</b>				
<b>Course Code</b>	MIUK 1DSCECO 100.1				
<b>Course Title</b>	INTRODUCTORY MICROECONOMICS				
<b>Type of Course</b>	<b>DSC</b>				
<b>Semester</b>	I				
<b>Academic Level</b>	100 - 199				
<b>Course Details</b>	Credit	Lecture per week	Tutorial per week	Practical per week	Total Hours/Week
	4	4 hours	-	-	4
<b>Pre-requisites</b>	Basic knowledge of elementary economics				
<b>Course Summary</b>	This course provides an introduction to the fundamental concepts and principles of microeconomics. It covers topics such as consumer and producer behaviour, Demand and supply analysis, Production, cost and revenue and competitive market structures. Emphasis is placed on understanding the basic economic models and their applications to real-world issues.				



**Detailed Syllabus:**

Module	Unit	Content	Hrs
<b>I</b>	<b>THEORY OF CONSUMER BEHAVIOR</b>		<b>12</b>
	1	Concepts of Total and Marginal utility- Consumer preferences and choice-consumer equilibrium – cardinal utility and ordinal utility – law of diminishing marginal utility- consumer equilibrium under cardinal utility – derivation of demand curve - law of equimarginal utility – water-diamond paradox – criticisms of cardinal utility	
	2	Indifference curve analysis – characteristics – MRS - budget line – consumer equilibrium – income effect and Engel curve – price effect, income effect and substitution effect- derivation of demand curve – splitting price effect into income effect and substitution effect: Hicksian and Slutsky's approaches - criticisms of ordinal utility approach	
	3	Revealed preference theorem – derivation of demand curve – distinction between weak and strong ordering – consumer 's surplus	
<b>II</b>	<b>THEORY OF DEMAND AND SUPPLY ANALYSIS</b>		<b>14</b>
	4	Concepts of demand- Factors affecting demand- Law of demand- exceptions-demand for normal, inferior, substitute and complementary goods- Shifts of demand versus movements along a demand curve – Linear Demand Equation, Curve- elasticity of demand – Degrees- price elasticity of demand – determinants- methods of estimation – Total outlay, Point, and arc method – income elasticity of demand and cross elasticity of demand	
	5	Supply – supply schedule and supply curve – changes and	

		shifts in supply - elasticity of supply - measurement and application- market equilibrium and impact of changes in demand and supply – dynamic demand and supply model: Cobweb- Demand forecasting	
<b>III</b>	<b>PRODUCTION, COSTS AND REVENUE</b>		<b>10</b>
	6	Production-Production function-short run and long run production function-Total Product-Average product and Marginal Product-Production with one variable input- Law of diminishing marginal returns.	
	7	Long run production function-Production with two variable inputs- Isoquant -Iso-cost Approach-Producer Equilibrium- Expansion Path-Production when all factors are variable- Law of returns to scale-producer's surplus	
	8	Homogenous and Non homogenous production function, Cobb-Douglas Production function and CES Production Functions. Choice of production technology and economies of scale	
	9	Cost concepts: Types of cost incurred in production: Economic & Accounting cost, Opportunity cost, Sunk cost, Money & Real cost, Explicit & Implicit cost- Cost Minimization - Cost Function – I- Optimization Principal under Constraint -Cost Minimization - Properties of Cost functions Different concepts of cost in the short run and long run & their interrelations -Traditional and Modern cost curves-engineering cost	
	10	Concept of revenue- Total Revenue-Average revenue - Marginal Revenue-Concept of profit.	
		Mathematical treatment of Production Cost and revenue. Numericals' on different concepts of cost and revenue.	
<b>IV</b>	<b>COMPETITIVE MARKET STRUCTURE</b>		<b>12</b>

	11	Market – structure – perfect competition - characteristics – AR-MR relationships— short run equilibrium of a firm and industry–TR-TC and MC-MR approaches – derivation of supply curve - shutdown point – breakeven point -long run equilibrium of a firm and industry-Efficiency of a competitive market	
<b>V</b>	<b>REVIEW AND ASSESSMENT</b>		<b>12</b>
	12	On the basis of price effect, classify the goods you consume daily into normal, inferior and Giffen goods.	
	13	Visit a local vegetable market and identify whether it functions as a perfectly competitive. Give your inferences	

**Textbook**

1. Varian, H. R. (2014). Intermediate Microeconomics: A Modern Approach. W. W. Norton & Company.
2. A Koutsoyannis, (1979). Modern Microeconomics, Second Edition, Macmillan Education,

**Additional Readings**

1. Varian, H.R (2000): Intermediate Microeconomics: A Modern Approach, east West Press, New Delhi.
2. Salvatore, D (2008). Microeconomics: Theory and Practice, OUP,
3. Robert S. Pindyck, Daniel L. Rubinfeld (2018), Micro Economics, Pearson, Harlow, United Kingdom,
4. Paul A. Samuelson and William D. Nordhaus (2010), Economics, Nineteenth Edition, McGraw-Hill,

**Course Outcomes**

No.	Upon completion of the course the graduate will be able to	Cognitive	PSO addresse
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		Level	d
CO-1	Get an idea of the theoretical aspects of consumer behaviour	U	PSO-1
CO-2	Comprehend the microeconomic principles pertaining to demand and supply dynamics.	E	PSO1,3
CO-3	Differentiates short run and long run production function	U	PSO1,3
C04	Evaluates the price output determination in perfectly competitive markets and its strategies.	R, U	PSO1,3

**R-Remember, U-Understand, Ap-Apply, An-Analyse, E-Evaluate, C-Create**

*Note: 1 or 2 COs/module*

**Name of the Course: INTRODUCTORY MICROECONOMICS**

**Credits: 4:0:0 (Lecture:Tutorial:Practical)**

CO No.	CO	PO/PSO	Cognitive Level	Knowledge Category	Lecture (L)/Tutorial (T)	Practical (P)
CO-1	Get an idea of the theoretical aspects of consumer behaviour	PO1/PSO1	R, U	C	L	-
CO-2	Evaluates the price output determination in perfectly competitive markets and the strategies related to the same	PO1,2,5 /PSO1,3	E	C	L	-

CO-3	Get an idea of the theoretical aspects of consumer behaviour	PO1/PS O1	U	C	L	-
CO-4	Understands factor pricing and distribution in the economy	PO1/PS O1	R, U	C	L	-

**F-Factual, C- Conceptual, P-Procedural, M-Metacognitive**

### Mapping of COs with PSOs and POs

	PS O1	PS O2	PS O3	PS O4	PS O5	PS O6	PO 1	PO 2	PO 3	PO 4	PO 5	PO 6	PO 7
CO 1	3						2						
CO 2	3		2				3	2			2		
CO 3	3						3						
CO 4	3						3						

-

### Correlation Levels:

Level	Correlation
-	Nil
1	Slightly / Low
2	Moderate / Medium
3	Substantial / High

### Assessment Rubrics:

- Quiz / Assignment/ Quiz/ Discussion / Seminar
- Midterm Exam
- Programming Assignments
- Final Exam

**Mapping of COs to Assessment Rubrics :**

	<b>Internal Exam</b>	<b>Assignment</b>	<b>Project Evaluation</b>	<b>End Semester Examinations</b>
<b>CO 1</b>	✓			✓
<b>CO 2</b>	✓	✓		✓
<b>CO 3</b>	✓			✓
<b>CO 4</b>	✓	✓		✓



### Mar Ivanios College (Autonomous)

<b>Discipline</b>	<b>ECONOMICS</b>				
<b>Course Code</b>	MIUK1DSCECO 101.1				
<b>Course Title</b>	INTRODUCTION TO ECONOMICS				
<b>Type of Course</b>	<b>DSC</b>				
<b>Semester</b>	I				
<b>Academic Level</b>	100 - 199				
<b>Course Details</b>	<b>Credit</b>	<b>Lecture per week</b>	<b>Tutorial per week</b>	<b>Practical per week</b>	<b>Total Hours/Week</b>
	4	4hours	-	-	4
<b>Pre-requisites</b>	NIL				
<b>Course Summary</b>	<p>This course introduces students to the fundamental concepts and principles of economics. It provides a broad overview of both microeconomics and macroeconomics, covering topics such as supply and demand, market structures, national income accounting, inflation, unemployment, and economic growth. The course aims to develop students' understanding of how individuals, businesses, and governments make economic decisions and how these decisions impact the allocation of resources in society.</p>				

**Detailed Syllabus:**

Module	Unit	Content	Hrs
<b>I</b>	<b>METHODOLOGY OF SOCIAL SCIENCE</b>		<b>10</b>
	1	Emergence of Social science – Social science disciplines	
	2	Objectivity and Subjectivity in social science	
	3	Interdisciplinary approach	
	4	Economics as a social science subject	
<b>II</b>	<b>METHODOLOGY OF ECONOMICS</b>		<b>20</b>
	5	Definition, Nature, Scope and Subject matter of Economics  Deductive and Inductive approach  Positive and Normative economics  Microeconomics and Macroeconomics	
	6	Basic Economic Concepts: Scarcity, Choice, Opportunity Cost, production possibilities frontier  Economic activities – Production, Distribution, Consumption–  Factors of production	
	7	Three key issues – What to produce, Efficient production, Economic growth  Economic Systems: Capitalism, Socialism, Mixed Economy  Role of government in a mixed economy	
	8	Economic laws  Economic models and their applications	



		Role of Economics in Decision Making	
<b>III</b>	<b>BASICS OF MICRO AND MACRO ECONOMICS</b>		<b>20</b>
	9	Micro economic principles-Supply and Demand Analysis- Elasticity of Demand and Supply-	
	10	Consumer Behaviour and Utility Maximization	
	11	Production and costs	
	12	Market structure-Perfect Competition and Monopoly-Features	
	13	Basic assumptions of classical and Keynesian Macro Economics	
	14	Aggregate Demand and Aggregate Supply	
	15	Macroeconomic principles- Principles National Income Accounting	
	16	Fiscal and Monetary policy	
<b>IV</b>	<b>CONTEMPORARY ECONOMIC ISSUES</b>		<b>10</b>
	17	Poverty and Inequality: Causes and consequences of poverty and inequality in India: Economic inequality – Tools to measure inequality Unemployment - unemployment and under employment  Social security – Subsidies – Social banking – Financial inclusion	
	18	Inflation-causes and effects	
	19	International trade and development - Globalization – Global	

		– Financial Crisis	
<b>V</b>	<b>REVIEW AND ASSESSMENT</b>		<b>15</b>
	20	Conduct a debate on whether economics is a science or an art	
	21	List out certain goods on the basis of their elasticity of demand	
	22	Prepare a report based on a central government scheme for reduction of poverty and unemployment and analyse whether the scheme is able to achieve its objective	

**TEXTBOOK**

Samuelson, W. F., & Nordhaus, D. (2019). Economics (20th ed.). McGraw-Hill Education

**ADDITIONAL READINGS**

Mankiw, N. G. (2018). Principles of Economics (8th ed.). Cengage Learning.

Krugman, P., & Wells, R. (2017). Economics (5th ed.). Worth Publishers.

Mishra.S.K. and Puri. V.K., 2019, Indian Economy, 37th Edition, Himalaya Publishing House Private Ltd, Mumbai.

**Course Outcomes**

<b>No.</b>	<b>Upon completion of the course the graduate will be able to</b>	<b>Cognitive Level</b>	<b>PSO addressed</b>
CO-1	Understand the emergence and evolution of social science discipline	R, U	PSO1
CO-2	Examine the behaviour of individuals, firms, and government in economic decision-making	R, U	PSO1

CO-3	Analyse the basic principles of Micro and Macro Economics	An	PSO3
C04	Comprehend various contemporary economic issues and explore the role of government in the economy and its policy implications in solving the issues	U,E	PSO2,3

**R-Remember, U-Understand, Ap-Apply, An-Analyse, E-Evaluate, C-Create**

**Name of the Course: Credits: 4:0:0 (Lecture:Tutorial:Practical)**

CO No.	CO	PO/PSO	Cognitive Level	Knowledge Category	Lecture (L)/Tutorial (T)	Practical (P)
CO-1	Understand the emergence and evolution of social science discipline	PO1/PSO1	R, U	C	L	-
CO-2	Examine the behaviour of individuals, firms, and government in economic decision-making	PO1/PSO1	R, U	C	L	-
CO-3	Analyse the basic principles of Micro and Macro Economics	PO2/PSO3	An	C,F	L	-
CO-4	Comprehend various contemporary economic issues and explore the role of government in the economy and its policy	PO2,4,5 /PSO3,6	U, E	C, F, P	L	-

implications in solving the issues						
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**F-Factual, C- Conceptual, P-Procedural, M-Metacognitive**

### Mapping of COs with PSOs and POs :

	PS O1	PS O2	PS O3	PS O4	PS O5	PS O6	PO 1	PO 2	PO 3	PO 4	PO 5	PO 6	PO 7
CO 1	3						2						
CO 2	3						2						
CO 3			3					3					
CO 4			2			2		3		1	1		

### Correlation Levels:

Level	Correlation
-	Nil
1	Slightly / Low
2	Moderate / Medium
3	Substantial / High

### Assessment Rubrics:

Quiz / Assignment/ Quiz/ Discussion / Seminar

Midterm Exam

Programming Assignments

Final Exam

### Mapping of COs to Assessment Rubrics :

Internal Exam	Assignment	Project Evaluation	End Semester Examinations
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<b>CO 1</b>	✓	✓		✓
<b>CO 2</b>	✓	✓		✓
<b>CO 3</b>	✓			✓
<b>CO 4</b>	✓	✓		✓



<b>Discipline</b>	<b>ECONOMICS</b>				
<b>Course Code</b>	MIUK1DSCECO102.1				
<b>Course Title</b>	CONTOURS OF INDIAN ECONOMY				
<b>Type of Course</b>	<b>DSC</b>				
<b>Semester</b>	I				
<b>Academic Level</b>	100-199				
<b>Course Details</b>	Credit	Lecture per week	Tutorial per week	Practical per week	Total Hours/Week
	4	4 hours	-	-	4
<b>Pre-requisites</b>	A Basic Understanding of Economics and Indian Economy.				
<b>Course Summary</b>	This course offers a foundational grasp of the structural challenges encountered by the Indian Economy, delving into various sectors to provide valuable insights.				

### Detailed Syllabus:

Module	Unit	Content	Hrs
<b>I</b>	<b>Structural Issues in Indian Economy</b>		<b>10</b>
	1	Features of Indian Economy	
	2	Demographic features; Demographic Dividend.	
	3	Informal Sector; Gig Economy, Drawbacks.	
	4	Unemployment; Trends, Problems and Measures to overcome	
	5	Poverty and Inequality in India; Trends, Alleviation Programmes.	
<b>II</b>	<b>Status of Indian Agriculture</b>		<b>10</b>
	6	Role of Agriculture in Indian Economy – Green Revolution	
	7	Growth Trends in Agriculture; Productivity -Public Expenditure on Agriculture	

	8	Agriculture Marketing; Challenges and Policies .	
	9	Agriculture Finance in India ; Role of NABARD .	
<b>III</b>	<b>Challenges in Industrial and Service Sector</b>		<b>13</b>
	10	Industrial Sector ; Role, Sectoral Contribution , Organized and Unorganized , Start ups and Innovation; Industrial Policies in India ; Features and Impact.	
	11	Role of PSEs – Role of MSMEs	
	12	Service Sector in India ; Role, Sectoral Composition	
	13	E-Commerce and Digital Economy	
<b>IV</b>	<b>Public Policy and Foreign Trade</b>		<b>15</b>
	14	Issues in Public Debt, Public Expenditure .	
	15	Bop status in India – Direction and Composition of Foreign Trade	
	16	Fiscal Federalism in India; Emerging Challenges	
	17	Stabilizing Inflation; The Role of Monetary Policy and Fiscal Policy – RBI and Credit Control Measures.	
<b>V</b>	<b>Understanding the Indian Economy : Case Studies</b>		<b>12</b>
	18	Compose a comprehensive report discussing the challenges currently faced by the Indian economy, while also exploring its potential opportunities for growth and development.	
	19	Construct a detailed assessment of India's trade deficits and surpluses with its major trading partners, along with an analysis of the implications for the Indian economy.	

### Textbook

- Basu, K., & Maertens, A. (Eds.). (2012). The New Oxford Companion to Economics in India (3<sup>rd</sup> ed.). Oxford University Press. ISBN-13: 9780198078555.

### Additional Readings

- Kapila, U. (Ed.). (2008). Indian Economy since Independence. Academic Foundation.
- Ghosh, C., & Ghosh, A. (2016). Indian Economy: A Macro-Theoretic Analysis. PHI Learning Pvt Ltd..
- Goyal, A. (2014). Handbook of the Indian Economy in the 21<sup>st</sup> Century: Understanding the Inherent Dynamism. Oxford University Press.

## Course Outcomes

No.	Upon completion of the course the graduate will be able to	Cognitive Level	PSO addressed
CO-1	Understand the Structural issues of the Indian Economy	U R,	PSO-1,2,3
CO-2	Examine the prospects and problems of the Agriculture Sector	Ap, U	PSO-1,2,3,4
CO-3	Analyze the role and challenges of Industrial and Service sector	An, Ap	PSO-1,2,3
CO-4	Evaluate the significance of public policy and trade	E, Ap	PSO-1,2,3,6

*R-Remember, U-Understand, Ap-Apply, An-Analyse, E-Evaluate, C-Create*

*Note: 1 or 2 COs/module*

**Name of the Course: Credits: 4:0:0 (Lecture: Tutorial: Practical)**

CO No.	CO	PO/PSO	Cognitive Level	Knowledge Category	Lecture (L)/ Tutorial (T)	Practical (P)
CO-1	Understand the Structural issues of the Indian Economy	PO-1,2,5 PSO-1,2,3	U,R	C	L	-
CO-2	Examine the prospects and problems of the agricultural sector	PO-1,2,5 PSO-1,2,3,4	Ap, U	C, F	L	-
CO-3	Analyze the role and challenges of industrial and service sector	PO-1,2,5 PSO-1,2,3	An, Ap	F,M	L	-
CO-4	Evaluate the significance of public policy and trade	PO-1,2, 5 PSO-1,2,3,6	E, Ap	P, M	L	-

**F-Factual, C- Conceptual, P-Procedural, M-Metacognitive**



**Mapping of COs with PSOs and POs :**

	PSO 1	PSO 2	PSO 3	PSO 4	PSO 5	PSO 6	PO 1	PO 2	PO 3	PO 4	PO 5	PO 6	PO 7
<b>CO 1</b>	3	2	1	-	-	-	3	2	-	-	1	-	-
<b>CO 2</b>	2	3	1	1	-	-	3	2	-	-	1	-	-
<b>CO 3</b>	2	3	1	-	-	-	2	3	-	-	1	-	-
<b>CO 4</b>	2	3	1	-	-	1	2	3	-	-	1	-	-

**Correlation Levels:****Mapping of COs to Assessment Rubrics :**

	Internal Exam	Assignment	Project Evaluation	End Examinations	Semester
<b>CO 1</b>	✓	-	-	✓	
<b>CO 2</b>	✓		-	✓	
<b>C03</b>	✓			✓	
<b>CO4</b>	✓			✓	



### Mar Ivanios College (Autonomous)

<b>Discipline</b>	<b>ECONOMICS</b>				
<b>Course Code</b>	MIUK1MDCECO100.1				
<b>Course Title</b>	ECONOMICS IN PRACTICE				
<b>Type of Course</b>	<b>MDC</b>				
<b>Semester</b>	I				
<b>Academic Level</b>	100-199				
<b>Course Details</b>	Credit	Lecture per week	Tutorial per week	Practical per week	Total Hours/Week
	3	3 hours	-	-	3
<b>Pre-requisites</b>	A keen interest to know about the basic concepts in Economics				
<b>Course Summary</b>	This course aims to equip students for understanding current economic issues and illustrating how economic concepts can be applied to analyze real-life situations.				

### Detailed Syllabus:

Module	Unit	Introduction to Economics	Hrs
I	1	Subject matter of Economics-Need & Scope of Studying Economics	
	2	Branches of Economics	09
	3	Basic Problems of an Economy	
	4	Theory of Supply and Demand ; How Markets Work?	
II	<b>Foundations of Macroeconomics</b>		<b>09</b>
	5	National Income; GDP,GNP,NNP,NDP, and GVA ; at current price and constant price, Green Accounting .	
	6	Inflation; Types, Causes and Effects- Deflation-Stagflation.;	
	7	Inflation Indices;WPI and CPI	
	8	Counter policy Measures; Fiscal and Monetary Policy.	
	9	Business Cycles ; Meaning and Phases.	
III	<b>Socio-Economic Issues in India</b>		<b>09</b>

	10	Poverty –poverty line; Types, Measures and Programs; Estimation in India.		
	11	Inequality – Features; Various Indices		
	12	Employment and Unemployment; trends, types, measures and programs- Educated Unemployment		
<b>IV</b>	<b>Banking , Capital Market, and International Trade</b>			<b>09</b>
	13	History of Banking in India- RBI and Instruments of Credit control- NABARD - E- Banking.		
	14	Fintech – Blockchain – Cryptocurrency- CBDC.		
	15	Capital Market- Components; Instruments ; and Trading- SEBI; Functions		
	16	Stock Exchanges – Meaning and functions – BSE and NSE ;		
	17	International Trade ; Direction and Composition, Major Trading Partners.		
<b>V</b>	<b>Student Activity</b>			<b>09</b>
	18	Prepare a report on the basic issues faced by Indian Economy		
	19	Evaluate the major Poverty Alleviation Programmes in India		
	20	Prepare an assignment on RBI’s Inflation Targeting Policy In India		

### Textbook

- Dobson, S., & Palfreman, S. (1999). Introduction to Economics. Oxford University Press.
- Mishkin, F. S., & Eakins, S. G. (2011). Financial Markets and Institutions (3<sup>rd</sup> ed.). Pearson Education.

### Additional Readings

- Banik, N. The Indian Economy: A Macroeconomic Perspective. Sage Publications.
- Reserve Bank of India. (n.d.). New Monetary Aggregates. Retrieved from <https://www.rbi.org.in/scripts/publicationReportDetails.aspx?ID>

- Ghate, C. (Ed.). The Oxford Handbook of Indian Economy. Oxford University Press.
- Rakshit, M. (2011). Inflation and Relative Prices in India 2006-10: Some Analytical and Policy Issues. Economic & Political Weekly (EPW), April 16, 2011, 46(16).
- Faboozi, J. F., & Modigliani, F. (2008). Capital Markets: Institutions and Instruments(4th ed.). Pearson Education, New Delhi.

### Course Outcomes

No.	Upon completion of the course the graduate will be able to	Cognitive Level	PSO addressed
CO-1	Understand the Basic concepts in the subject of	U, R	PSO-
CO-2	Examine the macroeconomic foundations of the economy	Ap,U	PSO-1,2,3
CO-3	Analyze the socio-economic issues in Indian	An, Ap	PSO-
CO-4	Evaluate the structure and role of Financial Markets and Trade in Indian Economy.	E, An	PSO-2,3,4

*R-Remember, U-Understand, Ap-Apply, An-Analyse, E-Evaluate, C-Create*

*Note: 1 or 2 COs/module*

**Name of the Course: Credits: 4:0:0 (Lecture:Tutorial:Practical)**

### Correlation Levels:

	PS O1	PS O2	PS O3	PS O4	PS O5	PS O6	PO 1	PO 2	PO 3	PO 4	PO 5	PO 6	PO 7
CO1	3	2	1	-	-	-	3	2	-	-	-	-	-
CO2	2	3	1	-	-	-	3	2	-	-	-	-	-
CO3	2	3	1	-	-	-	2	3	-	-	1	-	-
CO4	-	3	1	2	-	-	2	3	-	-	1	-	-

Level	Correlation
-	Nil
1	Slightly / Low
2	Moderate / Medium
3	Substantial / High

**F-Factual, C- Conceptual, P-Procedural, M-Metacognitive**

**Assessment Rubrics:**

- Quiz / Assignment/ Quiz/ Discussion / Seminar
- Midterm Exam
- Programming Assignments
- Final Exam

**Mapping of COs to Assessment Rubrics :**

	Internal Exam	Assignment	Project Evaluation	End Semester Examinations
<b>CO 1</b>	✓	-	-	✓
<b>CO 2</b>	✓	-	-	✓
<b>CO 3</b>	✓	-	-	✓
<b>CO 4</b>	✓	✓	-	✓



### Mar Ivanios College (Autonomous)

<b>Discipline</b>	<b>ECONOMICS</b>				
<b>Course Code</b>	MIUK 2DSCECO 150.1				
<b>Course Title</b>	INTRODUCTORY MACROECONOMICS				
<b>Type of Course</b>	<b>DSC</b>				
<b>Semester</b>	I1				
<b>Academic Level</b>	200 - 299				
<b>Course Details</b>	Credit	Lecture per week	Tutorial per week	Practical per week	Total Hours/Week
	4	4 hours	-		4
<b>Pre-requisites</b>	Nil				
<b>Course Summary</b>	This course provides an in-depth analysis of basics of macroeconomics, national income accounting, classical and Keynesian theories of income, output, and employment, components of aggregate demand and their determinants and money, interest and prices, Students will examine the fundamental principles of macroeconomics, including equilibrium output and employment, the role of money, prices, and interest rates, and the factors influencing consumption and investment behaviour.				

**Detailed Syllabus:**

Module	Unit	Content	Hrs
<b>1</b>		<b>Basics Of Macro Economics And National Income Accounting</b>	<b>10</b>
	1	Micro and Macroeconomics - Macro statics and macro dynamics- Macro economic variables: Stock and Flow, Exogenous and Endogenous, Dependent and Independent variables -Circular flow of Income. National Income-concepts and their interrelationships- real versus nominal GDP- GNP deflector- the output gap.	
	2	Methods of measurement of national income- value added, income and expenditure methods-social accounting method Estimation of national income in India-Environmental concerns in national accounts- green accounting- Net Economic Welfare.	
<b>II</b>		<b>Classical &amp; Keynesian Macroeconomics</b>	<b>16</b>
	3	Main postulates of classical macroeconomics – Say’s Law – Wage – Price Flexibility –Saving-Investment Equality –Full employment Classical theory of equilibrium output and employment-	
	4	Classical Dichotomy—Neutrality of money—Quantity theory of money (Fischer ‘s and Cambridge version version)- Classical theory of the rate of interest-Money Illusion	
	5	Keynes critique on Classical theory	
	6	Simple Keynesian model of income determination—Concepts of Aggregate Demand and Aggregate Supply– Effective Demand-Keynesian Cross- Keynesian model of income determination in a three sector and four sector economy	
	7	Two sector IS-LM model of income determination- derivation of IS and LM curves -simultaneous equilibrium in the goods and money markets- crowding-out effects.	

		Derivation of the aggregate demand curve	
<b>III</b>	<b>Components Of Aggregate Demand-Consumption And Investment</b>		<b>12</b>
	8	Consumption Function: Definition, Psychological Law of consumption (Absolute Income Hypothesis)—Concepts related to consumption function: APC, MPC, APS MPS—Factors determining consumption function: Subjective and Objective—	
	9	short run and Long run consumption function: Empirical evidence, Consumption puzzle	
	10	Theories of consumption function: Relative, Permanent and Life Cycle hypothesis— saving function—saving paradox. Consumption under uncertainty	
	11	Investment-Types: Gross, Net, Autonomous, Induced, Real, Financial—Determinants of investment—Keynesian Investment Function—MEC and MEI—Multiplier—Accelerator—Super Multiplier	
<b>IV</b>	<b>Money, Prices and Interest Rate</b>		<b>10</b>
	12	Money – Definition – Functions –Demand for money-transaction, precaution and speculative motive	
	13	Theories of demand for money-Quantity theory (Cambridge version), Keynes theory of demand for money-liquidity trap-Baumol-Tobin approach	
	14	The money supply - a theoretical framework for analysing money supply determination- the monetary base model- high-powered money-money multiplier- measures of monetary aggregates compiled in India	
<b>V</b>	<b>Review And Assignment</b>		<b>12</b>
	15	Find out the pattern of growth rate for the past ten years using data from the RBI database.	
	16	Debate on the relevance of classical and Keynesian theories in the current scenario	



	17	Find out APC and MPC from a sample data. Based on the result, check whether the consumption function is proportional or non-proportional.	
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### Textbook

Richard T. Froyen, *Macroeconomics (2013) - Theories and Policies*, Pearson Education.

### Additional Readings

1. Abel, A., Bernanke, B. (2016). *Macroeconomics*, 8th ed. Pearson Education.
2. N. Gregory Mankiw *Macroeconomics (2018)* Worth Publications, New York
3. Shapiro, Edward (1982), *Macro Economic Analysis*, Galgotia Publications (reprint edition)
4. Dornbusch, S Fisher and R. Startz (2018), *Macro Economics: Tata McGraw Hill Education*
5. Gardner Ackley *Macroeconomics Theory and Policy: Macmillan*.
6. B. Snowdon Howard R. Vane (2005) *A modern guide to Macroeconomics*, Edward Elgar, USA.

