#### **DEPARTMENT OF ECONOMICS**

SACRED HEART COLLEGE (AUTONOMOUS), THEVARA KOCHI, KERALA, 682013



# CHOICE BASED COURSE CREDIT AND SEMESTER SYSTEM (CBCSS)

#### **SYLLABI**

# For Under Graduate Programmein ECONOMICS

**INTRODUCED FROM 2019 ADMISSION ONWARDS** 

BOARD OF STUDIES INECONOMICS Sacred Heart College, Thevara, Kochi, Kerala

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### Dr. Cherian P.E,

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#### INTRODUCTION

#### **B. A. ECONOMICS PROGRAMME:**

Economics concerns the wealth of nations, its origins in production and exchange, its allocation among competing uses, its distribution among individuals, its accumulation or decline. Economics as a discipline is a study of howindividuals, firms, governmentand global organizations make decisions and that together determine how resources are allocated. Economics study is primary concerned with important issues such as the behaviour of individuals and firms and their strategic interactions, production and consumption of goods and how wealth is created, lost and transferred globally, economic growth and development, the causes and effects of unemployment and inflation, income distribution, industrial organization, public policy design and implementation, management of the environment, and the means to improve overall efficiency and living standards. An appreciation of economics and the general workings of the economy have become increasingly necessary to make sense of governmental policy-making, the conduct of businesses and the enormous changes in economic systems occurring throughout the world.

TheundergraduateprogrammeatDepartmentofEconomicsSacredHeart College (Autonomous) Thevara provides a rigorous toolkit for thinking about the economy and about economic policy. It promotes an active learning approach to economics in which students think about real problems in an analytically rigorous way. In addition, the programme aims to teach students how to put the acquired skills to use in their own research. Students will find a cumulative and hierarchical body of knowledge laid out in a structured series of courses. This creates a foundation which the student can build on and apply to many areas. Our Economics students graduate as self-motivated, ambitious learners, able to confidently navigate their future careerpath.

In the past years, many new insights have taken root and become important in economic theory and policy. In the light of the expanding horizons of knowledge, constant endeavours have been made to review the curriculum in many of the universities in the world to make Economics a vibrant and meaningful subject. The curriculum merits better pondering so as to make it practically more competitive and student cantered in the multidimensional environment.

The Board of Studies resolved to restructure the curriculum and syllabi of BA Degree course under choice-based credit and semester system. The restructuring is attempted in such a way as to lay emphasis on student choice and self-learning. While attempting restructuring, the existing conditions relating to infrastructure, work load and staff pattern have been properly taken care of and provision for full utilization of the existing faculty is proposed.

The task of restructuring was done by expert committees constituted for each course by Department of Economics, Sacred Heart College, Thevara, after considering proposals and suggestions of the members of Board of Studies in Economics for course restructuring. The proposals and suggestions of members of Board of Studies in Economics were consolidated at its meeting held on 14<sup>th</sup> July 2018. The members of the expert committees for course restructuring and Board of Studies in Economics did a commendable work to accomplish the task of course restructuring and syllabus revision.

# 1 REGULATIONS FOR CHOICE BASED CREDIT AND SEMESTER SYSTEM(CBCSS)FOR UNDER GRADUATE PROGRAMMES-2019

#### **Preamble**

Sacred Heart College, Thevara became an autonomous college under Mahatma University Kottayam in 2014. The college revised the choice based credit and semester system (CBCSS) for under graduate programmes in 2015-16. The Academic Council which met on 21-07-2018 approved the proposals of the various Boards of Studies for revising the syllabi of the undergraduate programmes from 2019-20 admissions onwards and the regulations for CBCSS. The revised regulations are asfollows.

#### 1.1 Title

These regulations shall be called "SACRED HEART COLLEGE THEVARA REGULATIONS FOR CREDIT AND SEMESTER SYSTEM 2019"

#### 1. 2.Scope

Applicable to all programmes of the college with effect from 2019 admissions, except otherwise approved by the Academic Council of the College

#### 1.3. Definitions

- i. 'Programme' means the entire course of study and examinations.
- ii. 'Duration **of Programme'** means the period of time required for the conduct of the programme. The duration of under graduate programmes shall be 6 semesters, post-graduate programme shall be of 4 semesters and M Phil programmes shall be 2semesters.
- iii. **'Semester'** means a term consisting of a minimum of 90 working days, inclusive of examination, distributed over a minimum of 18 weeks of 5 workingdays, each with 5 contact hours of one hour duration
- iv. **'Course'** means a segment of subject matter to be covered in a semester. Each Course is to be designed variously under lectures / tutorials / laboratory or fieldwork / study tour /seminar / project / practicaltraining / assignments/evaluation etc., to meet effective teaching and learning

needs.

- v. 'Common Course I' means a course that comes under the category of courses for English and 'Common Course II' means additional language, a selection of both is compulsory forall students undergoing undergraduate programmes(ModelI)
- vi. 'Core course' means a course in the subject of specialization within a degreeprogramme.
- vii. 'Complementary Course' means a course which would enrich thestudy of corecourses.
- viii. '**Open course**' means a course outside the field of his/her specialization, which can be opted by astudent.
  - ix. 'Additional core course' means a compulsory course for all under graduate students (as per the UGC directive) to enrich their general awareness.
  - x. TheU.G.programmesshallinclude(a)Commoncourses(b)Corecourses(c) Complementary Courses (d) Open Course (e) Study tour and (f)Internship for selectedprogrammes.
  - xi. 'AdditionalCourse' is acourseregisteredbyastudentoverandabovethe minimum requiredcourses.
- xii. **'Credit' (Cr)** of a course is the numerical value assigned to a course according to the relative importance of the content of the syllabus of the programme.
- xiii. 'Extracredits' are additional credits awarded to a student over and above the minimum credits required for a programme for achievements in co-curricular activities carried out outside the regular class hours OR curricular activities/courses completed for value addition, as directed by the College/ department. It is the numerical value assigned to Club activities, Social service, Internship etc. which is not added with the total academic credits of the students. Additional credit components
  - (a) Talent & career club activity(optional)

- (b) Social service(mandatory)
- (c) Internship for Commerce, Communication and Computer applications(mandatory).
- (d) Internship (desirable for otherprogrammes).
- (e) Add on courses(optional)
- xiv. 'ProgrammeCredit'meansthetotalcreditsoftheUGProgramme.
- xv. **'Programme Elective course'** Programme Elective course means a course, which can be chosen from a list of electives and a minimum number of courses is required to complete the programme.
- xvi. 'Programme Project 'Programme Project means a regular project work with stated credits on which the student undergoes a project under the supervision of a teacher in the parent department / any appropriate Institute in order to submit a dissertation on the project work asspecified.
- xvii. 'Internship' is on-the-job training for professional careers.
- xviii. '**Plagiarism**'Plagiarismistheunreferenceduseofotherauthors'material in dissertations and is a serious academicoffence.
- xix. **'Tutorial'**Tutorialmeansaclasstoprovideanopportunitytointeractwith students at their individual level to identify the strength and weakness of individualstudents.
- xx. 'Seminar' seminar means a lecture by a student expected to train the student in self-study, collection of relevant matter from the books and Internet resources, editing, document writing, typing and presentation.
- xxi. 'Evaluation' means every course shall be evaluated by 25% continuous (internal) assessment and 75% end course/end semester (external) assessment.
- xxii. '**Repeat course**' is a course that is repeated by a student for havingfailed in that course in an earlier registration.
- xxiii. 'Audit Course' is a course for which no credits areawarded.
- xxiv. '**Department**' means any teaching Department offering a course of study approvedbythecollege/Instituteasperthe Act/ Statuteofthe

- University.
- xxv. 'Parent Department' means the Department which offers a particular UG/PGprogramme.
- xxvi. '**DepartmentCouncil**'meansthebodyofallteachersofaDepartmentin aCollege.
- xxvii. **'Faculty Advisor'** is a teacher nominated by a Department Council to coordinate the continuous evaluation and other academic activities undertaken in the Department.
- xxviii. 'College coordinator meansateacherfromthecollegenominated by the College Council to look into the matters relating to CBCS-PGS ystem.
- xxix. **'LetterGrade'**orsimply'**Grade**'inacourseisalettersymbol(O,A,B,C, D, etc.) which indicates the broad level of performance of a student in a course.
- xxx. Each letter grade is assigned a **'Grade point'** (GP) which is an integer indicating the numerical equivalent of the broad level of performance of a student in acourse.
- xxxi. **'Credit point'** (CP) of a course is the value obtained by multiplying the gradepoint(GP)bytheCredit(Cr)ofthecourseCP=GPxCr.
- xxxii. 'SemesterGradepointaverage' (SGPA) is the value obtained by dividing the sum of credit points (CP) obtained by a student in the various courses taken in a semester by the total number of credits taken by him/her in that semester. The gradepoints shall be rounded off to two decimal places. SGPA determines the overall performance of a student at the end of a semester.
- xxxiii. **Cumulative Grade point average'** (CGPA) is the value obtained by dividing the sum of credit points in all the courses taken by the student for the entire programme by the total number of credits and shall be rounded off to two decimalplaces.
- xxxiv. '**GraceMarks**'meansmarksawardedtocourse/s,aspertheordersissued bythecollegefromtimetotime,inrecognitionofmeritoriousachievements in NCC/NSS/Sports/Arts and culturalactivities.

#### 1.4 ATTENDANCE

Being a regular college, physical presence in the regular activities, especially, classes and exams, is mandatory for the students. However, if a student secures 75% of attendance s/he is eligible to appear for the exams, provided there are no other impediments like disciplinary proceedings, malpractice record etc.

- i. Amaximumof5marks(5%)foracourseisgivenforattendance
- ii. **Absence:**Astudentfoundabsentforonehourintheforenoonorafternoon session is deprived of the attendance for the entire session as far as eligibility for final exam isconcerned.
- iii. The hour related calculation in a course is meant for awarding marks for the courseconcerned.
- iv. **Late entry**: A student is supposed to be in time in the class. Late arrival related treatment is left to the discretion of the individual teacher. However, as a norm, a late arriving student may be permitted to the class, if it is not inconvenient or distraction to the class as such; though attendance MAY NOT BE GIVEN. Late arrival beyond 5 minutes is treated as ABSENCE; though the teacher may consider permitting the student to sit in the class.
- v. **Leave**: A student has to formally report his/her absence with reasonseither in advance, or immediately after the absence for obtaining an approved leave. This applies to all sorts of leave –medical, on duty or other.
- vi. The student is supposed to report in prescribed format on the very next day of the absence; however, upto a week's time is permitted. Afterwards, the leave applications will not beconsidered.
- vii. The student has to retain a copy/section of the approved leave form and produce the same as proof, in case there is any confusion regarding the leave sanctioning. In the absence of such proof, the claims will not be entertained.

- viii. **Duty Leave**: A student representing the college in sports, arts, social service or academic matters, has to get sanction from the class teacher concernedandsubmittheleaveapplicationfromdulyendorsedbyteacher concerned & the class teacher, and submit it to the faculty Dean (or Vice Principal). The same will be forwarded by the Dean/Vice Principal for attendance entry. **SPORTS**: The approval of the Department of Physical Education and the class teacher is required. The time limit for submission mentionedaboveisapplicableinthecaseofdutyleaveaswell.
- ix. **CONDONATION**: a student may have the privilege of condonation of attendance shortage (upto a maximum of 10 days) on the basis of genuineness of the grounds of absence (medical reasons or college duty), duly recommended by the department. This is not a matter of right. It is a matter of privilege based on Principal's discretion and the good conduct of the student on the campus. A student of UG programme may have a maximum of two such opportunities and that of PG programmes only one opportunity.
- x. **RE-ADMISSION** a student whose attendance is inadequate will have to discontinue the studies. Such students, whose conduct is good, may be readmitted with the approval of governing council, on the basis of recommendation from the department, and assurance from the student and the guardian regarding good conduct and compliance in academic and discipline matters. For this the prescribed re-admission fee has to be paid. As a condition for re-admission, the student should have clearedall academic arrears, or should have appeared for the exams in which he/she is having an arrear (if the results are not out), and should have fulfilled all academic assignments prescribed by the department for compensating forhis lack of attendance.
- xi. **UNAUTHORISED ABSENCE & REMOVAL FROM ROLLS**: A student absent from the classes continuously for 10 consequent days without intimation or permission, shall be removed from the rolls, and the matter intimated to the student concerned. On the basis of recommendation of

the department concerned, re-admission process may be permitted by the Principal.

#### 1.5 PROGRAMMEREGISTRATION

- i. A student shall be permitted to register for the programme at the time of admission.
- ii. A UG student who registered for the programme shall complete the same within a period of 12 continuous semesters and a PG student within a period of 8 continuous semesters from the date of commencement of the programme.
- shall be promoted to the next semester. However, in extreme circumstances, a student having sufficient attendance who could not register for the end semester examination may be allowed to register notionally by the Principal with the recommendation of the Head of the department concerned and, by paying the prescribedfee.

#### 2 UNDER GRADUATE PROGRAMME STRUCTURE

#### Model IBA/B.Sc.

a	Programme Duration	6
		Semesters
b	Total Credits required for successful completion	120
	of the Programme	
c	Credits required from Common Course I	22
d	Credits required from Common Course II	16
e	Credits required from Core courseand	79
	Complementary courses including Project	
f	Open Course	3
g	Minimum attendance required	75%

#### Model I/II B.Com

a	Programme Duration	6
		Semesters
b	Total Credits required for successful completion	120
	of the Programme	
c	Credits required from Common Course I	14
d	Credits required from Common Course II	8
e	Credits required from Core and	95
	Complementary/ Vocational courses including	
	Project	
f	Open Course	3
g	Minimum attendance required	75%

#### Model II BA/B.Sc.

a	Programme Duration	6
		Semesters
b	Total Credits required for successful completion	120
	of the Programme	
c	Credits required from Common Course I	16
d	Credits required from Common Course II	8
e	Credits required from Core + Complementary +	93
	Vocational	
	Courses including Project	
f	Open Course	3
g	Minimum attendance required	75%

#### 3 EXAMINATIONS

All the End Semester Examinations of the college will be conducted by the Controller of Examination. The Principal will be the Chief Controller of Examinations. An Examination committee consists of the Chief Controller of Examinations, Controller of Examinations, Additional Chief Superintendent, Deans, IQAC Coordinator and other faculty members nominated by the Principal will act as an advisory body of the matters relating to the conduct of of examinations.

#### 4 EVALUATION ANDGRADING

The evaluation scheme for each course shall contain two parts;

- a. Continuous Internal Evaluation (CIA) and
- b. End Semester Examination(ESE).

The internal to external assessment ratio shall be 1:3, for both courses with orwithoutpractical. Forcourses withoutpractical, thereshall be amaximum of 75 marks for external evaluation and maximum of 25 marks for internal evaluation. For courses with practical, generally external evaluation shall be for a maximum of 60 marks and internal evaluation for 20 marks. Both internal and external evaluation shall be carried out in the mark system and themarks are to be rounded to the nearest integer.

#### 4.1 Continuous Internal Assessment (CIA)/ Continuous Assessment:

The internal evaluation shall be based on predetermined transparent system involving periodic written tests, assignments, seminars/viva/field survey and attendance in respect of theory courses and based on written tests, lab skill/records/viva and attendance in respect of practical courses. The marks assigned to various components for internal evaluation asfollows.

**Components of Internal Evaluation (for theory without practical)** 

	Components	Marks
i.	Assignments	5
Ii	Seminar/Quiz/Field	5
	survey /Viva etc.	
Iii	Attendance	5
Iv	Two Test papers(2x5)	10
	Total	25

i. **Assignments**: Every student shall submit one assignment as an internal component for everycourse.

Components	Marks
Punctuality	1
Content	2
Conclusion	1
Reference/Review	1
Total	5

ii. **Seminar**: The seminar lecture is expected to train the student in self-study, collection of relevant matter from the books and Internet

resources, editing, document writing, typing and presentation.

Components	Marks
Content	2
Presentation	2
Reference/Review	1
Total	5

#### iii. Evaluation of Attendance

2.10 The attendance of students for each course shall be another component of internal assessment.

% of attendance	Mark
Above 90%	5
Between 85 and below 90	4
Between 80 and below 85	3
Between 76 and below 80	2
Between 75 and below76	1

#### **Components of Internal Evaluation (for theory with practical)**

Components of Theory – Internal Evaluation	Marks
Attendance	5
Seminar/ Assignment(Written assignments, preparation of models, charts, posters etc., field survey, field work)	5
Test paper(s)	10
Total	20

#### **Components of Practical- Continuous internal assessment**

Components	Marks
Attendance and Lab involvement	2
Record	2
Viva/Model Exam	1
Total	5

- iv. **Class Tests:** Every student shall undergo **two class tests** as an internal component for everycourse.
- 4.2 EndSemesterExamination(ESE):TheEndSemesterExamination in theory courses shall be conducted by the college with question papers set by external experts/ question bank. The evaluation of the answer scripts shall be done by the examiners based on a well-defined scheme of evaluation given by the question paper setters/Prepared as per the direction of the Chairman, Board of Examiners. The evaluation of the End Semester Examinations shall be done immediately after the examination preferably through the centralized valuation.

#### 4.3 Project

Project work is a part of the syllabus of most of the programmes offered by the college. The guidelines for doing projects are as follows:

- i. Project work shall be completed by working outside the regular teachinghours.
- ii. Project work shall be carried out under the supervision of a teacher in the concerned department or an external supervisor.
- iii. A candidate may, however, in certain cases be permitted to work on the project in an industrial / Research Organization/ Institute on the recommendation of the Supervisor.
- iv. There should be an internal assessment and external assessment for the project work in the ratio1:3
- v. The external evaluation of the project work consists of valuation of the dissertation (project report) followed by presentation of the work and vivavoce.
- vi. The mark and credit with grade awarded for the program projectshould beenteredinthegradecardissuedbythecollege.

#### **Components of Internal Evaluation for Projects**

Components	Marks
Topic/Area selected	2
Experimentation/Data	5
collection	
Punctuality-Regularity	3
Compilation	5
Content	5
Presentation	5
Total	25

#### 4.4 ComprehensiveViva-voce

Comprehensive Viva-voce shall be conducted at the end of the programme, which covers questions from all courses in the programme as per the syllabus.

#### 4.5 Grade and GradePoints

For all courses (theory & practical), Letter grades and grade point are given on a 10-point scale based on the total percentage of marks, (CIA+ESE) as given below: -

Percentage of	Grade		Grade Point
Marks			(GP)
95 and above	О	Outstanding	10
85 to below 95	$A^+$	Excellent	9
75 to below 85	Α	VeryGood	8
65 to below 75	B+	Good	7
55 to below 65	В	AboveAverage	6
45 to below 55	C	Average	5
35 to below 45	D	Pass	4
Below 35	F	Fail	0
	Ab	Absent	0

Grades for the different semesters and overall programme are given based on the corresponding SGPA/CGPA as shown below:

SGPA/CGPA	Grade
Equal to 9.5 and above	O Outstanding
Equal to 8.5 and below	A+ Excellent
9.5	
Equal to 7.5 and below	A VeryGood
8.5	
Equal to 6.5 and below	B+ Good
7.5	
Equal to 5.5 and below	B AboveAverage
6.5	
Equal to 4.5 and below	C Average
5.5	
Equal to 3.5 and below	D Pass
4.5	
Below 3.5	F Failure

A separate minimum of 30% marks each for internal and external (for both theoryandpractical) and aggregate minimum of 35% are required for a pass for a UG programme. A candidate who has not secured minimum marks/credits in internal examinations can re-do the same registering along with the end semester examination for the same semester, subsequently. A student who fails to secure a minimum marks/grade for a pass in a course can be permitted to write the examination along with the next batch.

After the successful completion of a semester, Semester Grade Point Average(SGPA)ofastudentinthatsemesteriscalculatedusingtheformula given below. For the successful completion of semester, a student should pass all courses and score at least the minimum CGPA grade 'D'. However, a student is permitted to move to the next semester irrespective of her/his SGPA.

**Credit Point (CP)** of a course is calculated using the formula

 $\mathbf{CP} = \mathbf{Cr} \times \mathbf{GP}$ , where  $\mathbf{Cr} = \mathbf{Credit}$ ;  $\mathbf{GP} = \mathbf{Grade}$  point

**Semester Grade Point Average (SGPA)** of a Semester is calculated using the formula

**SGPA = TCP/TCr**, where

**TCP** = **Total Credit Point of that semester** =  $\sum^{n} CPi$ ;

**TCr** = **Total Credit of that semester** =  $\sum^{n}$  Cri

Where n is the number of courses in that semester

**Cumulative Grade Point Average (CGPA)** of a Programme is calculated using the formula

$$\mathbf{CGPA} = \frac{\sum (SGPA \times TCr)}{\sum TCr}$$

SGPA/CGPA shall be round off to two decimal places

To ensure transparency of the evaluation process, the internal assessment marks awarded to the students in each course in a semester shall be published on the notice board/website at least one week before the commencement of external examination. There shall not be any chance for improvement for internal mark.

The course teacher and the faculty advisor shall maintain the academic record of each student registered for the course which shall be forwarded to the controller of examinations through the Head of the Department and a copy should be kept in the department for at least two years for verification.

#### 5 Registration for the examination

- a. All students admitted in a programme with remittance of prescribed fee are eligible for the forthcoming semester examinations.
- b. Online application for registration to the various End Semester Examinations shall be forwarded to the CE along with prescribed fee for each course in prescribed format.
- c. The eligible candidates who secure the prescribed minimum attendance of the total duration of the course and possess other minimum qualification prescribed in the regulations for each course shall be issued the hall tickets. The hall ticket shall be downloaded by the students from the collegewebsite.
- d. Themodeoffeeremittanceshallbethroughtheprescribedbank.

#### 6 SupplementaryExaminations

Candidates who failed in an examination can write the supplementary examination conducted by the College along with regular examinations.

#### 7 Improvement of Examination

A candidate can improve his/her marks once by appearing again for the examination with the subsequent batch with the remittance of prescribed fee. In such cases the better of the two marks shall be taken as the marks awarded to him.

Internal assessment marks shall be carried over to the subsequent semester examination.

There shall not be any provision for improving internal assessment marks.

#### There will be no improvement examinations for PG programmes

#### 8 Promotion to the Next HigherSemester

A candidate shall be eligible for promotion from one semester to the next higher semester if,

- a. He / she secures a minimum 75 % attendance and registered for the End SemesterExaminationoftheprogrammeforwhichhe/sheisstudying.
- b. His / her progress of study and conduct are satisfactory during the semester completed, as per the assessments recorded by the course teachers and the Head of the Department concerned.

#### **9 Certificates**

- 1. Diploma and Degree certificates are issued by the Mahatma Gandhi University, Kottayam as per the act and statues of the University on the submission of the consolidated mark / score cards of the students by the College.
- 2.A consolidated mark / scored card shall be issued to the candidates after the publication of the results of the final semester examination taken by the candidate.
- 3.A Course Completion Certificate with classification shall be issued to studentstilltheprovisionalcertificateisissuedbytheuniversity.

#### 10 Award of Degree

The successful completion of all the courses with 'D' grade shall be the minimum requirement for the award of the degree. For M.Phil., minimum grade required is 'C'

#### 11. Monitoring

There shall be a Monitoring Committee constituted by the principal consisting of faculty advisors, HoD, a member from teaching learning evaluation committee (TLE) and the Deans to monitor the internal evaluations conducted by college. The Course teacher, Class teacher and the Deans should keep all the records of the internal evaluation, for at least a period of two years, forverification.

Every Programme conducted under Choice Based Credit System shall be monitored by the College Council under the guidance of IQAC Coordinator, Controller of Exams, academic deans and HoDs.

#### 12. Condonation of Shortage of Attendance

Candidate can seek condonation of shortage of attendance only once in a 2 year course and twice in other courses of longer duration. Following are the rules regarding attendance requirement:-

- 1. Every candidate is to secure 75% attendance of the total duration of the course.
- 2. A candidate having a shortage of 10% can apply for condonation of shortage in prescribed form on genuine grounds. Condonation of shortage of attendance if any should be obtained at least 7 days before the commencement of the concerned semester re-examination.
- 3. It shall be the discretion of the Principal to consider such applications and condone the shortage on the merit of each case in consultation with the concerned course teacher and HoD.
- 4. Unless the shortage of attendance is condoned, a candidate is not eligible to appear for the examination.

#### 13 Grievance RedressalMechanism

InordertoaddressthegrievanceofstudentsregardingContinuousinternal assessment (CIA) a three-level Grievance Redressal mechanism is envisaged. A student can approach the upper level only if grievance is not addressed at the lowerlevel.

**Level 1:** At the level of the concerned course teacher

**Level 2**: At the level of a department committee consisting of the Head of the Department, a coordinator of internal assessment for each programme nominated by the HoD and the course teacher concerned.

**Level 3**: A committee with the Principal as Chairman, Dean of the Faculty concerned, HOD of the department concerned and one member of the Academic council nominated by the principal every year as members.

# 13. PROGRAMME AND PROGRAMME SPECIFIC OUTCOMES.

#### 14.1 ProgrammeOutcome

The syllabus is framed in the Outcome Based Education (OBE) framework and the Programme Outcomes(POs ) are given in the table below;

PROGRAMME OUTCOMES(POs)
PO1- Critical Thinking and deep domain knowldge
PO2- Effective Communication
PO3- Contributes to nation building
PO4- Care for environment
PO <sub>5</sub> - Ethical values
PO6- Global Perspective

### 14.2. Programme SpecificOutcome

The Specific Program Outcomes (PSOs) are listed in following table;

At the end of the B A Economics programme, students are able to:

#### PROGRAMME SPECIFIC OUTCOMES (PSOs)

- **PSO1** Understand the functions and behavior of economic agents at Micro and Macro Economic levels.
- **PSO2** Understand the areas where market mechanism is supplemented, modified, corrected and supplanted by government.
- **PSO3** Understand the economic relationship between countries of the world.
- **PSO4-**Understand the interaction between economy and environment and the need to obtain balance between them.
- **PSO5-**Construct various types of indices and measurements such as index numbers, national income, central tendency, dispersion etc
- **PSO6-**Prepare questionnaires, conduct surveys, to tabulate data and present the data in graphs charts etc.

#### 15 B A ECONOMICS PROGRAMMESTRUCTURE

The B A Economics programmes shall include (a) Common courses I &II, (b) Core courses, (c) Complementary Courses, (d) Open Course (e) Study tour (e) Internship(desirable)

#### Additional credit components

- I. Talent & career club activity(optional)
- II. Social service(mandatory)
- III. Internship(desirable).

#### PROGRAMME STRUCTURE

A	Programme Duration	6 Semesters
В	Minimum credits required from common courses	38
С	Minimum credits required from Core + complementary + vocational* courses includingProject	79
D	Minimum credits required from Open course	03
	Total Credits required for successful completion of theprogramme	120
Е	Club activity (desirable)	01
F	Social service ( mandatory)	01
G	Internship (desirable)	02
Н	Minimum attendance required	75%

### **Detailed Distribution of Courses**

# Choice-based Credit and Semester System B.A. (Economics) Programme

	Title of the Course	Hours	G 11:	Weightage		
Semester	Title of the Course	per Week	Credit	Internal	External	
	English Common 1	5	4	1	3	
	English Common 2	4	3	1	3	
I	Additional Language I	4	4	1	3	
	Methodology and Historical Perspectives of Economics	6	4	1	3	
	Complementary I	6	4	1	3	
	English Common 3	5	4	1	3	
	English Common 4	4	3	1	3	
II	Additional Language 2	4	4	1	3	
	Principles of Microeconomics	6	5	1	3	
	Complementary II	6	4	1	3	
	English Common 5	5	4	1	3	
	Additional Language Common 3	5	4	1	3	
III	Microeconomic Analysis	4	4	1	3	
	Economics of Growth and Development	5	4	1	3	
	Complementary III	6	4	1	3	
	English Common 6	5	4	1	3	
	Additional Language Common 4	5	4	1	3	
IV	Principles of Macroeconomics	5	4	1	3	
	Public Economics	4	4	1	3	
	Complementary IV	6	4	1	3	

## REVISED SYLLABI OF UG PROGRAMME IN ECONOMICS w.e.f. 2019Admissions

	mid (d) C	Hours		Weightage		
Semester	Title of the Course	per Week	Credit	Internal	External	
	Quantitative Techniques for Economic Analysis	6	4	1	3	
	Macroeconomics Analysis	6	5	1	3	
V	Open Course*	4	3	1	3	
	Environmental Economics	5	4			
	Introductory Econometrics	4	4	1	3	
	Quantitative Methods for Economic Analysis	6	4	1	3	
	International Economics	5	4	1	3	
VI	Choice-based Course	4	3	1	3	
	Money and Financial System	5	4	1	3	
	Indian Economy	5	4	1	4	
	Project	-	2	1	3	
	TOTAL	150	120			

<sup>\*</sup>One course to be selected from the list of Open Courses.