### Course Outcomes

No.	Upon completion of the course the graduate will be able to	Cognitive Level	PSO addressed
CO-1	Understand the national income concepts and their interrelationships	U	PSO-1
CO-2	Compares the principles of Keynesian economics with classical theory	An	PSO3
C03	Analyses the nature of consumption function with real world situations	An	PSO3
CO4	Examine the types and determinants of investment and the theories of multiplier, accelerator, and	U	PSO1

	super multiplier.		
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**R-Remember, U-Understand, Ap-Apply, An-Analyse, E-Evaluate, C-Create**

**Name of the Course: Credits: 4:0:0 (Lecture:Tutorial:Practical)**

CO No.	CO	PO/PSO	Cognitive Level	Knowledge Category	Lecture (L)/Tutorial (T)	Practical (P)
CO1	Understand the national income concepts and their interrelationships	PO1/PSO1	U	C	L	-
CO2	Compares the principles of Keynesian economics with classical theory	PO1, 2,4/PSO3	An	C	L	-
CO3	Analyses the nature of consumption function with real world situations	PO1, 2,/PSO3	An	F	L	-
CO4	Examine the types and determinants of investment and the theories of multiplier, accelerator, and super	PSO1 /PO1	U	C	L	-

	multiplier												
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**F-Factual, C- Conceptual, P-Procedural, M-Metacognitive**

### Mapping of COs with PSOs and POs :

	PS O1	PS O2	PS O3	PS O4	PS O5	PS O6	PO 1	PO 2	PO 3	PO 4	PO 5	PO 6	PO 7
CO 1	3						3						
CO 2			2				3	1		1			
CO 3			2				3	2					
CO 4	3						3						

### Correlation Levels:

Level	Correlation
-	Nil
1	Slightly / Low
2	Moderate / Medium
3	Substantial / High

### Assessment Rubrics:

- Quiz / Assignment/ Quiz/ Discussion / Seminar
- Midterm Exam
- Programming Assignments
- Final Exam

### Mapping of COs to Assessment Rubrics :

	Internal Exam	Assignment	Project Evaluation	End Semester Examinations
CO 1	✓	✓		✓

CO 2	✓			✓
CO 3	✓			✓
CO 4	✓	✓		✓



### Mar Ivanios College (Autonomous)

<b>Discipline</b>	<b>ECONOMICS</b>				
<b>Course Code</b>	MIUK2DSCECO 151.1				
<b>Course Title</b>	MONEY AND BANKING				
<b>Type of Course</b>	DSC				
<b>Semester</b>	II				
<b>Academic Level</b>	100 - 199				
<b>Course Details</b>	Credit	Lecture per week	Tutorial per week	Practical per week	Total Hours/Week
	4	4			4
<b>Pre-requisites</b>	<ol style="list-style-type: none"> <li>1. Foundational knowledge in economics and finance</li> <li>2. Familiarity with banking operations and financial intermediation</li> </ol>				
<b>Course Summary</b>	<p>This course provides an introduction to the theory and practice of money and banking. Students will explore the functions of money, the structure of the banking system, monetary policy tools, and the role of central banks in the economy. Through theoretical concepts, case studies, and real-world applications, students will gain an understanding of the monetary system and its impact on economic activity.</p>				

### Detailed Syllabus:

Module	Unit	Content	Hrs
<b>I</b>	<b>Introduction to Money and Banking</b>		<b>12</b>
	1	Definition and functions of money	
	2	Historical overview of money and monetary systems	
	3	Money supply and its determinants	
	4	Money demand theories and factors influencing money demand	
	5	Equilibrium in the money market	
<b>II</b>	<b>Financial Intermediaries and Banking Institutions</b>		<b>12</b>
	6	Overview of the banking system and financial institutions	
	7	Structure and functions of commercial banks, Credit creation process	

	8	Banking crises - causes and consequences	
	9	Banking regulation and prudential supervision Regulatory challenges posed by cryptocurrencies and digital currencies, including issues related to consumer protection, anti-money laundering (AML), and Know Your Customer (KYC) regulations.	
	10	Fintech, Role of blockchain technology in financial innovation	
<b>III</b>	<b>Central Banking and Monetary Policy</b>		<b>12</b>
	11	Role and functions of central banks	
	12	Monetary policy tools – Quantitative and Qualitative	
	13	Goals and targets of monetary policy, Regulation and integration of cryptocurrencies and digital currencies into their monetary policies and financial systems	
<b>IV</b>	<b>Money, Interest Rates, and Inflation</b>		<b>12</b>
	14	Relationship between money supply, interest rates, and inflation	
	15	Quantity theory of money and inflation	
	16	Nominal and real interest rates	
	17	Bond price and interest rate	
<b>V</b>	<b>Review and Assessment</b>		<b>12</b>
	18	Reflection and review of key concepts covered throughout the course	
	19	Discussion on Emerging trends in monetary policy and central banking	
	20	Discussion on Challenges and opportunities in the banking industry	

### TEXTBOOK

1. "Economics of Money, Banking, and Financial Markets" by Frederic S. Mishkin. (1990)

### ADDITIONAL READINGS

1. "Money, Banking, and the Financial System" by R. Glenn Hubbard and Anthony Patrick O'Brien. (2019)
2. "The Economics of Money, Banking, and Financial Markets" by Peter Howells and Keith Bain (2017)
3. "Central Banking: Theory and Practice in Sustaining Monetary and Financial Stability" by Thammarak Moenjank and Ben J. Heijdra. (2014)
4. "Banking and Financial Markets: A Global Perspective" by R. Sudarsanam and N. Kulendran. (2018)
5. "The End of Alchemy: Money, Banking, and the Future of the Global Economy" by Mervyn King. (2016)

## Course Outcomes

No.	Upon completion of the course the graduate will be able to	Cognitive Level	PSO addressed
CO-1	Understand the functions and characteristics of money.	U	PSO 1
CO-2	Analyze the structure and operations of the banking system.	An	PSO 1, 4
CO-3	Explore the relationship between money, interest rates, and inflation.	Ap	PSO 1, 4, 6
CO-4	Examine the role of central banks in monetary policy formulation and implementation.	E	PSO 1, 3, 4,5, 6

**R-Remember, U-Understand, Ap-Apply, An-Analyse, E-Evaluate, C-Create**

**Name of the Course: Credits: 4:0:0 (Lecture:Tutorial:Practical)**

CO No.	CO	PO/PSO	Cognitive Level	Knowledge Category	Lecture (L)/Tutorial (T)	Practical (P)
CO-1	Understand the functions and characteristics of money.	PO-1 PSO -1	U	C	L	
CO-2	Analyze the structure and operations of the banking system.	PO-1,2 PSO -1, 4	An	C	L	
CO-3	Explore the relationship between money, interest rates, and inflation.	PO-1,2 PSO -1, 4, 6	Ap	C	L	

CO-4	Examine the role of central banks in monetary policy formulation and implementation.	PO-1,2,4,5 PSO- 1, 3, 4,5, 6	E	M	L	
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**F-Factual, C- Conceptual, P-Procedural, M-Metacognitive**

**Mapping of COs with PSOs and POs :**

	PS O1	PS O2	PS O3	PS O4	PS O5	PS O6	PO 1	PO 2	PO 3	PO 4	PO 5	PO 6	PO 7
CO 1	3	-	-	-	-	-	3	-	-	-	-	-	-
CO 2	1	-	-	3	-	-	2	3	-	-	-	-	-
CO 3	2	-	-	3	-	1	2	3	-	-	-	-	-
CO 4	1	-	3	3	2	1	2	3	-	1	2	-	-

**Correlation Levels:**

Level	Correlation
-	Nil
1	Slightly / Low
2	Moderate / Medium
3	Substantial / High

**Assessment Rubrics:**

- Quiz / Assignment/ Quiz/ Discussion / Seminar



- Midterm Exam
- Programming Assignments
- Final Exam

### Mapping of COs to Assessment Rubrics :

	Internal Exam	Assignment	Project Evaluation	End Semester Examinations
CO 1	✓			✓
CO 2	✓			✓
CO 3				✓
CO 4		✓		✓



### Mar Ivanios College (Autonomous)

<b>Discipline</b>	<b>ECONOMICS</b>				
<b>Course Code</b>	MIUK2DSCECO 152.1				
<b>Course Title</b>	ECONOMIC HISTORY OF INDEPENDENT INDIA				
<b>Type of Course</b>	DSC				
<b>Semester</b>	II				
<b>Academic Level</b>	100 - 199				
<b>Course Details</b>	Credit	Lecture per week	Tutorial per week	Practical per week	Total Hours/Week
	4	4			4
<b>Pre-requisites</b>	1. Basic understanding of economics and economic systems 2. Basic knowledge of Indian governance structures				
<b>Course Summary</b>	The course provides a structured approach to understanding the evolution, objectives, challenges, and impact of economic planning and policy in India, covering both historical perspectives and contemporary issues.				

#### Detailed Syllabus:

Module	Unit	Content	Hrs
I	<b>Introduction to Indian Economic Planning</b>		<b>12</b>
	1	Historical background and evolution of economic planning in India	
	2	Objectives and rationale of economic planning	
	3	Overview of India's planning process: Planning Commission, NITI Aayog, and Five-Year Plans	
	4	Key features of different Five-Year Plans: Focus areas, achievements, and challenges.	
	5	Critiques of the planning process: Efficiency vs. flexibility, centralization vs. decentralization	
II	<b>Economic Reforms and Liberalization</b>		<b>12</b>
	6	Context and triggers for economic reforms	
	7	Liberalization, privatization, and globalization (LPG) policy framework: Key policy measures and their impacts.	
	8	Sector-wise reforms: Industrial, trade, financial, and agricultural sectors.	

	9	Evaluation of economic reforms: Achievements, challenges, and remaining areas of reform.	
	10	Impact of liberalization on growth, poverty, inequality, and regional disparities.	
III	<b>Sectoral Policies</b>		<b>12</b>
	11	Agriculture sector policies: Green Revolution, agricultural subsidies, and recent reforms.	
	12	Industrial policies: Make in India, ease of doing business, and industrial corridors.	
	13	Infrastructure development: Policies for energy, transportation, and urban development	
IV	<b>Social Welfare Policies and Environmental Policy</b>		<b>12</b>
	14	Poverty alleviation strategies: rural development, employment generation, and social security schemes	
	15	Education, healthcare, and social infrastructure initiatives	
	16	Environmental degradation and natural resource management challenges	
	17	Challenges in achieving inclusive and sustainable development goals	
V	<b>Future Directions in Indian Economic Planning and Policy</b>		<b>12</b>
	18	Discussion on Emerging trends and challenges in India's development trajectory	
	19	Discussion on development debates since Independence	

### Reading List

1. Ahluwalia, Montek S. "Economic reforms in India since 1991: Has gradualism worked?." *Journal of Economic Perspectives* 16, no. 3 (2002): 67-88.
2. Planning Commission of India. "Five-Year Plans." Retrieved from: [http://planningcommission.gov.in/plans/planrel/5yr/index.php?repts=five\\_year\\_plans.php](http://planningcommission.gov.in/plans/planrel/5yr/index.php?repts=five_year_plans.php).
3. Reserve Bank of India. "Monetary Policy." Retrieved from: <https://www.rbi.org.in/Scripts/AboutusDisplay.aspx?pg=MonetaryPolicy.htm>.
4. Government of India. "Economic Survey." Retrieved from: <https://www.indiabudget.gov.in/economicsurvey/>.
5. Chaudhuri, Sudip, and Anupriya Dhonchak. "India's fiscal federalism." *World Bank Policy Research Working Paper* 7847 (2016).
6. Planning Commission of India. "Twelfth Five Year Plan (2012–17)." Retrieved from: [http://planningcommission.gov.in/plans/planrel/12thplan/pdf/12fyp\\_vol1.pdf](http://planningcommission.gov.in/plans/planrel/12thplan/pdf/12fyp_vol1.pdf).
7. Ministry of Finance, Government of India. "Union Budget of India." Retrieved from: <https://www.indiabudget.gov.in/>.
8. Tendulkar, Suresh D., and M. R. Saluja. "Reforms, poverty, and inequality." *Economic and Political Weekly* (2003): 1357-1363.
9. Jayadev, Arjun, and Rahul Lahoti. "Monetary policy transmission in India: A Peep inside the black box." *Economic and Political Weekly* (2017): 78-85.
10. Bardhan, Pranab K. "The political economy of development in India since independence." *Journal of Economic Perspectives* 16, no. 3 (2002): 89-112.

11. Sinha, Pankaj. "Indian financial sector: Structure, trends and turns." Economic and Political Weekly (2017): 76-82.
12. Dholakia, Ravindra H. "Reforming agricultural markets in India: A review." Economic and Political Weekly (2014): 82-88.

### Course Outcomes

No.	Upon completion of the course the graduate will be able to	Cognitive Level	PSO addressed
CO-1	Understand the Historical Evolution and Rationale of Indian Economic Planning	U	PSO 2, 6
CO-2	Analyze the Impacts of Economic Reforms and Liberalization on the Indian Economy	An	PSO 2, 6
CO-3	Examine Sectoral Policies and Social Welfare Initiatives	Ap	PSO 2,6
CO-4	Evaluate Environmental Challenges and Future Directions in Economic Planning	E	PSO 4,5, 6

**R-Remember, U-Understand, Ap-Apply, An-Analyse, E-Evaluate, C-Create**

**Name of the Course: Credits: 4:0:0 (Lecture:Tutorial:Practical)**

CO No.	CO	PO/PSO	Cognitive Level	Knowledge Category	Lecture (L)/Tutorial (T)	Practical (P)
CO-1	Understand the Historical Evolution and Rationale of Indian Economic Planning	PO-1 PSO- 2, 6	U	C	L	
CO-	Analyze the Impacts of	PO-1,2	An	C	L	

2	Economic Reforms and Liberalization on the Indian Economy	PSO- 2, 6				
CO-3	Examine Sectoral Policies and Social Welfare Initiatives	PO- 1,2,5,7 PSO- 2,6	Ap	C	L	
CO-4	Evaluate Environmental Challenges and Future Directions in Economic Planning	PO-1,2,3 PSO 4,5, 6	E	M	L	

**F-Factual, C- Conceptual, P-Procedural, M-Metacognitive**

### Mapping of COs with PSOs and POs :

	PS O1	PS O2	PS O3	PS O4	PS O5	PS O6	PO 1	PO 2	PO 3	PO 4	PO 5	PO 6	PO 7
<b>CO 1</b>	-	3	-	-	-	1	3	-	-	-	-	-	-
<b>CO 2</b>	-	3	-	-	-	2	2	3	-	-	-	-	-
<b>CO 3</b>	-	3	-	-	-	2	2	3	-	-	1	-	2
<b>CO 4</b>	-	-	-	3	2	2	2	3	3	-	-	-	-

**Correlation Levels:**

Level	Correlation
-	Nil

1	Slightly / Low
2	Moderate / Medium
3	Substantial / High

**Assessment Rubrics:**

- Quiz / Assignment/ Quiz/ Discussion / Seminar
- Midterm Exam
- Programming Assignments
- Final Exam

**Mapping of COs to Assessment Rubrics :**

	<b>Internal Exam</b>	<b>Assignment</b>	<b>Project Evaluation</b>	<b>End Semester Examinations</b>
<b>CO 1</b>	✓			✓
<b>CO 2</b>	✓			✓
<b>CO 3</b>				✓
<b>CO 4</b>		✓		✓



### Mar Ivanios College (Autonomous)

<b>Discipline</b>	<b>ECONOMICS</b>				
<b>Course Code</b>	MIUK2MDCECO 150.1				
<b>Course Title</b>	MEDIA AND COMMUNICATION ECONOMICS				
<b>Type of Course</b>	MDC				
<b>Semester</b>	II				
<b>Academic Level</b>	100 - 199				
<b>Course Details</b>	Credit	Lecture per week	Tutorial per week	Practical per week	Total Hours/Week
	3	3			3
<b>Pre-requisites</b>	1. Familiarity with fundamental economic concepts such as supply and demand, market structures, pricing strategies, and revenue models. 2. Knowledge of media industries				
<b>Course Summary</b>	This course explores the economic principles underlying the media industry, including print, broadcast, digital, and social media. Through theoretical frameworks, case studies, and industry analysis, students will examine the economics of media production, distribution, and consumption, as well as the impact of technological innovations and market dynamics on media markets and business models.				

### Detailed Syllabus:

Module	Unit	Content	Hrs
I	<b>Introduction to Media Economics</b>		<b>6</b>
	1	Definition and scope of media economics	
	2	Historical overview of media industries and business models	
	3	Key concepts and theories in media economics	
II	<b>Economics of Media Production</b>		<b>12</b>
	4	Cost structures and economies of scale in media production	
	5	Production processes and technology adoption	
	6	Revenue sources: advertising, subscription, and licensing fees	
	7	Economics of advertising: demand and supply dynamics	
	8	Advertising pricing models and revenue strategies	

	9	Impact of digital advertising and programmatic buying	
	10	Paywall Economics	
	11	Subscription-based business models in media	
	12	Pricing strategies and subscription retention, Bundling	
	13	Case studies of successful subscription services	
	14	Audience behaviour and media consumption trends	
	15	Implications for advertising revenue and content creation	
III	<b>Media Market Structure and Competition</b>		<b>9</b>
	10	Market structure and concentration in media industries	
	11	Competition policy and regulation in media markets	
	12	Market entry barriers and competitive strategies	
	13	Role of government regulation in media markets	
	14	Trends in media industry consolidation	
	15	Economic implications of media mergers and acquisitions	
	16	Regulatory frameworks and antitrust considerations	
IV	<b>Media Entrepreneurship and Innovation</b>		<b>6</b>
	17	Startups and entrepreneurship in the media industry	
	18	Business models for media startups and digital ventures	
	19	Role of venture capital and angel investors in media innovation	
	20	Global trends in media ownership and content distribution	
V	<b>Future Trends and Challenges in Media Economics</b>		<b>12</b>
	21	Reflection and review of key concepts covered throughout the course	
	22	Discussion on Future Trends and Challenges in Media consumption and production	

## TEXTBOOK

1. "Media Economics: Theory and Practice" by Alison Alexander and James Owers (2006)

## ADDITIONAL READING

1. "The Economics of Media" by Gillian Doyle (2013)
2. "Media Economics: Understanding Markets, Industries and Concepts" by Stuart Cunningham and Terry Flew (2018).
3. "The Political Economy of Media: Enduring Issues, Emerging Dilemmas" by Robert W. McChesney and Victor Pickard (2016)
4. "Media Industries: History, Theory, and Method" edited by Jennifer Holt and Alisa Perren (2009)
5. "The Economics of Attention: Style and Substance in the Age of Information" by Richard A. Lanham (2006)
6. "Media and Communication Economics: Principles and Perspectives" by Mark Levy and Michael Gurevitch (2005)



7. "The Content Trap: A Strategist's Guide to Digital Change" by Bharat Anand (2016)

### Course Outcomes

No.	Upon completion of the course the graduate will be able to	Cognitive Level	PSO addressed
CO-1	Understand the economic fundamentals of the media industry.	U	PSO 1
CO-2	Examine the economics of media production.	An	PSO 1, 5
CO-3	Analyze the structure and behaviour of media markets.	An	PSO 1, 5
CO-4	Explore the economic challenges and opportunities facing media organizations.	E	PSO 1, 3, 5

**R-Remember, U-Understand, Ap-Apply, An-Analyse, E-Evaluate, C-Create**

**Name of the Course: Credits: 3:0:0 (Lecture:Tutorial:Practical)**

CO No.	CO	PO/PSO	Cognitive Level	Knowledge Category	Lecture (L)/Tutorial (T)	Practical (P)
CO-1	Understand the economic fundamentals of the media industry.	PO-1 PSO- 1	U	C		
CO-2	Examine the economics of media production.	PO-1,2,5 PSO -1, 5	An	P		
CO-3	Analyze the structure and behaviour of media markets.	PO-1,2,5	An	P		

		PSO -1, 5				
CO-4	Explore the economic challenges and opportunities facing media organizations.	PO-1,2,4,5 PSO- 1, 3, 5	E	M		

**F-Factual, C- Conceptual, P-Procedural, M-Metacognitive**

### Mapping of COs with PSOs and POs :

	PS O1	PS O2	PS O3	PS O4	PS O5	PS O6	PO 1	PO 2	PO 3	PO 4	PO 5	PO 6	PO 7
CO 1	3	-	-	-	-	-	3	-	-	-	-	-	-
CO 2	3	-	-	-	2	-	2	3	-	-	2	-	-
CO 3	3	-	-	-	2	-	2	3	-	-	2	-	-
CO 4	3	-	3	-	1	-	2	3	-	1	2	-	-

### Correlation Levels:

Level	Correlation
-	Nil
1	Slightly / Low
2	Moderate / Medium
3	Substantial / High

### Assessment Rubrics:

- Quiz / Assignment/ Quiz/ Discussion / Seminar
- Midterm Exam
- Programming Assignments
- Final Exam

### Mapping of COs to Assessment Rubrics :

	Internal Exam	Assignment	Project Evaluation	End Semester Examinations
CO 1	✓			✓

CO 2	✓			✓
CO 3				✓
CO 4		✓		✓

## SEMESTER III



## Mar Ivanios College (Autonomous)

<b>Discipline</b>	ECONOMICS				
<b>Course Code</b>	MIUK3 DSCECO 200.1				
<b>Course Title</b>	INTERMEDIATE MICROECONOMICS				
<b>Type of Course</b>	DSC				
<b>Semester</b>	III				
<b>Academic Level</b>	200 - 299				
<b>Course Details</b>	Credit	Lecture per week	Tutorial per week	Practical per week	Total Hours/Week
	4	4 hours	-		4
<b>Pre-requisites</b>	1. Knowledge of fundamental concepts and principles in economics.				
<b>Course Summary</b>	The course of Intermediate Micro Economics delves deeper into the behaviour of individual consumers and firms, as well as the interactions between them in various market structures. Topics include theory of consumer behaviour ,risk and uncertainty, Imperfect markets, factor pricing and distribution, welfare economics and general equilibrium. Emphasis is placed on understanding the underlying theories and applying them to real-world scenarios to analyze market outcomes and policy implications.				

**Detailed Syllabus:**

Module	Unit	Content	Hrs
I	<b>THEORY OF THE CONSUMER BEHAVIOUR AND CONSUMERS BEHAVIOUR UNDER RISK AND UNCERTAINTY</b>		<b>12</b>
	1	Axioms of rational choice – Utility functions – Indifference curve – MU & MRS – Examples of utility function- Perfect substitutes – Perfect complements – Neutrals and Bads Quasi linear preferences – Concave preferences – Cobb Douglas Preferences – Homothetic and non-homothetic preferences	
	2	Inverse demand functions. Utility maximisation and choice – indirect utility function and consumer's equilibrium - the two good and n good cases- Derivation of the demand function - Engel curve -duality in consumer theory- Developments in demand theory-Constant elastic demand function, dynamic versions of demand, linear expenditure system- positive and negative network externalities (Bandwagon, Snob and Veblen effects)	
	3	Choice under uncertainty- describing risk, expected utility, preferences towards risk- Bernoulli, Neumann and Morgenstern theory, Friedman and Savage hypothesis, Markowitz hypothesis	
	4	reducing risk-diversification, insurance, the value of information -the demand for risky assets-behavioural economics	
II	<b>NON-COMPETITIVE MARKET STRUCTURE</b>		<b>12</b>
	5	Imperfect market – monopoly – features –short run and long run equilibrium – Natural monopoly-discriminating monopoly	

		- types and degrees-Intertemporal price discrimination and Peak- load pricing- bilateral monopoly – monopsony- Monopoly power-measures	
	6	Monopolistic competition –Features-non-price competition - product differentiation and selling costs -Industry and Group Short run and long run (group) equilibrium- ideal output and excess capacity- limitations of monopolistic competition.	
	7	Oligopoly- features- interdependence and price rigidity– Duopoly –Collusive and non-collusive oligopoly Kinked demand model: Sweezy’s Non-collusive Stable Equilibrium - collusive oligopoly – cartels and price leadership	
III	<b>FACTOR PRICING AND DISTRIBUTION</b>		<b>12</b>
	8	Functional versus personal distribution - concepts of value-of-marginal-product (VMP) and marginal revenue product (MRP). Marginal productivity theory of distribution	
	9	Factor price determination under perfect competition and imperfect competition	
	10	Theories of rent-Ricardian theory and modern theories of rent -quasi rent–money and real wages – wage differentials – effect of labour unions on wages  Theories of interest – classical, neo-classical and Keynesian theories of interest  Theories of profit- dynamic theory, risk bearing theory – innovation theory of profit.  .	
IV	<b>WELFARE ECONOMICS AND GENERAL EQUILIBRIUM</b>		<b>12</b>
	11	Welfare economics – nature, concepts and scope- problems of measuring social welfare	
	12	criteria of social welfare – role of value judgement- growth of GNP criterion – Bentham ‘s criterion – Cardinalist criterion –	

		Pareto optimality criterion- Kaldor and Hicks compensation criterion - Scitovsky double criteria- Arrow 's Impossibility Theorem -The Theory of Second Best. Amartya Sen 's concept of social welfare (basics only)	
	13	General equilibrium and partial equilibrium-General Equilibrium Analysis—Efficiency in exchange— efficiency in production—Efficiency in product-mix.	
V	<b>REVIEW AND ASSIGNMENT</b>		<b>12</b>
	14	Students are asked to visit a nearby local market and analyse the behavioural pattern of consumers such as purchasing decisions, product evaluation, brand loyalty, and interaction with salespersons and to present their observations and analysis either orally or through written reports.	
	15	Students are asked to identify 2-3 industries which are having the characteristics of monopoly and monopolistic competition and to justify their answer	
	16	Choose an organization and find out the wage-determining mechanism in the organization. Do you think the wages are determined as per the marginal productivity theory? If not, what would be the reason?	

**Text Book:**

1. Varian, H. R. (2014). Intermediate Microeconomics: A Modern Approach. W. W. Norton & Company.
2. A Koutsoyannis, Modern Microeconomics, Second Edition, Macmillan Education, 1979.

**Additional Readings:**

1. Robert S. Pindyck, et al. (recent edition). Micro Economics. Delhi: Pearson Education
2. Dominick Salvatore. Micro Economics Theory and Application. 4th Ed. New Delhi: Oxford

3. Hal R Varian: Intermediate Microeconomics: A Modern Approach 8th edition, W.W.Norton and Company/Affiliated east-West Press (India), 2010 University Press
4. Samuelson, P.A 1990. Foundations of Economic Analysis, Harvard University Press.

### Course Outcomes

No.	Upon completion of the course the graduate will be able to	Cognitive Level	PSO addressed
CO-1	Apply theoretical tools of consumer behaviour in real life situations	Ap	PSO3
CO-2	Engage in critical evaluation of different market conditions such as monopoly and monopolistic competition	E	PSO3
Co3	Analyses the factor price determination under different market structures	U	PSO3
C04	Understand the concepts of welfare economics and general equilibrium.	U	PSO1

**R-Remember, U-Understand, Ap-Apply, An-Analyse, E-Evaluate, C-Create**

*Note: 1 or 2 COs/module*

**Name of the Course: Credits: 4:0:0 (Lecture:Tutorial:Practical)**

CO No.	CO	PO/PSO	Cognitive Level	Knowledge Category	Lecture (L)/Tutorial (T)	Practical (P)
CO1	Apply theoretical tools of	PO1,2,4,5/PSO3	Ap	F, C	L	-



	consumer behaviour in real life situations					
C02	Engage in critical evaluation of different market conditions such as monopoly and monopolistic competition	PO1,2,4,5/PSO3	E	P	L	-
C03	Analyses the factor price determination under different market structures	PO1,2/P SO3	An	C	L	-
C04	Understand the concepts of welfare economics and general equilibrium.	PO1/PS O1	U	C	L	-

**F-Factual, C- Conceptual, P-Procedural, M-Metacognitive**

### Mapping of COs with PSOs and POs :

	PS O1	PS O2	PS O3	PS O4	PS O5	PS O6	PO 1	PO 2	PO 3	PO 4	PO 5	PO 6	PO 7
<b>CO 1</b>			3				3	2		1	1		
<b>CO 2</b>			3				3	2		1	1		
<b>CO 3</b>			2				3	2					
<b>CO 4</b>	3						3						

### Correlation Levels:

Level	Correlation
-	Nil
1	Slightly / Low
2	Moderate / Medium
3	Substantial / High

### Assessment Rubrics:

- Quiz / Assignment/ Quiz/ Discussion / Seminar
- Midterm Exam
- Programming Assignments
- Final Exam

### Mapping of COs to Assessment Rubrics :

	Internal Exam	Assignment	Project Evaluation	End Semester Examinations

<b>CO 1</b>	✓	✓		✓
<b>CO 2</b>	✓	✓		✓
<b>CO 3</b>	✓			✓
<b>CO 4</b>	✓			✓



### Mar Ivanios College (Autonomous)

<b>Discipline</b>	<b>ECONOMICS</b>				
<b>Course Code</b>	MIUK3DSCECO 201.1				
<b>Course Title</b>	ECONOMICS OF BUSINESS AND INNOVATION				
<b>Type of Course</b>	DSC				
<b>Semester</b>	III				
<b>Academic Level</b>	200 - 299				
<b>Course Details</b>	Credit	Lecture per week	Tutorial per week	Practical per week	Total Hours/Week
	4	4			4
<b>Pre-requisites</b>	1. Basic understanding of Economics				
<b>Course Summary</b>	This course explores the economic principles underlying entrepreneurship and innovation. Through theoretical frameworks, case studies, and practical exercises, students will examine the role of entrepreneurs in economic development, the factors influencing entrepreneurial behaviour, and the impact of entrepreneurship on innovation, job creation, and economic growth.				