### **B.A.** Economics Programme

Core, Complementary, Choice-based & Open Courses

G	Core, Complementary, Choic		Teaching		Weightage Credits		
Sem.	Core Papers	Exam	hours	Credits	Internal	External	
S1	Core 1 – Methodology and Historical Perspectives of Economics(19U1CRECO1)	S1	6	4	1	3	
	<b>Complementary 1:</b> Historical Currents of the Modern World	S1	6	5	1	3	
S2	Core 2 – Principles of Microeconomics (19U2CRECO2)  S2 6 4		1	3			
52	Complementary 2: The Concise History of Modern India		4	1	3		
	Core 3 – Microeconomics Analysis (19U3CRECO3)	S3	4	4	1	3	
<b>S</b> 3	Core 4 – Economics of Growth and Development (19U3CRECO4)	S3	5	4	1	3	
	<b>Complementary 3:</b> An Introduction to Concepts in Political Science	S <sub>3</sub>	6	4	1	3	
	Core 5 – Principles of Macroeconomics (19U4CRECO5)	S4	5	4	1	3	
<b>S</b> 4	Core 6 – PublicEconomics (19U4CRECO6)	S4	4	4	1	3	
	Complementary 4: Indian Polity - Governmental Machinery and Processes	S4	6	4	1	3	
	Core 7 – Quantitative Techniques for Economic Analysis (15U5CRECO7)	S5	6	4	1	3	
	Core 8 – Macroeconomics Analysis (19U5CRECO8)	S5	6	5	1	3	
S <sub>5</sub>	Open Course: Economics for Everyday Life (19U5OCECO1)	S5	4	3	1	3	
	Core 9–Environmental Economics (19U5CRECO9)	S5	5	4	1	3	
	Core 10 – Introductory Econometrics(19U5CRECO10)	S <sub>5</sub>	4	4			
	<b>Core 11</b> – Quantitative Methods for Economic Analysis (19U6CRECO11)	S6	6	4	1	3	
<b>S6</b>	Core 12 –International Economics (19U6CRECO12)	S6	5	4	1	3	
	Choice Based Elective Course –	S6	4	3	1	3	

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19U6ELECO1 – Modern Banking					
<b>19U6ELECO2</b> – Human Resource					
Management					
<b>19U6ELECO3</b> – Mathematical					
Economics					
19U6ELECO4 – Business Economics					
Core 13 – Money and Financial System(19U6CRECO13)	S6	5	4	1	3
Core 14 – Indian Economy (19U6CRECO14)	S6	5	4	1	3
Project (19U6PJECO1)	-	-	2	1	3
Total Credits			82		

# **Syllabi**

# For

# **Under Graduate Programme in**

# **Economics**

#### **SEMESTER 1**

Core Course No.	Course Code	Course Title	No. of Credits	No. of Contact hours
01	19U1CRECO	Methodology and Historical Perspectives	4	108
		of Economics		

#### **Course Outcome**

	Course Outcome	POs/PSO	CL	KC	Class
					Sessions
CO1	Understand the broad contours of Economics, its methodologies, tools and analysis procedures.	PSO1, PSO4	U	С	15
CO2	Knowledge of the basic concepts and terminology of Economics	PSO1, PSO4	U	С	15
CO3	Gains knowledge to apply the methods and theories of social sciences to contemporary issues	PSO1, PSO2	U	С	12
CO4	Compares the basic postulates of various schools of economic thought	PSO3, PSO4	A	F	20
CO5	Describe the roots of economic thought and practices in the modern economic world.	PSO1, PSO3	U	С	10
CO6	Understanding the theoretical background of various economic concepts and theories	PSO1, PSO4	U	С	14
CO7	Evaluatesthe economic thoughts of Kautilya, Naoroji, Gandhiji and Amartya Sen.	PSO1, PSO4	Е	F	12
CO8	Acquiring the basic knowledge of research methodology	PSO4	U	F	10
	TOTAL HOURS OF INSTRUCTION				108

Note: R-remember U-Understand, Ap- Applies An-Analyses, E-Evaluates, Cr- Creates

#### **MODULE I: Methodology of Social Science**

Social Science and its emergence - different disciplines of social science - Basic principles and concepts in Social Science (Positivism, empiricism, rationalism, institutionalism, behaviourism, utilitarianism, modernism and post modernism) - Need for interdisciplinary approach - Objectivity and subjectivity in Social Science - Limits to objectivity in socialscience. (25hrs)

#### **MODULE II: Methodology and Concepts of Economics**

Economics as a social science – Subject matter and scope of Economics, Pure and Applied, Positive and Normative Economics, Economic theory and Economic laws, Micro and Macro Economics, Role of assumptions in Economics, Method and Methodology - Deductive and inductive methodology, Economic Models. Various Concepts: Function, Variable, Equilibrium - Partial and General, Static, ComparativestaticandDynamic-NominalandRealValue.(30hrs)

#### **MODULE III: Major Schools of Economic Thought**

Mercantilism (Thomas Mun, William Petty) and Physiocracy (Francis Quesnay and Turgot), Basic postulates of Classical and Neo-Classical economic thought (Adam Smith, Ricardo, J.B. Say, Malthus, J.S. Mill, Jeremy Bentham, Alfred Marshall, A.C. Pigouand Walras). Socialist and Marxist Economic Thought-Karl Marx, Keynesianism-Keynesas acritique of classical Economics. Post -

Keynesian developments: Milton Friedman, Joseph Schumpeter and Paul Samuelson, Thomas Piketty (Concepts only). Indian Economic Thought: Kautilya–Dadabhai Naoroji – Mahatma Gandhi - Amartya Sen. (27hrs)

#### **MODULE IV: ResearchMethodology**

Meaning and objectives of research – Types of research – Important methods of data collection - primary and secondary. Undertaking a research study: Conceptualization of research issues, reviewing the literature, Hypothesis, analysis and presentation of data, writing a research report. (30hrs)

#### References

- 1. Baumol, William J and Alan Blinder (2010): Economics: principles and Policy, 13th edition, South Western Cengage Learning, New Delhi.
- 2. Blaug, M (1998): The Methodology of Economics, Cambridge Surveys of Economic Literature, NewYork.
- 3. Boland, Lawrence A. (2000): The Methodology of Economic Model

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- Building Methodology after Samuelson, Routledge, London and New York.
- 4. Dasgupta, Manas (2007): Research Methodology in Economics: Problems and Issues, Deep & Deep Publications, New Delhi.
- 5. EricRoll(1956):AHistoryofEconomicThought,3rdedition,Prentice Hall, NewJersey.
- 6. Guthrie, Gerard (2010): Basic Research Methods- an entry to social science research, Sage publications, NewDelhi.
- 7. Hajela, T N (2015): History of Economic Thought, 18th edition, Ane Books, NewDelhi.
- 8. Haney,LewisH(1920):HistoryofEconomicThought,McMilan,New York
- 9. Hunt, E.K and Mark Lautzenheiser (2011): History of Economic Thought: A Critical Perspective, 3rd ed, Prentice Hall of India, New Delhi. Kaufmann, Felix (1958): Methodology of the Social Sciences, The Humanities Press, NewYork.
- 10. Kothari, C. R. (2010): Research Methodology Methods and Techniques, Rev edition, New Age Techno PressNew Delhi
- 11. Krishna Swami, O P and M Ranganathan (1993): Methodology of Research in Social Sciences, Himalaya PublishingHouse, New Delhi.
- 12. Lipsey, Christopher, T S Ragan, Paul A Storer (2007): Micro Economics, 13 thed, Pearson.
- 13. Mankiw, Gregory (2013): Principles of Micro Economics, 6th edition, Cengage Learning India Private limited, Delhi.
- 14. Samuelson P and Nordhaus (2002): Economics 7th edition, Tata McGraw-Hill.
- 15. Wilkinson and Bhandarkar (1990): Methodology and Techniques of SocialResearch, Himalaya Publishing House, New Delhi.
- 16. Young, P.V (1984): Scientific Social Survey and Research, Prentice Hall, NewDelhi.

#### **SEMESTER-II**

Core Course No.	Course Code	Course Title	No. of Credits	No. of Contact hours
2	19U2CRECO2	Principles of Micro Economics	5	108

#### **CourseOutcome**

	COURSE OUTCOME	POs/PSOs	CL	KC	Class Cessions
CO1	Understands micro economic concepts	PO1, PSO1	U	С	8
CO <sub>2</sub>	Analyses pricing strategies in the market	PO3, PSO2	A	С	8
CO3	Develops understanding regarding various aspects of demand and supply	PO3, PSO1	U	M	10
CO <sub>4</sub>	Evaluates various factors aspects of elasticity	PO1, PSO2	U	P	6
CO <sub>5</sub>	Understands the theory of consumer behaviour	PO1, PSO1	U	С	12
CO6	Understands the behavior of economic agents	PO1, PSO1	U	С	12
CO <sub>7</sub>	Understands the theory of production	PO1, PSO1	U	С	16
CO8	Compares the Traditional & Modern theories of Cost	PO1, PSo1	A	С	18
TOT	TAL HOURS OF INSTRUCTION				90

Note: R-remember U-Understand, Ap- Applies An-Analyses, E-Evaluates, Cr- Creates

#### Module I -Introduction to Micro Economics

Definitions of economics- Micro-macro distinction- Nature and scope of micro economics, Central problems of economy – scarcity and choice -short run and long run, equilibrium and disequilibrium analysis – General and partialequilibrium - Micro economic policy: Goals - efficiency and equity - microeconomic models – assumptions and reality-maximization hypothesis -ceteris paribus assumption – market mechanism –need for governmental intervention – production possibilityfrontier.

(10 hrs)

#### **Module II -Demand and Supply Analysis**

Demand analysis: Law of Demand, Demand Determinants – individual andmarket

demand – Demand function measurement and application - changes and shifts in demand –Market demand and elasticity – Exceptions: normal, inferior, and Giffen goods - substitute & complementary goods. Types and degrees of price elasticity – Arc and point elasticity (geometric and arithmetic) Income elasticity of demand – crosselasticity.

Supply analysis: supply schedule and supply curve— changes and shifts in supply - elasticity of supply - measurement and application. Seller's view — Revenues — total, average and marginal revenue and price elasticity — market equilibriumandimpactofchangesindemandandsupply-dynamicdemandand supply model: Cobweb. Applications of demand & supply: price rationing, floor price. (25 hrs)

### Module III - Theory of Consumer Behaviour

Consumer preference and choice - utility - total and marginal utility - cardinaland ordinal utility. Analysis of consumer behaviour - law of diminishing marginal utility - law of equi-marginal utility - consumer equilibrium under cardinal utility.

Ordinal utility analysis – indifference curve analysis – properties – consumer's income and price constraints: budget line - (response to changes in price and income) under ordinal utility analysis. Application: water – diamond paradox and consumers surplus; Marshall and Hicks.

Income effect and Engel curve – price effect and demand curve – substitution effect – splitting (decomposition) price effect into income and substitution effects: Hicksian and Slutsky approaches – criticisms of ordinal utility approach.

Behaviourist approach - Revealed preference theorem of Samuelson – derivation of demand curve – distinction between weak and strongordering. New approaches to consumer theory – pragmatic approach & Linear ExpenditureSystem (concepts only)(28 hrs)

### **Module IV - Theory of Production**

Production – production function – total, marginal and average product – (geometric & arithmetical) – short run analysis of production function – returns to a factor - law of variable proportions – three stages. Production function withtwovariableinputs—Isoquants—properties—Isocostline-productiondecision – optimal input combination – producers equilibrium – expansion path – long runproductionfunction—returnstoscale-economiesanddiseconomiesofscale

internal and external economies - empirical production function: Cobb-Douglas
 production function - its properties.

# **Module V - Cost Analysis**

Theory of costs – traditional theory of costs –short run and long run –real cost money cost, explicit and implicit cost -sunk cost –accounting and economic conceptsofcost-fixedcost–variablecost–totalcost–averagecost–marginalcost –reasons for the U shape of the average cost curve –short run and long run cost curves -envelope curve –modern theory of cost –short run and long run curves-'L'shaped and 'saucer' shaped curves.

(20 Hrs)

### **Books for Reference**

- 1. A. Koutsoyiannis, (1979), Modern Micro Economics, PalgraveMcMillan
- Dominick Salvatore, Micro Economics Theory and Application 4 th ed.,
   Oxford University Press, NewDelhi.
- Robert S. Pindyck, et al., (recent edition) Micro Economics Pearson Education, Delhi.
- 4. G.S. Maddala and Ellen Miller (2004), Micro Economics Theory and Applications, Tata McGraw Hill, Delhi

### **SEMESTER-III**

Core	Course Code	Course Title	No. of	No.of
Course			Credits	Contact
No.				hours
3	19U3CRECO3	<b>Micro Economic</b>	4	<b>72</b>
		Analysis		

### **CourseOutcome:**

	COURSE OUTCOME	POs/PSOs	CL	KC	Class Cessions
CO <sub>1</sub>	Compares the perfectly and imperfectly competitive market forms and various forms of imperfect competition	PO1, PSO1	An	С	10
CO2	Understands the structure of firms and markets	PO1, PSO1, PSO2	U	С	12
CO <sub>3</sub>	Evaluates various types of markets and the strategies related to the same	PO1, PSO1, PSO2	Е	С	8
CO <sub>4</sub>	Understands the price and output determination in various markets	PO1, PSO1	U	С	10
CO <sub>5</sub>	Analyses the problems and strategies under oligopoly	PO1, Pso1	An	С	12
CO6	Understands factor pricing and distribution in the economy	PO1, PSO1	U	С	18
CO <sub>7</sub>	Analyses the welfare issues of the economy	PO1, PSO1	An	С	8
CO8	Develops an understanding of various aspects to be taken in social and economic decisions	PO1, PSO1	U	С	12
TO	TAL HOURS OF INSTRUCTION				90

Note: R-remember U-Understand, Ap- Applies An-Analyses, E-Evaluates, Cr- Creates

### **Module I -Firms & Market Structure**

Market –structure -Perfect and imperfect markets – perfect competition - characteristics –firm & industry –short run and long run equilibrium of a firm and industry –derivation of supply curve-shutdown point. Imperfect market – monopoly –features –short run and long run – discriminating monopoly –price discrimination –price and output determination under discriminatingmonopoly

 Measuring monopoly power – Lerner Index – social cost of monopoly - degrees andtypesofpricediscrimination–dumping–bilateralmonopoly–Monopsony

(18 hrs)

# Module II - Monopolistic Competition & Oligopoly

Monopolistic competition –non-price competition and selling costs -short run and long run (group) equilibrium. Ideal output and excess capacity –wastages of monopolistic competition.