### Detailed Syllabus:

Module	Unit	Content	Hrs
I	<b>Introduction to Entrepreneurial Economics</b>		<b>12</b>
	1	Definition and scope of entrepreneurial economics	
	2	Historical overview of entrepreneurship and its economic significance	
	3	Key concepts and theories in entrepreneurial economics	
	4	Role of entrepreneurship in economic development	
	5	Entrepreneurial ecosystems and innovation clusters	
II	6	Policy interventions to promote entrepreneurship and innovation	
	<b>Entrepreneurial Opportunity Recognition</b>		<b>12</b>
	7	Identification and evaluation of entrepreneurial opportunities	
	8	Market analysis and feasibility assessment	
	9	Role of creativity and innovation in opportunity recognition	
	10	Economic theories of risk and uncertainty	
	11	Risk management strategies for entrepreneurs	
12	Relationship between risk-taking and entrepreneurial success		

III	<b>Entrepreneurial Finance and Marketing Strategies</b>		<b>12</b>
	13	Sources of funding for new ventures (equity, debt, crowdfunding)	
	14	Venture capital and angel investing	
	15	Financial management for entrepreneurs	
	16	Marketing strategies for new ventures	
	17	Sales techniques and relationship management	
	18	Customer acquisition and retention	
IV	<b>Social Entrepreneurship, Technological Entrepreneurship and Impact Investing</b>		<b>12</b>
	19	Definition and principles of social entrepreneurship	
	20	Triple bottom line (people, planet, profit) and sustainability	
	21	Role of technology and innovation in entrepreneurship	
	22	Commercialization of technology and intellectual property rights	
	23	Tech startup ecosystem and accelerators	
V	<b>Future Trends and Opportunities in Entrepreneurial Economics</b>		<b>12</b>
	25	Discussion on Challenges and opportunities in global markets	
	26	Discussion on Emerging trends in entrepreneurship (e.g., digital entrepreneurship, green entrepreneurship)	
	27	Reflection and Review of concepts covered throughout the course	

**TEXTBOOK**

1. "Entrepreneurial Economics" by Alexander Peterhansl and David B. Audretsch
- 2.

**ADDITIONAL READINGS**

1. "The Lean Startup: How Today's Entrepreneurs Use Continuous Innovation to Create Radically Successful Businesses" by Eric Ries
2. "Effectual Entrepreneurship" by Stuart Read, Saras Sarasvathy, Nick Dew, Robert Wiltbank, and Anne-Valérie Ohlsson
3. "Startup Nation: The Story of Israel's Economic Miracle" by Dan Senor and Saul Singer
4. "Zero to One: Notes on Startups, or How to Build the Future" by Peter Thiel with Blake Masters
5. "The Art of the Start 2.0: The Time-Tested, Battle-Hardened Guide for Anyone Starting Anything" by Guy Kawasaki
6. "Disciplined Entrepreneurship: 24 Steps to a Successful Startup" by Bill Aulet
7. "The Startup Owner's Manual: The Step-By-Step Guide for Building a Great Company" by Steve Blank and Bob Dorf

## Course Outcomes

No.	Upon completion of the course the graduate will be able to	Cognitive Level	PSO addressed
CO-1	Understand the economic theories and concepts of entrepreneurship.	U	PSO 1,5
CO-2	Analyze the role of entrepreneurs in the economy and their contributions to innovation and growth.	An	PSO 3, 5
CO-3	Explore the factors influencing entrepreneurial behaviour and decision-making.	An	PSO 3, 5
CO-4	Examine the process of new venture creation and the challenges faced by entrepreneurs.	E	PSO 3, 5, 6

**R-Remember, U-Understand, Ap-Apply, An-Analyse, E-Evaluate, C-Create**

**Name of the Course: Credits: 4:0:0 (Lecture:Tutorial:Practical)**

CO No.	CO	PO/PSO	Cognitive Level	Knowledge Category	Lecture (L)/Tutorial (T)	Practical (P)
CO-1	Understand the economic theories and concepts of entrepreneurship.	PO-1 PSO -1,5	U	C	L	
CO-2	Analyze the role of entrepreneurs in the economy and	PO-1,2 PSO -3, 5	An	P	L	

	their contributions to innovation and growth.					
CO-3	Explore the factors influencing entrepreneurial behaviour and decision-making.	PO-1,2,5 PSO- 3, 5	An	P	L	
CO-4	Examine the process of new venture creation and the challenges faced by entrepreneurs.	PO-1,2,4,5 PSO- 3, 5, 6	E	M	L	

**F-Factual, C- Conceptual, P-Procedural, M-Metacognitive**

### Mapping of COs with PSOs and POs:

	PS O1	PS O2	PS O3	PS O4	PS O5	PS O6	PO 1	PO 2	PO 3	PO 4	PO 5	PO 6	PO 7
CO 1	3	-	-	-	3	-	3	-	-	-	-	-	-
CO 2	-	-	3	-	3	-	2	3	-	-	-	-	-
CO 3	-	-	3	-	3	-	2	3	-	-	2	-	-
CO 4	-	-	3	-	3	2	2	3	-	3	3	-	-

### Correlation Levels:

Level	Correlation
-	Nil
1	Slightly / Low
2	Moderate / Medium

3	Substantial / High
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**Assessment Rubrics:**

- Quiz / Assignment/ Quiz/ Discussion / Seminar
- Midterm Exam
- Programming Assignments
- Final Exam

**Mapping of COs to Assessment Rubrics :**

	Internal Exam	Assignment	Project Evaluation	End Semester Examinations
CO 1	✓			✓
CO 2	✓			✓
CO 3				✓
CO 4		✓		✓





### Mar Ivanios College (Autonomous)

<b>Discipline</b>	<b>ECONOMICS</b>				
<b>Course Code</b>	MIUK3DSCECO202.1				
<b>Course Title</b>	MANAGERIAL ECONOMICS				
<b>Type of Course</b>	<b>DSC</b>				
<b>Semester</b>	III				
<b>Academic Level</b>	200-299				
<b>Course Details</b>	Credit	Lecture per week	Tutorial per week	Practical per week	Total Hours/Week
	4	4 hours	-	-	4
<b>Pre-requisites</b>	Basic Understanding of Economics.				
<b>Course Summary</b>	This course provides a comprehensive exploration of key concepts in decision-making and management, including demand analysis, estimation, production, cost analysis, and strategic decision-making strategies within firms.				

#### Detailed Syllabus:

Module	Unit	Content	Hrs
I	<b>Principles of Managerial Economics</b>		<b>12</b>
	1	Meaning & Scope of Managerial Economics-Role of Managerial Economics in Problem Solving.	

	2	Demand Analysis; Demand Curve, Determinants of Demand-Market Demand-Elasticity of Demand; Price, Income and Cross Elasticity of Demand	
	3	Decision Making Under Uncertainty; Uncertainty, Risk-Probability – Expected Value – Variability - Preferences towards Risk – Reducing Risk -The Demand for Risky Assets	
	4	Demand Forecasting; Types, Forecasting Methods; Trend Analysis, (Concept only), Barometric Forecasting, Surveys, Econometric Models.	
II	<b>Production Analysis and Cost of Production</b>		<b>12</b>
	5	Production Function-Cobb-Douglas Production Function-Law of Variable Proportions-Law of Returns to Scale-Economies and Diseconomies of Scale	
	6	Nature of Cost Curves-Traditional and Modern Theory of Costs - Relevance of Cost Functions	
III	<b>Market Structure and Theory of the Firm</b>		<b>12</b>
	7	Perfect Competition- Monopoly-Monopolistic Competition (Concepts and features only), Oligopoly; Kinked Demand Curve Model -Profit- Maximization versus Break Even Analysis	
	8	Managerial Theory of the Firm; Baumol, Marris - Behavioral Theory of Firm; Cyert and March	
	9	Organization of the firm; Methods of Procuring Inputs, Transaction Cost.	
IV	<b>Pricing Theory</b>		<b>12</b>
	10	Pricing Objectives-Price Discrimination-Crucial Factors in Formulating a Pricing Policy	
	11	Markup Pricing -Transfer Pricing-Peak load Pricing – Cost plus Pricing -Marginal Cost Pricing – Going Rate Pricing – Product Line Pricing – Breakeven Point Pricing – Pricing of a New Product-Pricing Over the Life Cycle of a Product	
V	<b>Managerial Economics : Activities</b>		<b>12</b>

12	Prepare a presentation on how firms within a specific form of monopolistic competition or oligopoly navigate the competitive landscape, determine pricing strategies, and implement advertising and marketing tactics to sustain their presence and viability in the market.
13	Discuss the factors that might influence the demand for a new smartphone model in the market. How would you estimate the demand curve for this product?

### Textbook

- Salvatore, D. (2014). Managerial Economics in a Global Economy (7<sup>th</sup> ed.). Oxford University Press.

### Additional Readings

- Moschandreas, M. (2000). Business Economics (2<sup>nd</sup> ed.). Business Press Thomson Learning.
- Baye, M. R., & Prince, J. T. (2022). Managerial Economics and Business Strategy (10th ed.). McGraw Hill LLC..
- Truett, L. J., & Truett, D. B. (2006). Managerial Economics: Analyses, Problems, Cases (8th Edition). Wiley Student Edition.

### Course Outcomes

No.	Upon completion of the course the graduate will be able to	Cognitive Level	PSO addressed
CO-1	Understand the fundamentals of Managerial Economics	U, R	1,3
CO-2	Examine the production, cost and market structures of the firm	An, U	1,3 5

CO-3	Analyse the pricing strategies of the firms with market power .	An, Ap	1,3,5
CO-4	Apply the theories and principles of Managerial Economics in daily life.	Ap,C	3,5,6

**R-Remember, U-Understand, Ap-Apply, An-Analyse, E-Evaluate, C-Create**

*Note: 1 or 2 COs/module*

**Name of the Course: Credits: 4:0:0 (Lecture:Tutorial:Practical)**

CO No.	CO	PO/PSO	Cognitive Level	Knowledge Category	Lecture (L)/Tutorial (T)	Practical (P)
CO-1	Understand the fundamentals of Managerial Economics	PO-1,2 PSO-1,3	U, R	C	L	-
CO-2	Examine the production, cost and market structures of the firm	PO- 1,2 PSO-1,3,5	An, U	C, M	L	-
CO-3	Analyze the pricing strategies of the firms with market power .	PO-1,2 PSO-1,3,5	An, Ap	C, M	L	-
CO-4	Apply the theories and	PO-1,2,5	Ap,C	M	L	-

	principles of Managerial Economics in daily life.	PSO-3,5,6				
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**F-Factual, C- Conceptual, P-Procedural, M-Metacognitive**

### Mapping of COs with PSOs and POs:

	P S O 1	PSO 2	PSO 3	PSO 4	PSO 5	PSO 6	PO 1	PO 2	PO 3	PO 4	PO 5	PO 6	PO 7
<b>CO1</b>	3	-	1	-	-	-	3	2	-	-	-	-	-
<b>CO2</b>	3	-	1	-	2	-	3	2	-	-	-	-	-
<b>CO3</b>	1	-	2	-	3	-	2	3	-	-	-	-	-
<b>CO4</b>	-	-	3	-	1	2	1	2	-	-	3	-	-

### Correlation Levels:

Level	Correlation
-	Nil
1	Slightly / Low
2	Moderate / Medium
3	Substantial / High

### Assessment Rubrics:

- Quiz / Assignment/ Quiz/ Discussion / Seminar
- Midterm Exam Programming Assignments
- Final Exam

**Mapping of COs to Assessment Rubrics :**

	<b>Internal Exam</b>	<b>Assignment</b>	<b>Project Evaluation</b>	<b>End Examinations</b>	<b>Semester</b>
<b>CO 1</b>	✓	✓		✓	
<b>CO 2</b>	✓	✓		✓	
<b>CO 3</b>	✓	✓		✓	
<b>CO 4</b>	✓	✓		✓	



### Mar Ivanios College (Autonomous)

<b>Discipline</b>	<b>ECONOMICS</b>				
<b>Course Code</b>	<b>MIUK3 DSE ECO 200.1</b>				
<b>Course Title</b>	<b>BEHAVIOURAL ECONOMICS</b>				
<b>Type of Course</b>	DSE				
<b>Semester</b>	<b>III</b>				
<b>Academic Level</b>	<b>200 - 299</b>				
<b>Course Details</b>	<b>Credit</b>	<b>Lecture per week</b>	<b>Tutorial per week</b>	<b>Practical per week</b>	<b>Total Hours/Week</b>
	<b>4</b>	<b>4 hours</b>	<b>-</b>		<b>4</b>

#### Detailed Syllabus:

<b>Pre-requisites</b>	<b>1. Knowledge of Introductory micro economics</b>
<b>Course Summary</b>	<b>Behavioral Economics is an interdisciplinary field that integrates insights from psychology and economics to understand how individuals make decisions. This course provides a comprehensive exploration of the nature, origins, and applications of behavioral economics, focusing on key concepts and methodologies. The topics which are covered under the course are Foundations of Behavioural Economics, Consumer purchasing decisions, Information and Uncertainty</b>

	<b>and Time Discounting and Social Preferences.</b>
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Module	Unit	Content	Hours
I	<b>Foundations of Behavioural Economics</b>		8
	1	Behavioural Economics: Origin—Neo-Classical Model and the Critique—Rationality Assumption—Scope of Behavioural Approaches: Past, Present and Future-	
II	<b>Consumer Purchasing Decisions</b>		14
	2	Transaction Utility and Consumer Pricing— Rational Choice with Fixed and Marginal Costs -Fixed versus Sunk Costs - Transaction Utility and Flat-Rate Bias - Theory and Reference-Dependent Preferences	
	3	Mental Accounting - The Theory of Mental Accounting - Budgeting and Consumption Bundles - Reference Points and Indifference Curves	
	4	Status Quo Bias and Default Options- Rational Choice and Default Options- Preference Formation, Framing, and the Default Option- Rational Explanations of the Status Quo Bias- Loss Aversion and the Endowment Effect	
III	<b>Information and Uncertainty</b>		12



	5	Bracketing Decisions— Multiple Rational Choice with Certainty and Uncertainty - Narrow versus Broad Bracketing - Rational Bracketing for Variety	
	6	Representativeness and Availability— Statistical Inference and Information - Law of Large Numbers - The Law of Small Numbers Conservatism versus Representativeness - Availability Heuristic Confirmation and Overconfidence- Confirmation Bias- Overconfidence	
		Decision under Risk and Uncertainty—Prospect Theory and Decision under Risk or Uncertainty-Prospect Theory and Indifference Curves-Prospect Theory and Risk Aversion	
IV	<b>Time Discounting and Social Preferences</b>		14
	7	Projection and Hindsight Biases—The Standard Models of Intertemporal Choice-Projection Bias and Addiction- Hindsight Bias and the Curse of Knowledge-Naïve Procrastination	
	8	Committing and Uncommitting-Rationality and the Possibility of Committing-Commitment under Time Inconsistency	
	9	Selfishness and Altruism—Rationality and Altruism-Public Goods Provision and Altruistic Behavior Fairness and Psychological Games Trust and Reciprocity-Of Trust and Trustworthiness-Trust and Distrust- Reciprocity	
V	<b>Review and ASSESSMENT</b>		12
	10	Case study of The Impact of Behavioural Biases on Financial Decision-Making	
	11	<b>Debate on the topic ‘Effectiveness of Nudges in Influencing Behaviour’</b>	

**TEXT BOOK**

David R. Just (2014), Introduction to Behavioral Economics, Wiley

### **ADDITIONAL READINGS**

1. Edward Cartwright (2011), Behavioural Economics, Routledge
2. Erik, A (2012). "A Course in Behavioural Economics", Palgrave Macmillan
3. Peter, D & Variainen (2007) "Behavioural Economics and its applications", PUP
4. Wilkinson N and Hales M, "An Introduction to Behavioural Economics", Palgrave
5. Lazear, Edward P., Ulrike Malmendier, and Roberto A. Weber (2012). "Sorting in Experiments with Application to Social Preferences." American Economic Journal: Applied Economics
6. DellaVigna, List, Malmendier (2012), "Testing for Altruism and Social Pressure in Charitable Giving". Quarterly Journal of Economics
7. Michelle Beddeley (2019), Behavioural Economics and Finance, Rutledge,.
- 8.

### **Course Outcomes**

No.	Upon completion of the course the graduate will be able to	Cognitive Level	PSO addressed
<b>CO-1</b>	Familiarise with the discipline behavioural economics	U	<b>PSO-1</b>
<b>CO-2</b>	Understand the concepts of consumer purchasing decisions	R, U	<b>PSO1</b>
<b>CO-3</b>	Develop analytical skills in evaluating decision-making processes under uncertainty and risk.	Ap	<b>PSO3</b>
<b>CO-4</b>	<b>Critically analyses time Discounting and Social Preferences</b>	<b>E</b>	<b>PSO3,6</b>

**R-Remember, U-Understand, Ap-Apply, An-Analyse, E-Evaluate, C-Create**

*Note: 1 or 2 COs/module*

**Name of the Course: Credits: 4:0:0 (Lecture:Tutorial:Practical)**

CO No.	CO	PO/PSO	Cognitive Level	Knowledge Category	Lecture (L)/Tutorial (T)	Practical (P)
<b>CO-1</b>	Familiarise with	PO1/PSO1	U	C	L	<b>NLI</b>
	the discipline behavioural economics					

<b>CO-2</b>	Understand the concepts of consumer purchasing decisions	PO1/PSO1	R,U	c	L	<b>NIL</b>
<b>CO-3</b>	Develop analytical skills in evaluating decision-making processes under uncertainty and risk.	PO1,2/PSO3	Ap	F	L	<b>NIL</b>
<b>CO-4</b>	Critically analyses time Discounting and Social Preferences	PO 1,2/ PSO3,6	E	F,C	L	<b>NIL</b>
	<b>the discipline behavioural economics</b>					

**F-Factual, C- Conceptual, P-Procedural, M-  
Metacognitive**

### Mapping of COs with PSOs and POs :

	PS O1	PS O2	PS O3	PS O4	PS O5	PS O6	PO 1	PO 2	PO 3	PO 4	PO 5	PO 6	PO 7
<b>CO 1</b>	3	-	-	-	-	-	3	-	-	-	-	-	-
<b>CO 2</b>	3	-	-	-	-	-	3	-	-	-	-	-	-
<b>CO 3</b>	-	-	2		-	-	3	2					
<b>CO 4</b>	-	-	2		-	2	3	2					

### Correlation Levels:

Level	Correlation
-	<b>Nil</b>
1	<b>Slightly / Low</b>
2	<b>Moderate / Medium</b>
3	<b>Substantial / High</b>

### Assessment Rubrics:

- Quiz / Assignment/ Quiz/ Discussion / Seminar

- Midterm Exam
- Programming Assignments
- Final Exam

### Mapping of COs to Assessment Rubrics :

	Internal Exam	Assignment	Project Evaluation	End Semester Examinations
CO 1	✓	✓		✓
CO 2	✓	✓		✓
CO 3	✓	✓		✓
CO 4	✓	✓		✓



### Mar Ivanios College (Autonomous)

Discipline	ECONOMICS				
Course Code	MIUK3DSEECO201.1				
Course Title	ECONOMICS OF INSURANCE				
Type of Course	<b>DSE</b>				
Semester	III				
Academic Level	200-299				
Course Details	Credit	Lecture per week	Tutorial per week	Practical per week	Total Hours/Week
	4	4 Hours	-	-	4
Pre-requisites					
Course Summary	.				

#### Detailed Syllabus:

To be taken from the University Basket.



### Mar Ivanios College (Autonomous)

<b>Discipline</b>	<b>ECONOMICS</b>				
<b>Course Code</b>	MIUK3VACECO200.1				
<b>Course Title</b>	ENVIRONMENTAL ISSUES AND MANAGEMENT				
<b>Type of Course</b>	VAC				
<b>Semester</b>	III				
<b>Academic Level</b>	200-299				
<b>Course Details</b>	Credit	Lecture per week	Tutorial per week	Practical per week	Total Hours/Week
	3	3 hours	-	-	3
<b>Pre-requisites</b>	Good Understanding of Micro Economics A foundational grasp of environmental concepts and associated concerns.				
<b>Course Summary</b>	This course provides a comprehensive examination of the complex interplay between human activities and the environment, with a particular emphasis on environmental issues, notably climate change. Using a multidisciplinary approach, students delve into the scientific, economic, social, and policy aspects of these challenges. Furthermore, the course tackles a range of environmental concerns, including pollution, deforestation, biodiversity loss, and resource depletion, while also exploring the principles of global environmental policies, empowering students to devise solutions for a more sustainable future.				

### Detailed Syllabus:

Module	Unit	Content	Hrs
I	<b>Understanding the Environment</b>		<b>09</b>
	1	Environment; Concept, importance and components.	
	2	Ecosystem; Concept, structure and functions - Ecosystem services	
	3	Natural Resource; Renewable and Non-Renewable .	
	4	Biodiversity: levels, values , threats and conservation – Carrying Capacity of the Environment	
	5	Formation and composition of Earth's atmosphere – Biosphere	



II	<b>Environmental Issues</b>		<b>09</b>
	6	Environmental Issues ; Meaning and Types.	
	7	Environmental Pollution; Types (Air, Water, Soil , Noise, Plastic) , Causes , Consequences and Control.	
	8	Environmental Degradation- Resource Depletion ; Causes and Solutions.	
	9	Global Warming ; Causes and Effects- Green House Gasses , Ozone Layer Depletion.	
	10	Climate Change ; Causes, Impacts, Vulnerability, Risk and Resilience, Adaptation and Mitigation.	
III	<b>Environmental Management</b>		<b>09</b>
	11	Environmental Management; Definition and Scope- Environmental Management System.	
	12	Environmental Protection – Resource Management – Environmental Ethics.	
	13	Environmental Quality and Public Health	
	14	Solid Waste Management- Need, Issues, Best-Practices, Solid Waste Management in Kerala.	
	15	Environmental Impact Assessment	
IV	<b>Environmental Governance and Global Environmental Policy</b>		<b>09</b>
	16	Environmental Governance ; Need , Stakeholders ( Government, NGOs, Corporations , Civil Society, Indigenous People and Local Communities).	
	17	Global Environmental Policy ; Vienna Convention, Montreal Protocol , UNFCCC, Stockholm Convention, Paris Agreement.	
	18	International Environmental Institutions; UNEP, IPCC.	
	19	Sustainable Development ; Meaning and Definition, Sustainable Development Goals.	
V	<b>Activity</b>		<b>09</b>
	20	Embark on field visits to observe and document the environmental challenges and opportunities in your local area. During these visits, conduct site inspections, engage in interviews with stakeholders, and gather relevant environmental data. Compile all collected information into a comprehensive report to analyze the current state of the environment and identify potential avenues for improvement and conservation efforts.	

### Textbook

- Kolstad, C. (2012). Intermediate Environmental Economics (2nd ed.). Oxford University Press.  
9.

### Additional Readings

- Harris, J. M., & Roach, B. (2017). Environmental and Natural Resource Economics: A Contemporary Approach (4th ed.). Routledge.
- Hussain, M., & Ahmed, A. (2000). Principles of Environmental Economics. Routledge.
- Cunningham, W., Cunningham, M., & O'Reilly, C. (2021). Principles of Environmental Science: Inquiry & Applications. McGraw Hill.
- Carson, R. (2000). Silent Spring. Penguin Classics.

### Course Outcomes

No.	Upon completion of the course the graduate will be able to	Cognitive Level	PSO addressed
CO-1	Gain insight into the definition and elements of the environment.	U,R	PSO-1,4
CO-2	Examine the significant issues affecting the environment	Ap,U	PSO-1,2,4
CO-3	Analyze the strategies employed in environmental management.	An, Ap	PSO-1,4,6
CO-4	Evaluate the importance of Environmental Policies in ensuring sustainable development.	E, Ap	PSO-2,4,6

*R-Remember, U-Understand, Ap-Apply, An-Analyse, E-Evaluate, C-Create*

**Name of the Course: Credits: 4:0:0 (Lecture: Tutorial: Practical)**

CO No.	CO	PO/ PSO	Cognitive Level	Knowledge Category	Lecture (L)/ Tutorial (T)	Practical (P)
CO-1	Gain insight into the definition and elements of the environment.	PO-1, 3 PSO-1,4	U R	C	L	-
CO-2	Examine the significant issues affecting the environment.	PO-1,2,3 PSO-1,2,4	Ap,U	C,P	L	-
CO-3	Analyse the strategies employed in environmental management.	PO- 1, 2,3 PSO-1,4,6	An, Ap	P ,M	L	-

CO-4	Evaluate the importance of Environmental Policies in ensuring sustainable development.	PO-1,2,3 PO-2,4,6	1	E, Ap	P, M	L	-
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**F-Factual, C- Conceptual, P-Procedural, M-Metacognitive**

**Mapping of Cos with PSOs and POs :**

	PS O1	PS O2	PS O3	PS O4	PSO 5	PS O6	P O 1	PO 2	PO 3	PO 4	PO 5	PO 6	PO 7
CO 1	2	-	-	3	-	-	2	-	3	-	-	-	-
CO 2	1	2	-	3	-	-	2	1	3	-	-	-	-
CO 3	1	-	-	3	-	2	1	2	3	-	-	-	-
CO 4	-	2	-	3	-	1	1	2	3	-	-	-	-

**Correlation Levels:**

Level	Correlation
-	Nil
1	Slightly / Low
2	Moderate / Medium
3	Substantial / High

**Assessment Rubrics:**

- Quiz / Assignment/ Quiz/ Discussion / Seminar
- Midterm Exam

- Programming Assignments
- Final Exam

### Mapping of Cos to Assessment Rubrics :

	<b>Internal Exam</b>	<b>Assignment</b>	<b>Project Evaluation</b>	<b>End Semester Examinations</b>
<b>CO 1</b>	✓	-	-	✓
<b>CO 2</b>	✓		-	✓
<b>CO 3</b>	✓	✓	-	✓
<b>CO 4</b>	✓	-	-	✓

## SEMESTER IV



## Mar Ivanios College (Autonomous)

<b>Discipline</b>	<b>ECONOMICS</b>				
<b>Course Code</b>	MIUK4DSCECO 250.1				
<b>Course Title</b>	INTERMEDIATE MACROECONOMICS				
<b>Type of Course</b>	<b>DSC</b>				
<b>Semester</b>	IV				
<b>Academic Level</b>	200 - 299				
<b>Course Details</b>	<b>Credit</b>	<b>Lecture per week</b>	<b>Tutorial per week</b>	<b>Practical per week</b>	<b>Total Hours/Week</b>
	4	4 hours	-		4
<b>Pre-requisites</b>	knowledge of Introductory Macroeconomics offered in the previous semester to take up this course.				
<b>Course Summary</b>	Intermediate Macroeconomics is a foundational course in economics that delves deeper into the analysis of aggregate economic phenomena. It builds upon the concepts introduced in Principles of Macroeconomics, focusing on advanced theories, models, and empirical methods used to understand and analyze macroeconomic issues. The course covers topics such as, inflation, unemployment, fiscal and monetary policy analysis in the IS-LM frame work, modern developments in macro economics and business fluctuations. Emphasis is placed on developing students' analytical skills and their ability to apply economic principles to real-world situations.				

**Detailed Syllabus:**

Module	Unit	Content	Hrs
I	<b>INFLATION AND UNEMPLOYMENT</b>		<b>12</b>
	1	Inflation: types -demand-pull and cost-push inflation- the concept of an inflationary and deflationary gap- causes and effects of inflation –control of inflation	
	2	Inflation and unemployment- Phillips curve- stagflation- adaptive expectations-hypothesis and the expectations-augmented-Phillips curve- long-run Phillips curve-natural rate of unemployment- policy implications-Okun’s law.	
II	<b>POLICY EFFECTS IN KEYNESIAN MODELS AND NEO CLASSICAL IS-LM MODELS</b>		<b>12</b>
	3	Fiscal and monetary policy analysis in an IS-LM model- (IS-LM model with government sector) - policy analysis in a Keynesian Model and Neo-classical model - policy analysis in a Neo-classical model- fiscal policy and crowding out effect	
	4	IS-LM model for an open economy	
	5	AD-AS model- AS and AD curves- classical and Keynesian cases- policy analysis	
	<b>MODERN DEVELOPMENTS IN MACROECONOMICS</b>		<b>12</b>
III	6	Monetarism- Monetarist propositions and the Quantity Theory Restatement-The New classical macroeconomics-main propositions- the rational expectations hypothesis	
	7	Supply-side economics-main features- types of supply-side policies- Laffer curve and policy implications	
IV	<b>FLUCTUATIONS, MONETARY AND FISCAL POLICIES</b>		<b>12</b>
	8	Trade cycles- Types and phases- Theories of trade cycle- Stabilization policies- Role of Monetary and Fiscal Policies in maintaining real economic growth with stability.	