Oligopoly—Nature of oligopoly —price stickiness -kinked demand curve -collusive oligopoly —cartels and price leadership —low cost firm —dominant and barometric —Duopoly —market with Asymmetric Information (concept only)

(18 Hrs)

# **Module III -Factor Pricing and Distribution**

Functional versus personal distribution -concepts of total physical product (TPP) APP –VMP –MRP –marginal productivity theory of distribution productexhaustion theory- factor price distribution under perfect competition and imperfect competition- Ricardian 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 & Keynesian- theories of profit- dynamictheory-riskbearingtheory-innovationtheoryofprofit.

(21 Hrs)

### **Module IV - Welfare Economics**

Edgeworth Box diagram –contract curve -Criteria of social welfare –growth of GNP as a criterion of welfare –Bentham criterion –cardinalist criterion -Pareto optimality criterion –Kaldor and Hicks compensation criterion –Arrow's impossibility theorem - Rawlsian concept of justice –Amartya Sen's concept of social welfare.

(15 Hrs)

#### **Books for Reference**

- 1. A. Koutsoyiannis, (1979), Modern Micro Economics, PalgraveMcMillan
- Dominick Salvatore, Micro Economics Theory and Application 4 th ed.,
   Oxford University Press, NewDelhi.
- 3. Robert S. Pindyck, et al., (recent edition) Micro Economics Pearson

REVISED SYLLABI OF UG PROGRAMME IN ECONOMICS w.e.f. 2019Admissions Education, Delhi.

4. G.S. Maddala and Ellen Miller (2004), Micro Economics - Theory and Applications, Tata McGraw Hill, Delhi

# **SEMESTER III**

Core Course No.	Course Code	Course Title	No. of Credits	No. of Contact hours
4	19U3CRECO4	<b>Economicsof</b>	4	90
		<b>Growth and</b>		
		Development		

# **Course Outcome:**

	Course Outcome	POs/PSO	CL	KC	Class Sessions	
CO1	Demonstrate familiarity with some central themes and issues of economic development	PSO1	R	С	15	
CO2	Evaluate the structural changes in the development pattern of less developed countries.	PSO1, PSO3	E	С	15	
CO3	Demonstrate the difference between economic growth and development and the major growth theories.	PSO1, PSO2	An	С	12	
CO4	Assess the potential effectiveness of various policies in combating economic development.	PSO1, PSO2	E	С	15	
CO5	Explores interactions between the environment and the economy and the physical constraints that limits the interaction.	PSO1, PSO4	An	С	12	
CO6	Develops knowledge of relevant economic theories in understanding and addressing environmental or natural resource issues.	PSO2, PSO4	U	С	15	
CO7	Becomes familiar with economic techniques to assess environmental problems and to analyse environmental policies.	PSO2, PSO4	U	С	10	
CO8	Understand the market failure for environment goods and its impact on the economy.	PSO1	U	С	14	
	TOTAL HOURS OF INSTRUCTION					

### Module I: Introduction to Economics of Growth and Development

Growth and Development – meaning – distinction – determinants and indicators- measurement of development – Income and non-income indices – GDP, PCI, PQLI, HDI, HPI, GEM – (GDI, GNH) – Development redefined– Development as a total social process – Development as freedom – Development as Liberation – Sen's capability approach – poverty as capability and Entitlement failure –multidimensional poverty index – Quality of life – Education – Health and Nutrition –poverty – absolute and relative – inequality of income andwealth – Gini coefficient – Lorenz curve Kuznet's inverted 'U'- Hypothesis – Development gap(22hrs)

# **Module II: Approaches to Development**

Approaches to Economic Development: Structuralist – dependency - market-friendly

approaches (concepts only) – vicious circle of poverty – Stage theory of Rostow – low level equilibrium trap – Critical minimum effort thesis – Big push – Lewis model – balanced vs unbalanced growth strategy – Dualistic theories. (23hrs)

# ModuleIII:TheoriesandFactorsintheDevelopmentProcess

Classical – Marxian – Schumpeterian. Economic Development –role of agriculture –capital – technology – choice of technique - Trade and economic development – processofcumulativecausation.(20hrs)

# **Module IV: Human Resource and Development**

Human Resource and Development – man power planning – conceptof intellectual capital and its size – role of education and health in economic development – Education and health as joint investment for development – Gender and development – women in the labour force – optimum theory of population – theory of demographic transition – ageing and younging issues(25 hrs)

### **Books/Journals for Reference**

- 1. Thirlwall, Growth and Development with Special Reference to Developing Countries. Palgrave McMillian, NewDelhi.
- 2. Benjamin Higgins (1968), Economic Development, Universal Book Stall, NewDelhi.
- 3. Meier G.M. (2007) Leading Issues in Economic Development, Oxford University Press, NewDelhi.
- 4. Todaro and Smith, Economic Development, Pearson Education, New Delhi.
- 5. Debraj Ray, Development Economics. Oxford University Press, NewDelhi.
- 6. Felix Raj and et. al, Contemporary Development Economics, New Central Book Agency (p)Ltd.

# **SEMESTER - IV**

Core Course No.	Course Code	Course Title	No. of Credits	No. of Contact hours
5	19U4CRECO5	Principles of Macroeconomics	4	90

### **Course Outcome**

		POs/PSOs	CL	KC	CLASS
	COURSE OUTCOME				SESSIONS
	Compare and contrast micro and macro economics and				
	understand the basics, the importance and applications of				
CO1	macro economics	PO1/PSO1	An	С	8
	Understand the different economic variables and the				
CO2	forces that determining economic variables	PO1/PSO1	U	С	7
	Understands national income concepts, different methods				
	of calculating it, merits and demerits of each method and				
	they should be able describe the method of calculation of				
CO3	national income in India and calculates NI, PI, DI etc	PO1/PSO5	U	С	9
	demonstrate the circular flow model and understand the				
	importance of each sectors of the economy in the income				
CO4	and output generation	PO2/PSO1	Ар	С	7
	Understand the contributions made by the classical				
CO5	economists in macro economics and its relevance	PO1/PSO1	U	С	18
	Compares the principles of Keynesian economics with				
CO6	classical theory	PO1/PSO1	An	С	16
	Demonstrate the Keynesian model of income				
CO7	determination	PO2/PSO1	Ар	С	15
	understand the concept of IS LM model of income				
CO8	determination	PO1/PSO1	U	С	10
	TOTAL HOURS OF INSTRUCTION				90

Note: R-remember U-Understand, Ap- Applies An-Analyses, E-Evaluates, Cr- Creates

### Module- I: Introduction-

Main issues in Macro Economics, Micro and Macro Economics – Statics, comparative statics and dynamics – Circular flow of economic activity in a two sector model – Variables – stock – flow – endogenous and exogenous – Macroeconomic models – Identities and equations. National Income – Concepts, Methods of measurement: Value added, income and expenditure methods – Social

REVISED SYLLABI OF UG PROGRAMME IN ECONOMICS w.e.f. 2019Admissions accounting method – Limitations of national income accounting, Real and Nominal GNP -actual GNP and Potential GNP - Environmental concerns innational income accounts - Net Economic Welfare - Green GNP.(20 hrs)

### **Module-II: Classical MacroEconomics:**

Main postulates - Say's Law of Markets - Classical theory of Employment and output determination - Wage-price flexibility and full employment equilibrium - Classical theory of interest - Quantity Theory of money (Fisher's version) - Cash transactions and cash balance approach - Pigou effect - Neutrality of money - ClassicalDichotomy.Keynes'criticismofClassicalTheory.(20hrs)

### Module III: KeynesianMacroeconomics:

The background of Keynesian macroeconomics –Principle of effective demand - Consumption function, Psychological law of consumption – Factors determining consumption - Savings function – Graphical, algebraic and numerical illustrationandestimationofAPC,MPC,APSandMPS.Theinvestmentfunction

- Determinants of investment - MEC- MEI and the roleofexpectations. (25 hrs)

### **Module IV: Keynesian Model of Income Determination:**

Two sector Keynesian cross model of income determination - Algebraic derivation - Under employment equilibrium - The effects of changes in autonomous investment on income multiplier analysis - static and dynamic multiplier - three sector Keynesian Cross model - The effects of changes in taxes and public expenditure on income-Balanced budget multiplier - Four sector Keynesian Crossmodel-foreigntrademultiplier(conceptonly). Two sector IS-LM model of income determination(model only). (25 hrs)

### **Readings**

- 1. N.GregoryMankiw(recentedition),MacroEconomics,WorthPublications, NewYork
- 2. Richard T. Froyen (recent edition), Macro Economics Theories and Policies, PearsonEducation.
- 3. Lipsey R.G and K.A Christal (1999) "Principles of Economics" 9<sup>th</sup> Ed. Oxford UniversityPress.
- 4. Branson, W.A(1989), "Macroeconomics: Theoryand Policy", 3<sup>rd</sup> Ed. Harper

# REVISED SYLLABI OF UG PROGRAMME IN ECONOMICS w.e.f. 2019Admissions and Harper and Row, NewYork

- 5. Eugene Diulio (2004), Macro Economics Schaum's Outline Series, Tata McGraw Hill, NewDelhi.
- 6. Shapiro, Edward (1982), Macro Economic Analysis, Galgotia Publications (reprintedition)
- 7. Sampat Mukerjee (2008), Analytical Macro Economics: From Keynes to Mankiw, New Central Book Agency, Calcutta.
- 8. Andrew B. Abel (2011), Macro Economics, Pearson, Delhi.

# **SEMESTER IV**

Core Course No.	Course Code	Course Title	No. of Credits	No. of Contact hours
6	19U4CRECO6	Public Economics	4	72

# **Course Outcome:**

	COURSE OUTCOME	POs/PSOs	CL	KC	Class Sessions
CO1	Identifies areas of market failures and need for government intervention	PO1,PSO1	An	С	6
CO <sub>2</sub>	Understands the fiscal functions of the government and goals of government	PO3, PSO2	U	С	10
CO <sub>3</sub>	Critically evaluates different types of taxes and their effects and incidence.	PO3, PSO1	E	M	7
CO <sub>3</sub>	Understands the budgetary process techniques and importance of budget	PO1, PSO2	U	P	8
CO <sub>4</sub>	Examines the principles and effects of public expenditure	PO1, PSO1	An	С	8
CO <sub>5</sub>	Analyses the types, burden and effects of public debt and methods of debt redemption	PO5, PSO1	An	С	9
CO6	Critically evaluates the problems a of federal system of government and identifies solutions	PO5, PSO1	E	С	8
CO <sub>7</sub>	Evaluates the role of Panchayati Raj institutions	PO3, PSO1	E	С	7
CO 8	Examines the working of union and state finance commissions	PO1, PSO1	A	С	9
TO	OTAL HOURS OF INSTRUCTION				72

### Module I - INTRODUCTION TO PUBLIC ECONOMICS

Nature and scope of Public Economics – comparison of public and private finance –role of state in economic activities(allocation, distribution &stabilization functions) public goods vs private goods -conditions of efficiency – freed rider problem-Meritgoods-principleofmaximumsocialadvantage.(18Hrs)

### **Module II - PUBLIC REVENUE**

Public Revenue – Tax and Non-tax revenue – Taxes – canons of taxation – types of taxes – Income tax in India – Goods and Service tax and its impact-principlesof taxation – benefit principle and ability to pay theory – impact and incidence of taxation – Effects of taxation –concept of taxable capacity – the Laffer curve – Budget and its role concepts of revenue account, capitalaccount, gender budgeting, fiscal deficit, revenue deficit, primary deficit – zero base budgeting androtatingzerobasebudgeting-budgetaryprocedure(18Hrs)

### Module III - PUBLIC EXPENDITURE AND PUBLIC DEBT

Meaning – Canons of public expenditure – effects – theories of expendituregrowth-Wagner's hypothesis Peacock- Wiseman hypothesis- development and non-development expenditure public debt – types – debt redemption – burden of publicdebt–publicdebtinIndia.(18Hrs)

### **MODULE IV - FISCAL FEDERALISM**

Meaning and Importance – vertical and horizontal equity in fiscal federalism – fiscal federalism in India – role of Finance commission – report of latest finance commission-grants in aid- State Finance Commission and Panchayati Raj institutions(18Hrs)

### **Books/Journals for Reference**

- 1. HarveyRosen,(2008)PublicFinance,McGrawHill,NewYork.
- 2. BernardP.Herber, ModernPublicFinance(RichardIrvinInc)
- 3. H.L. Bhatia., Public Finance, Vikas Publishing House Pvt Ltd., New Delhi (recentedition)
- 4. B.P.Tyagi., PublicFinance, JaiPrakashNath&Co., Meerut (recentedition)
- 5. Musgrave and Musgrave (1984), Public Finance in Theory and Practice, McGraw Hill, NewDelhi

# **SEMEMSTER - V**

Core Course No.	Course Code	Course Title	No. of Credits	No. of Contact hours
7	19U5CRECO7	Quantitative Techniques for EconomicAnalysis	4	108

### **Course outcome:**

	Course Outcome	POs/PSOs	CL	KC	Class Sessions
CO1	Helps understand the role of statistics in economic analysis	PO1/PSO1	U	С	8
CO <sub>2</sub>	Students will be able to identify, explain, and use economic concepts, theories, models, and data-analytic techniques.	PO1/PSO5	Ap	С	20
CO <sub>3</sub>	Students will acquire the knowledge of economics, mathematics, statistics, and computing flexibly in a variety of contexts thereby providing the foundation for success in their studies and careers.	PO1/PSO5	Ap	С	15
CO4	Students will develop the skills to measure and analyze statistical data in order to draw conclusions about various economic problems.	PO1/PSO5	Ap	С	25
CO <sub>5</sub>	Students will develop the necessary skills for preparing questionnaires, collection and classification of data and presentation in charts and graphs.	PO1/PSO6	Ap	С	25
CO6	Students will acquire the skills to deliver effective presentations in which they combine visual communication design with oral arguments and/or the written word.	PO1/PSO6	Ap	С	15
TOTAI	L HOURS OF INSTRUCTION				108

Note: R-remember U-Understand, Ap- Applies An-Analyses, E-Evaluates, Cr- Creates

### **Module I:**

Role of Statistics in Economics – Functions performed –limitations. Statistical data: Primary and Secondary – their sources: Censusand sampling techniques –Sample designs – preparation of questionnaires and schedules – classification and Tabulation of statistical data – Presentation of data with the help of graphs and diagrams (Histogram, Polygon, frequency curve, Bardiagram, Piediagram, Ogives) (30 Hrs)

### **Module II**

Central Tendency and Dispersion - Various central tendency measures

- Arithmetic mean properties merits and demerits. Median –definition
- merits and demerits -graphic Method Mode merits and demerits methods of calculation: significance of dispersion, methods, absolute and relative measures Range, quartile deviation, mean deviation, standard deviation Lorenz curve and its economic applications. (30Hrs.)

### **Module III**

Correlation and regression analysis: their significance in Economics – Correlation and regression compared – typesof correlation – measurement, scatter diagram, Karl Pearson's correlation coefficient (for raw data only). Rank correlation –Regression- meaning and significance-regression equations/regression lines-the line of best fit – prediction based on regression equations. Relation between correlation and regression. (25Hrs.)

#### **Module IV:**

Time series analysis: uses, components, measurement of trend free hand method, semi average method, Moving average method, Method of leastsquares. (13hrs)

### **Module V**

Skewness, Kurtosis, Moments: Types of Skewness—measurement - Kurtosis - Definition and types (graphic presentation) Moments: centraland raw

# Reference

- Sharma J.K. Business statistics. Pearson Education. Noida, India Richard Levin et.al. Statistics for management. Pearson Education. India.
- 2. Srivastava U.K et.al. Quantitative techniques for managerial decisions. New Delhi: New Age International Publishers.India.
- 3. Chiang A.C. (2005), Fundamental Methods of Mathematical Economics, McGraw Hill. Gupta S.P., Statistical Methods, Sultan Chand & Sons, New Delhi.Allen R.G.D., Mathematical Analysis for Economists, palgrave macmillan.
- 4. Monga G.S., Mathematics and Statistics for Economists, Vikas Publishing House, NewDelhi.
- Thomas P.M., Quantitative Economics, Chinnu Publications, Kottayam.
- 6. Barauh.S, Basic Mathematics and Its Application in Economics, Macmillan,2002.
- 7. TaroYamane,MathematicsforEconomists:AnElementarySurvey, Prentice Hall ofIndia

# **SEMESTER-V**

Core Course No.	Course Code	Course Title	No. of Credits	No. of Contact hours
8	19U5CRECO8	Macroeconomic Analysis	5	108

### **Course Outcome**

	Uutcome	1			
		POs/PSOs	CL	KC	Class
	COURSE OUTCOME				Sessions
	Understand the consumption function				
CO1	and illustrates it numerically	PO1/ PSO1	U		7
	understand the relevance of different				
CO2	consumption theories	PO1/PSO1	U		6
	Critically examinesthe concept of				
	investment ,its determinants ,investment				
CO3	theories and its relative importance	PO1/PSO1	An		8
	Compares the determination of general				
	price level in an economy according to				
	Classical and Keynesian economics				
CO4		PO1/PSO1	An		6
	understand the concept of inflation , its				
	types and different theories				
CO5		PO1/PSO1	U		20
	Evaluate the inflation levels of various				
	countries and its impact on the				
	respective economies				
CO6		PO1/PSO3	Е		8
	Analyze fiscal and monetary policy				
	decisions to counter business cycle swings				
	by using macro-economic models				
CO7		PO2/PSO1	Α		15
	Understand the contributions made by				
CO8	post Keynesian economists	PO2/PSO1	U		20
	TOTAL HOURS OF INSTRUCTION				90

Note: R-remember U-Understand, Ap- Applies An-Analyses, E-Evaluates, Cr- Creates

# **Module I- Theories of Consumption and Investment**

Consumption Function- Kuznets's consumption puzzle - Conflict between shortrun and long run consumption functions - relative income hypothesis - permanent income hypothesis - life-cycle hypothesis. Theory ofcapital and

theoryofinvestment-PresentValueCriterion-AcceleratortheoryofInvestment - Tobin's q theory (25 Hrs)

### Module II- Money, Inflation and Unemployment

Money - classical approach — Keynesian liquidity preference theory and interest rate determination - liquidity trap - Keynes effect - supply of money - sources - high-powered money - money multiplier - measures of money supply in India. Inflation: types — Demand-pull and cost-push inflation — inflationary and deflationary gap-causes and effects of inflation — stagflation - control of inflation — Meaning and types of unemployment — Okun's law — inflation and unemployment - the Phillips curve — long run Phillips curve — Natural rate of unemployment (38Hrs)

# Module III- Trade Cycles, Monetary and Fiscal Policies

Trade cycles - Types and phases - Theories of trade cycles: Hawtrey, Hayek, Keynes - Stabilization policies - Active or passive. Monetary and fiscal policy: objectives and instruments (concepts only) - Monetary and fiscal policy in the IS-LM context (closed economy only) - Financial Crises & Regulatory response.(20Hrs)

# **Module IV- Post Keynesian Schools of Macroeconomic Thoughts**

Monetarism- Monetarist propositions and the Quantity Theory Restatement - New Classical Economics - Rational Expectations (concept)- Lucas' critique(Policy ineffectiveness proposition) Supply Side Economics - Tax cut policy and the Laffer Curve Analysis New Keynesian School – Nominal Wage Rigidity model (Overview)(25Hrs)

# **Readings**

- B Snowdon & Howard Vane. A Modern Guide to Macro Economics.
   EdwardElgar
- 2. R T Froyen . (Recent Edition)Macroeconomics Theories and Policies.

  PearsonEducation
- 3. N Gregory Mankiw. Macroeconomics. New York; WorthPublications
- 4. R Dornbusch, S Fisher. Macroeconomics. Tata McGrawHill
- 5. Arthur O' Sullivan et al. (2015). Macroeconomics principles, applications and Tools. New Delhi: Pearson Education SouthAsia.

- 6. Macro Economics Simplified "An introduction to keynesian and Classical macroeconomic systems" by Nicoli Natrass and G.Visakh Verma, Published by Sage, NewDelhi.2014
- 7. C Ram Manohar Reddy (2017) De monetisation and Black Money, Orient BlackSwann.
- 8. G Omkarnath (2012) Economics A primerfor India, Orient Black Swann.

# **SEMESTER - V**

Core Course No.	Course Code	Course Title	No. of Credits	No. of Contact hours
9	19U5CRECO9	Environmental	4	90
		<b>Economics</b>		

	COURSE OUTCOME	POs/PSOs	CL	KC	Class Sessions
CO1	Understands the discipline of Environmental Studies, its inter disciplinary nature and scope.	PO4, PSO4	U	С	8
CO <sub>2</sub>	analysesthe resource base of the world- Types, nature, limited availability and need for sustainable use	PO4, PSO1, PSO4	An	С	12
CO <sub>3</sub>	Analyses the structure, functions characteristics and threats to various eco systems	PO4, PO6, PSO4,	An	С	10
CO <sub>4</sub>	Critically evaluates the importance, and threats to biodiversity, and gets convinced of the need for conservation of nature and biodiversity.	PO4, PSO4	E	M	10
CO <sub>5</sub>	Develops knowledge about various Social issues and possible initiatives related to environment, environmental ethics and legislation	PO4, PO5 PSO4	U	С	15
CO6	Examines the Environment- economy linkage, need for sustainability and global efforts to bring balance between Economy and environment	PO4&PO6 PSO2, PSO4	An	M	10
CO <sub>7</sub>	Understands the problem of human rights in India	PO3, PSO2	U	С	12
CO 8	Understands Relationship between environment and human rights.	Po <sub>3</sub> , PSO <sub>4</sub>	U	С	13
Total F	Jours of Instruction				90

Note: R-remember U-Understand, Ap- Applies An-Analyses, E-Evaluates, Cr- Creates, M-Meta Cognitive

# Module I Unit 1: Multidisciplinary nature of environmental studies

Definition, scopeandimportance

(2 hrs)

Need for publicawareness.

### **Unit 2: Natural Resources:**

Renewable and non-renewable resources: Natural resources and associated problems.

- a) Forest resources: Use and over-exploitation, deforestation, case studies. Timber extraction, mining, dams and their effects on forest and tribalpeople.
- b) Water resources: Use and over-utilization of surface and ground water, floods, drought, conflicts over water, dams-benefits and problems.
- c) Mineral resources: Use and exploitation, environmental effects of extracting and using mineral resources, case studies.
- d) Food resources: World food problems, changes caused by agriculture and overgrazing, effects of modern agriculture, fertilizer-pesticide problems, water logging, salinity, casestudies.
- e) Energy resources: Growing energy needs, renewable and non-renewable energy sources, use of alternate energy sources, Case studies.
- f) Land resources: Land as a resource, land degradation, man induced landslides, soil erosion and desertification
- · Role of individual in conservation of natural resources.
- · Equitable use of resources for sustainable lifestyles. (10hrs)

### **Unit 3: Ecosystems**

- · Concept of anecosystem
- · Structure and function of an ecosystem

- · Producers, consumers and decomposers
- · Energy flow in theecosystem
- · Ecological succession
- · Food chains, food webs and ecological pyramids.
- Introduction, types, characteristic features, structure and function of the givenecosystem:
  - a. Forestecosystem

(6hrs)

# Module -II Unit 1: Biodiversity and its conservation

- · Introduction
- · Bio-geographical classification ofIndia
- · Value of biodiversity: consumptive use, productive use, social, ethical, aesthetic and optionvalues.
- · India as a mega-diversity nation
- · Hot-sports ofbiodiversity
- Threats to biodiversity: habitat loss, poaching of wildlife, man-wildlife conflicts
- · Endangered and endemic species ofIndia

(8hrs)

# **Unit 2: Environmental Pollution**

**Definition** 

Causes, effects and control measures of: -

- a. Airpollution
- b. Waterpollution
- c. Soilpollution
- d. Marinepollution
- e. Noisepollution
- f. Thermalpollution
- g. Nuclearhazards
- · Solid waste Management: Causes, effects and control

measures of urban and industrial wastes.

- · Role of an individual in prevention of pollution
- · Pollution casestudies
- Disaster management: floods, earthquake, cyclone and landslides.

(8 hrs.)

### **Unit 3: Social Issues and the Environment**

- · Urban problems related toenergy
- · Water conservation, rain water harvesting, watershedmanagement
- Resettlement and rehabilitation of people: its problems and concerns, Casestudies
- · Environmental ethics: Issues and possible solutions
- Climate change, global warming, acid rain, ozone layer depletion, nuclear accidents and holocaust, Case studies
- · Consumerism and wasteproducts
- · Environment ProtectionAct
- · Air(PreventionandControlofPollution)Act
- · Water(PreventionandcontrolofPollution)Act
- · Wildlife ProtectionAct
- Forest ConservationAct
- · Issues involved in enforcement of environmentallegislation
- · Publicawareness (10hrs.)

### Module - III Unit I: Economics and Environment

Environmental Economics – Definition – Scope – Meaning – importance – Environment-Economy interaction (linkages) – material balance model – ecosystem – structure and functions – relation between environment and development – Environment as a necessity and luxury-environmentalissues and global concern-Stockholm Conference – HelsinkiConvention

Montreal Protocol – Kyoto Protocol – Rio Summit – Paris Convention. Population growth and Environment – market failure – tragedy ofcommons-sustainable

development-policy approach to sustainable development (An overview only). (16hrs)

## Module IV Unit 1: Framework and Criteria for Environmental Analysis

Evaluation of environmental benefits – Contingent Valuation Method – Hedonic approach—travel cost method—preventive expenditure method
- surrogate market approach – property value approach and wage differential approach – cost benefit analysis – UNIDO analysis – Little-Mirrlees approach – Environmental Impact Analysis. Pollution control – socially optimum level of pollution – environmental policies and legislations in India. (18hrs)

**Module – V Unit 1- Human Rights** – An Introduction to Human Rights, Meaning, concept and development, Three Generations of Human Rights (Civil and Political Rights; Economic, Social and Cultural Rights).

Unit-2Human Rights and United Nations—contributions, main human rights related organs - UNESCO, UNICEF, WHO, ILO, Declarations for women and children, Universal Declaration of Human Rights.