V	REVIEW AND ASSIGNMENT		12
	9	Plot inflation and unemployment data of the Indian Economy for the past ten years. Are you able to observe a Phillips relation? Explain.	
10	Presentation of policy implications of the government in controlling the problem of inflation and unemployment in the economy by using the IS-LM model.		

### Text book

1. Richard T. Froyen (2013) Macroeconomics - Theories and Policies, Pearson Education.
2. N. Gregory Mankiw (2018), Macro Economics, Worth Publications, New York.

### Additional Readings

1. Andrew B. Abel, Ben S. Bernanke and Dean Croushore (2017), Macro Economics Pearson Education Limited, Global Edition,
2. Brain Snowdon, Howard R. Vane (2005), A modern guide to Macroeconomics, Edward Elgar, USA
3. Ruder Dornbusch, Fischer Stanely (2013), Macroeconomics.

### Course Outcomes

No.	Upon completion of the course the graduate will be able to	Cognitive Level	PSO addressed
CO-1	Evaluate the relationship between inflation and unemployment as well as assessing the policy implications of inflation-unemployment dynamics.	E	PSO 3
CO-2	Assess the effectiveness of monetary and fiscal policies in Keynesian and classical case in achieving macroeconomic goals.	E	PSO3

CO3	Identify and summarize the modern developments in macroeconomics	U	PSO1
CO4	Explain the causes and consequences of business cycles and fluctuations in aggregate economic activity.	An	PSO3

**R-Remember, U-Understand, Ap-Apply, An-Analyse, E-Evaluate, C-Create**

*Note: 1 or 2 COs/module*

**Name of the Course: Credits: 4:0:0 (Lecture:Tutorial:Practical)**

CO No.	CO	PO/PSO	Cognitive Level	Knowledge Category	Lecture (L)/Tutorial (T)	Practical (P)
CO-1	Evaluate the relationship between inflation and unemployment as well as assessing the policy implications of inflation-unemployment dynamics.	PO1,2,4,5/PSO3	E	F, C, M	L	-
CO-2	Assess the effectiveness of monetary and fiscal policies in Keynesian and classical	PO1,2/P SO3	E	P	L	-



	case in achieving macroeconomic goals.					
CO3	Identify and summarize the modern developments in macroeconomic s	PO1/PS O1	U	C	L	-
CO4	Explain the causes and consequences of business cycles and fluctuations in aggregate economic activity.	PO1,3/P SO3	An	C	L	-

**F-Factual, C- Conceptual, P-Procedural, M-Metacognitive**

**Mapping of COs with PSOs and POs:**

	PS O1	PS O2	PS O3	PS O4	PS O5	PS O6	PO 1	PO 2	PO 3	PO 4	PO 5	PO 6	PO 7
<b>CO 1</b>			2				3	2		2	1		
<b>CO 2</b>			2				3	1					

CO 3	3						3						
CO 4		2					3		2				

**Correlation Levels:**

Level	Correlation
-	Nil
1	Slightly / Low
2	Moderate / Medium
3	Substantial / High

**Assessment Rubrics:**

- Quiz / Assignment/ Quiz/ Discussion / Seminar
- Midterm Exam
- Programming Assignments
- Final Exam

**Mapping of COs to Assessment Rubrics :**

	Internal Exam	Assignment	Project Evaluation	End Semester Examinations
CO 1	✓	✓		✓
CO 2	✓	✓		✓
CO 3	✓			✓
CO 4	✓			✓



### Mar Ivanios College (Autonomous)

<b>Discipline</b>	<b>ECONOMICS</b>				
<b>Course Code</b>	MIUK4DSCECO251.1				
<b>Course Title</b>	MATHEMATICAL METHODS FOR ECONOMIC ANALYSIS				
<b>Type of Course</b>	DSC				
<b>Semester</b>	IV				
<b>Academic Level</b>	200 - 299				
<b>Course Details</b>	Credit	Lecture per week	Tutorial per week	Practical per week	Total Hours/Week
	4	4 hours	-	0 Hours	4
<b>Pre-requisites</b>	1. Basic Mathematical Skills 2. A Good Understanding of Micro Economics				
<b>Course Summary</b>	This course fosters a robust comprehension and adeptness in mathematical methods essential for proficient economic analysis.				

### Detailed Syllabus:

Module	Unit	Content	Hrs
I	<b>Basic Concepts</b>		<b>10</b>
	1	Functions ; Linear, Quadratic, Polynomial, Rational, Power-Economic Functions	
	2	Equations ; Linear, Quadratic and Simultaneous	
	3	Variables ; Discrete, Continuous, Constants, Coefficients	
	4	Introduction to Co-ordinate Geometry; Graphs, Slopes and Intercept	
II	<b>Matrix Algebra</b>		<b>13</b>
	5	Meaning and types of Matrices- Matrix Operations, Addition, Subtraction and Multiplication	
	6	Properties of Matrix Multiplication- Determinants and their properties	
	7	Simultaneous Equations: Inverse Matrix and Cramer's Rule	
	8	Rank of a Matrix	
III	<b>Differential Calculus</b>		<b>15</b>
	9	Meaning and Rules of Differentiation	
	10	Partial differentiation- Multivariable Differentiation	
	11	Relative Extrema and Optimization; Constrained optimisation with Lagrange Method.	

	12	Economic applications of Derivatives ;Marginal Concepts, Marginal Cost, Marginal Utility, Marginal Revenue, Marginal Productivity	
	13	Optimising Economic Functions	
IV	<b>Integral Calculus</b>		<b>10</b>
	14	Meaning and Rules of Integration	
	15	Integration by Substitution-Integration by Parts	
	16	Definite and Indefinite Integrals	
	17	Economic Applications of Integral Calculus: Total Cost, Total Revenue, Total Utility, Capital Formation. Consumer Surplus and Producer's Surplus	
V	<b>Practice Sessions</b>		<b>12</b>
	18	Practice Problems on the Applications of Matrix Algebra in solving Simultaneous Equations in Economics.	
	19	Practice Problems on Applications of Differentiation and Integration in Economics.	

**Textbook:**

- Chiang, A. C., & Wainwright, K. (Year). Fundamental Methods of Mathematical Economics (Edition). McGraw-Hill. (Include specific chapters: 1, 4, 5, 6, 12, 14).

**Additional Readings:**

- Dowling, E. T. Introduction to Mathematical Economics. Schaum's Outline Series, McGraw Hill, New Delhi. (Include specific chapters: 1, 2, 3, 6, 10, 11, 14, 15).
- Silvanus P.T. (2016). Calculus Made Easy(2<sup>nd</sup> ed.). February 8<sup>th</sup>, 2016.
- Allen, R. G. D. (1990). Mathematical Economics (6<sup>th</sup> ed.). Macmillan.

**Course Outcomes**

No.	Upon completion of the course the graduate will be able to	Cognitive Level	PSO addressed
CO-1	Understand and Apply the concepts of Equations , Functions, and Coordinate Geometry in Economics.	Ap, U	1,3
CO-2	Examine and Analyse the Principles of Matrix	An,E	1,3

	Algebra.		
CO-3	Apply the concepts of differential calculus in the field of economics and make rigorous analysis.	An, Ap	1,2,3
CO-4	Apply integration principles to analyze economic scenarios and their implications.	An,Ap	1,2,3

**R-Remember, U-Understand, Ap-Apply, An-Analyse, E-Evaluate, C-Create**

**Name of the Course: Credits: 4:0:0 (Lecture:Tutorial:Practical)**

**F-Factual, C- Conceptual, P-Procedural, M-Metacognitive**

CO No.	CO	PO/PS O	Cognitive Level	Knowledge Category	Lecture (L)/Tutorial (T)	Practical (P)
Co-1	Understand and Apply the concepts of Equations, Functions, and Coordinate Geometry in Economics.	PO : 1,5,6 PSO : 1,3	Ap,U	P,C,F	L	-
Co-2	Examine and Analyse the Principles of Matrix Algebra	PO : 1,5,6 PSO : 1,3	An,E	P,C,F	L	-
Co-3	Apply the concepts of differential calculus in the	PO : 1,2,5,6 PSO :	An,Ap	P,C,F	L	-

	field of economics and make rigorous analysis.	1,2,3				
Co-4	Apply integration principles to analyze economic scenarios and their implications.	PO : 1,2,5,6 PSO : 1,2,3	An,Ap	P,C,F	L	-

**Mapping of COs with PSOs and POs :**

	PSO 1	PSO 2	PSO 3	PSO 4	PSO 5	PSO 6	PO 1	PO 2	PO 3	PO 4	PO 5	PO 6	PO 7
CO 1	2	-	3	-	-	-	3	-	-	-	1	2	-
CO 2	2	-	3	-	-	-	2	-	-	-	1	3	-
CO 3	2	1	3	-	-	-	2	1	-	-	1	3	-
CO 4	2	1	3	-	-	-	2	1	-	-	1	3	-

**Correlation Levels:**

Level	Correlation
-	Nil
1	Slightly / Low

2	Moderate / Medium
3	Substantial / High

**Assessment Rubrics:**

- Quiz / Assignment/ Quiz/ Discussion / Seminar
- Midterm Exam
- Programming Assignments
- Final Exam

**Mapping of COs to Assessment Rubrics :**

	<b>Internal Exam</b>	<b>Assignment</b>	<b>Project Evaluation</b>	<b>End Semester Examinations</b>
<b>CO 1</b>	✓			✓
<b>CO 2</b>	✓			✓
<b>CO 3</b>	✓			✓
<b>CO 4</b>	✓	✓		✓



**Mar Ivanios College (Autonomous)**

Discipline	ECONOMICS				
Course Code	MIUK4DSEECO 250.1				
Course Title	ENVIRONMENTAL ECONOMICS				
Type of Course	<b>DSE</b>				
Semester	IV				
Academic Level	200-299				
Course Details	Credit	Lecture per week	Tutorial per week	Practical per week	Total Hours/Week
	4	4 Hours	-	-	4
Pre-requisites	1. Comprehensive Understanding of Micro Economics. 2. Basic Understanding of Environment and its related issues.				
Course Summary	This course offers a comprehensive examination of how economic principles and theories are applied to environmental issues and resource management. It equips students with analytical tools and frameworks necessary to understand and tackle environmental challenges from an economic standpoint. Moreover, it fosters the development of skills in policy analysis and decision-making within the realm of environmental economics.				

**Detailed Syllabus:**

Module	Unit	Content	Hours
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<b>I</b>	<b>Fundamentals of Environmental Economics</b>		<b>12</b>
	1	Basic Concepts ; Environmental Economics, Ecological Economics.	
	2	Environmental Economics ; Nature, Scope and Approaches.	
	3	Global Status of ecosystem services – Nature and poverty – Economy and Environment Interaction (Material Balance Model), Laws of Thermodynamics- Simon Julian’s thesis of “ultimate resources”.	
	4	Green Economy ; Carbon credit, Carbon neutrality, Green Energy, Green Marketing , Green Accounting.	
<b>II</b>	<b>Theory of Externalities</b>		<b>12</b>
	5	Market system and environmental externalities .	
	6	Pareto optimum and Market failure in the presence of Externalities	
	7	Tragedy of the Commons - Property rights and the Coase theorem.	
	8	Environmental Kuznet’s curve.	
<b>III</b>	<b>Environmental Policy and Tools for Analysis</b>		<b>12</b>
	9	Pigouvian Taxes and Effluent Charges.	
	10	Economics of Tradable Permits	
	11	Environmental Valuation – Types of Economic Values – Valuation Techniques– Direct Methods (Production function approach, Replacement Costs, and Cost of Illness). Indirect Methods: Revealed Preference Methods (Hedonic Pricing Method and Travel Cost Method), Random Utility/ Discrete	

		Choice Models, Averting Behaviour Model, Stated Preference Methods (Contingent Valuation Method, Discrete Choice Methods)	
	12	Cost Benefit Analysis – Sensitivity and Risk Analysis	
<b>IV</b>	<b>Climate Change and Sustainable Development</b>		<b>12</b>
	13	Climate Change; Causes, Impact, Vulnerability, Adaptation and Resilience – Climate Smart Agriculture.	
	14	Economics of Climate Change – Conventions, Agreements and Institutions.	
	15	Sustainable Development; Concept & Measurement, Sustainability.	
	16	Sustainable Development Goals	
<b>V</b>	<b>Activities</b>		<b>12</b>
	17	Write a report narrating your personal experiences in identifying & reducing Negative Externalities in & around your life. Attach photographs of the specific practices that you did.	
	18	Case Study: Visit a local site facing climate change problems and prepare a case study on the socio-economic and environmental impacts of Climate change on the locality.	

**Textbook**

- Kolstad, C. (2012). Intermediate Environmental Economics (2<sup>nd</sup> ed.). Oxford University Press.

### Additional Readings

- Harris, J. M., & Roach, B. (2017). Environmental and Natural Resource Economics: A Contemporary Approach (4<sup>th</sup> ed.). Routledge.
- Hussain, M., & Ahmed, A. (2000). Principles of Environmental Economics. Routledge.
- Cunningham, W., Cunningham, M., & O'Reilly, C. (2021). Principles of Environmental Science: Inquiry & Applications. McGraw Hill.

### Course Outcomes

No.	Upon completion of the course the graduate will be able to	Cognitive Level	PSO addressed
CO-1	Understand the concept and significance of environmental economics.	U R	PSO-1,4
CO-2	Examine the theory and market system of externalities	Ap,U	PSO-1,2,4
CO-3	Analyze the various economic policy tools for environmental valuation	An, Ap	PSO-1,4,6
CO-4	Evaluate the challenges posed by climate change and assess the principles underlying sustainable development.	E, Ap	PSO-2,4,6

**R-Remember, U-Understand, Ap-Apply, An-Analyse, E-Evaluate, C-Create**

*Note: 1 or 2 COs/module*

**Name of the Course: Credits: 4:0:0 (Lecture:Tutorial:Practical)**

CO No.	CO	PO/PSO	Cognitive Level	Knowledge Category	Lecture (L)/Tutorial (T)	Practical (P)
CO-1	Understand the concept and significance of environmental economics.	PO-1, 3 PSO-1,4	U,R	C,F	L	-
CO-2	Examine the theory and market system of externalities	PO-1,2,3 PSO-1,2,4	Ap,U	C,P	L	-
CO-	Analyze the various	PO- 1,	An, Ap	P,M	L	-

3	economic policy tools for environmental valuation	2,3 PSO-1,4,6				
CO-4	Evaluate the challenges posed by climate change and assess the principles underlying sustainable development.	PO- 1 2,3 PSO-2,4,6	E, Ap	P,M	L	-

**F-Factual, C- Conceptual, P-Procedural, M-Metacognitive**

**Mapping of COs with PSOs and POs :**

	PSO 1	PSO 2	PSO 3	PSO4	PS O5	PSO 6	PO1	PO2	PO3	PO4	PO5	PO6	PO7
CO 1	2	-	-	3	-	-	2	-	3	-	-	-	-
CO 2	1	2	-	3	-	-	2	1	3	-	-	-	
CO 3	1	-	-	3	-	2	1	2	3	-	-	-	-
CO 4	-	2	-	3	-	1	1	2	3	-	-	-	-

**Correlation Levels:**

Level	Correlation
-	Nil
1	Slightly / Low
2	Moderate / Medium
3	Substantial / High

**Assessment Rubrics:**

- Quiz / Assignment/ Quiz/ Discussion / Seminar
- Midterm Exam
- Programming Assignments
- Final Exam

**Mapping of COs to Assessment Rubrics :**

	Internal Exam	Assignment	Project Evaluation	End Semester Examinations
CO 1	✓			✓
CO 2	✓			✓
CO 3	✓			✓
CO 4	✓	✓		✓



### Mar Ivanios College (Autonomous)

Discipline	ECONOMICS				
Course Code	MIUK4DSEECO251.1				
Course Title	FOUNDATIONS OF DATA SCIENCE				
Type of Course	<b>DSE</b>				
Semester	IV				
Academic Level	200-299				
Course Details	Credit	Lecture per week	Tutorial per week	Practical per week	Total Hours/Week
	4	4 Hours	-	-	4
Pre-requisites					
Course Summary	.				

### Detailed Syllabus:

To be taken from the University Basket.



### Mar Ivanios College (Autonomous)

Discipline	ECONOMICS				
Course Code	MIUK4VACECO 250.1				
Course Title	WOMEN AND DEVELOPMENT				
Type of Course	<b>VAC</b>				
Semester	IV				
Academic Level	200-299				
Course Details	Credit	Lecture per week	Tutorial per week	Practical per week	Total Hours/Week
	3	3 Hours	-	-	3
Pre-requisites					
Course Summary	.				

#### Detailed Syllabus:

To be taken from the University Basket.



### Mar Ivanios College (Autonomous)

<b>Discipline</b>	<b>ECONOMICS</b>				
<b>Course Code</b>	MIUK4VACECO 251.1				
<b>Course Title</b>	DISASTER MANAGEMENT				
<b>Type of Course</b>	VAC				
<b>Semester</b>	IV				
<b>Academic Level</b>	200 - 299				
<b>Course Details</b>	Credit	Lecture per week	Tutorial per week	Practical per week	Total Hours/Week
	3	3			3
<b>Pre-requisites</b>	1. Basic understanding of global trends in disaster risk.				
<b>Course Summary</b>	This course provides an overview of disaster management principles, practices, and strategies. Students will explore the concepts of disaster risk reduction, preparedness, response, and recovery, with a focus on understanding the causes and impacts of disasters and developing effective mitigation and management strategies.				

#### Detailed Syllabus:

Module	Unit	Content	Hrs
I	<b>Introduction to Disaster Management</b>		<b>9</b>
	1	Definition and scope of disaster management	
	2	Historical overview of disasters and disaster management	
	3	Key concepts and terminology in disaster management	
	4	Natural disasters (earthquakes, floods, hurricanes, etc.) Human-made disasters (industrial accidents, terrorism, etc.)	
	5	Economic impacts of disasters, including direct costs (damage to infrastructure, loss of property) and indirect costs (disruption of economic activities, loss of income, migration). Impact on local economies, businesses, and livelihoods	
II	<b>Disaster Risk Assessment and Mapping</b>		<b>9</b>
	6	Risk assessment methodologies and tools	
	7	Hazard mapping and vulnerability analysis Economic rationale for conducting risk assessments and hazard mapping	
	8	Role of technology in disaster risk assessment	
	9	Role of early warning systems in disaster management Economic benefits of investing in early warning systems Cost -Benefit analysis	



III	<b>Disaster Preparedness, Response and Recovery</b>		<b>13</b>
	10	Importance of disaster preparedness	
	11	Components of disaster preparedness plans Resource allocation, budgeting, and cost-effectiveness of preparedness measures	
	12	Community-based disaster preparedness initiatives	
	13	Phases of disaster response (search and rescue, medical care, etc.)	
	14	Coordination mechanisms and agencies in disaster response	
	15	Challenges and best practices in disaster response operations	
	16	Principles of disaster recovery and rehabilitation	
	17	Long-term recovery planning and implementation	
IV	<b>Disaster Risk Reduction and Mitigation</b>		<b>5</b>
	19	Principles of disaster risk reduction (DRR) Economic principles of disaster risk reduction and mitigation, such as cost-effective mitigation measures, risk transfer mechanisms (insurance), and incentive-based approaches to promote resilience.	
	20	Mitigation strategies for different types of disasters	
	21	Community-based approaches to DRR	
V	<b>Challenges and Trends in Disaster Management</b>		<b>9</b>
	22	Case Studies in Disaster Management -Lessons learned from disaster management experiences	
	23	Application of theoretical concepts to real-world scenarios Analyze case studies that examine the economic dimensions of disaster management, including the role of economic incentives, public-private partnerships, and resource allocation in effective disaster response and recovery.	

### TEXTBOOK

1. "Introduction to International Disaster Management" by Damon P. Coppola (2006)

### ADDITIONAL READING

1. "Disaster Management: Principles and Practices" by C. S. Rao (2006)
2. "Disasters and Public Health: Planning and Response" edited by Bruce W. Clements, Julie Casani, and Paul D. Biddinger (2011)
3. "Community-Based Disaster Risk Reduction" by Rajib Shaw, Anshu Sharma, and Yukiko Takeuchi (2010)
4. "Handbook of Disaster Research" edited by Havidán Rodríguez, Enrico L. Quarantelli, and Russell Dynes (2006)
5. "Climate Change and Disaster Risk Management" by Walter Leal Filho, Gustavo J. Nagy, and Marcos S. Salgado (2019)

6. "Humanitarian Logistics: Meeting the Challenge of Preparing for and Responding to Disasters" by Peter Tatham and Martin Christopher (2012)
7. "Disaster Risk Reduction: Cases from Urban Africa" edited by Mark Pelling and Cassidy Johnson (2016)

### Course Outcomes

No.	Upon completion of the course the graduate will be able to	Cognitive Level	PSO addressed
CO-1	Understand the concepts and theories of disaster management.	U	PSO 1, 4
CO-2	Analyze the causes and impacts of natural and human-made disasters.	An	PSO 3, 4
CO-3	Examine disaster risk assessment, preparedness, and planning.	An	PSO 3, 4
CO-4	Explore strategies for effective disaster response and recovery.	E	PSO 3, 4, 5, 6

**R-Remember, U-Understand, Ap-Apply, An-Analyze, E-Evaluate, C-Create**

**Name of the Course: Credits: 3:0:0 (Lecture:Tutorial:Practical)**

CO No.	CO	PO/PSO	Cognitive Level	Knowledge Category	Lecture (L)/Tutorial (T)	Practical (P)
CO-1	Understand the concepts and theories of disaster management.	PO- 1,3 PSO- 1, 4	U	C	L	
CO-2	Analyze the causes and impacts of natural and human-made disasters.	PO-1,2,3 PSO -3, 4	An	P	L	
CO-3	Examine disaster risk assessment, preparedness,	PO- 1,2,3,5,7	An	P	L	

	and planning.	PSO-3, 4				
CO-4	Explore strategies for effective disaster response and recovery.	PO- 1,2,3,4,5,7 PSO- 3, 4, 5, 6	E	M	L	

**F-Factual, C- Conceptual, P-Procedural, M-Metacognitive**

**Mapping of COs with PSOs and POs :**

	PS O1	PS O2	PS O3	PSO 4	PS O5	PS O6	PO 1	PO 2	PO 3	PO 4	PO 5	PO 6	PO 7
CO 1	3	-	-	3	-	-	3	-	3	-	-	-	-
CO 2	-	-	2	3	-	-	2	3	3	-	-	-	-
CO 3	-	-	2	3	-	1	2	3	3	-	1	-	3
CO 4	-	-	2	3	1	2	2	3	3	1	2	-	3

**Correlation Levels:**

Level	Correlation
-	Nil
1	Slightly / Low
2	Moderate / Medium
3	Substantial / High

**Assessment Rubrics:**

- Quiz / Assignment/ Quiz/ Discussion / Seminar
- Midterm Exam
- Programming Assignments
- Final Exam

**Mapping of COs to Assessment Rubrics :**

	<b>Internal Exam</b>	<b>Assignment</b>	<b>Project Evaluation</b>	<b>End Semester Examinations</b>
<b>CO 1</b>	✓			✓
<b>CO 2</b>	✓			✓
<b>CO 3</b>				✓
<b>CO 4</b>		✓		✓



### Mar Ivanios College (Autonomous)

<b>Discipline</b>	<b>ECONOMICS</b>				
<b>Course Code</b>	MIUK4SECECO 250.1				
<b>Course Title</b>	ECONOMICS OF STARTUP				
<b>Type of Course</b>	SEC				
<b>Semester</b>	IV				
<b>Academic Level</b>	200 - 299				
<b>Course Details</b>	<b>Credit</b>	<b>Lecture per week</b>	<b>Tutorial per week</b>	<b>Practical per week</b>	<b>Total Hours/Week</b>
	3	3			3
<b>Pre-requisites</b>	<ol style="list-style-type: none"> <li>1. Introductory Microeconomics</li> <li>2. Introductory Macroeconomics</li> </ol>				
<b>Course Summary</b>	<p>This course provides an in-depth exploration of the economic principles underlying business innovation and entrepreneurship, with a focus on starting a startup in India. Students will learn about the process, skills, and techniques required to initiate and sustain a startup venture in the dynamic business environment of India. Topics covered include economic theories of innovation, startup ecosystem in India, business model development, financing options, regulatory frameworks, and strategies for growth and scalability.</p>				

**Detailed Syllabus:**

Module	Unit	Content	Hrs
I	<b>Introduction to Business Innovation and Entrepreneurship</b>		<b>6</b>
	1	Definition and importance of business innovation	
	2	Economic theories of innovation (Schumpeterian, neoclassical, evolutionary)	
	3	Characteristics of successful entrepreneurs	
	4	Overview of startup ecosystem in India	
II	<b>Business Model Development</b>		<b>12</b>
	5	Identifying Opportunities and Developing Business Ideas  Methods for identifying market opportunities  Creativity techniques for idea generation  Evaluating business ideas: feasibility analysis, SWOT analysis  Lean startup methodology and minimum viable product (MVP) development	
	6	Business Model Development and Market Research**  Understanding business models: types and components  Value proposition design  Market segmentation and target audience identification  Conducting market research: qualitative and quantitative methods	
III	<b>Legal and Regulatory Frameworks for Startups in India</b>		<b>6</b>
	7	Company registration and legal structure options (sole proprietorship, partnership, LLP, private limited company)	

	8	Intellectual property rights (patents, trademarks, copyrights)	
	9	Compliance requirements and regulations for startups in India	
IV	<b>Financing Options, Scaling Up and Growth Strategies</b>		<b>12</b>
	10	<p>Financing Options for Startups</p> <p>Sources of funding: bootstrapping, angel investors, venture capital, crowdfunding</p> <p>Government schemes and incentives for startups in India</p> <p>Pitching to investors: creating a compelling pitch deck</p>	
	11	<p>Scaling Up and Growth Strategies</p> <p>Strategies for scaling a startup business</p> <p>Building a strong team and organizational culture</p> <p>Expanding market reach: domestic and international expansion</p> <p>Exit strategies: mergers and acquisitions, IPOs</p>	
V	<b>Case Studies, Guest Lecture and Project Work</b>		<b>6</b>
	12	Analysis of successful startup case studies from India	
	13	Guest lectures from entrepreneurs, investors, and industry experts	
	14	Group project: Develop a business plan for a startup venture in India	

### TEXTBOOKS

1. "The Lean Startup: How Today's Entrepreneurs Use Continuous Innovation to Create Radically Successful Businesses" by Eric Ries (2011).
2. "Startup India: Standup India" by Pankaj Diwan (2016).
3. "Zero to One: Notes on Startups, or How to Build the Future" by Peter Thiel and Blake Masters (2014).

### ADDITIONAL READINGS

1. "India Startup Report 2021" by NASSCOM (2021).

2. "Startup Opportunities: Know When to Quit Your Day Job" by Brad Feld and Sean Wise (2015).
3. "Indian Startup Ecosystem: An Opportunity Not to Miss" by Rashmi Dalvi (2019).
4. "The Innovator's Dilemma: When New Technologies Cause Great Firms to Fail" by Clayton M. Christensen (1997).
5. "Startup India: Insights from the Frontlines" by Vir Kashyap and Mahendra Ramsinghani (2017).
6. "The Startup Owner's Manual: The Step-by-Step Guide for Building a Great Company" by Steve Blank and Bob Dorf (2012).
7. "The Art of the Start 2.0: The Time-Tested, Battle-Hardened Guide for Anyone Starting Anything" by Guy Kawasaki (2015).