**Human Rights in India** – Fundamental rights and Indian Constitution, Rights for children and women, Scheduled Castes, Scheduled Tribes, Other Backward Castes and Minorities

Unit-3 Human Rights and environmental rights - Right to Clean Environment and Public Safety: Issues of Industrial Pollution, Prevention, Rehabilitation and Safety Aspect of New Technologies such as Chemical and Nuclear Technologies, Issues of Waste Disposal, Protection of Environment

Conservation of natural resources and human rights: Reports, Case studies and policy formulation. Conservation issues of western Ghats-mention Gadgil committee report,

report. Over exploitation of ground water resources, marine Fisheries, sandminingetc. (12Hrs)

### Reference

- 1. Agarwal, K.C 2001 Environmental Biology, Nidi Publ. Ltd, Bikaner.
- BharuchaErach, Text Book of Environmental Studies for undergraduate Courses. University Press, IInd Edition 2013 (TB)
- 2. Brunner.R.C., 1989, Hazardous Waste Incineration, McGraw Hill Inc.480p
- 3. Clark.R.S., Marine Pollution, Clanderson Press Oxford(TB)
- 4. Cunningham, W.P.Cooper, T.H.Gorhani, E & Hepworth, M.T.2001. Environmental Encyclopedia, Jaico Publ. House. Mumbai. 1196p
- 5. Dc A.K.Enviornmental Chemistry, Wiley EasternLtd.
- 6. Down to Earth, Centre for Science and Environment(R)
- 7. Gleick, 11.P.1993 Water in crisis, Pacific Institute for Studies in Dev. Environment & Security. Stockholm Environment Institute Oxford University Press473p
- 8. Hawkins R.E, Encyclopedia of Indian Natural History, Bombay Natural History Society, Bombay(R)
- 9. Heywood, V.H & Watson, R.T. 1995. Global Biodiversity Assessment, Cambridge University Press1140p
- 10. Jadhav.H&Bhosale.V.M. 1995. Environmental Protection and Laws. Himalaya Pub. House, Delhi284p
- 11.Mekinney, M.L &Schock.R.M. 1996 Environmental Science Systems & Solutions. Web enhanced edition639p
- 12. Mhaskar A.K., Matier Hazardous, Techno-Science Publications(TB)
- 13. MillerT.G.Jr., Environmental Science, Wadsworth Publishing

- Co. (TB)
- 14. Odum.E.P 1971. Fundamentals of Ecology. W.B. Saunders Co. USA574p
- 15. Rao.M.N&Datta.A.K. 1987 Waste Water treatment Oxford & IBII PublicationCo.Pvt.Ltd.345p
- 16. Sharma B.K., 2001. Environmental Chemistry. Geol Publ. House, Meerut
- 17. Survey of the Environment, The Hindu(M)
- 18. Townsend C., Harper J, and Michael Begon, Essentials of Ecology, Blackwell Science (TB)XI
- 19. Trivedi R.K., Handbook of Environmental Laws, Rules Guidelines, Compliances and Standards, Vol I and II, EnviroMedia(R)
- **20.** Trivedi R. K. and P.K. Goel, Introduction to air pollution, Techno-Science Publication(TB)
- 21. Wanger K.D., 1998 Environmental Management. W.B. Saunders Co. Philadelphia, USA499p
- 22. (M) Magazine (R) Reference (TB)Textbook
- 23. Rabindra N Bhattacharya. (2007). Environmental Economics an Indian Perspective. Oxford UniversityPress.
- 24. Charls D. Kolstad.(2007). Environmental Economics. New Delhi:OUP.
- 25. RamaprasadSenguptha.(2009).EcologyandEconomics.New Delhi:OUP.
- 26. Janet Thomas.(2009). Environmental Economics. NewDelhi: CenageLearning.
- 27. S.P. Mirsa, S.N. Pandey (2008). Essential Environmental Studies. New Delhi: AneBooks.
- 28. Katar Singh and Shishodia. (2007) Environmental Economics- Theory and application. New Delhi: Sagepublication.
- 29. Tom Tietenberg. (2004). Environmental and Natural Resource Economics. PearsonEducation.

- 30. Karpagam.M.(2008).EnvironmentalEconomics.NewDelhi: SterlingPublishers.
- 31. R.K. Lekhi et al. (2008). Developmental and Environmental Economics. Ludhiana: Kalyanipublishers.
- 32. UlaganathanSankar. (2009) Environmental Economics. New Delhi:OUP.
- 33. N. Das Gupha (1997). Environmental Accounting. Wheeler and Co NewDelhi.
- 34. Thomas and Callan (2007). Environmental Economics. ThomasSouth-Western.
- 35. Paul Ackin .(2000) Economic Growth and Environmental sustainability, Routledge, London.
- 36. Nick Hanley. (2009) Environmental Economics in Theory and Practice. Palgrave Macmillian, NewYork.
- 37. Fisher A.C. (1981). Resource and Environmental Economics. Cambridge University Press, Cambridge.
- 38. Baumol. (1988). Theory of Environmental Policy (second edition). Cambridge University Press, Cambridge
- 39. PrasannaChandra:Projects-Planning,Analysis,Financing,Implementation&Review.(5<sup>th</sup>ed ition)TataMcGrawHill.
- 40. PR Trivedi.(2014)Environmental Impact Assessment.APH PublishingCorporation.
- 41. ErachBaraucha (2014) Test book of Environmental studies, Orient BlackSwann.

# **SEMESTER-5**

Core CourseNo	Course Code	Course Title	No. of Credit	No. of Teaching Hours
10	19U5CRECO10	Introductory Econometrics	4	90

#### **Course Outcomes**

	Course Outcome	POs/PSO	CL	KC	Class
		S			Sessions
CO1	Understands the meaning	PO1/PSO	U	C	15
	and methodology of	1			
	econometrics				
CO <sub>2</sub>	Understands the	PO1/PSO	U	C	10
	importance of random	1			
	variable in economic data				
	analysis				
CO <sub>3</sub>	Understands the concept of	PO1/PSO	U	С	13
	Ordinary Least Square	1			
	estimators and its various				
	assumptions				
CO <sub>4</sub>	Understands the	PO1/PSO	U	С	17
	consequences of relaxing	1			
	the assumptions of OLS				
	estimation				
CO <sub>5</sub>	Develops the skills to build	PO1/PSO	Ap	С	25
	predictive models that help	1			
	in decision making				
CO6	Understands the various	PO1/PSO	Ap	С	10
	econometric tools that	1			
	enable to make valid				
	inferences.				
TOTAL HOU	RS OF INSTRUCTION				90

Note: R-remember U-Understand, Ap- Applies An-Analyses, E-Evaluates, Cr- Creates

### **Module I: Introduction to Econometrics**

Definition and Scope of Econometrics, Methodology of Econometrics, Basic Concepts of estimation, Point estimation and interval estimation- properties of estimators- unbiasedness, efficiency, consistency and sufficiency. (20 Hours)

# **Module II: Simple Linear Regression Model**

Classical Liner Regression Model—Meaning and methodology—Population regression function (PRF)—The concept of linearity in econometrics—stochastic

REVISED SYLLABI OF UG PROGRAMME IN ECONOMICS w.e.f. 2019Admissions interpretation and its significance—Sample regression function(SRF), Estimation of an equation – OLS method, assumptions, Gauss –Markov theorem, Goodness of Fit. R<sup>2</sup>, interpreting theresults (30hrs)

# **Module III: Multiple Regression Model**

Introduction to multiple regression model – Three variable model, Assumptions, interpretation of multiple regression equation. Functional forms of regression models – Choice of functional forms – double log model – semi log models, interpretation of estimated parameters, Standard error, t test, F test. (20 hrs.)

### **Module IV: Problems in Regression Analysis**

Relaxing the assumption of classical linear regression model-Heteroscedasticity—nature, estimation in its presence—detection and remedial measures—Autocorrelation—nature and estimation in its presence—detection and remedial measures — Multicollinearity—nature, estimation in its presence—detection and remedial measures. (20hrs)

# **Readings:**

- 1. Gujarati,PorterandGunasekhar(2007),BasicEconometrics,FifthEdition,Tata McGraw Hill, NewDelhi
- 2. A Koutsoyiannis, Theory of Econometrics, Second Edition, PalgraveMacmillan
- 3. ChandanMukherjee, Howard Whiteand Marc Wytus, Econometrics and Data Analysis for Developing Countries", Routledge
- 4. James Hstockand Mark W (2007).Watson, Introduction to Econometrics,PearsonEducation;3<sup>rd</sup>edition
- 5. Ramu Ramanathan, Introductory Econometrics with Applications, S. Chand & Company Ltd; 5<sup>th</sup> Revised edition
- ${\bf 6.\ Christopher Dougherty, Introduction to Econometrics. New Delhi: Oxford University Press}$
- 7. Johnston. J. Econometric Methods.McGrawHill.
- 8. GS Maddala and KajalLahiri, Introduction to Econometrics, Wiley India, New Delhi
- 9. Dominick Salvatore, DerrickReagle, Schaum's Outline of Statistics and Econometrics, Second Edition, McGraw-HillEducation

# **SEMESTER - VI**

Core Course No.	Course Code	Course Title	No. of Credits	
11	19U6CRECO11	Quantitative Methods for Economic Analysis	4	108

# **Course Outcomes**

	isc outcomes	1		1	
	Course Outcome	POs/PSO	CL	KC	Class
		S			Session
					S
CO <sub>1</sub>	Helps understand the role of statistics in	PO1/PSO	U	C	8
	economic analysis	1			
CO <sub>2</sub>	Students will be able to identify, explain,	PO1/PSO	Ap	C	20
	and use economic concepts, theories,	1			
	models, and data-analytic techniques.				
CO3	Students will acquire the knowledge of	PO1/PSO	Ap	C	15
	economics, mathematics, statistics, and	1			
	computing flexibly in a variety of contexts				
	thereby providing the foundation for				
	success in their studies and careers.				
CO <sub>4</sub>	Students will develop the skills to	PO1/PSO	Ap	C	25
	measure and analyze statistical data in	5			
	order to draw conclusions about various				
	economic problems.				
CO <sub>5</sub>	Students will develop the necessary	PO1/PSO	Ap	C	25
	investigative skills for conducting original	1			
	economic research and participating				
	effectively in project teams.				
CO6	Students will acquire the skills to deliver	PO1/PSO	Ap	C	15
	effective presentations in which they	6			
	combine visual communication design				
	with oral arguments and/or the written				
	word.				
TOTAL	HOURS OF INSTRUCTION				108

Note: R-remember U-Understand, Ap- Applies An-Analyses, E-Evaluates, Cr- Creates

### **Module I:**

Basic Mathematicsfor Economic Analysis – Basic concepts: variables, constants, parameters, equations, sequences, progression: Arithmetic progression and Geometric progression, Calculation of simple interest and compound interest, The real number system. Types of numbers – properties of real numbers – set theory – Types – Set operations – Venn diagrams – Functions: Important economic functions – Ordered pairs and Cartesian products. (25Hrs)

### **Module II**

Differential Calculus: Its significance in Economics. Rules of differentiation –
First order and second order derivatives – some practical applications – Maxima and Minima of functions. Integration-Basics. (15Hrs.)

### **Module III**

Introduction to matrices – Definition and types of matrices, Order ofmatrix, Transpose of matrix Matrix Algebra – addition, subtraction and multiplication, Determinants, Minors and cofactors, Inverse of a matrix, Cramer's Rule. (10 Hrs)

### **Module IV**

Probability and Distribution: Concept – Rules of probability (addition and multiplication theorem – statement only) – Different approaches – Important terms related to probability (Random experiments, sample space, events) – Simple problems based on theorems – Probability distribution – binomial and normal – their properties and uses – Estimation of probabilities using standard normal table.

(33Hrs.)

### **Module V:**

Index numbers – Different types – Importance and limitations, Problems in construction – Weighted and Unweighted price index numbers –Different methods of construction (Price indices only) – Simple aggregative, simple averageof price relatives, Laspeyre's, Paache's, Fisher's and Marshall Edgeworth's indices, Cost of living index numbers: significance construction (Family budgetmethodonly). (25hrs)

### Readings

- 1. John E.Freund (1992), Mathematical Statistics, Prentice Hall, NewDelhi.
- 2. Richard J Larsen and Morris L Marx (2011), An introduction to Mathematical Statistics and its applications, Prentice Hall, NewDelhi.
- 3. Lipwchutz and John Schiller (2005), Introduction to probability and Statistics, Schaums outline Series, Tata McGraw –Hill Education Private Limited, NewDelhi.
- 4. ChiangA.C.(2005),FundamentalMethodsofMathematicalEconomics, McGrawHill.
- 5. GuptaS.P., Statistical Methods, Sultan Chand& Sons, New Delhi.
- 6. Allen R.G.D., Mathematical Analysis for Economists, Palgrave Macmillan.
- 7. Monga G.S., Mathematics and Statistics for Economists, Vikas Publishing House, NewDelhi.
- 8. Thomas P.M., Quantitative Economics, Chinnu Publications, Kottayam.
- 9. Taro Yamane, Mathematics for Economists: AnElementarySurvey, Prentice Hall ofIndia
- 10. Anderson, Sweeney and Williams, Statistics for Business and Economics, ThomsonEducation

# **SEMESTER-VI**

Core	Course Code	Course Title	No. of	No. of
Course			Credits	Contact
No.				hours
12	15U1CRECO12	International	4	90
		<b>Economics</b>		

### **Course Outcome:**

	COURSE OUTCOME	POs/PSOs	CL	KC	Class Sessions
CO1	Understands the basic concepts and tools of international economics	PO1,PSO3	U	С	9
CO <sub>2</sub>	Analyses the basic factors lying behind international trade	PO6, PSO3	An	С	10
CO <sub>3</sub>	Understands the balance of payments accounting and concepts related to it	PO6, PSO3	U	С	12
CO <sub>3</sub>	Critically evaluates reasons for BOP disequilibrium and methods of correction	PO6, PSO3	Е	С	10
CO <sub>4</sub>	Examines the structure and working of foreign exchange markets	PO6, PSO3	An	С	9
CO <sub>5</sub>	Evaluates the theories of exchange rate determination	PO1, PSO3	E	С	12
CO6	Develops basic knowledge about currency derivatives	PO1, PSO3	U	С	10
CO <sub>7</sub>	Evaluates the role and importance of commercial policy	PO5, PSO3	Е	С	8
CO 8	Develops understanding regarding international monetary system and international monetary organisations	PO1, PS31	U	С	10
TO	TAL HOURS OF INSTRUCTION				90

Note: R-remember U-Understand, Ap- Applies An-Analyses, E-Evaluates, Cr- Creates

# Module I - Introduction to the Theory of International Trade

International Economics – Meaning and Significance – Pure theoryof international trade – Basic concepts – terms of trade – meaning and types - offer curve – community indifference curve –opportunity cost – Absolute advantage – Comparative advantage- Reciprocal Demand – the Heckscher– Ohlin theory – Factor price equalization theorem- Leontief Paradox – gains from trade – static and dynamic gains.

(25hrs)

# **Module II - Balance of Payments**

Meaning and structure of balance of payments — equilibrium and disequilibrium in the balance of payments — measures to correct disequilibrium — Devaluation and Balance of Payments — effects of currencydepreciation and capital movementsonBOPsMarshallLernercondition-J-curveeffect(20hours)

# **Module III - Foreign Exchange Rate**

Equilibrium Rate of Exchange – theories of exchange rate determination – purchasing power parity theory – BOP theory – Fixed and flexible exchange rate – forward rate – spot rate – nominal, real, and effective rate of exchange –

Foreign exchange risks – hedging and speculation –currency derivatives –future options – currency swaps- international liquidity(25 hrs)

# **Module IV - Trade Policy and Financial Systems**

Commercial policy – free trade vs protection – Tariffs and Quotas - their effects – Gold standard& Mint parity- Bretton Woods System - IMF – IBRD; WTO - Economic integration- trade creation and trade diversion(25 hrs)

### **Books/Journals for Reference**

- Sodersten, Bo. And Geoffry Reed, International Economics, Palgrave macmillan
- 2. Dominic Salvatore, (recent edition) International Economics. John Wiley and Sons, Delhi.
- 3. Francis Cherunilam (2008), International Economics, Tata McGraw Hill, Delhi.
- 4. Giancarlo Gandolfo (2006) Elements of International Economics, Springer (India) PrivateLimited.
- 5. Dominic Salvatore, Schaum's Outlines, Theory and Problems of International Economics. Tata McGraw Hill, Delhi.

# **SEMESTER-VI**

Core	Course Code	Course Title	No. of	No. of
Course			Credits	Contact
No.				hours
13	15U1CRECO13	<b>Money and Financial</b>	4	90
		System		

### **Course Outcome**

	Course Outcome	POs/PSO	CL	KC	Class Sessions
CO1	Gains knowledge on the basics of Indian financial system	PSO1, PSO2	U	С	12
CO2	Examines the functioning of Indian capital market and money market.	PSO1, PSO2	An	С	15
CO3	Understand functions and forms of money	PSO1, PSO2	U	F	10
CO4	Understand the importance of the financial system in directing the use of scarce capital.	PSO2, PSO3	U	F	12
CO5	Explores the components of the financial system	PSO1	An	С	10
CO6	Understand the major instruments of money market and capital market	PSO2, PSO3	U	С	12
CO7	Familiar with internet based trade and transactions	PSO1	Ар	С	8
CO8	Develops knowledge on the derivative segment of the capital market.	PSO1, PSO3	U	С	11
	TOTAL HOURS OF INSTRUCTION				90

Note: R-remember U-Understand, Ap- Applies An-Analyses, E-Evaluates, Cr- Creates

# **Module 1: Introduction to Money and Financial System**

Static and Dynamic Functions of money, near money, inside money and outside money – Monetary aggregates –M1, M2, M3, and M4-High powered money and

# REVISED SYLLABI OF UG PROGRAMME IN ECONOMICS w.e.f. 2019Admissions money multiplier.

Financial system- functions and structure –Financial markets- Financial Instruments, Financial system and Economic development (Role).(15 Hrs)

# **Module 2: Money Market**

Money market – Meaning -Functions, Instruments of money market-Call loans, Collateral loans, Bills of Exchange, TreasuryBills, Gilt edged securities, Certificate of Deposits', Commercial papers, REPOS, Components of money market-Call money market, Collateral loan market, Acceptancemarket, Bill market, certificate of deposit and commercial paper market, CBLO market,Institutions of money market-Acceptance houses, Discounthouses,Central bank, Commercial bank-Features of Indian money market, DFHI and RBI in Indian Money market.(25Hrs)

# Module 3: CapitalMarket

Capital market- Meaning – Functions-Structure-Primary and Secondary markets-Primary market (New issue market)-Functions of NIM- Intermediaries in NIM (merchant bankers, underwriters, registrar and share transfer agents, bankers to an issue, stock broker), Instruments of Capital market- -Preference shares, Deferred shares, Equities Ordinary shares, bonus shares-Bonds and debentures, Government promissory notes, Public sector bonds, exchange traded funds (ETF), stock split -IPO and FPO, Methods of public issue, -Book Building, ESOP, Depository-Functioning of depository-

Secondary Market- Nature and functions of stock exchanges -Settlement and trading in stock exchange- Players in stock exchanges-Speculators-Bulls, Bears, Lame duck, Stag.

Derivatives Market: Derivatives – meaning- Benefits- types - Forwards, Futures, options, Swaps, warrants and options, Credit derivatives - Forex derivatives. (30Hrs)

### **Module 4: Indian Financial System**

Structure of Indian Financial System-Organization and management of Indian Stock Exchanges-SEBI -Stock exchanges in India -OTCEI, BSE and NSE-INDOnext- BOLT, Online trading, Stock indices in India and abroad -BSE

Sensitive index and Nifty indices; Dow Jones, NASDAQ, FTSE, Nikkei, DepositoriesinIndia-NSDL,CSDL,CreditratingagenciesinIndia-CRISIL,ICRI, CARE, NBFIs –Insurance Companies, Pension funds, Provident funds, Mutual Funds, Venture capital funds. (20Hrs)

#### References

- 1. L.M. Bhole, JitendraMahakud. Financial institutions and markets Structure, growth and innovations. (Latest edition), Tata McGraw Hill Education Private Limited, NewDelhi.
- 2. BharatiV.Pathak(2014),Indian Financial System, Pearson Education, Delhi (Fourth Edition) Ch.4 and5,
- 3. S.B.Gupta(2001).MonetaryEconomics:Institutions,TheoryandPolicy, S. Chand & Co, New Delhi, Part I
- 4. V.A. Avadhani, Investment and Securities Market in India, Himalaya Publishing House, Bombay (recentedition)
- 5. ZuviBodie, Robert C Merton et al. (2009), Financial Economics, Pearson Education(Ch.1(1.1,1.2),Ch.2(2.1,2.5,2.7)only.
- 6. M.Y.Khan(recentedition)IndianFinancialSystem,TataMcGrawHill,New Delhi.
- 7. Frederik S Mishkin, The Economics of Money, Banking and Financial Markets, Eleventh Edition, PearsonEducation.
- 8. F. S. Mishkin and S. G. Eakins, Financial Markets and Institutions, Pearson Education, 6<sup>th</sup> edition, 2011.
- 9. Jadhav, Monetary Policy, Financial Stability and Central Banking in India, Macmillan, 2006.
- 10. Keith, P Ibeam (2005): Finance and Financial Markets, 2nd ed, Palgrave McMilan.
- 11. Guru Swamy, S (2009): Financial Markets and Institutions, 3rd ed, Vijay Nicole Imprints Pvt. Ltd, Chennai, TATA Mc Graw Hills Co Ltd, New Delhi.
- 12. Faboozi, JFrank, Modiglani Franco (2008): Capital Markets-Institution and Instruments, 4th ed, Pearson Education, New Delhi

## **SEMESTER - VI**

Open Course No.	Course Code	Course Title	No. of Credits	No. of Contact hours
14	19U6CRECO14	Indian Economy	4	90

#### **Course Outcome**

	COURSE OUTCOME	POs/PSOs	CL	KC	Class Cessions		
CO1	Understands the economy of India before independence	PO6, PSO3	U	С	8		
CO2	Understands the economy of India during the colonial rule	PO6, PSO3	U	С	10		
CO <sub>3</sub>	Critically analyses the achievements and issues of the economy	PO6, PSO3	An	С	14		
CO4	Evaluates the problems and prospects of Indian economy as an emerging economic power	PO1, PSO2	Е	С	10		
CO <sub>5</sub>	Develops the skills to connect the economy of India with economic theories	PO1, PSO2	Е	С	14		
CO6	Develops an analytical approach to the problems of Indian Economy	PO1, PSO2	U	P	16		
TO	TOTAL HOURS OF INSTRUCTION						

Note: R-remember U-Understand, Ap- Applies An-Analyses, E-Evaluates, Cr- Creates

## **Module I: Economic Development Strategy since Independence**

Mixed Economic Framework - Key and Strategic Role of PSUs — Economic Crisis of 1990 — Macro Economic Reforms Implemented Since 1991-StructuralAdjustment Programmes - Globalization, Liberalization and Privatization — Performance of Indian Economy before and after Economic Reforms - External Sector Reforms since 1991 - Trade and Currency Reforms, - foreign capital - FDI, portfolio investments and MNCs.

(25hrs)

## **Module II- Demographic Features**

Population-size, structure (sex and age) - characteristics - population change -

rural— urban migrations, occupational distribution, problems of over population, population dividend, populationpolicy, Gender inequality, women empowerment, education, health, malnutrition.

(15hrs)

# Module III: Agriculture, Industry and Service Sector

Role of Agriculture in Indian Economy-Land Reforms-New Agricultural Strategy – Green Revolution – Need for Second Green Revolution - Agricultural GrowthandPerformance-NewAgriculturalPolicy—ChangesinLanduseand Cropping Pattern-Agricultural Finance and Issues - Agriculture during Economic Reform Period - WTO and Indian Agriculture – crop Insurance- food security and PDS in India. Industrial growth during pre-reform and post reform period- Industrial Policy Resolution of 1956 and 1991 – Recent industrial policies: national Manufacturing policy 2011- Make in India – Start up India, Role of Micro, Small and Medium Scale Industries (MSMEs) in Indian Economy Its problems and remedies- Role and Performance of Service sector in Indian Economy.

(20 hrs)

# **Module IV: Economic Planning and Development Issues**

Meaning and rationale of Planning-Basic Strategies, Objectives and Achievements of planning in India- Inclusive Development- NITI Aayog - Trends in India's National Income and per capita income – Magnitude of poverty and inequalityinIndia-unemployment,blackmoneyandcorruption—risingprices

- energy crisis – Micro finance and its significance – importance of infrastructure in India's economicdevelopment.

(15hrs)

## Module V: KeralaEconomy

Features, Kerala model of development - Structural change and economic growth in Kerala - Land reforms - current issues in agriculture – food crisis – changes in cropping pattern – agricultural indebtedness – unemployment - IT sector in Kerala - fiscal crisis in Kerala, Gulf migration, energy policy and energy crisis, decentralized planning in Kerala, Changes in the Health Profile of Kerala – Emergingissues.

(15hrs)

# **Readings**

- 1. Misra and Puri( recent edition ), Indian Economy, Himalaya Publishing House, Mumbai. Gaurav Datt & Ashwani Mahajan ( recent Edition), Datt &SundharamIndianEconomy,S.Chand&Co.,NewDelhi
- 2. MeeraBaiM.(ed)(2008), Kerala Economy, Serials Publication, New Delhi.
- 3. PrakashBA(2004)Kerala'sEconomicDevelopment,SagePublications, New Delhi
- 4. George K K (1993) Limits to Kerala Model of Development, CDS, Trivandram
- 5. B A Prakash (2009), The Indian Economy since 1991: Economic reforms and performance, PearsonEducation
- 6. Sunil Mani et al. (ed) (2006), Kerala's Economy : Crouching Tiger, Sacred Cows, D C Books, Kottayam
- State Planning Board, Economics Review , Government of Kerala,
   Thiruvananthapuram (latestissue)
- 8. Pulapre Balakrishnan (ed) (2011) Economic Reforms and Growth in India, Orient BlackSwann.
- 9. Y V Reddy (2011) Global crisis, Recession and Uneven Recovery, Orient BlackSwann.

# **OpenCourse**

The course Economics of Everyday life is designed for students of other disciplines to familiarize with economic concepts, principles and practices that they have to engage in the usual course of life

## **SEMESTER-V**

Open Course No.	Course Code	Course Title	No. of Credits	No. of Contact hours
01	19U5OCECO1	Economics for Everyday Life	3	72

## **Course Outcome**

	COURSE OUTCOME	POs/PSOs	CL	KC	Class Sessions
CO1	Understands basic concepts and tools used in the discipline of economics	PO1, PSO1	U	С	5
CO2	Develops the skill to analyse the revenue expenditure and budgetary activities of the government	PO3, PSO1, PSO4	An	P	4
CO <sub>3</sub>	Evaluates the role of government and monetary authority in stabilizing the market economy	PO1, PSO2,	Е	С	7
CO <sub>4</sub>	Understand the banking products, procedures and means of fund transfer in modern times	PO1, PSO1	U	С	8
CO <sub>5</sub>	Understands the various types of financial instruments.	PO3, PSO1,	U	С	14
CO6	Familiarises the student with financial markets, activities in the financial markets, instruments traded and stock market indices	PO <sub>5</sub> , PSO <sub>1</sub>	An	С	9
CO <sub>7</sub>	Understands the international relationships between nations and concepts like BOT, BOP, TOT etc	PO6, PSO4	U	С	8
CO 8	Evaluates themeans of financial adjustments in a federal set up	Po1, PSO1	E	С	10
Total H	Iours of Instruction				72

Note: R-remember U-Understand, Ap- Applies An-Analyses, E-Evaluates, Cr- Creates

# **Module 1: Basic Concepts**

Economics – micro and macroeconomics – deductive and inductive reasoning – basic economic problems – production possibility curve. Utility - total and marginal. Law of Demand – elasticity of demand – concept of elasticity –price- income and cross elasticity- Law of supply. National income – meaning - components of national income (12Hrs)

### **Module 2: PublicEconomics**

State vs Market - public revenue - public expenditure - tax and non-tax revenue - direct and indirect taxes - goods and service tax in India - budget - types - fiscal deficit - revenue deficit - public debt - trade cycle and its phases - fiscal andmonetarypolicies as tools for combating in flation and deflation. (12 Hrs)

## **Module 3: Banking and Financial System**

Commercial banks and their functions- Core Banking, Internet Banking, Mobile Banking, ATM/Debit & Credit Cards, IFSC,NEFT,RTGS-NPA in Indian banking sector Negotiable and non-negotiable instruments – cheques – drafts – billsof exchange –promissory notes-letter of credit - certificate of deposits – commercial papers - RBI– functions - money and capital market– major financial instruments – shares, debentures and bonds – stock exchange– BSE, NSE – stockmarketindices–SEBI-mutualfunds.(24hours)

# Module4 International trade, economic planning and federal finance

Gains from trade-Terms of trade - balance of trade - balance of payments- foreign exchange - exchange rate - spot - forward - fixed - floating - IMF, World Bank - WTO. Planning in India- Objectives- planning commission and NitiAyog- change in the sectoral contribution of GDP in India -Finance commission and its functions-federal finance- division of powers and devolution of resources.(24 Hrs)

## **Books/Journals for Reference**

- Samuelson&Nordhaus:Economics(IndianAdaptation)19eMcGrawHill
   2010
- 2. Dominic Salvatore: Micro economic Theory Shaum outline Series Indian

- 3. Sundharam V: Money Banking & Public Finance Alfa Publications2009
- 4. Giancarlo Gandolfo (2006) Elements of International Economics, Springer (India) PrivateLimited.