### Course Outcomes

No.	Upon completion of the course the graduate will be able to	Cognitive Level	PSO addressed
CO-1	Understand the economic theories and concepts of entrepreneurship.	U	PSO 1,2,5
CO-2	Identify the opportunities and models developing business ideas.	U	PSO 3,5
CO-3	Explore the process, skills, and techniques required to initiate and sustain a startup venture.	E	PSO 3,5
CO-4	Develop a business plan for a startup venture in India	C	PSO 3,5

**R-Remember, U-Understand, Ap-Apply, An-Analyse, E-Evaluate, C-Create**

**Name of the Course: Credits: 4:0:0 (Lecture:Tutorial:Practical)**

CO No.	CO	PO/PSO	Cognitive Level	Knowledge Category	Lecture (L)/Tutorial (T)	Practical (P)
CO-	Understand the economic theories and	PO-1,4,5	U	C	L	



1	concepts of entrepreneurship.	PSO - 1,2,5				
CO-2	Identify the opportunities and models developing business ideas.	PO- 1,2,4,5 PSO- 3,5	An	P	L	
CO-3	Explore the process, skills, and techniques required to initiate and sustain a startup venture.	PO- 1,2,4,5 PSO -3,5	An	P	L	
CO-4	Develop a business plan for a startup venture in India	PO- 1,2,4,5 PSO- 3,5	E	M	L	

**F-Factual, C- Conceptual, P-Procedural, M-Metacognitive**

**Mapping of COs with PSOs and POs :**

	PS O1	PS O2	PS O3	PS O4	PS O5	PS O6	PO 1	PO 2	PO 3	PO 4	PO 5	PO 6	PO 7
<b>CO 1</b>	3	2	-	-	3	-	3	-	-	2	3	-	-
<b>CO 2</b>	-	-	3	-	3	-	2	3	-	3	3	-	-
<b>CO 3</b>	-	-	3	-	3	-	2	3	-	3	3	-	-
<b>CO 4</b>	-	-	3	-	3	-	2	3	-	3	3	-	1

**Correlation Levels:**

Level	Correlation
-	Nil
1	Slightly / Low
2	Moderate / Medium
3	Substantial / High

**Assessment Rubrics:**

- Quiz / Assignment/ Quiz/ Discussion / Seminar
- Midterm Exam
- Programming Assignments
- Final Exam

**Mapping of COs to Assessment Rubrics :**

	Internal Exam	Assignment	Project Evaluation	End Semester Examinations
CO 1	✓			✓
CO 2	✓			✓
CO 3				✓
CO 4			✓	✓

## SEMESTER V



## Mar Ivanios College (Autonomous)

<b>Discipline</b>	<b>ECONOMICS</b>				
<b>Course Code</b>	MIUK5 DSCECO 300.1				
<b>Course Title</b>	ECONOMICS OF GROWTH AND DEVELOPMENT				
<b>Type of Course</b>	DSC				
<b>Semester</b>	V				
<b>Academic Level</b>	300 - 399				
<b>Course Details</b>	Credit	Lecture	Tutorial	Practical	Total Hours/Week
		per week	per week	per week	
	4	4 hours	-		4
<b>Pre-requisites</b>	NIL				
<b>Course Summary</b>	Economics of Growth and Development is a foundational course that explores the theories, concepts, and empirical evidence related to economic growth and development. The course begins by examining the characteristics of underdevelopment factors influencing growth and development and various approaches to development. It then discusses various measures of economic growth and development, including Gross				

National Product (GNP), per capita income, and alternative indicators such as the Physical Quality of Life Index (PQLI), Human Development Index (HDI), Human Poverty Index (HPI). Additionally, the course covers theories and approaches to development, including classical, Marxian, neoclassical's, neokeynesian's and endogenous growth models. Topics related to income inequality and poverty are also explored.

### Detailed Syllabus:

Module	Unit	Content	Hrs
I	<b>INTRODUCTION TO ECONOMICS OF GROWTH AND DEVELOPMENT</b>		<b>12</b>
	1	Economic growth and economic development: Definitions and Distinctions—World Bank classification of countries-Low, Lower middle, Upper middle and High -Obstacles to Development—Development Gap—Concept of sustainability-Sustainable development goals	
	2	Approaches to Development-Lebenstein's critical minimum effort thesis, Big Push theory-Balanced and Unbalanced growth - Rostow's stages of growth- Lewis theory of unlimited supply of labour, Dualistic Theories-Technological dualism and social dualism -Myrdal's theory of cumulative causation.  Perspectives on Economic Development: Insights from Sen, Banerjee, Goldin, Piketty,	
II	<b>MEASURES OF ECONOMIC GROWTH AND DEVELOPMENT-</b>		<b>12</b>
	3	Measures of economic growth and development-GNP and Per	

		capita income.  Dimensions of development and their indicators — Physical Quality of Life Index, Human Development Index, Human Poverty Index - Multi-Dimensional Poverty Index -Happiness Index - Green Index	
III	<b>THEORIES OF DEVELOPMENT AND GROWTH MODELS</b>		<b>12</b>
	4	Views of Development: Adam Smith, David Ricardo, T R Malthus, Karl Marx and Schumpeter	
	5	Growth models: Neoclassical model of Robert M Solow, Neo Keynesian model of Joan Robinson, Harrod- Domar model	
	6	Endogenous growth models-Romer,Lucas	
IV	<b>CONCEPTS OF INCOME INEQUALITY AND POVERTY</b>		<b>12</b>
	7	Income distribution -Concepts of income inequality-Horizontal and vertical inequality- Kuznets inverted U hypothesis  Measures of inequality: Lorenz curve- Gini coefficient  Poverty -absolute and relative -Measurement of poverty- Head count Index-Poverty Gap Indices	
V	<b>REVIEW AND ASSIGNMENT</b>		<b>12</b>
	8	Prepare an essay based on the HDI report of the last five years using the UN data base and analyse India's development experience.	
	9	Conduct a debate on the theme "Relevance of Lewis's theory of unlimited supply of labour in the Indian context"	

### 10. Field Trip

11. To enhance the learning experience, participation in a Mandatory Field Trip is recommended as a component of this course. Upon completion of

the Field Trip, a comprehensive report is to be submitted to the Head of the Department.

#### 12. TEXTBOOKS;

13. Todaro and Smith, Economic Development, Pearson Education, New Delhi (recent

14. edition).

#### 15. ADDITIONAL READINGS

1. Thirlwall, A.P (recent edition), Growth and Development with Special Reference to to developing economies
2. Meier, G.M. (2007), Leading Issues in Economic Development, Oxford University Press, New Delhi.
3. Subrata Ghatak (Third Edition), Introduction to Development Economics, Routledge London and New York.
4. Thaneja, M.L and R M Myer (2014): The Economics of Development and Planning, Vishal Publishing Co, Punjab.
5. Benjamin Higgins (1968), Economic Development, Universal Book Stall, NewDelhi.

### Course Outcomes

No.	Upon completion of the course the graduate will be able to	Cognitive Level	PSO addressed
CO-1	Analyze the characteristics of underdevelopment and identify the factors influencing economic growth and development.	An	PSO2,3
CO-2	Evaluate different measures of economic growth and development.	E	PSO3
CO-3	Critically analyse theories and approaches to development, and evaluate their relevance in different contexts.	An, E	PSO2,3
CO	Explain the relationship between inequality and poverty	U, E	PSO2,3

4	and evaluate conflicting perspectives and policy recommendations.		
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**R-Remember, U-Understand, Ap-Apply, An-Analyse, E-Evaluate, C-Create**

*Note: 1 or 2 COs/module*

**Name of the Course: Credits: 4:0:0 (Lecture:Tutorial:Practical)**

CO No.	CO	PO/PSO	Cognitive Level	Knowledge Category	Lecture (L)/Tutorial (T)	Practical (P)
CO1	Analyze the characteristics of underdevelopment and identify the factors influencing economic growth and development.	PO1,2/P SO2,3	Un	C	L	-
CO2	Evaluate different measures of economic growth and development.	PO1,2,4/ PSO3	E	C	L	-
CO3	Critically analyze theories and approaches to development, and evaluate their relevance in different	PO1,2,4 /PSO2,3	An,E	C	L	-

	contexts.					
CO4	Explain the relationship between population growth, quality of life, and economic development, and evaluate conflicting perspectives and policy recommendations.	PO1,2,4,5 /PSO2,3	U,E	C	L	-

**F-Factual, C- Conceptual, P-Procedural, M-Metacognitive**

**Mapping of COs with PSOs and POs:**

	PS O1	PS O2	PS O3	PSO 4	PS O 5	PS O6	PO 1	PO 2	PO 3	PO 4	PO 5	PO 6	PO 7
CO 1		3	2				3		2				
CO 2			2				3	1		1			
CO 3		2	2				3	2		2			
CO 4		3	2				3	3		2	2		

**Correlation Levels:**

Level	Correlation
-	Nil
1	Slightly / Low
2	Moderate / Medium
3	Substantial / High



**Assessment Rubrics:**

- Quiz / Assignment/ Quiz/ Discussion / Seminar
- Midterm Exam
- Programming Assignments
- Final Exam

**Mapping of COs to Assessment Rubrics :**

	<b>Internal Exam</b>	<b>Assignment</b>	<b>Project Evaluation</b>	<b>End Semester Examinations</b>
<b>CO 1</b>	✓	✓		✓
<b>CO 2</b>	✓			✓
<b>CO 3</b>	✓	✓		✓
<b>CO 4</b>	✓			✓



Mar Ivanios College (Autonomous)

<b>Discipline</b>	<b>ECONOMICS</b>				
<b>Course Code</b>	MIUK5DSCECO 301.1				
<b>Course Title</b>	FINANCIAL SYSTEM AND MARKETS				
<b>Type of Course</b>	DSC				
<b>Semester</b>	V				
<b>Academic Level</b>	300 - 399				
<b>Course Details</b>	<b>Credit</b>	<b>Lecture per week</b>	<b>Tutorial per week</b>	<b>Practical per week</b>	<b>Total Hours/Week</b>
	4	4			4
<b>Pre-requisites</b>	1. Basic Understanding about Money and Banking 2. Basic Understanding about the Indian Economy				
<b>Course Summary</b>	This course provides a comprehensive overview of the financial system and markets, covering the structure, components, and functions of financial institutions, markets, and instruments. Students will examine the role of the financial system in economic development, explore the dynamics of money and capital markets, and analyze the sources and types of financial instruments. Additionally, the course will discuss global and domestic finance, non-bank finance sources, major investment groups, and current issues in financial economics.				

**Detailed Syllabus:**

Module	Unit	Content	Hrs
I	<b>Nature and Role of Financial System</b>		<b>9</b>
	1	Structure of Financial system: Financial institutions, financial markets, financial instruments and financial services	
	2	Financial system and economic development	
	3	Indicators of financial development - Cautionary view of financial system in development -reasons	
II	<b>Money Market</b>		<b>12</b>
	4	Structure and Components of money market – Organised sector (Call and Notice money market, T-Bills, Commercial Bills - Acceptance and Discount houses, Collateral Loan market, Certificate of Deposits, Commercial Papers, Repo and Reverse Repo, DFHI, MMMFs),	
	5	Unorganised sector (Indigenous bankers, Money lenders, Chit funds, Nidhis, Finance brokers)	
	6	Major players of money market	
	7	Defects of Indian money market	
III	<b>Capital Market</b>		<b>15</b>
	8	Meaning, functions and significance of primary and secondary markets	
	9	Financial Instruments- Equity shares, Preference shares, Debentures/Bonds, Gilt edged securities	
	10	Methods of Public issue- IPO, FPO- Book building - Demat	
	11	Stock Exchanges – Meaning and functions – BSE and NSE –	

		Stock Indices in India – SENSEX and Nifty – DIIs and FIIs – SEBI-Functions	
	12	Introduction to derivatives- Forward, Swap, Futures/ Options- Call and Put- Credit Rating	
	13	The capital asset pricing model; use of the CAPM model in investment analysis and as a pricing formula.	
<b>IV</b>	<b>Source and Types of Financial Instruments</b>		<b>12</b>
	14	<p>Global Finance: Foreign Funding Instruments &amp; Institutions:</p> <p>Overview of foreign funding instruments: External Commercial Borrowing (ECB), American Depository Receipt (ADR)/Global Depository Receipt (GDR), Foreign Currency Convertible Bonds (FCCB), Foreign Currency Exchangeable Bonds (FCEB).</p> <p>Role and functions of international financial institutions: International Finance Corporation (IFC), International Monetary Fund (IMF).</p> <p>Other borrowing tools in international finance: Inter-corporate Loans, Commercial Paper, Deposits under Companies Act, Customer Advances/Deposits.</p>	
	15	<p>Domestic Finance: Indian Equity &amp; Private Funding:</p> <p>Analysis of equity funding sources in India: Venture Capital, Alternative Investment Fund, Angel Funds, Seed Funding, Private Equity.</p> <p>Introduction to financial intermediaries and infrastructure: National Securities Depository Limited (NSDL), Central Depository Services Limited (CDSL), Special Purpose Vehicle (SPV).</p>	

		Role of angel funding and depositor finance in startup finance.	
	16	Non-Bank Finance Sources  Understanding the Price-Earnings (P/E) ratio and its significance in financial analysis.  Exploration of non-bank finance sources: Non-Banking Financial Companies (NBFCs), shadow banking.	
	17	Major investment groups –Retail Investors-Domestic Institutional Investors and Foreign Portfolio Investor	
V	<b>Current Issues in Financial Economics</b>		<b>12</b>
	18	Discussion of contemporary issues and trends in financial economics	
	19	Discussion on Impact of globalization on financial markets: cross-border capital flows, international trade, currency markets	
	20	Discussion on Technological advancements in financial markets: algorithmic trading, high-frequency trading, blockchain technology	
	21	Discussion on Challenges and opportunities in regulating global financial markets	

### TEXTBOOKS

1. "Financial Markets and Institutions" by Frederic S. Mishkin and Stanley Eakins (2015)
2. "Principles of Corporate Finance" by Richard A. Brealey, Stewart C. Myers, and Franklin Allen (2017)
3. "Financial Economics" by Zvi Bodie and Robert C. Merton (2018)
4. "Money, Banking, and Financial Markets" by Stephen G. Cecchetti and Kermit L. Schoenholtz (2018)

### ADDITIONAL READINGS

1. "Options, Futures, and Other Derivatives" by John C. Hull (2017)
  2. "Financial Institutions, Markets, and Money" by David S. Kidwell, David W. Blackwell, David A. Whidbee, and Richard W. Sias (2018)
  3. "International Financial Management" by Jeff Madura (2018)
  4. "Venture Deals: Be Smarter Than Your Lawyer and Venture Capitalist" by Brad Feld and Jason Mendelson (2016)
  5. "Investments" by Zvi Bodie, Alex Kane, and Alan Marcus (2017)
- 16.

### Course Outcomes

No.	Upon completion of the course the graduate will be able to	Cognitive Level	PSO addressed
CO-1	Understand the role of financial systems in economic development.	U	PSO 2, 4
CO-2	Analyze the structure and functioning of money and capital markets.	An	PSO 3, 4
CO-3	Explore the sources and types of financial instruments	An	PSO 3, 4
CO-4	Explore contemporary issues and trends in financial economics.	E	PSO 2, 3, 4, 5

**R-Remember, U-Understand, Ap-Apply, An-Analyze, E-Evaluate, C-Create**

**Name of the Course: Credits: 4:0:0 (Lecture:Tutorial:Practical)**

CO No.	CO	PO/PSO	Cognitive Level	Knowledge Category	Lecture (L)/Tutorial (T)	Practical (P)
CO-1	Understand the role of financial systems in economic development.	PO-1 PSO -2, 4	U	C	L	
CO-2	Analyze the structure and functioning of money and capital markets.	PO-1,2 PSO -3, 4	An	P	L	

CO-3	Evaluate financial instruments and their implications for investment decisions.	PO-1,2,5 PSO -3, 4	An	P	L	
CO-4	Explore contemporary issues and trends in financial economics.	PO-1,2,4 PSO -2, 3, 4, 5	E	P	L	

**F-Factual, C- Conceptual, P-Procedural, M-Metacognitive**

**Mapping of COs with PSOs and POs :**

	PS O1	PS O2	PS O3	PS O4	PS O5	PS O6	PO 1	PO 2	PO 3	PO 4	PO 5	PO 6	PO 7
CO 1	-	3	-	3	-	-	3	-	-	-	-	-	-
CO 2	-	-	3	3	-	-	2	3	-	-	-	-	-
CO 3	-	-	3	3	-	-	2	3	-	-	2	-	-
CO 4	-	1	3	3	1	-	2	3	-	1	-	-	-

**Correlation Levels:**

Level	Correlation
-	Nil
1	Slightly / Low
2	Moderate / Medium
3	Substantial / High

**Assessment Rubrics:**

- Quiz / Assignment/ Quiz/ Discussion / Seminar
- Midterm Exam
- Programming Assignments
- Final Exam

**Mapping of COs to Assessment Rubrics :**

	Internal Exam	Assignment	Project Evaluation	End Semester Examinations
CO 1	✓			✓
CO 2	✓			✓
CO 3				✓
CO 4		✓		✓





**Mar Ivanios College (Autonomous)**

Discipline	ECONOMICS				
Course Code	MIUK5DSCECO302.1				
Course Title	STATISTICAL METHODS FOR ECONOMIC ANALYSIS				
Type of Course	<b>DSC</b>				
Semester	V				
Academic Level	300 - 399				
Course Details	Credit	Lecture per week	Tutorial per week	Practical per week	Total Hours/Week
	4	4 hours	-	0 Hours	4
Prerequisites	Basic Mathematical Skills Fundamental Knowledge in Micro Economics and Macro Economics.				
Course Summary	The course aims to acquaint students with statistical tools and techniques and empower them to use these tools in the field of Economics.				

**Detailed Syllabus:**

Module	Unit	Content	Hrs.
<b>I</b>	<b>Descriptive Statistics</b>		<b>12</b>
	1	Meaning of Statistics- Descriptive and Inferential Statistics- Classification of Data ; Time-Series and Cross-Section – Statistical Series ; Discrete and Continuous – Frequency Distribution – Analysis of Frequency Distribution.	

	2 3	Measures of Central Tendency ; Mean , Median , Mode, Geometric Mean , Harmonic Mean. Measures of Dispersion; Range , Mean Deviation, Standard Deviation,	
II	<b>Random Variables and Probability Distributions</b>		<b>12</b>
	4	Random variables: Random experiment – outcomes - sample space and events.	
	5	Probability ; Meaning , Definitions , Basic Concepts – Approaches; Classical, Relative Frequency, Subjective , Axiomatic – Theorems of Probability; Addition, Multiplication- Conditional probability - Bayes’ theorem.	
	6 7	Probability Distribution ; Discrete and Continuous- Probability Mass Function- Probability Density Function Binomial, Poisson , Normal, Log- Normal and Pareto Distributions.	
III	<b>Sampling, Estimation and Hypothesis Testing</b>		<b>12</b>
	8 9	Population and sample; Population parameters and sample statistics.	
	10	Sampling Methods; Probability sampling and Non-Probability sampling methods.	
	11	Estimation of population parameters – properties of estimators- confidence intervals for population parameters Specification of statistical hypotheses- one tailed and two tailed tests-Type I and Type II errors- power of a test- distributions of test statistics- t test, $\chi^2$ test and F Test.	
IV	<b>Correlation and Regression Analysis</b>		<b>12</b>
	1 2	Correlation; Simple, Partial and Multiple correlation- Karl Pearson’s Coefficient of correlation-Spearman’s rank correlation- probable error- uses of correlation.	
		Regression; Linear and Non-linear- Lines of	

V	1 3	regression- Regression coefficient- Relation between regression and correlation coefficients- Uses of regression in Economics.	
	<b>Practice Sessions</b>		
	14	Enhance Statistical Data handling skills using a standard software such as spreadsheet.	<b>12</b>

### Textbook

- Anderson, D. R., Sweeney, D. J., Williams, T. A., Camm, J. D., & Cochran, J. J. (2014). Essentials of Statistics for Business and Economics. Cengage Learning.

### Additional Readings

- Larsen, R., Marx, M. (2011). An introduction to mathematical statistics and its applications. Prentice Hall.
- Miller, I., & Miller, M. (2017). J. Freund's Mathematical Statistics with Applications (8<sup>th</sup> ed.). Pearson.
- Devore, J. (2012). Probability and Statistics for Engineers (8<sup>th</sup> ed.). Cengage Learning.

### Course Outcomes

No.	Upon completion of the course the graduate will be able to	Cognitive Level	PSO addressed
CO-1	Acquire Basic Knowledge in Descriptive Statistics.	U,R	PSO 1, 3
CO-2	Examine the theoretical aspects of probability distributions and explore their practical applications.	Ap, U	PSO 1,3

CO-3	Analyze the principles and methodologies of sampling, estimation, and hypothesis testing.	An, Ap	PSO 1,2,3
CO-4	Evaluate the concepts, methods, and applications of correlation and regression analysis	E, An	PSO 1,2,3

**R-Remember, U-Understand, Ap-Apply, An-Analyze, E-Evaluate, C-Create**

*Note: 1 or 2 COs/module*

**Name of the Course: Credits: 4:0:0 (Lecture:Tutorial:Practical)**

CO No.	CO	PO/PSO	Cognitive Level	Knowledge Category	Lecture (L)/Tutorial (T)	Practical (P)
C0-1	Acquire Basic Knowledge in Descriptive Statistics .	PO 1.6 PSO – 1, 3	U, R	P,C,F	L	
Co-2	Examine the theoretical aspects of probability distributions and explore their practical	PO- 1.6 PSO – 1,3	Ap, U	P,C,F	L	P

	applica tions					
Co-3	Analyze the principles and methodologies of sampling, estimation, and hypothesis testing.	PO-1, 2, 6 PSO – 1,2, 3	An, Ap	P,C,F	L	
Co-4	Evaluate the concepts, methods, and applications of correlation and regression analysis	PO-1,2,6 PSO – 1, 2,3	E, An	P,C,F	L	

**F-Factual, C- Conceptual, P-Procedural, M-**

**Metacognitive**

**Mapping of COs with PSOs and POs :**

	PSO 1	PSO 2	PSO 3	PSO 4	PSO 5	PSO 6	PO 1	PO 2	PO 3	PO 4	PO 5	PO 6	PO 7
CO 1	2	-	3	-	-	-	2	-	-	-	-	3	-
CO 2	2	-	3	-	-	-	2	-	-	-	-	3	-

2													
CO 3	2	1	3	-	-	-	1	2	-	-	-	3	-
CO 4	1	2	3	-	-	-	1	2	-	-	-	3	-

**Correlation Levels:**

Level	Correlation
-	Nil
1	Slightly / Low
2	Moderate / Medium
3	Substantial / High

**Assessment Rubrics:**

- Quiz / Assignment/ Quiz/ Discussion / Seminar
- Midterm Exam
- Programming Assignments
- Final Exam

**Mapping of COs to Assessment Rubrics :**

	Internal Exam	Assignment	Project Evaluation	End Semester Examinations
CO 1	✓			✓
CO 2	✓			✓
CO 3	✓			✓
CO 4	✓	✓		✓



**Mar Ivanios College (Autonomous)**

<b>Discipline</b>	<b>ECONOMICS</b>				
<b>Course Code</b>	MIUK5 DSEECO 301.1				
<b>Course Title</b>	PUBLIC ECONOMICS				
<b>Type of Course</b>	<b>DSE</b>				
<b>Semester</b>	V				
<b>Academic Level</b>	300 - 399				
<b>Course Details</b>	Credit	Lecture per week	Tutorial per week	Practical per week	Total Hours/Week
	4	4 hours	-	-	4
<b>Pre-requisites</b>	NIL.				
<b>Course Summary</b>	The course of Public Economics provides a comprehensive overview of public finance, public revenue, expenditure, public debt, budgeting, and federal finance.				

**Detailed Syllabus:**

Module	Unit	Content	Hrs
I	<b>INTRODUCTION TO PUBLIC FINANCE</b>		<b>12</b>
	1	Meaning and Scope—Public and Private Finance: Similarities and Dissimilarities—Rationale of government in the economy-)-Market Failure-Reasons, consequences and Solutions-Theories of Public Expenditure- Dalton (Principle of MSA)-Musgrave, Theory of Public Finance (Multiple theory of Public Household) Public vs private goods -merit goods, club goods-Provision of Publicgoods	

II	<b>PUBLIC EXPENDITURE PUBLIC REVENUE AND PUBLIC DEBT</b>		<b>12</b>
	2	Public Revenue- Sources of public revenue: Tax and Non-Tax sources- Theories of Taxation: Benefit Taxation and Ability to pay- Canons of taxation	
	3	Meaning and classification of taxes: Direct and Indirect tax- VAT, Progressive, Proportional and Regressive, Specific and Advalorem taxes -- Concept of GST- Effects of tax-Tax burden Concepts of impact, incidence and shifting- Types of incidence: specific incidence and differential incidence- Traditional and Modern theory of Incidence- Taxable capacity: concept—Laffer Curve	B
	4	Public expenditure- Reasons for the growth in India 's public expenditure.	
	5	Classification of public debt—Burden of Public Debt - Classical and Modern Views - Effects of public debt on Production and Distribution  Public Debt and Deficit Financing— Economic effects of Deficit Financing—Redemption of public debt— Public Debt management.	
III	<b>FEDERAL FINANCE</b>		<b>12`</b>
	6	Federal finance- Meaning and principles -Patterns of Federalism  -Functions by Level of Government -Principles of Grant Design  -Taxation in the Federation	
IV	<b>INDIAN PUBLIC FINANCE</b>		<b>12</b>
	7	Public Account—Consolidated Fund and Contingency Fund of India- Revenue sources of the Union Government, State Governments and local governments  Public Budget; Concept, Significance and Characteristics	



		Classification of public budget— Budgetary process-Budget deficit-types Budget analysis - Fiscal Rules-FRBMact	
	8	Indian Fiscal Federalism—Nature of Centre-State Relationship-Constitutional Provisions-Cooperative Federalism Finance Commission-Functions- -Criteria for tax devolution- Vertical and Horizontal equity -Grants-in-aid; principles and Share-Recommendations of current Finance commission	
V	<b>REVIEW AND ASSIGNMENT</b>		<b>12</b>
	9	List 4 public goods in your locality and explain the reason for it become a public good	
	10	Debate on criteria for tax devolution in India	

### Text Book

1. Musgrave and Musgrave (1976): Public Finance-Theory and Practice, McGraw Hill, Tokyo.
2. Jha R Modern Public Economics (1999), Routledge, London.

### ADDITIONAL READINGS

1. H. Rosen, T. Gayer (2009): Public Finance, 9th ed., McGraw-Hill/Irwin,.
2. Bagchi,A.(2005). Readings in Public Finance.Oxford University Press.NewDelhi
3. Lekha.S.Chakraborty.(2016). Fiscal consolidation, Budget deficits and the Macro Economy.Sage Publications:New Delhi
4. Pinaki Chakraborty,Lekha Chakraborty and Anit Mukherjee(2016).Social sector in adecentralized Economy:India in the era of globalization.Cambridge University Press. (New Delhi)
5. Suri.M.M. (2010). Finance Commissions and Fiscal Federalism in India. New Century Publications, New Delhi
6. Bhatia.H.L. (2017). Public Finace.Vikas Publications.New Delhi
7. Sharma,C.K &Swenden,W. (2017).Continuity and change in contemporary Indian federalism.India Review.

8. Dasgupta. C and Surajit Mazumdar. (2017). Fiscal federalism in India since 1991. Infirmities of sound finance paradigm. Economic and Political Weekly. 14 January (2017(2017).
9. Chakraborty.P. & Lekha Chakraborty (2018), New FRBM framework: time to recast Union Government expenditure needs. EPW.03, March, 2018
10. Chakraborty,P.(2015). Inter-governmental Fiscal Transfers in India: Emerging Trends and Realities. ICSSR Research Surveys and Explorations: Economics Volume Edited by C.P. Chandrasekhar, Jayati Ghosh and Prabhat Patnaik

### Course Outcomes

No.	Upon completion of the course the graduate will be able to	Cognitive Level	PSO addressed
CO-1	Analyse the role and scope of public finance and illustrate the economic functions of government.	An	PSO3
CO-2	Identify the relative importance of different sources of public revenue and develop basic knowledge of public expenditure and its theories	U	PSO1
CO-3	Analyse the role of public debt in various economic activities and the budgetary process in India.	An	PSO3
CO-4	Comprehend the role of federalism in the centre – state financial relations	U	PSO1

**R-Remember, U-Understand, Ap-Apply, An-Analyse, E-Evaluate, C-Create**

*Note: 1 or 2 COs/module*

**Name of the Course: Credits: 4:0:0 (Lecture:Tutorial:Practical)**

CO No.	CO	PO/PSO	Cognitive Level	Knowledge Category	Lecture (L)/Tutorial (T)	Practical (P)
C0-1	Analyse the	PO1,2,4	An	C	L	-

	role and scope of public finance and illustrate the economic functions of government	/PSO3				
C0-2	Identify the relative importance of different sources of public revenue and develop basic knowledge of public expenditure and its theories	PO1/PS O1	U	C	L	-
C0-3	Analyse the role of public debt in various economic activities and the budgetary process in India	PO1,2,4 ,5/PSO3	An	C	L	-
CO-4	Comprehend the role of federalism in the centre –	PO1/PS O1	U	C	L	-

	state financial relations					
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**F-Factual, C- Conceptual, P-Procedural, M-Metacognitive**

**Mapping of COs with PSOs and POs :**

	PS O1	PSO 2	PSO 3	PSO4	PS O5	PSO 6	PO1	PO2	PO3	PO4	PO5	PO6	PO7
CO 1			3				3	2		3			
CO 2	3						3						
CO 3			3				3	2		2	2		
CO 4	3						3						

**Correlation Levels:**

Level	Correlation
-	Nil
1	Slightly / Low
2	Moderate / Medium
3	Substantial / High

**Assessment Rubrics:**

- Quiz / Assignment/ Quiz/ Discussion / Seminar
- Midterm Exam
- Programming Assignments
- Final Exam

**Mapping of COs to Assessment Rubrics :**

	<b>Internal Exam</b>	<b>Assignment</b>	<b>Project Evaluation</b>	<b>End Semester Examinations</b>
<b>CO 1</b>	✓	✓		✓
<b>CO 2</b>	✓			✓
<b>CO 3</b>	✓	✓		✓
<b>CO 4</b>	✓			✓



### Mar Ivanios College (Autonomous)

<b>Discipline</b>	<b>ECONOMICS</b>				
<b>Course Code</b>	MIUK5DSEECO 301.1				
<b>Course Title</b>	RESEARCH METHODOLOGY FOR ECONOMICS				
<b>Type of Course</b>	DSE				
<b>Semester</b>	V				
<b>Academic Level</b>	300 - 399				
<b>Course Details</b>	Credit	Lecture per week	Tutorial per week	Practical per week	Total Hours/Week
	4	4			4
<b>Pre-requisites</b>	1. Familiarity with basic statistical concepts such as mean, median, mode, standard deviation, correlation, and probability distributions. 2. Computer literacy				
<b>Course Summary</b>	This course introduces students to the fundamentals of research methodology, equipping them with the knowledge and skills necessary to design and conduct research projects effectively. Through lectures, discussions, and hands-on activities, students will learn about various research methods, ethical considerations, data collection techniques, and data analysis procedures.				

### Detailed Syllabus:

Module	Unit	Content	Hrs
I	<b>Introduction to Research Methodology</b>		<b>5</b>
	1	Definition and importance of research methodology	
	2	Types of Research, Characteristics of good research	
	3	Overview of the research process, Induction and Deduction	
II	<b>Formulating Research Questions and Hypotheses</b>		<b>12</b>
	4	Identifying research topics and interests	
	5	Formulating clear and focused research questions	
	6	Developing testable hypotheses	
III	<b>Research Design and Sampling Methods</b>		<b>12</b>
	7	Introduction to research designs (experimental, correlational,	

		descriptive)	
	8	Selection of appropriate research design based on research questions	
	9	Validity and reliability in research design	
	10	Census and Sample survey, Types of sampling techniques (random sampling and non-random sampling)	
	11	Sampling considerations and biases	
	12	Sample size determination	
IV	<b>Data Collection and Analysis</b>		<b>17</b>
	13	Types of Data- primary, Secondary; Time series, Cross sectional, Panel, Longitudinal; Quantitative and Qualitative	
	14	Introduction to qualitative research methods (interviews, focus groups, observation) Data collection procedures and ethical considerations in qualitative research	
	15	Introduction to quantitative research methods (surveys, experiments, archival research) Designing and administering surveys Experimental design and control variables	
	16	Introduction to qualitative data analysis techniques (Grounded theory, Phenomenology, Ethnography, Narrative, Discourse, Content Analysis, Case study, Thematic analysis) Coding and categorizing qualitative data Statistical software tools for data analysis Interpretation and reporting of qualitative findings	
	17	Introduction to quantitative data analysis techniques (descriptive statistics, inferential statistics) Processing data – Editing, Coding and Tabulating Statistical software tools (e.g. R) for data analysis Interpreting quantitative findings and drawing conclusions	
V	<b>Presenting Research Findings</b>		<b>12</b>
	18	Activities for Presentation of Data – Verbal, Graphical, Tabular, Mathematical	
	19	Activities for Designing Posters and Slides	
	20	Activity to write a research proposal (introduction, literature review, methodology, timeline)	
	21	Discussion on Ethical principles in research and practice sessions for avoiding plagiarism	

17.

### 18. TEXT BOOK

19.

1. "Research Design: Qualitative, Quantitative, and Mixed Methods Approaches" by John W. Creswell (1994)

### ADDITIONAL READINGS

1. "Research Methods for the Social Sciences" by Alan Bryman (2016)

2. "The Craft of Research" by Wayne C. Booth, Gregory G. Colomb, and Joseph M. Williams (2016)
3. "Qualitative Inquiry and Research Design: Choosing Among Five Approaches" by John W. Creswell and Cheryl N. Poth (2017)
4. "Research Methods in Psychology" by John J. Shaughnessy, Eugene B. Zechmeister, and Jeanne S. Zechmeister (2019)
5. "Research Methods for Business Students" by Mark Saunders, Philip Lewis, and Adrian Thornhill (2016)
6. "Research Ethics: Cases and Materials" by Robin Levin Penslar (2006)
7. "Introduction to Research Methods: A Hands-On Approach" by Bora Pajo (2015)

## Course Outcomes

No.	Upon completion of the course the graduate will be able to	Cognitive Level	PSO addressed
CO-1	Understand the principles and concepts of research methodology.	U	PSO 3
CO-2	Examine different research designs and methods commonly used in social science and humanities research.	An	PSO 3, 5
CO-3	Develop skills in formulating research questions and hypotheses.	Ap	PSO 3, 5
CO-4	Explore ethical considerations in research and principles of academic integrity.	An	PSO 3, 5, 6

**R-Remember, U-Understand, Ap-Apply, An-Analyse, E-Evaluate, C-Create**

**Name of the Course: Credits: 4:0:0 (Lecture:Tutorial:Practical)**

CO No.	CO	PO/PSO	Cognitive Level	Knowledge Category	Lecture (L)/Tutorial (T)	Practical (P)
CO-1	Understand the principles and	PO-1,6	U	C	L	



	concepts of research methodology.	PSO-3				
CO-2	Examine different research designs and methods commonly used in social science and humanities research.	PO-1,2,6 PSO- 3, 5	An	P	L	
CO-3	Develop skills in formulating research questions and hypotheses.	PO-1,2,4,5,6 PSO- 3, 5	Ap	P	L	
CO-4	Explore ethical considerations in research and principles of academic integrity.	PO-1,2,6,7 PSO-3, 5, 6	An	P	L	

**F-Factual, C- Conceptual, P-Procedural, M-Metacognitive**

**Mapping of COs with PSOs and POs :**

	PS O1	PS O2	PS O3	PSO 4	PS O5	PS O6	PO 1	PO 2	PO 3	PO 4	PO 5	PO 6	PO 7
<b>C O 1</b>	-	-	3	-	-	-	3	-	-	-	-	3	-
<b>C O 2</b>	-	-	3	-	1	-	2	3	-	-	-	3	-
<b>C</b>	-	-	3	-	2	-	2	3	-	1	2	3	-

<b>O 3</b>													
<b>C O 4</b>	-	-	3	-	1	3	2	3	-	-	-	3	2

**Correlation Levels:**

<b>Level</b>	<b>Correlation</b>
-	Nil
1	Slightly / Low
2	Moderate / Medium
3	Substantial / High

**Assessment Rubrics:**

- Quiz / Assignment/ Quiz/ Discussion / Seminar
- Midterm Exam
- Programming Assignments
- Final Exam

**Mapping of COs to Assessment Rubrics :**

	<b>Internal Exam</b>	<b>Assignment</b>	<b>Project Evaluation</b>	<b>End Examinations</b>	<b>Semester</b>
<b>CO 1</b>	✓			✓	
<b>CO 2</b>	✓			✓	
<b>CO</b>		✓		✓	

3				
CO 4				✓



**Mar Ivanios College (Autonomous)**

Discipline	ECONOMICS				
Course Code	MIUK5DSEECO302.1				
Course Title	ARTIFICIAL INTELLIGENCE AND MACHINE LEARNING IN ECONOMICS				
Type of Course	<b>DSE</b>				
Semester	V				
Academic Level	300-399				
Course Details	Credit	Lecture per week	Tutorial per week	Practical per week	Total Hours/Week
	4	4 Hours	-	-	4
Pre-requisites					
Course Summary	.				

**Detailed Syllabus:**

To be taken from the University Basket.



### Mar Ivanios College (Autonomous)

Discipline	ECONOMICS				
Course Code	MIUK5SECECO 300.1				
Course Title	SECURITY ANALYSIS AND PORTFOLIO MANAGEMENT				
Type of Course	SEC				
Semester	V				
Academic Level	300-399				
Course Details	Credit	Lecture per week	Tutorial per week	Practical per week	Total Hours/Week
	3	3 hours	-	0 Hours	3
	1. Comprehensive Understanding of Micro Economics. 2. Basic understanding of Financial Economics				
Course Summary	The aim of this course is to provide students with a comprehensive understanding of both the theoretical and practical aspects of making investment decisions in, Securities Market and Managing a Portfolio.				

### Detailed Syllabus:

Module	Unit	Content	Hr
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<b>I</b>	<b>Securities Market : Introduction</b>		<b>9</b>
	1.	Securities Market ; Meaning, Types, Major Financial Instruments, Participants, Security Market Indexes.	
	2.	Securities ; Meaning and Classification , Listing and Grouping.	
	3.	Securities Market ; Trading , Types – How to Trade and Invest?	
	4.	Security Market in India; Structure, Issues, Regulatory Framework, Major policy developments.	
<b>II</b>	<b>Securities Market Analysis</b>		<b>9</b>
	5.	Security analysis; Meaning and Approaches.	
	6.	Risk and Return-Fundamental analysis – Ratio Analysis; PE Ratio (Price to Earnings), Earning Per Share (EPS), Book value (price to book value ratio), Return on Equity Ratio (ROE), Debt Equity Ratio, Dividend yield	
	7.	Technical analysis: Tools-Trend lines; Support and Resistance level; Moving Averages; Trading volume; Chart Patterns; Candlesticks-Role of information in market valuation.	
<b>III</b>	<b>Portfolio Selection</b>		<b>9</b>
	8	Financial Portfolio ; Meaning and Types.	
	9	Portfolio Selection; Factors to be considered for Selection-Diversification and Rationale of Diversification	
	10	Portfolio Analysis; Measurement of Expected Return of the Portfolio , Sharpe’s single index model.	
<b>IV</b>	<b>Portfolio Management</b>		<b>9</b>
	11	Portfolio Management; Meaning, Types and Strategies	
	12	Theoretical Approaches to Portfolio Management; Markowitz Theory, Efficient market hypothesis, Behavioural Finance ,Fama and French three factor model	
<b>V</b>	<b>Skill Enhancement : Activities</b>		<b>9</b>
	13	Undergo training with any registered broking firms to analyze Investment and Trading in Securities Market and to gain hands-on experience in securities analysis, portfolio construction, and	
	14		

		client management.	
	15	Participate in stock market simulation games or trading competitions to practice making investment decisions in a risk-free environment.	
	16	Build and manage virtual portfolios to develop practical portfolio management skills. Attend seminars or webinars or lectures featuring industry professionals to gain insights into current trends, best practices, and career opportunities in securities and portfolio management.	

### Textbook

- Fischer, D. E., Jordan, R. E., & Pradhan, A. K. (2018). Security Analysis and Portfolio Management (7<sup>th</sup> ed.). Pearson Education.

### Additional Readings

- Mishkin, F. S., & Eakins, S. G. (2018). Financial Markets and Institutions (9<sup>th</sup> ed.). Pearson Education.
- Elton, E. J., & Gruber, M. J. (2003). Modern Portfolio Theory and Investment Analysis (10<sup>th</sup> ed.). John Wiley & Sons.
- Alexander, G. J., Sharpe, W. F., & Baily, J. V. (1986). Fundamentals of Investments (3<sup>rd</sup> ed.). Pearson Education.

### Course Outcomes

No.	Upon completion of the course the graduate will be able to	Cognitive Level	PSO addressed
CO-1	Understand the Basic Structure of Securities Market.	U, R	1,4
CO-2	Examine the Principles of Securities Market Analysis	An, Ap	1,4
CO-3	Analyze the mechanism of Portfolio Selection	An, Ap	1,3,4
CO-4	Evaluate the strategies involved in Portfolio Management	E, An	1,3,4

**R-Remember, U-Understand, Ap-Apply, An-Analyse, E-Evaluate, C-Create**

Note: 1 or 2 COs/module

Name of the Course: Credits: 4:0:0 (Lecture:Tutorial:Practical)

CO No.	CO	PO/PSO	Cognitive Level	Knowledge Category	Lecture (L)/Tutorial (T)	Practical (P)
CO 1	Understand the Basic Structure of Securities Market.	PO : 1,5 PSO: 1,4	U,R	C,F	L	-
CO-2	Examine the Principles of Securities Market Analysis	PO : 1,5 PSO: 1,4	An, Ap	C,F	L	-
Co-3	Analyse the mechanism of Portfolio Selection	PO : 1,2,5 PSO: 1,3,4	An, Ap	F, M	L	-
Co-4	Evaluate the strategies involved in Portfolio Management	PO : 1,2,5 PSO: 1,3,4	E, An	F, M	L	-

**F-Factual, C- Conceptual, P-Procedural, M-Metacognitive**



## Mapping of COs with PSOs and POs :

### Correlation Levels:

Level	Correlation
-	Nil
1	Slightly / Low

	PSO 1	PSO 2	PSO 3	PSO 4	PSO 5	PSO 6	PO 1	PO 2	PO 3	PO 4	PO 5	PO 6	PO 7
CO 1	3	-	-	2	-	-	3	-	-	-	2	-	-
CO 2	2	-	-	3	-	-	2	-	-	-	3	-	-
CO 3	2	-	1	3	-	-	2	1	-	-	3	-	-
CO 4	1	-	1	3	-	-	1	2	-	-	3	-	-

2	Moderate / Medium
3	Substantial / High

### Assessment Rubrics:

- Quiz / Assignment/ Quiz/ Discussion / Seminar
- Midterm Exam
- Programming Assignments
- Final Exam

**Mapping of COs to Assessment Rubrics :**

	Internal Exam	Assignment	Project Evaluation	End Semester Examinations
CO 1	✓			✓
CO 2	✓			✓
CO 3	✓			✓
CO 4	✓	✓		✓

## SEMESTER VI



Mar Ivanios College (Autonomous)

<b>Discipline</b>	<b>ECONOMICS</b>				
<b>Course Code</b>	MIUK6 DSCECO 350.1				
<b>Course Title</b>	INTERNATIONAL ECONOMICS				
<b>Type of Course</b>	DSC				
<b>Semester</b>	V1				
<b>Academic Level</b>	300 - 399				
<b>Course Details</b>	<b>Credit</b>	<b>Lecture per week</b>	<b>Tutorial per week</b>	<b>Practical per week</b>	<b>Total Hours/Week</b>
	4	4hours	-		4
<b>Pre-requisites</b>	1. Basic knowledge on elementary economic concepts				
<b>Course Summary</b>	The course of International Economics explores the theories, policies, and practices related to international trade and foreign exchange management. It covers various concepts and models, from classical theories to modern approaches, and examines the impact of trade policies on economic growth, balance of payments and exchange rates				

**Detailed Syllabus:**

<b>Module</b>	<b>Unit</b>	<b>Content</b>	<b>Hrs</b>
I	THEORIES OF INTERNATIONAL TRADE		12
	1	Importance of International Economics-Subject matter of International Economics-Purpose of International economic	

		theories and policies- Inter-regional and international trade.	
	2	Theories of International Trade-Classical theory: Absolute and Comparative advantage theories-comparative advantage and opportunity cost. Modern theory of international trade- Heckscher Ohlin theory- Leontief paradox-Reciprocal demand Terms of trade- offer curve- Community indifference curve-opportunity cost, production possibility curve.	
	3	Trade as an engine of growth-Gains from trade-static and dynamic gains- Foreign trade multiplier	
II	INTERNATIONAL TRADE POLICY		12
	4	Free Trade vs. Protection—Types of tariff and quota	
	5	Impact of tariff under partial equilibrium and General equilibrium analysis—Optimum tariff— Stolper Samuelson theorem- Metzler paradox-Non tariff trade barriers-Import Quota-Other non-tariff trade barriers-voluntary export restraints-technical, administrative and other regulations, international cartels, Dumping, Export subsidies	
III	BALANCE OF PAYMENTS AND FOREIGN EXCHANGE		19
	7	Balance of payments, - components- Accounting framework	
	8	Disequilibrium in balance of payments- causes- measures to correct disequilibrium-Automatic and deliberate measures	
	9	Devaluation- Effects of devaluation-Elasticity approach to devaluation- Marshall –Lerner condition- J curve effect-Absorption approach- BOP in India- Recent trend and patterns	
	10	Foreign exchange markets: Meaning and Functions -Forex Market Participants -Definition of foreign exchange rate-nominal, real effective exchange rate - Forward rate, Spot rate -Demand and Supply of Foreign Exchange - Factors influencing Exchange Rates. Exchange rate systems-Fixed and Flexible exchange rate-Managed Floating systems- India's exchange rate policy	
	11	Foreign Exchange Risks—Hedging and Speculation- futures,	

		options and currency swaps.	
IV	ECONOMIC INTEGRATION AND INTERNATIONAL INSTITUTIONS		10
	12	Economic integration-Customs Union and Free Trade Areas-Trade creating and trade diverting customs union-Dynamic benefits from customs union-History of attempts at Economic integration-The European Union- Integration among developing countries-South Asian Association of Regional Co-operation (SAARC), Association of South East Asian Nations (ASEAN)	
	13	International Financial Institutions-IMF, IBRD, IDA, UNCTAD, ADB, WTO Problems and prospects of WTO Agreement in present global Trading India and international institutions	
V	REVIEW AND ASSIGNMENT		12
	14	Take two export-oriented industries in India and find out whether trade is happening based on absolute or comparative advantage. Reading for assignment: <a href="https://archive.mu.ac.in/arts/social_science/eco/pdfs/depart/dwp51.pdf">https://archive.mu.ac.in/arts/social_science/eco/pdfs/depart/dwp51.pdf</a>	
	15	Identify the participants involved in foreign exchange markets, such as commercial banks, central banks, multinational corporations, hedge funds, and individual traders.	
	16	Review the newspaper articles relating to exchange rate volatility and analyse its impacts on India's foreign trade.	

### TEXTBOOKS

21. Dominick Salvatore, (recent edition) International Economics. John Wiley and Sons, Delhi.

### ADDITIONAL READINGS

1. Paul Krugman, Maurice Obstfeld and Marc Melitz. (2012). International Economics:
  - a. Theory and Policy, Addison- Wesley, Pearson Education Indian Edition. 9th Edition.
2. Sodersten, Bo. And Geoffry Reed, International Economics, Palgrave Macmillan
3. Joseph Stiglitz, 'Globalization and its discontents, Penguin books, 2002
4. Salvatore D. (1990). Schaum's Outline of theory and problems of international economics,

## Course Outcomes

No.	Upon completion of the course the graduate will be able to	Cognitive Level	PSO addressed
CO-1	Critically analyse the relevance of various international trade theories and its feasibility in present context.	An	PSO2,3
CO-2	Evaluate the global trade policy and examine its impact on the domestic trade environment	E	PSO3
CO-3	Interpret the composition as well as the direction of foreign trade and examine causes and effects of deficits in the balance of payments.	An	PSO3
CO-4	Infer the dealings in foreign exchange markets, its participants, and the terms used and connect with exchange rate operations	Ap	PSO3
CO-5	Identify the role of various international institutions in the economic development of India.	An	PSO1,3

R-Remember, U-Understand, Ap-Apply, An-Analyse, E-Evaluate, C-Create

*Note: 1 or 2 COs/module*

Name of the Course: Credits: 4:0:0 (Lecture:Tutorial:Practical)

CO No.	CO	PO/PSO	Cognitive Level	Knowledge Category	Lecture (L)/Tutorial (T)	Practical (P)
CO1	Critically analyse the relevance of various international trade theories and its feasibility in present context.	PO1,2,4/PSO2,3	An	C	L	-
CO2	Evaluate the global trade policy and examine its impact on the domestic trade environment	PO1,2/P SO3	E	C	L	-
CO3	Interpret the composition as well as the direction of foreign trade and examine	PO1,2,4,5/PSO3	An	C	L	-

	causes and effects of deficits in the balance of payments.					
CO4	Infer the dealings in foreign exchange markets, its participants, and the terms used and connect with exchange rate operations	PO1,2,4, 5/PSO3	Ap	C	L	-
C05	Identify the role of various international institutions in the economic development of India	PO1,2,4, /PSO3	An	C	L	-

F-Factual, C- Conceptual, P-Procedural, M-Metacognitive

**Mapping of COs with PSOs and POs :**

	<b>PS</b>	<b>PS</b>	<b>PS</b>	<b>PSO</b>	<b>PS</b>	<b>PS</b>	<b>PO</b>	<b>PO</b>	<b>PO</b>	<b>PO</b>	<b>PO</b>	<b>PO</b>
	<b>O1</b>	<b>O2</b>	<b>O3</b>	<b>4</b>	<b>O5</b>	<b>O6</b>	<b>1</b>	<b>2</b>	<b>3</b>	<b>4</b>	<b>5</b>	<b>6</b>



CO 1		3	3				3	2		2		
CO 2			3				3	2				
CO 3			2				3	2		2	2	
CO 4			2				3	2		2	2	
CO 5			3				3	2		2		

### Correlation Levels:

Level	Correlation
-	Nil
1	Slightly / Low
2	Moderate / Medium
3	Substantial / High

### Assessment Rubrics:

- Quiz / Assignment/ Quiz/ Discussion / Seminar

- Midterm Exam
- Programming Assignments
- Final Exam

Mapping of COs to Assessment Rubrics :

	<b>Internal Exam</b>	<b>Assignment</b>	<b>Project Evaluation</b>	<b>End Examinations</b>	<b>Semester</b>
<b>CO 1</b>	✓	✓		✓	
<b>CO 2</b>	✓			✓	
<b>CO 3</b>	✓	✓		✓	
<b>CO 4</b>	✓			✓	



## Mar Ivanios College (Autonomous)

<b>Discipline</b>	<b>ECONOMICS</b>				
<b>Course Code</b>	MIUK6DSCECO 351.1				
<b>Course Title</b>	INDIAN ECONOMY				
<b>Type of Course</b>	DSC				
<b>Semester</b>	VI				
<b>Academic Level</b>	300 - 399				
<b>Course Details</b>	Credit	Lecture per week	Tutorial per week	Practical per week	Total Hours/Week
	4	4			4
<b>Pre-requisites</b>	1. Basic understanding of Economics				
<b>Course Summary</b>	This course offers a comprehensive exploration of the multifaceted dynamics of the Indian economy, encompassing its historical evolution, sectoral composition, socioeconomic challenges, and policy frameworks. Through a blend of theoretical insights, empirical analysis, and practical applications, students will develop a nuanced understanding of India's economic landscape and its implications for development, growth, and social welfare.				

**Detailed Syllabus:**

Module	Unit	Content	Hrs
I	<b>Introduction to the Indian Economy</b>		<b>8</b>
	1	Historical Overview	
	2	Economic Policies Since Independence	
	3	Growth Trends and Development Indicators	
	4	Demographic features – demographic transition and India, demographic dividend	
II	<b>Sectoral Analysis: Agriculture, Industry, and Services</b>		<b>24</b>
	5	Key Features and Challenges in Agriculture Sector Land reforms, Land use and cropping pattern Strategies relating to technologies and institutions: food security,	

		agriculture credit, modern farm inputs and marketing - price policy and subsidies Commercialisation and diversification Green revolution, Operation flood, New Agriculture policy	
	6	Industrial Development and Policy Framework Strategy of industrial development Core industries, Navaratnas, Miniratnas, Growth of MSMEs Sources of industrial finances (banks, share market, insurance companies, pension funds, non-banking sources, MUDRA loan) Labour market-formal and informal, Labour laws in India	
	7	Service Sector Growth and Contribution Composition- banking, insurance, transport and communication, education and health, public administration and defence, e-commerce Performance of public sector enterprise	
	8	Trade Policies and International Relations India's foreign trade - volume, direction and composition Balance of Payments Exchange rate management Role of international oil and gold prices in Indian economy	
III	<b>Socioeconomic Issues and Inclusive Growth</b>		<b>8</b>
	9	Poverty, Inequality, and Social Welfare Programs	
	10	Education and Healthcare Systems	
	11	Employment and Unemployment – trends, types, measures and programs	
	12	Inflation – trends, reasons and measures.	
	13	Gender Inequality and Empowerment Initiatives	
	14	Environmental Sustainability and Resource Management	
IV	<b>Databases on the Indian Economy</b>		<b>8</b>
	15	Introduction to data sources such as government surveys, censuses, administrative records, and international organizations' databases.	
	16	National statistical databases, including the National Sample Survey (NSS), Census of India, and Annual Survey of Industries (ASI). Structure, coverage, and variables available in national statistical databases.	
	17	Analysis of government data portals such as the Ministry of Statistics and Programme Implementation (MOSPI) and Reserve Bank of India (RBI) databases. Demonstration of accessing and downloading data from government portals for economic analysis.	
	18	International Databases - Databases such as World Bank Data, International Monetary Fund (IMF) databases, and United Nations databases	
V	<b>Development Debates and Shifts in Economic Policy</b>		<b>12</b>

19	<p>Liberalization vs. Regulation</p> <p>Debate over the extent of liberalization in the Indian economy post-1991 reforms.</p> <p>Role of government regulation in ensuring market efficiency and social welfare.</p>	
20	<p>Globalization and Trade Policies</p> <p>Discussion on the benefits and drawbacks of globalization for the Indian economy.</p> <p>Analysis of India's trade policies and their impact on domestic industries and international competitiveness.</p>	
21	<p>State vs. Market Intervention</p> <p>Debate on the appropriate balance between state intervention and market forces in economic development.</p> <p>Examination of government schemes and subsidies aimed at poverty alleviation and rural development.</p>	
22	<p>Public Sector vs. Private Sector</p> <p>Evaluation of the role of public sector enterprises in India's economic growth and industrial development.</p> <p>Discussion on privatization policies and their implications for efficiency, equity, and employment.</p>	
23	<p>Inclusive Growth vs. Growth with Redistribution</p> <p>Exploration of strategies to achieve inclusive growth and reduce income inequality.</p> <p>Analysis of redistributive policies such as taxation, social welfare programs, and affirmative action.</p>	

## TEXT BOOK

### Module 1

1. "A concise handbook of Indian Economy in the 21<sup>st</sup> century" by Ashima Goyal(ed) (2019)
2. "India Unbound: The Social and Economic Revolution from Independence to the Global Information Age" by Gurcharan Das (2000)
3. "Economic Survey of India" (latest edition)
4. "India Development Report" by the Institute for Human Development (latest edition)

### Module 2

1. "Indian Agriculture: Performance, Growth, and Challenges" by Ashok Gulati et al. (2019)
2. "Growth and Development in India: Thoughts of an Economist" by Jagdish Bhagwati (2013)
3. "The Services Sector in India's Development" edited by T.N. Srinivasan and Jessica Wallack (2017)
4. "India's Trade Policy: Changing Dynamics and Future Strategy" edited by Nisha Taneja and Rashmi Banga (2019)
5. "Indian Economy: Performance and Policies" by Uma Kapila (2021)

### Module 3

1. "Economic Survey of India" (latest edition)
2. "Inequality in India: A Survey of Recent Trends" by Himanshu (2019)
3. "Education and Development in India: Critical Issues in Public Policy" by Santosh Mehrotra and Jandhyala B.G. Tilak (2013)
4. "Women's Empowerment and Economic Development" edited by Vandana Chandra et al. (2019)

#### Module 4

1. Handbook of Statistics on Indian Economy" by Reserve Bank of India (latest edition)
2. "India Statistical Yearbook" by Ministry of Statistics and Programme Implementation (latest edition)
3. "World Development Indicators" by World Bank (latest edition)
4. "IMF World Economic Outlook Database" by International Monetary Fund (latest edition)

#### Module 5

1. India After Gandhi: The History of the World's Largest Democracy" by Ramachandra Guha (2007)
2. "India's Economic Policy: Preparing for the Twenty-First Century" by Vijay Joshi (2016)
3. "India's Turn: Understanding the Economic Transformation" edited by Arvind Subramanian and Dani Rodrik (2012)
4. "Economic Reforms and Development: Essays for Manmohan Singh" edited by Isher Judge Ahluwalia and I.M.D. Little (1998)

#### ADDITIONAL READINGS

1. "Jean Dreze and Amartya Sen, 2013, India: An Uncertain Glory, Oxford University Press
2. Pulapre Balakrishnan, 2007, "The Recovery of India: Economic Growth in the Nehru Era", Economic and Political Weekly, November
3. Arvind Subramanian, 2012, "Growth Experience" in K Basu and A Maertens, The New Oxford Companion to Economics, Oxford University Press.
4. Nilanjan Banik, "The Indian Economy: A Macroeconomic Perspective", Sage Publications
5. Chetan Ghate, The Oxford Handbook of Indian Economy", Oxford University Press
6. Mihir Rakshit(2011)Inflation and Relative Prices in India 2006-10: Some Analytical and Policy IssuesEconomic & Political Weekly EPW april 16, 2011 vol xlvi no 16
7. Vinoj Abraham (2017)Stagnant Employment Growth Last Three Years May Have Been the WorstVo.52, Issue No.38,23 Sep 2017, EPW
8. Hanumantha Rao, Bhattacharya & Siddarthan, ed.(2005)Indian Economy and society in the Era of Globalisation and liberalisation
9. Chandrasekhar Rao and Mahendra Dev, 2010, Agricultural Price Policy, Farm Profitability and Food Security, EPW, June 26

10. Jeemol Unni (2015) Employment and Industrial Development in India , in C P Chandrasekhar(ed) Economics Vol 1. Indian Industrialisation
11. Jayati Ghosh (2008) The Indian Economy 1970-2003 pp1027-1045 Dharma Kumar(ed) The Cambridge Economic History of India with a new introduction by in Sabyasachi Bhattacharya. Orient Blackswan
12. Vaidyanathan (2008) The Indian Economy since independence pp945-994 Dharma Kumar(ed) The Cambridge Economic History of India with a new introduction by in Sabyasachi Bhattacharya, Orient Blackswan
13. Rupa Chanda, 2012, Services Led Growth in New Oxford Companion to Economics
14. K Kanagasabapathy, Vishakha G Tilak, and R Krishnaswamy, 2013, A Rethink on India's Foreign Trade Policy, EPW August 3.
15. Biswajit Dhar 2015, India's New Foreign Trade Policy, EPW, May 24.
16. Jean Dreze and Amartya Sen, 2013, India: An Uncertain Glory, Oxford University Press
17. Nilanjan Banik, "The Indian Economy: A Macroeconomic Perspective", Sage Publications.-
18. J.B.J. Tilak (2014) Private Higher Education in India, Vol.49, Issue No.40, 04 Oct, 2014, EPW
19. [25 Years Of Economic Liberalisation, Vol. 52, Issue No. 2, 14 Jan, 2017](#), EPW
20. Nagaraj, R(2013) Understanding the Boom and Its Aftermath: India's Dream Run Vol. 48, Issue No. 20, 18 May, 2013 <http://www.epw.in/journal/2013/20/special-articles/indias-dream-run-2003-08.html>
21. Mihir Rakshit (2018) Some Analytics of Demonetisation, MARCH 31, 2018 No.13 EPW
22. Kaushik Basu and Annemie Maertens(2010)The Concise Oxford Companion to Economics in India, Oxford
23. Mihir Rakshit (2011) Macro economics of Post-reform India, OUP
24. <https://cleartax.in/s/gst-analysis-and-opinions>
25. Atul Sood (2017) The New Moral Economy- Demonetisation, Digitalisation and India's Core Economic Problems, Vo.52, Issue No.1, 07, Jan 2017, EPW
26. Economic Survey, GOI, various years
27. www.mospi.nic.in
28. www.censusindia.gov.in
29. [www.core-econ.org/](http://www.core-econ.org/)

### Course Outcomes

No.	Upon completion of the course the graduate will be able to	Cognitive Level	PSO addressed
CO-1	Understand the historical evolution of the Indian economy and its key policy transitions.	U	PSO 2

CO-2	Analyze the sectoral composition of the Indian economy and assess the challenges and opportunities within each sector.	An	PSO 2, 3
CO-3	Evaluate socioeconomic issues such as poverty, inequality, and gender disparities in the context of India's development trajectory.	E	PSO 2, 3
CO-4	Awareness of databases on Indian economy, and their utility in comparative economic analysis and cross-country research.	Ap	PSO 3, 5

**R-Remember, U-Understand, Ap-Apply, An-Analyse, E-Evaluate, C-Create**

**Name of the Course: Credits: 4:0:0 (Lecture:Tutorial:Practical)**

CO No.	CO	PSO	Cognitive Level	Knowledge Category	Lecture (L)/Tutorial (T)	Practical (P)
CO-1	Understand the historical evolution of the Indian economy and its key policy transitions.	PSO 2	U	C	L	
CO-2	Analyze the sectoral composition of the Indian economy and assess the challenges and opportunities within each sector.	PSO 2, 3	An	C	L	
CO-3	Evaluate socioeconomic issues such as poverty, inequality, and gender disparities in	PSO 2, 3	E	M	L	



	the context of India's development trajectory.					
CO-4	Awareness of databases on Indian economy, and their utility in comparative economic analysis and cross-country research.	PSO 3, 5	Ap	M	L	

**F-Factual, C- Conceptual, P-Procedural, M-Metacognitive**

**Mapping of COs with PSOs and POs :**

	PSO 1	PSO 2	PSO 3	PSO4	PSO 5	PSO 6
CO 1	-	3	-	-	-	-
CO 2	-	3	2	-	-	-
CO 3	-	3	2	-	-	-
CO 4	-	-	3	-	2	-

	PO1	PO2	PO3	PO4	PO5	PO6	PO7
CO 1	3	-	-	-	-	-	-
CO 2	2	3	-	-	-	-	-
CO 3	2	3	-	-	-	-	3
CO 4	2	3	-	2	3	2	-

**Correlation Levels:**

Level	Correlation

-	Nil
1	Slightly / Low
2	Moderate / Medium
3	Substantial / High

### Assessment Rubrics:

- Quiz / Assignment/ Quiz/ Discussion / Seminar
- Midterm Exam
- Programming Assignments
- Final Exam

### Mapping of COs to Assessment Rubrics :

	Internal Exam	Assignment	Project Evaluation	End Examinations	Semester
CO 1	✓			✓	
CO 2	✓			✓	
CO 3		✓		✓	
CO 4				✓	



**Mar Ivanios College (Autonomous)**

Discipline	ECONOMICS				
Course Code	MIUK6DSCECO 352.1				
Course Title	ECONOMETRIC ANALYSIS				
Type of Course	<b>DSC</b>				
Semester	VI				
Academic Level	300-399				
Course Details	Credit	Lecture per week	Tutorial per week	Practical per week	Total Hours/Week
	4	4 hours	-	0 Hours	4
Prerequisites	1. Comprehensive Understanding of Micro Economics and Macro Economics. 2. Basic understanding of statistics and mathematical economics 3. Basic Computer Skills				
Course Summary	The aim of this course is to provide students with a comprehensive understanding of the theoretical Foundations and practical applications of econometrics analysis in decision making				

**Detailed Syllabus:**

Module	Unit	Content	Hrs
<b>I</b>	<b>Fundamentals of Econometrics</b>		<b>10</b>
	1	Econometrics ; Meaning , Scope & Methodology.	

	2	Types of Data; Time Series, Cross Section, Panel data.	
	3	Econometric Models; Two-Variable Regression Analysis- Sample Regression Function and Population Regression Function- Significance of stochastic disturbance term.	
<b>II</b>	<b>Simple Linear Regression Model: Two Variable Cases</b>		<b>14</b>
	5	Estimation of model by method of Ordinary Least Squares	
	6	The Classical Linear Regression Model (CLRM) ; The Assumptions Underlying the Method of Least Squares – Properties of Least Squares Estimators- Gauss Markov theorem.	
	7	Goodness of Fit- Properties of OLS Estimators under the Normality Assumption.	
	8	Interval estimation—Type I and Type II errors- Confidence intervals for Regression Coefficients-Hypothesis Testing – ANOVA – Prediction	
<b>III</b>	<b>Multiple Linear Regression Model</b>		<b>14</b>
	9	The Three-Variable Model: Notation and Assumptions	
	10	Interpretation of Multiple Regression Equation;	
	11	Partial Regression Coefficients; Meaning , OLS Estimators, Properties of OLS Estimators.	
	12	The Multiple Coefficient of Determination $R^2$ and the Multiple Coefficient of Correlation $R - R^2$ and the Adjusted $R^2$	
<b>IV</b>	<b>Violations of CLRM assumptions</b>		<b>10</b>

	13	Heteroscedasticity- Autocorrelation- Multicollinearity ; Consequences, Detection and Remedies	
	14	Specification errors- Omission of a Relevant Variable; Inclusion of Irrelevant Variable; Tests of Specification Errors.	
<b>V</b>	<b>Case Studies</b>		<b>12</b>
	13	Do practice sessions on Econometric Analysis using GRETL and interpret the result.	

**Textbook**

- Gujarati, D. N., Porter, D. C., & Gunasekhar, S. (2017). Basic Econometrics (5<sup>th</sup> ed.). McGraw Hill International.

**Additional Readings**

- Stock, J. H., & Watson, M. W. (2017). Introduction to Econometrics (3<sup>rd</sup> ed.). Pearson, Addison Wesley.
- Hill, C., Griffiths, W., & Lim, G. (2011). Principles of Econometrics (4<sup>th</sup> ed.). John Wiley & Sons.
- Wooldridge, J. M. (2018). Introductory Econometrics, a Modern Approach (7<sup>th</sup> ed.). Thomson South Western.
- Pyndick, R. S., & Rubinfeld, D. L. (1998). Econometric Models and Economic Forecasts (4<sup>th</sup> ed.). McGraw Hill International Edition.
- Asteriou, D., & Hall, R. (2015). Applied Econometrics (3<sup>rd</sup> ed.). Oxford University Press.
- Maddala, G. S. (2002). Introduction to Econometrics (3rd ed.). John Wiley & Sons.

**Course Outcomes**

No.	Upon completion of the course the graduate will be able to	Cognitive	PSO address
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		Level	d
CO-1	Understand the fundamentals of econometrics	U,R	1,3
CO-2	Develop the necessary theoretical foundation to apply simple linear regression models to real-world economic data.	Ap, U	1,2,3
CO-3	Analyse the fundamental concepts of multiple linear regression analysis within the realm of econometrics.	An, Ap	1,2,3
CO-4	Evaluate the violations of CLRM assumptions and develop strategies to address them.	C, E	1,2,3

**R-Remember, U-Understand, Ap-Apply, An-Analyse, E-Evaluate, C-Create**

*Note: 1 or 2 COs/module*

**Name of the Course: Credits: 4:0:0 (Lecture:Tutorial:Practical)**

CO No.	CO	PO/ PSO	Cognitive Level	Knowledge Category	Lecture (L)/Tutorial (T)	Practical (P)
CO-1	Understand the fundamentals of econometrics	PO : 1,6 PSO : 1, 3	U, R	P,C,F	L	-
CO-2	Develop the necessary theoretical foundation to apply simple	PO : 1,6 PSO :	Ap, U	P,C,F	L	-

	linear regression models to real-world economic data.	1,2,3				
CO-3	Analyse the fundamental concepts of multiple linear regression analysis within the realm of econometrics	PO : 1,5,6 PSO : 1,2,3	An,Ap	P,C,F	L	-
CO-4	Evaluate the violations of CLRM assumptions and develop strategies to address them.	PO : 1,5,6 PSO : 1,2,3	C, E	P,C,F	L	-

**Factual, C- Conceptual, P-Procedural, M-Metacognitive**

**Mapping of COs with PSOs and POs :**

	PSO 1	PSO 2	PSO 3	PSO 4	PSO 5	PSO 6	PO 1	PO 2	PO 3	PO 4	PO 5	PO 6	PO 7
CO 1	2	-	3	-	-	-	2	-	-	-	-	3	-
CO 2	2	1	3	-	-	-	2	-	-	-	-	3	-
CO 3	2	1	3	-	-	-	2	-	-	-	1	3	-
CO 4	1	2	3	-	-	-	1	-	-	-	2	3	-

**Correlation Levels:**

Level	Correlation
-	Nil
1	Slightly / Low
2	Moderate / Medium
3	Substantial / High

**Assessment Rubrics:**

- Quiz / Assignment/ Quiz/ Discussion / Seminar
- Midterm Exam
- Programming Assignments
- Final Exam

**Mapping of COs to Assessment Rubrics :**

	Internal Exam	Assignment	Project Evaluation	End Semester Examinations
CO 1	✓			✓
CO 2	✓			✓
CO 3	✓			✓
CO 4	✓			✓





### Mar Ivanios College (Autonomous)

<b>Discipline</b>	<b>ECONOMICS</b>				
<b>Course Code</b>	MIUK6DSEECO 350.1				
<b>Course Title</b>	GENDER ECONOMICS				
<b>Type of Course</b>	DSE				
<b>Semester</b>	VI				
<b>Academic Level</b>	300 - 399				
<b>Course Details</b>	Credit	Lecture per week	Tutorial per week	Practical per week	Total Hours/Week
	3	3			3
<b>Pre-requisites</b>	1. Basic understanding of economics 2. Awareness of social and cultural factors influencing economic outcomes, such as education, healthcare, poverty, and social mobility				
<b>Course Summary</b>	This course explores the intersection of gender and economics, focusing on the economic implications of gender inequality, discrimination, and disparities. Through theoretical frameworks, empirical research, and case studies, students will examine gender gaps in labour market outcomes, education, health, and other socio-economic indicators. The course will also explore policy interventions and strategies for promoting gender equality and women's empowerment.				

#### Detailed Syllabus:

Module	Unit	Content	Hrs
I	<b>Introduction to Gender Economics</b>		<b>9</b>
	1	Definition and scope of gender economics	
	2	Historical overview of gender inequality and discrimination	
	3	Key concepts and theories and approaches in gender economics- Household Production Theory, Intersectionality Theory, Discrimination Theory, Gender Mainstreaming, Queer theory	
	4	Gender dimensions of economic development and growth	
	5	Gender mainstreaming in development policies and programs	
	6	Role of international organizations and donors in promoting gender equality	

II	<b>Gender and Labour Market Outcomes</b>		<b>9</b>
	7	Gender wage gap: causes and consequences	
	8	Occupational segregation and glass ceiling effects	
	9	Motherhood penalty and fatherhood premium	
	10	Concept of unpaid care work and its economic value	
	11	Gender division of labour in household and caregiving responsibilities	
	12	Implications for women's labour force participation and economic empowerment, LGBTQ+ wage gap and barriers to employment	
III	<b>Gender Disparity</b>		<b>9</b>
	10	Gender gaps in education: enrollment, attainment, and achievement Factors influencing educational outcomes for boys and girls Implications of education gender gaps for labour market outcomes	
	11	Gender disparities in health outcomes and access to healthcare Social determinants of health: gender, socio-economic status, and intersectionality Policy implications for addressing gender disparities in health	
	12	Gender digital divide: access to and use of technology Gender biases in technology design and innovation Strategies for promoting gender-inclusive technology and digital literacy	
	13	Gender gaps in entrepreneurship and access to finance Challenges and opportunities for women and LGBTQ+entrepreneurs Policy initiatives to promote equal opportunities in entrepreneurship and business ownership	
IV	<b>Gender, Poverty and Environment</b>		<b>9</b>
	13	Feminization of poverty: causes and consequences	
	14	Intersectionality: gender, race, ethnicity, and poverty	
	15	Policy responses to address gender disparities in poverty	
	16	Gendered impacts of environmental degradation and climate change	
	17	Women's role in environmental conservation and sustainability	
	18	Gender-responsive strategies for addressing environmental challenges	
V	<b>Policy Interventions for Gender Equality</b>		<b>9</b>
	19	Discussion on Gender-responsive budgeting and policy analysis	
	20	Discussion on Importance of inclusive gender laws and regulations that protect the rights of LGBTQ+ individuals and promote equality and non-discrimination.	

22.

23. TEXTBOOK

24.

1. "Economics of Gender" by Joyce P. Jacobsen and Marianne A. Ferber (2008)

### ADDITIONAL READING

1. "The Economics of Women, Men, and Work" by Francine D. Blau and Anne E. Winkler (2017)
2. "Handbook of the Economics of Women, Men, and Work" edited by Francine D. Blau, Anne E. Winkler, and Marianne A. Ferber (2006)
3. "Gender and Development: Theoretical, Empirical, and Practical Approaches" by Lourdes Benería, Günseli Berik, and Maria S. Floro (2019)
4. "Feminist Economics Today: Beyond Economic Man" edited by Marianne A. Ferber and Julie A. Nelson (2003)
5. "Gender, Development, and Globalization: Economics as if All People Mattered" by Lourdes Benería and Günseli Berik (2007)
6. "Gendered Lives: Intersectional Perspectives" by Julia T. Wood and Natalie Fixmer-Oraiz (2021)
7. "Feminist Economics" journal

### Course Outcomes

No.	Upon completion of the course the graduate will be able to	Cognitive Level	PSO addressed
CO-1	Understand the theoretical foundations of gender economics.	U	PSO 1, 2, 6
CO-2	Analyze the causes and consequences of gender disparities in various domains.	An	PSO 2,3, 6
CO-3	Explore the economic determinants of gender gaps in labour market outcomes, education, and health.	An	PSO 2,3, 6
CO-4	Examine policy interventions and initiatives aimed at promoting gender equality and women's empowerment.	E	PSO 2,3, 5, 6

**R-Remember, U-Understand, Ap-Apply, An-Analyse, E-Evaluate, C-Create**

Name of the Course: Credits: 3:0:0 (Lecture:Tutorial:Practical)

CO No.	CO	PSO	Cognitive Level	Knowledge Category	Lecture (L)/Tutorial (T)	Practical (P)
CO-1	Understand the theoretical foundations of gender economics.	PSO 1, 2, 6	U	C	L	
CO-2	Analyze the causes and consequences of gender disparities	PSO 2,3, 6	An	P	L	

	in various domains.					
CO-3	Explore the economic determinants of gender gaps in labour market outcomes, education, and health.	PSO 2,3, 6	An	P	L	
CO-4	Examine policy interventions and initiatives aimed at promoting gender equality and women's empowerment.	PSO 2,3, 5, 6	E	M	L	

**F-Factual, C- Conceptual, P-Procedural, M-Metacognitive**

**Mapping of COs with PSOs and POs :**

	PSO 1	PSO 2	PSO 3	PSO4	PSO 5	PSO 6
CO 1	3	3	-	-	-	1
CO 2	-	3	3	-	-	1
CO 3	-	3	3	-	-	1
CO 4	-	3	3	-	1	1

	PO1	PO2	PO3	PO4	PO5	PO6	PO7
CO 1	3	-	-	-	-	-	-
CO 2	2	3	-	-	-	-	3
CO 3	2	3	-	-	-	-	3
CO 4	2	3	-	1	2	-	3

**Correlation Levels:**

Level	Correlation
-	Nil
1	Slightly / Low
2	Moderate / Medium
3	Substantial / High

**Assessment Rubrics:**

- Quiz / Assignment/ Quiz/ Discussion / Seminar
- Midterm Exam
- Programming Assignments
- Final Exam

**Mapping of COs to Assessment Rubrics :**

	Internal Exam	Assignment	Project Evaluation	End Semester Examinations
CO 1	✓			✓
CO 2	✓			✓
CO 3				✓
CO 4		✓		✓



### Mar Ivanios College (Autonomous)

<b>Discipline</b>	<b>ECONOMICS</b>				
<b>Course Code</b>	MIUK6DSEECO 351.1				
<b>Course Title</b>	KERALA ECONOMY				
<b>Type of Course</b>	DSE				
<b>Semester</b>	VI				
<b>Academic Level</b>	300 - 399				
<b>Course Details</b>	Credit	Lecture per week	Tutorial per week	Practical per week	Total Hours/Week
	4	4			4
<b>Pre-requisites</b>	1. Basic understanding of Economics 2. Basic understanding of Indian Economy				
<b>Course Summary</b>	This course provides an in-depth study of the economy of Kerala, a state in southern India known for its unique socio-economic development trajectory. Through lectures, discussions, case studies, and field visits, students will explore various aspects of Kerala's economy, including its historical context, demographic profile, sectoral composition, development challenges, and policy interventions.				

#### Detailed Syllabus:

Module	Unit	Content	Hrs
I	<b>Introduction to Kerala Economy</b>		<b>9</b>
	1	Geographical and historical background of Kerala	
	2	Socio-economic indicators and demographic profile	
	3	Overview of Kerala's development model	
II	<b>Economic Structure and Sectoral Composition</b>		<b>14</b>
	4	Overview of Kerala's economic structure (primary, secondary, tertiary sectors)	
	5	Role of agriculture, industry, and services sectors in Kerala's economy	
	6	Trends and patterns of sectoral growth and employment	
	7	Agriculture and Rural Economy Land use pattern and agricultural practices in Kerala	

		Challenges and opportunities in agricultural development Government policies and programs for rural development	
	8	Industry and Manufacturing Industrial development in Kerala: historical perspective Small-scale industries and cottage enterprises Entrepreneurial ecosystem in Kerala- Start up policies and support system Evolution of SEZs in Kerala Industrial policy and initiatives for promoting industrial growth	
	9	Services Sector and Tourism Growth and significance of the services sector in Kerala Role of tourism in Kerala's economy Challenges and prospects for tourism development	
III	<b>Human Development and Infrastructure Development</b>		<b>16</b>
	10	Education and healthcare indicators in Kerala Poverty and inequality: trends and patterns Employment and Unemployment Social welfare programs and initiatives Migration – Trends and Issues Gender and social inclusiveness in Kerala's development model	
	11	Transportation and communication infrastructure in Kerala Energy and power sector: challenges and opportunities Water resources management and environmental sustainability	
IV	<b>Fiscal Structure of Kerala</b>		<b>12</b>
	12	Overview of the fiscal framework, including revenue sources, tax policies, and budgetary allocations. Analysis of the state's fiscal deficit, debt profile, and fiscal sustainability.	
	13	Fiscal Federalism and Intergovernmental Transfers	
V	<b>Economic Challenges and Policy Responses</b>		<b>9</b>
	14	Discussion on third generational development challenges in Kerala	
	15	Discussion on Emerging sectors and growth opportunities in Kerala and Policy recommendations for sustainable development	
	16	Budget Analysis - Analyze the latest state budget of Kerala, focusing on revenue projections, expenditure allocations, and policy priorities. Identify key fiscal measures, analyze their implications, and prepare a budget analysis report.	
	17	Policy Debate: Engage in a policy debate session fiscal policy issue or reform proposal related to Kerala.	

## READING LIST

1. ""Economy of Kerala: Selected Essays" edited by K. P. Kannan
2. "Kerala Economy: Growth, Reforms, and Challenges Ahead" by G. A. Raveendran (2010)

3. "Economic Development of Kerala: A Study in Political Economy" by K. N. Raj (1990)
  4. "Kerala's Economic Development: Issues and Problems" edited by K. P. Kannan and B. A. Prakash (2000)
  5. "Kerala Model of Development: Insights and Concerns" edited by S. Irudaya Rajan and K. N. Nair (2000)
  6. "Kerala's Gulf Connection: CDS Studies on International Labour Migration from Kerala" edited by K. C. Zachariah and S. Irudaya Rajan (2001)
  7. "Kerala's Demographic Transition: Determinants and Consequences" edited by K. C. Zachariah and S. Irudaya Rajan (2000)
  8. "Kerala Economy: Performance, Problems, and Prospects" edited by K. P. Kannan and P. K. Michael Tharakan (2019)
  9. State Finances in Kerala: A Decade after the Twelfth Finance Commission Award" by R. Mohan (2019)
  10. "Kerala: The Dynamics of Fiscal Imbalances" by G. Venkatasubramanian and P.K. Michael Tharakan (2017)
  11. "Fiscal Reforms and Financial Sector Development in Kerala" edited by C.P. Chandrasekhar and K.P. Kannan (2015)
- 25.

### Course Outcomes

No.	Upon completion of the course the graduate will be able to	Cognitive Level	PSO addressed
CO-1	Understand the historical, geographical, and socio-economic context of Kerala.	U	PSO 2
CO-2	Analyze the key features and characteristics of Kerala's economy.	An	PSO 2, 3
CO-3	Explore the role of different sectors (agriculture, industry, services) in Kerala's economy.	An	PSO 2, 3
CO-4	Examine the development challenges and opportunities facing Kerala.	E	PSO 2, 3, 5, 6

**R-Remember, U-Understand, Ap-Apply, An-Analyse, E-Evaluate, C-Create**

**Name of the Course: Credits: 4:0:0 (Lecture:Tutorial:Practical)**



CO No.	CO	PSO	Cognitive Level	Knowledge Category	Lecture (L)/Tutorial (T)	Practical (P)
CO-1	Understand the historical, geographical, and socio-economic context of Kerala.	PSO 2	U	C	L	
CO-2	Analyze the key features and characteristics of Kerala's economy.	PSO 2, 3	An	P	L	
CO-3	Explore the role of different sectors (agriculture, industry, services) in Kerala's economy.	PSO 2, 3	An	P	L	
CO-4	Examine the development challenges and opportunities facing Kerala.	PSO 2, 3, 5, 6	E	P	L	

**F-Factual, C- Conceptual, P-Procedural, M-Metacognitive**

### Mapping of COs with PSOs and POs :

	PSO 1	PSO 2	PSO 3	PSO4	PSO 5	PSO 6
CO 1	-	3	-	-	-	-
CO 2	-	3	2	-	-	-
CO 3	-	3	2	-	-	-
CO 4	-	3	2	-	1	1

	PO1	PO2	PO3	PO4	PO5	PO6	PO7
CO 1	3	-	-	-	-	-	-
CO 2	2	3	-	-	-	-	-
CO 3	2	3	-	-	-	-	-
CO 4	2	3	-	1	-	-	-

### Correlation Levels:

Level	Correlation
-	Nil
1	Slightly / Low
2	Moderate / Medium
3	Substantial / High

### Assessment Rubrics:

- Quiz / Assignment/ Quiz/ Discussion / Seminar
- Midterm Exam
- Programming Assignments
- Final Exam

### Mapping of COs to Assessment Rubrics :

	Internal Exam	Assignment	Project Evaluation	End Semester Examinations
CO 1	✓			✓
CO 2	✓			✓
CO 3				✓
CO 4		✓		✓



**Mar Ivanios College (Autonomous)**

Discipline	ECONOMICS				
Course Code	MIUK6DSEECO352.1				
Course Title	FINANCIAL ECONOMETRICS				
Type of Course	<b>DSE</b>				
Semester	VI				
Academic Level	300-399				
Course Details	Credit	Lecture per week	Tutorial per week	Practical per week	Total Hours/Week
	4	4 Hours	-	-	4
Pre-requisites					
Course Summary	.				

**Detailed Syllabus:**

To be taken from the University Basket.



### Mar Ivanios College (Autonomous)

Discipline	ECONOMICS				
Course Code	MIUK6SECECO 350.1				
Course Title	DATA ANALYSIS USING SPREADSHEET AND R-PROGRAMMING				
Type of Course	SEC				
Semester	VI				
Academic Level	300-399				
Course Details	Credit	Lecture per week	Tutorial per week	Practical per week	Total Hours/Week
	3	3 hours	-	0 Hours	3
Prerequisite	<ul style="list-style-type: none"> <li>- Basic Computer Skills</li> <li>- Good Mathematical Skills</li> </ul> 26.				
Course Summary	This course explores the advantages of data analysis in Economics through the utilization of both Spreadsheet and R .				

#### Detailed Syllabus:

Module	Unit	Content	Hrs
I	Introduction to Spreadsheet		9
	1	Spreadsheet basics ; Inputting data, Selecting data, Multiplication, Division and Addition, Formatting Cells, Sorting Data, Filtering Data, Freezing and Unfreezing Headers.	

	2	Data Processing; AUTO SUM and SUMIF commands, Using MAX, MIN, COUNT, COUNTIF and POWER command	
	3	Data Representation; Pivot Tables; Line Graph, Column Chart, Histogram, Pie Chart and Scatter Plot.	
<b>II</b>	<b>Statistical operations using Spreadsheet</b>		<b>9</b>
	4	Computations Using Spreadsheet; Measures of Central Tendency , Measures of Dispersion , Correlation and Simple Linear Regression.	
	5	Introduction to economic and business data sets available in the public domain, such as from the NSE, BSE, RBI, MOSPI, World Bank, UN, etc. Any of these datasets may be used for demonstrating the statistical concepts studied in the course.	
<b>III</b>	<b>Introduction to R</b>		<b>9</b>
	6	History of R programming Language- Basics of R- objects and environment- console-script-operators- data structures- Packages/libraries-  Data types and type casting- related to numbers- characters- Boolean-Time.	
	7	Executing Commands in R – Importing Packages in R –	
	8	Getting Data into R- Saving Output in R – Accessing Records and Variables in R  Graphics in R- Line plot- histogram-box plot- pie chart- QQ plot- gg plot	
<b>IV</b>	<b>Applications of R in Economic Data</b>		<b>9</b>
	9	Computations using R; Inferential statistics- Hypothesis testing using R- Regression analysis ; linear and multiple regression using R	

	10	Practical exercises with economic datasets: RBI database on the Indian economy, Tradestat dataset, Stock market, etc.	
V	<b>Practise Sessions</b>		<b>9</b>
	11	Enhance data handling skills using Spreadsheet and R.	
	12	Conduct a sample survey of 30 households on economic issues and enter the data in a spreadsheet. Using R, conduct the activities such as data cleaning, handling missing values, finding outliers, and reshaping data for analysis.	

### Textbooks

- Frye, C. (2019). Microsoft Excel 2019 Step by Step. Redmond, Washington: Microsoft Press.
- Crawley, M. J. (2015). Statistics: An Introduction Using R (2<sup>nd</sup> Edition). John Wiley & Sons, Ltd.

### Additional Readings

- Anderson, D. R., Sweeney, D. J., Williams, T. A., Camm, J. D., & Cochran, J. J. (2014). Essentials of Statistics for Business and Economics. Cengage Learning.
- P.H. Karmel and M. Polasek (1978), Applied Statistics for Economists, 4<sup>th</sup> edition, Pitman.
- M.R. Spiegel, L.J. Stephens and N. Kumar (2010), Statistics, 4<sup>th</sup> edition, Schaum Series, McGraw Hill.

### Course Outcomes

No.	Upon completion of the course the graduate will be able to	Cognitive	PSO adresse

		Level	d
CO-1	Acquire a strong foundation in the use of Spreadsheet.	U, R	PSO- 1,3
CO-2	Enhance data handling skills using Spreadsheet.	Ap	PSO- 1,2,3
CO-3	Evaluate the fundamentals of R Programming	E, An	PSO- 1,3
CO-4	Use R in the analysis of economic data	Cr	PSO- 1,2,3

**R-Remember, U-Understand, Ap-Apply, An-Analyse, E-Evaluate, C-Create**

**Name of the Course: Credits: 4:0:0 (Lecture:Tutorial:Practical)**

CO No.	CO	PO/PSO	Cognitive Level	Knowledge Category	Lecture (L)/Tutorial (T)	Practical (P)
Co1	Acquire a strong foundation in the use of Spreadsheet	PO : 1,6 PSO: 1,3	U,R	C,F	L	-
Co2	Enhance data handling skills using Spreadsheet	PO : 1,2,6 PSO: 1,2,3	Ap	P,C	L	-
Co3	Evaluate the fundamentals of R Programming	PO : 1,6 PSO : 1,3	E,An	M,P	L	-
Co4	Use R in the analysis of economic data	PO : 1,2,6 PSO : 1,2,3	Cr	M, P	L	-

**F-Factual, C- Conceptual, P-Procedural, M-Metacognitive**

**Mapping of Cos with PSOs and POs :**

	PSO 1	PSO 2	PSO 3	PSO 4	PSO 5	PSO 6	PO 1	PO 2	PO 3	PO 4	PO 5	PO 6	PO 7

CO 1	2	-	3	-	-	-	2	-	-	-	-	3	-
CO 2	1	2	3	-	-	-	1	2	-	-	-	3	-
CO 3	2	-	3	-	-	-	2	-	-	-	-	3	-
CO 4	2	1	3	-	-	-	1	2	-	-	-	3	-

### Correlation Levels:

Level	Correlation
-	Nil
1	Slightly / Low
2	Moderate / Medium
3	Substantial / High

### Assessment Rubrics:

- Quiz / Assignment/ Quiz/ Discussion / Seminar
- Midterm Exam
- Programming Assignments
- Final Exam

### Mapping of COs to Assessment Rubrics :

	Internal Exam	Assignment	Project Evaluation	End Semester Examinations
CO 1	✓			✓
CO 2	✓			✓
CO 3	✓			✓
CO 4	✓	✓		✓





### Mar Ivanios College (Autonomous)

<b>Discipline</b>	<b>ECONOMICS</b>				
<b>Course Code</b>	MIUK6SECECO 351.1				
<b>Course Title</b>	ACADEMIC WRITING SKILLS IN ECONOMICS				
<b>Type of Course</b>	SEC				
<b>Semester</b>	VI				
<b>Academic Level</b>	300 - 399				
<b>Course Details</b>	Credit	Lecture per week	Tutorial per week	Practical per week	Total Hours/Week
	4	4			4
<b>Pre-requisites</b>	1. Research Methodology for Economics 2. Basic understanding about Economic theories and concepts				
<b>Course Summary</b>	This course aims to develop students' academic writing skills, focusing on essential aspects such as research, critical thinking, organization, and clarity of expression. Through a combination of lectures, workshops, and assignments, students will learn how to effectively communicate their ideas in academic contexts, including essays, research papers, and reports.				

### Detailed Syllabus:

Module	Unit	Content	Hrs
I	<b>Introduction to Academic Writing</b>		<b>12</b>
	1	Overview of academic writing conventions	
	2	Differences between academic and non-academic writing	
II	3	Understanding audience and purpose in academic writing	
	<b>Essay Structure and Organization</b>		<b>12</b>
	4	Introduction to essay structure (introduction, body, conclusion)	
	5	Crafting Effective Sentences	
	6	Maintaining coherence and unity within paragraphs	
III	7	Creating an outline for an academic essay, Developing a thesis statement	
	8	Strategies for revising and editing drafts	
	<b>Academic Argumentation and Critical Thinking</b>		<b>12</b>
	9	Developing critical reading skills, Analyzing arguments and evidence, Understanding the structure of an argument	

	10	Incorporating critical thinking into writing	
	11	Developing and supporting a thesis	
	12	Counterargument and rebuttal strategies	
IV	<b>Writing and Presenting Research Findings</b>		<b>12</b>
	13	Introduction to research paper formats	
	14	Writing Literature Reviews - Evaluating sources for credibility and relevance, Purpose and structure of literature reviews, Writing critically about existing research, Synthesizing sources and identifying themes	
	15	Incorporating research into writing, Building analysis	
	16	Strategies for presenting research findings effectively	
	17	Avoiding plagiarism and citing sources properly	
	18	Creating citations and bibliographies	
	19	Presenting Research Findings - Designing academic posters and presentations, Oral communication skills for academic presentations	
V	<b>Final Project</b>		<b>12</b>
	20	Students will complete a final writing project, applying the skills and concepts learned throughout the course. This may include an academic essay, research paper, or literature review, depending on student preferences and instructor guidance.	

## TEXTBOOK

1. "Writing Academic English" by Alice Oshima and Ann Hogue (1999)

## ADDITIONAL READINGS

1. "They Say / I Say: The Moves That Matter in Academic Writing" by Gerald Graff and Cathy Birkenstein (2018)
2. "The Elements of Style" by William Strunk Jr. and E.B. White (First published in 1918, revised and updated editions have been published since then)
3. "A Manual for Writers of Research Papers, Theses, and Dissertations" by Kate L. Turabian (2018)
4. "Writing Your Dissertation in Fifteen Minutes a Day: A Guide to Starting, Revising, and Finishing Your Doctoral Thesis" by Joan Bolker (1998)
5. "The Craft of Research" by Wayne C. Booth, Gregory G. Colomb, and Joseph M. Williams (2008)
6. "Academic Writing for Graduate Students: Essential Tasks and Skills" by John M. Swales and Christine B. Feak (2012)
7. "The Literature Review: Six Steps to Success" by Lawrence A. Machi and Brenda T. McEvoy (2016)
8. "Writing Science: How to Write Papers That Get Cited and Proposals That Get Funded" by Joshua Schimel (2011)

## Course Outcomes

No.	Upon completion of the course the graduate will be able to	Cognitive Level	PSO addressed
CO-1	Understand the conventions and expectations of academic writing.	U	PSO 3
CO-2	Improve clarity, coherence, and precision in written expression.	Ap	PSO 3
CO-3	Apply techniques for organizing and structuring academic essays and papers.	Ap	PSO 1, 3
CO-4	Practice critical thinking and analysis in academic writing.	An	PSO 1, 3, 5,6

**R-Remember, U-Understand, Ap-Apply, An-Analyse, E-Evaluate, C-Create**

Name of the Course: Credits: 4:0:0 (Lecture:Tutorial:Practical)

CO No.	CO	PO/PSO	Cognitive Level	Knowledge Category	Lecture (L)/Tutorial (T)	Practical (P)
CO-1	Understand the conventions and expectations of academic writing.	PO -1,4,6 PSO- 3	U	C	L	
CO-2	Improve clarity, coherence, and precision in written expression.	PO -1,4,5,6 PSO- 3	Ap	P	L	
CO-3	Apply techniques for organizing and structuring academic essays and papers.	PO -1,2, 4,5,6 PSO- 1, 3	Ap	P	L	
CO-4	Practice critical thinking and analysis in	PO- 1,2, 4,5,6 PSO- 1, 3,	An	P	L	

	academic writing.	5,6				
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**F-Factual, C- Conceptual, P-Procedural, M-Metacognitive**

### Mapping of COs with PSOs and POs:

	PS O1	PS O2	PS O3	PSO 4	PS O5	PS O6	PO 1	PO 2	PO 3	PO 4	PO 5	PO 6	PO 7
CO 1	-	-	3	-	-	-	3	-	-	3	-	1	-
CO 2	-	-	3	-	-	-	2	-	-	3	2	3	-
CO 3	1	-	3	-	-	-	2	3	-	3	3	3	-
CO 4	1	-	3	-	2	2	2	3	-	3	3	3	-

### Correlation Levels:

Level	Correlation
-	Nil
1	Slightly / Low
2	Moderate / Medium
3	Substantial / High

### Assessment Rubrics:

- Quiz / Assignment/ Quiz/ Discussion / Seminar
- Midterm Exam
- Programming Assignments
- Final Exam

### Mapping of COs to Assessment Rubrics :

	Internal Exam	Assignment	Project Evaluation	End Semester Examinations
CO 1	✓			✓
CO 2	✓			✓

CO 3		✓		✓
CO 4		✓		✓

## SEMESTER VII



## Mar Ivanios College (Autonomous)

<b>Discipline</b>	ECONOMICS				
<b>Course Code</b>	MIUK7 DSCECO 400.1				
<b>Course Title</b>	ADVANCED MICROECONOMICS				
<b>Type of Course</b>	DSC				
<b>Semester</b>	VII				
<b>Academic Level</b>	400 - 499				
<b>Course Details</b>	<b>Credit</b>	<b>Lecture per week</b>	<b>Tutorial per week</b>	<b>Practical per week</b>	<b>Total Hours/Week</b>
	4	4 hours	-	-	4
<b>Pre-requisites</b>	Knowledge of intermediate micro economics.				
<b>Course Summary</b>	This course delves into advanced concepts in micro economics, providing students with a comprehensive understanding of oligopoly market, alternative theories of the firm, market failures, asymmetric information, theory of auctions and game theory and linear programming. Through critical analysis and case studies, students will explore the complexities of market dynamics and the strategic behaviour of firms in various economic environments.				

## Detailed Syllabus:

Module	Unit	Content	Hrs
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I	<b>OLIGOPOLY MARKET AND ALTERNATE THEORIES OF THE FIRM</b>		<b>16</b>
	1	Non collusive oligopoly models-Cournot’s Model, Bertrand’s model-stackelberg’s model and Chamberlines model. Cartels and Price leadership models.	
	2	Critique of the neo-classical theory of the firm: The Marginalist Controversy - Hall and Hitch report and the full cost pricing Principle–Gordon’s attack on marginalism Bains limit pricing theory –Recent developments in the theory of limit pricing-Model of Sylos - Labini, Franco Modigliani, Bhagaavati and Pashigan.	
	3	Managerial theories of the firm-Baumol's theory of sales revenue maximization-Marris’s and Wiliiamson’s model of managerial discretion Behavioral theory of the firm-model of Cyert and March	
II	<b>Market with Asymmetric Information and Market failure</b>		<b>10</b>
	4	Asymmetric information – Market for Lemons – Adverse Selection - Screening and its applications: Credit rationing, Regulation, Optimal Income Taxation – Moral Hazard and its application: Managerial incentive schemes – Market Signaling and its application: Corporate financing and investment decisions.	
	5	Market Failure and Sources of Market failure: Externalities of Production and Consumption. Public Good: Characteristics, Free Rider Problem, Public Good and Pareto Efficiency	
III	<b>Theory of Auctions and Game Theory</b>		<b>12</b>
	6	Auctions: Concept, Classifications, Bidding Rules, Auction Designs, Forms of Auction, Position Auction. Two Bidders	

		and More than two bidders. Problems with Auctions, The concept of Winner's Curve, Stable Marriage Problem, Mechanism Design	
	7	Game Theory: The Payoff Matrix of a Game, Nash Equilibrium, Mixed Strategies, Prisoner Dilemma, Tit-for-Tat-Repetitive and non-repetitive games. A Game of Entry Deterrence – Application of Game theory	
IV	<b>Linear Programming</b>		<b>10</b>
	8	Statement of the Linear Programming Problem-Graphical solution of the Linear programming Problem-The Simplex method	
V	<b>Review and Assignment</b>		<b>12</b>
	9	Students are expected to identify any five scenarios of competitive behavior among oligopoly firms at international/national levels at present and discuss the pros and cons of the competitive strategy adopted.	
	10	Students conduct an awareness campaign on the negative externality of drug abuse/ Awareness campaign about the negative externality of inefficient waste management.	

**Text Books:**

1. Koutsoyiannis, A., Modern Microeconomics (1977), 2nd Edition, Macmillan Publications,
2. Varian, Hal. R., Intermediate Microeconomics (2014) – A Modern Approach, 8th Edition, W.W. Norton & Company Publications, USA,

**Additional Reference:**

1. Pindyck, Robert S. and Rubinfeld, Daniel L (2003), Micro Economics, Printice Hall India, New Delhi,
2. Bolton, P. and Dewatripont, M. (2005), Contract Theory, MIT Press,



3. Mankiw, Geogory N. (2015), Principles of Microeconomics, 7th Edition, Cengage Learning India Pvt. Ltd,
4. Jehle, Geoffrey A. and Reny, Philip J (2011), Advanced Microeconomic Theory, 3rd Edition, Prentice Hall University Press,
5. Browning, Edgar K and Zupan, Mark A (2019), Microeconomic Theory and Applications, 13th Edition, Willey,
6. Hirshleifer, Jack, Glazer, Amihai and Hirshleifer, David (2005), Price Theory and Applications– Decisions, Markets and Information, 7th Edition, Cambridge University Press,

Course Outcomes (Cos) and Cognitive Level Mapping

### Course Outcomes

No.	Upon completion of the course the graduate will be able to	Cognitive Level	PSO addressed
CO-1	understand different theories of oligopoly market alternate theories of the firm	U	PSO3
CO-2	Comprehend the concept of externalities and its impact on social welfare	Ap	PSO3,6
CO-3	Apply game theory to make optimal group decisions	Ap	PSO3
CO 4	Understand the theoretical concepts of linear programming	U	PSO1

**R-Remember, U-Understand, Ap-Apply, An-Analyse, E-Evaluate, C-Create**

*Note: 1 or 2 COs/module*

**Name of the Course: Credits: 4:0:0 (Lecture:Tutorial:Practical)**

CO No.	CO	PO/PSO	Cognitive Level	Knowledge Category	Lecture (L)/Tutorial (T)	Practical (P)
CO 1	understand different theories of oligopoly market and alternate theories of the firm	PO1/PSO1	U	C	L	--
CO2	Comprehend the concept of externalities and its impact on social welfare	P01,3,7/PSO3,6	U	C	L	
CO3	Apply game theory to make optimal group decisions	PO4,5/PSO3	Ap	C	L	-
CO4	Understand the theoretical concepts of linear programming	PO1/PSO1	U	C	L	-

**F-Factual, C- Conceptual, P-Procedural, M-Metacognitive**

**Mapping of COs with PSOs and POs:**

	PS O1	PS O2	PS O3	PSO 4	PS O 5	PS O6	PO 1	PO 2	PO 3	PO 4	PO 5	PO 6	PO 7
CO 1	3						3						
CO 2			3			1	3		2				1
CO 3			2							2	2		
CO 4	3						2						

**Correlation Levels:**

Level	Correlation
-	Nil
1	Slightly / Low
2	Moderate / Medium
3	Substantial / High

### Assessment Rubrics:

- Quiz / Assignment/ Quiz/ Discussion / Seminar
- Midterm Exam
- Programming Assignments
- Final Exam

### Mapping of COs to Assessment Rubrics :

	Internal Exam	Assignment	Project Evaluation	End Semester Examinations
CO 1	✓	✓		✓
CO 2	✓	✓		✓
CO 3	✓			✓
CO 4	✓			✓
CO 5	✓			✓



**Mar Ivanios College (Autonomous)**

<b>Discipline</b>	<b>ECONOMICS</b>				
<b>Course Code</b>	MIUK7 DSCECO 401.1				
<b>Course Title</b>	ADVANCED MACROECONOMICS				
<b>Type of Course</b>	<b>DSC</b>				
<b>Semester</b>	VIII				
<b>Academic Level</b>	400 - 499				
<b>Course Details</b>	<b>Credit</b>	<b>Lecture per week</b>	<b>Tutorial per week</b>	<b>Practical per week</b>	<b>Total Hours/Week</b>
	4	3 hours	-	2 hours	5
<b>Pre-requisites</b>	The student has to acquire a knowledge on intermediate macroeconomics				
<b>Course Summary</b>	This course provides a comprehensive examination of growth models, business cycle analysis, and modern developments in macroeconomics, encompassing classical, Keynesian, neo-Keynesian, real business cycle, and post-Keynesian perspectives. Students will explore theoretical frameworks, empirical evidence, and policy implications related to economic growth, fluctuations in output and employment, and the role of government intervention in stabilizing the economy.				

**Detailed Syllabus:**

Module	Unit	Content	Hrs
I	<b>Growth Models</b>		<b>12</b>
	1	Solow Growth Model – The impact of a change in the	

		Saving Rate – Applications of Solow Model	
	2	R&D Growth Model: Determinants of the allocation of resources to R&D – The Romer Model. Time Series Tests of Endogenous Growth Models	
	3	Extending the Solow model to include Human Capital	
II	<b>Business Cycle Analysis-Classical And Keynesians</b>		<b>12</b>
	4	Business Cycle, effects of fiscal policy shocks on the classical model, unemployment in the classical model, role of money and monetary policy in the classical model and the non-neutrality of money	
	5	Interaction models of Samuelson, Hicks, Goodwin and Kaldor -macroeconomic stabilization, supply shocks in the Keynesian model.	
	6	.	
III	<b>Modern Developments In Macroeconomics-Classical And Keynesian Frame Work</b>		<b>12</b>
	7	Micro foundations of Macroeconomics-Rational Expectations-Continuous Market clearing-aggregate supply hypothesis-Lucas Surprise Model-Equilibrium Business cycle theory (theory of misperceptions) Policy implications of the new classical macroeconomics	
	8	Neo-Keynesian school – Walrasian equilibrium – The reinterpretations of Keynes as non walrasian equilibrium – Dual Decision Hypothesis.Axel Leijonhufvud- Co-ordination Failure- Quantity Constrained Model of Malinvaud and Barro.	
IV	<b>New Keynesian And Post Keynesian Macroeconomics</b>		<b>12</b>
	9	core propositions of New Keynesians-nominal price rigidity (small menu cost model) - realrigidities- real price rigidity (customer markets)- real wage rigidity- efficiency wage hypothesis- implicit contract models- Insider- outsider models-Hysteresis- policy implications.	
V	<b>Review And Assignment</b>		<b>12</b>

	10	Discussion on the relevance and applicability of the theories of business cycle to real-world economic situations.	
	11	Prepare a literature review report on the new Keynesian and post Keynesian arguments on price and wage rigidity	

### TEXTBOOK

1. Rosalind Levacic and Alexander Rebmann (2006): Macroeconomics: An Introduction to Keynesian-Neoclassical Controversies, MacMillan
2. Romer, Advanced macro economics

### ADDITIONAL READINGS

1. Federeic S. Mishkin (2011) : Macroeconomics: Policy and Practice , Addison Wesley
2. Gregory Mankiw, N (2010): Macroeconomics, 7th Ed, Worth Publishers
3. Rudiger Dornbusch, Stanley Fisher and Richard Startz (2007) 7th Ed:
4. Macroeconomics, TMH
5. Richard T. Froyen (2008) L: Macroeconomics- Theories and Policies, Pearson
6. Garner Ackley (1989): Macroeconomics: Theory and Policy, Collier MacMillan,
7. Brian Snowdon and Howard R. Vane (Ed) (2003): A Macroeconomics Reader,
8. Routledge,
9. Brian Snowdon, Howard Vane and Peter Wynarczyk (2002): A Modern Guide to
10. Macroeconomics: An Introduction to Competing Schools of Thought, EE

### Course Outcomes

No.	Upon completion of the course the graduate will be able to	Cognitive Level	PSO addressed
CO-1	Comprehend the theoretical foundations and mechanisms of the Solow Growth Model, R&D models, and the role of human capital in economic	U	PSO1

	growth.		
CO-2	Evaluate the relevance and applicability of the theories of business cycle to real-world economic situations.	E	PSO3
CO-3	Critically analyse the strengths, weaknesses, and implications of the theories and models like Lucas surprise supply functions, Intertemporal substitution model, Dual Decision Hypothesis etc. considering empirical evidence and alternative perspectives.	An	PSO3
CO-4	Understand the different forms of price and wage rigidities, characteristics, and implications for economic outcomes.	U	PSO1

**R-Remember, U-Understand, Ap-Apply, An-Analyse, E-Evaluate, C-Create**

*Note: 1 or 2 COs/module*

Name of the Course: Credits: 4:0:0 (Lecture:Tutorial:Practical)

CO No.	CO	PO/PS O	Cognitive Level	Knowledge Category	Lecture (L)/Tutorial (T)	Practical (P)
CO1	Comprehend the theoretical foundations and mechanisms of the Solow Growth Model, R&D models, and the role of human capital in economic growth.	PO1/PSO1	U	C	L	-
CO-2	Evaluate the relevance and applicability of the theories of business cycle to real-world economic	PO1,2,4/PSO3	E	C,F	L	-

	situations.					
CO-3	Critically analyse the strengths, weaknesses, and implications of the theories and models like Lucas surprise supply functions, Intertemporal substitution model, Dual Decision Hypothesis etc. considering empirical evidence and alternative perspectives.	PO2,4/ PSO3	AN	C,F	L	-
CO-4	Understand the different forms of price and wage rigidities, characteristics, and implications for economic outcomes.	PO1/P SO1	U	C	L	-

**F-Factual, C- Conceptual, P-Procedural, M-Metacognitive**

**Mapping of COs with PSOs and POs :**

	PS O1	PS O2	PS O3	PSO 4	PS O 5	PS O6	PO 1	PO 2	PO 3	PO 4	PO 5	PO 6	P07
CO 1	3						3						
CO 2			3				3	2		4			
CO 3			2					2		3			
CO 4	2						2						



**Correlation Levels:**

Level	Correlation
-	Nil
1	Slightly / Low
2	Moderate / Medium
3	Substantial / High

**Assessment Rubrics:**

- Quiz / Assignment/ Quiz/ Discussion / Seminar
- Midterm Exam
- Programming Assignments
- Final Exam

**Mapping of COs to Assessment Rubrics :**

	Internal Exam	Assignment	Project Evaluation	End Semester Examinations
<b>CO 1</b>	✓			✓
<b>CO 2</b>	✓	✓		✓
<b>CO 3</b>	✓			✓
<b>CO 4</b>	✓	✓		✓



### Mar Ivanios College (Autonomous)

<b>Discipline</b>	<b>ECONOMICS</b>				
<b>Course Code</b>	MIUK7DSEECO 400.1				
<b>Course Title</b>	OPEN ECONOMY MACROECONOMICS				
<b>Type of Course</b>	DSE				
<b>Semester</b>	VII				
<b>Academic Level</b>	400-499				
<b>Course Details</b>	Credit	Lecture per week	Tutorial per week	Practical per week	Total Hours/Week
	4	4	-		4
<b>Pre-requisites</b>	Thorough understanding of Macroeconomics, Microeconomics, International Economics and Mathematical Economics.				
<b>Course Summary</b>	This course intends to emphasize how a country's relations to the rest of the world influence aggregate economic activity, employment, exchange rate and foreign exchange markets. The course prepares the student for professional discussions on the design of open economy macroeconomic policies, which are essential to understand macroeconomic fluctuations in contact with global transactions.				

#### Detailed Syllabus:

Module	Unit	Content	Hrs
I	<b>Open Economy macroeconomics: Theoretical Framework</b>		<b>10</b>
	1	Income Determination in an Open Economy-The Keynesian approach to output adjustment.	
	2	Monetarist Approach to Balance of Payments	
	3	Adjustment Policies; Expenditure changing Policies, Expenditure Switching	
	4	Policies and Direct Controls Internal and External Balance with Expenditure Changing and Expenditure Switching Policies.	
II	<b>Exchange Rate Determination</b>		<b>12</b>
	5	Purchasing Power Parity Theory; Absolute and Relative.	

	6	Equilibrium Exchange Rate Determination Under Fixed and Flexible Exchange Rate.	
	7	Portfolio Balance Model and Exchange Rate- Exchange Rate Overshooting	
III	<b>External Adjustment: Stock-Flow Consistent Approaches</b>		<b>13</b>
	8	Dynamic and Stochastic Mundell-Fleming Models ; Sticky domestic prices and exchange rates , Dynamic version of the Dornbusch's Mundell-Fleming model, , Stochastic Mundell-Fleming model	
	9	Fiscal and Monetary Policies with Perfect and Imperfect Capital Mobility under Fixed And Flexible Exchange Rates.	
	10	Intertemporal Approach to Current Account Balance; A small two-period endowment economy ,Role of investment: defining the current account ,A two-region world economy	
IV	<b>Exchange Rate Regimes and Currency Crises Models</b>		<b>13</b>
	11	Recent History of Exchange Rate Arrangements	
	12	The Second-Generation Currency Crisis Model.	
	13	Currency Derivatives – Currency Crises and Monetary Policy in an Economy with Credit Constraints	
V	<b>Open Economy Macroeconomics - Case Studies</b>		<b>12</b>
	14	Identify the Risks to Global Macroeconomic growth, according to IMF Publications, and provide suggestive measures for efficient multilateral coordination .	
	15	Conduct a discussion on the challenges faced by the Reserve Bank of India (RBI) in conducting monetary policy, in an open economy framework.	
	16	Develop a policy document for India suggesting measures to maintain energy security amidst the global oil price fluctuations.	

### Textbook

- Krugman, P., Obstfeld, M., & Melitz, M. (2015). International Economics: Theory and Policy (10<sup>th</sup> ed.). Pearson Education.

### Reading List

- Obstfeld, M., & Rogoff, K. (1996). Foundations of International Macroeconomics. MIT Press.
- Gandolfo, G., & Federici, D. (2016). International Finance and Open Economy Macroeconomics (2nd ed.). Springer.
- Nelson, C. M. (2001). International Macroeconomics and Finance: Theory and Econometric Methods. Blackwell Publishers.
- Salvatore, D. (2008). \*International Economics\* (8th ed.). Wiley India.
- Frenkel, J., & Johnson, H. (1976). The Monetary Approach to the Balance of Payments: Essential Concepts and Historical Origins. In J. Frenkel & H. Johnson

(Eds.), \*The Monetary Approach to the Balance of Payments\*. University of Toronto Press.

### Course Outcomes

No.	Upon completion of the course the graduate will be able to	Cognitive Level	PSO addressed
CO-1	Understand the macroeconomic theories and models in the context of open economies.	R,U	PSO 1, 2,4
CO-2	Examine the theoretical underpinnings of economic policy and adjustment mechanisms in open economies	Ap, U	PSO 2,4
CO-3	Analyse different open economy macroeconomic approaches towards the treatment of fluctuations in external stability	An, Ap	PSO 1,2,3
CO-4	Evaluate the management of Exchange Rate Regime and the situation of global currency Crises.	E,An	PSO 2,4

**R-Remember, U-Understand, Ap-Apply, An-Analyse, E-Evaluate, C-Create**

*Note: 1 or 2 COs/module*

**Name of the Course: Credits: 4:0:0 (Lecture:Tutorial:Practical)**

CO No.	CO	PO/PSO	Cognitive Level	Knowledge Category	Lecture (L)/Tutorial (T)	Practical (P)
CO-1	Understand the macroeconomic theories and models in the context of open economies..	PO – 1.2 PSO 1,2,4	R,U	C	L	-
CO-2	Examine the theoretical	PO-1,2 PSO 2,4	Ap,U	P,C	L	

	underpinnings of economic policy and adjustment mechanisms in open economies					
CO-3	Analyse different open economy macroeconomic approaches towards the treatment of fluctuations in external stability	PO-1, 2 PSO 1, 2,3	An, Ap	P,M	L	-
CO-4	Evaluate the management of Exchange Rate Regime and the situation of global currency Crises.	PO-1,2 PSO 2,4	E,An	P,M	L	-

**F-Factual, C- Conceptual, P-Procedural, M-Metacognitive**

**Mapping of COs with PSOs and POs :**

	PSO 1	PSO 2	PSO 3	PSO 4	PSO 5	PSO 6	PO 1	PO 2	PO 3	PO 4	PO 5	PO 6	PO 7
<b>CO 1</b>	3	2	-	1	-	-	3	2	-	-	-	-	-
<b>CO 2</b>	-	3	-	2	-	-	3	2	-	-	-	-	-
<b>CO 3</b>	1	2	3	-	-	-	2	3	-	-	-	-	-
<b>CO 4</b>	-	2	-	3	-	-	2	3	-	-	-	-	-

**Correlation Levels:**

Level	Correlation
-	Nil
1	Slightly / Low
2	Moderate / Medium
3	Substantial / High

**Assessment Rubrics:**

- Quiz / Assignment / Discussion / Seminar
- Internal Exam
- Project Evaluation
- Final Exam

**Mapping of COs to Assessment Rubrics :**

	Internal Exam	Assignment	Project Evaluation	End Semester Examinations
CO 1	✓			✓
CO 2	✓			✓
CO 3	✓	✓		✓
CO 4	✓	✓		✓



### Mar Ivanios College (Autonomous)

Discipline	ECONOMICS				
Course Code	MIUK7DSEECO401.1				
Course Title	MATHEMATICAL METHODS FOR ECONOMIC ANALYSIS II				
Type of Course	<b>DSE</b>				
Semester	VII				
Academic Level	400-499				
Course Details	Credit	Lecture per week	Tutorial per week	Practical per week	Total Hours/Week
	4	4 Hours	-	-	4
Pre-requisites					
Course Summary	.				

#### Detailed Syllabus:

To be taken from the University Basket.

**MAR IVANIOS COLLEGE (AUTONOMOUS), THIRUVANANTHAPURAM**  
**BOARD OF STUDIES IN ECONOMICS, HISTORY AND POLITICAL SCIENCE**  
**2023 – 2026**

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