# Choice Based ElectiveCourses SEMESTER- VI

Choice Based Elective Course	Course Code	Course Title	No. of Credits	No. of Contact hours
01	19U6ELECO1	<b>Modern Banking</b>	3	<b>72</b>

## **Course Outcomes**

	COURSE OUTCOME	POs/PSOs	CL	KC	Class Sessions
CO1	Understands different systems of banking and the historical context of their development	PO1, PSO1	U	С	5
CO2	Understands how banks manage their portfolios to strike a balance between liquidity profitability and security	PO9, PSO1	U	С	6
CO <sub>3</sub>	Analyses the structure and functioning of Indian banking system	PO1, PSO1	An	C	7
CO <sub>3</sub>	Understands different systems and operations of central banking	PO6, PSO1	U	С	10
CO4	Evaluates the strength and weaknesses of Indian banking system and identifies areas of banking sector reforms	PO1, PSO2	Е	С	8
CO <sub>5</sub>	Develops understanding and ability to use IT based banking services	PO3, PSO1	Ap	P	9
CO6	Develops basic knowledge about practical and legal aspects of banker- customer relationship	PO3, PSO1	U	С	8
CO <sub>7</sub>	Compares different types of negotiable instruments and their uses	PO3, PSO1	An	С	10
CO 8	Understands the modes of creating charge by banks to secure loans	PO5, PSO1	U	С	9
TOT	TAL HOURS OF INSTRUCTION				72

Note: R-remember U-Understand, Ap- Applies An-Analyses, E-Evaluates, Cr- Creates

# **Module I - Banking: Structure and Theories**

Evolution of Banking - Italy and England - Brief history of commercial banking in India - Structure of commercial banks - Functions - Credit creation - Branch banking - Unit banking - Mixed banking - Chain banking - Theories of Banking,

Real Bills Doctrine – Shiftability theory – Anticipated Income theory – Theoriesof portfolio management – liquidity, safety and profitability – prime lending and subprime lending – NPA – Development banks – IFCI, UTI, SIDBI – Co-operative BanksinIndia—theirroleinthefieldofruralcredit.(22hrs)

#### **Module II - Central Bank**

Central Bank – meaning – Central Banking in USA and India. Functions of Central Bank with reference to RBI – Monetary policy of RBI – Repo rate and Reverse Repo rate – Call rate – SLR. – Marginal Standing Facility. (15 Hrs)

# **Module III - Banking Sector Reforms and Emerging Trends**

Banking sector reforms – Narasimham Committee Reports – Newgenerationbanksandemergingtrendsinbanking—e-banking,ATM,Debitand Credit cards – Internet banking – Core banking – Mobile banking, RTGS, NEFT, SWIFT, MICR cheques / drafts. Cheque Truncation. ECS-smart card- risks in e-banking, Digital Payment System in India – Prepaid Payments instruments, Non-performing assets. (15 Hrs)

# Module IV - Practical Banking

Practical Banking – Banker-customer relationship – General and special relations – Garnishee order – Negotiable instruments – Credit instruments – Cheques, drafts, promissory notes, bills of exchange. Types of credit – loans and advances – cash credit – overdraft – discounting of bills of exchange. Modes of creating charges – lien, pledge, mortgage & hypothecation. (20 Hrs)

## **Readings**

- 1. Jyotsna sethi and Niswan Bhatia (2008) prentice hallindia
- 2. Hajela, T.N., (2009) Moneyand Banking, Ane Books Pvt Ltd., New Delhi.
- 3. Sundharam KPM, Banking: Theory, Law and Practice, Sultan Chand and Sons, New Delhi (recentedition)
- 4. M.R. Baye, D.W. Jansen (1996), Money, Banking and Financial Markets, AITBS (Indianed.)
- 5. K.C. Sekhar: Banking Theory and Practice, Vikas Publishing House, New

# REVISED SYLLABI OF UG PROGRAMME IN ECONOMICS w.e.f. 2019admissions Delhi (recentedition)

# **SEMESTER-VI**

Choice Based Elective Course	Course Code	Course Title	No. of Credits	No. of Contact hours
02	19U6ELECO2	<b>Human Resource</b>	3	<b>72</b>
		Management		

# **Course Outcome**

	urse Outcome			1	
	Course Outcome	POs/PSO	CL	KC	Class Sessions
CO1	Understand the meanings of the terminology and tools used in managing employees effectively	PSO1	U	С	10
CO2	Analyse the role of recruitment and selection in relation to the organization's business and HRM objectives.	PSO1	An	С	8
CO3	Administer and contribute to the design and evaluation of the performance management program.	PSO1, PSO2	Ар	С	12
CO4	Develop, implement, and evaluate employee orientation, training, and development programs.	PSO1, PSO2	Ар	С	8
CO5	Gains skills to conduct research, produce reports, and recommend changes in human resources practices.	PSO1, PSO2	Cr	С	10
CO6	Understand the characteristics of human capital and its effective utilisation.	PSO2	U	С	9
CO7	Facilitate and support effective employee and labour relations in both non-union and union environments.	PSO1	U	С	7
CO8	Become familiar with the human resources component of the organization's business plan.	PSO1, PSO2	U	С	8
	TOTAL HOURS OF INSTRUCTION				72

**Module I**: Nature and scope of Human Resource Management – HRM and the related terms - evolution of HRM - changing environment of HRM - work ethics – human resource management departments and their tasks –career development –professional activities – HRMinIndia. (15Hrs)

**Module II**: Human Resource Planning – importance of HRP – process of human resource planning - forecasting demand and supply of labour - Training and development activities – induction programme – developing HR information system. (17Hrs)

**Module III:** Individuals and jobs – job analysis - rewards - work motivation - motivational processes – employee participation - prestige and morale-measurement and improvement of morale - Employee performance - methods of performance appraisal - error identification and reduction – job satisfaction – employeeretention. (20Hrs)

**Module IV**: Compensation policy - objectives - methods of wage payments - promotion and transfer of employees - employee welfare and social security measures - job evaluation - recruitment and selection - methods and sources of recruitment - placement.

(20 Hrs)

# **Readings**

- Dessler, Human Resource Management, 11<sup>th</sup> edition, Pearson Education, Delhi
- 2. BiswanathGhosh, *HumanResourceDevelopmentandManagement*, Vikas Publishing House, Delhi
- 3. Anuradha Sharma & Aradhana Khandekar (2006), *Strategic Human Resource Management*, Response Books, NewDelhi
- 4. Bohlander and Shell (2007), *Human Resource Management*, Cengage Learning, Delhi.
- 5. Aswathappa, *Human Resource and Personnel Management*, 3<sup>rd</sup> edition, Tata McGraw Hill, Delhi

# **SEMESTER-VI**

Choice Based Elective Course	Course Code	Course Title	No. of Credits	No. of Contact hours
03	19U6ELECO3	Mathematical	3	<b>72</b>
I		<b>Economics</b>		

# **Course Outcome**

	Course Outcome	POs/PSO	CL	KC	Class
		S			Sessions
CO1	Helps understand the role	PO1/PSO	U	C	10
	of Mathematics in economic	1			
	analysis				
CO <sub>2</sub>	Students will be able to	PO1/PSO	Ap	C	10
	identify, explain, and use	1			
	Mathematicalconcepts,				
	theories, functions in				
	economic analysis.				
CO <sub>3</sub>	Students will acquire the	PO1/PSO	An	C	15
	knowledge about	1			
	multivariable functions,				
	implicit and inverse				
	function rules and its				
	economic applications				
CO4	Students will develop the	PO1/PSO	Ap	C	15
	Mathematical skills to	1			
	measure and analyze the				
	consumer and producer				
	surplus				
CO <sub>5</sub>	Students will acquire	PO1/PSO	U	C	12
	knowledge about integral	1			
	calculus and its properties				
CO6	Students will understand	PO1/PSO	U	C	10
	the basic concepts like	1			
	integration, differentiation,				
	functions etc for economic				
	applications				
TOTAL HOU	RS OF INSTRUCTION			-	72

Note: R-remember U-Understand, Ap- Applies An-Analyses, E-Evaluates, Cr- Creates

## Module I: Functions of one real variable

Types of functions- constant- polynomial- rational-exponential-logarithmic-Graphs and graphs of functions-Limit and continuity of functions-slope of curvilinear function. The Derivatives—rules of differentiation- higher —order derivatives- implicit differentiation- Economic applications. (25 Hours)

## Module II: Calculus of multivariable functions

Functions of several variable- partial derivatives- rules of partial derivatives-second order partial derivatives. Optimization of multivariate functions-constrained optimization with Lagrange multiplier. Differentials-total and derivatives-implicit and inverse function rules-Economic applications. (25 Hours)

## Module III: IntegralCalculus

Theindefiniteintegral-integration-ruleofintegration-integration by substitution and by part. The definite integral- properties of definite integrals- area under a curve- area between curves- Economic application- consumer and producer surplus. (22Hours)

## **Readings**

- 1. Dowling, Edward T(2008): Introduction to Mathematical Economics, 3rd
- 2. Ed, Schaum's Outline Series, McGraw Hill. (Chapters 3-6, 16-17)
- Knut Sydsaeter, Peter Hammond and Arne Strom(2012): Essential
   Mathematics for Economic Analysis 4th Ed, Pearson India,.( Chapters-4-9)
- 4. MikWisneiwski(1998):IntroductoryMathematicalMethodsin Economics, 2nd Ed McGraw-Hill,.(Chapters -7-10 and 13).

- 5. Michael Hoy,et.al(2009): Mathematics for Economics,2ndEd,PHI.(Chapters-Part IV- 11-12 and PartV-16).
- 6. Geoff Renshaw(2009): Maths for Economics, 2nd Ed, OUP.(Ch-6-9, 14-16 and 18).
- 7. K.HoldenandA.W.Pearson(2010):IntroductoryMathematicsfor Economics and Business,2nd Ed. Macmillan.(Ch-5-7).
- 8. Ian Jacques(2015): Mathematics for Economics and Business,5thEd,PH. (Ch-4-6).
- Akihito Asano(2013): An Introduction to Mathematics for Economics,
   CUP, (Ch-4-7)

# **SEMESTER-VI**

Choice Based Elective Course	Course Code	Course Title	No. of Credits	No. of Contact hours
04	19U6ELECO4	Business Economics	3	72

## **Course Outcome**

	Course Outcome	POs/PSO	CL	KC	Class Sessions
CO1	Understand the role of economic principles in business decision making	PO1/PSO1	U	С	10
CO2	Understand the conceptual framework of economics applicable to decision making	PO1/PSO1	U	С	8
CO3	Understands the determinants of demand for products and services sold in the market	PO1/PSO1	U	С	12
CO4	Estimates future demand on the basis of present and past demand patterns	PO1/PSO1	Ар	С	8
CO5	Understands various cost concepts relevant to business decisions	PO1/PSO1	U	С	10
CO6	Examines how the goals of a firm affects its market strategy	PO1/PSO1	An	С	9
CO7	Examines the theories of profit and pricing strategies of the firm	PO1/PSO1	An	С	7
CO8	Understands how the firm plans its long term investment strategies	PO1/PSO1	U	С	8
	TOTAL HOURS OF INSTRUCTION				72

Note: R-remember U-Understand, Ap- Applies An-Analyses, E-Evaluates, Cr- Creates

## **Module I: Introduction to Business Economics**

The scope and methods of Business Economics – role in managerial decision making – decision making – approaches to managerial decision making theory and firms—basic concepts in economics—scarcity—choice—resource allocation

fundamental concepts and principles: the incremental concept - the time
 perspective - the discounting principle - the opportunity cost concept - the equimarginal principle(concepts only). (12hrs)

## **Module II: Demand Analysis and Forecasting**

Demand – types – determinants of demand – Law of demand – changes indemand – elasticity of demand – income – price – cross (with numerical illustration) – Demand determinants of non-durable consumer goods – durable consumer goods – capital goods – demand forecasting – types – methods of demand forecasting – forecasting demand for new products – criteria for a good forecasting method.(15hrs)

## **Module III: Production and Cost Analysis**

Production function: Production function with empirical studies – Cobb Douglas production function – Cost concepts and classification – accounting cost and

economic cost – actual cost and opportunity cost – explicit cost and implicit or imputed cost – out of pocket cost – book cost – direct and indirect cost – historical cost and replacement cost – short run and long run cost – total cost – averagecost – marginal cost – cost estimation – accounting cost method – engineering cost method – objective of the firm: managerial theory of firm- by William J. Baumol.(15hrs)

# **Module IV: Pricing and Profits**

Pricing methods – cost oriented pricing – competition oriented pricing – practical methods of pricing – peak-load pricing – pricing of a new product – multi product pricing – Dual pricing – administered pricing – transfer pricing – profit – profit theories – risk bearing theory – market imperfection theory – innovation theory – accounting and economic profit – profit planning – Break- even analysis ( with numerical illustration). (15hrs)

## **Module V: Long Term Investment Decisions**

Capital budgeting – meaning and need demand for capital – methods of investment criteria – payback period method – Average Rate of Return method – Discounted cash flow method – Net Present Value method – Profitability index – Internal Rate of Return method – ( with numerical illustration) – cost of capital. (15hrs)

## References

- 1. Dominick Salvatore. (2008) Managerial economics: Worldwide applications. NewDelhi.
- 2. Nellis and Parker (2006). Principles of Business Economics. Pearson Education. NewDelhi.
- 3. P.l. Mehta. Managerial Economics. Sultan ChandPublications.
- 4. H.L. Ahuja. Business Economics.S.Chand
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- 6. Mankar and Pillai. (2000). Business and managerial Economics. Himalaya.
- 7. Mote Paul and Gupta (2000) Managerial Economics. Tata Mc GrawHill.
- 8. R.L. Varshney and K.L. Maheshwari. Managerial Economics. Sultan Chand.
- Sampat Mukherjee. Business and Managerial Economics. New Central Book Agency (p)Ltd.
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# PROJECT (15U6PJECO1)

All students must do a project. It can be done individually or as a group. However, the viva voce examination on this project will be conducted individually. The projects are to be identified during the V semester of the programme with the help of the supervising teacher. The report of the project is to be submitted to the department for valuation by the examiners appointed by the College.

A project is a scientific and systematic study of real issue or a problem intended to resolve the issue with application of concepts, principles, theories and processes. It should entail scientific collection, analysis and interpretation of data to validconclusions.

## **TOPIC SELECTION:**

The first step of the project work is to choose a suitable topic for study. This choice will be entirely personal from the area of interest or career prospects of students. The study can deal with any issue of social and economic relevance inanarea, organization, related issues of contemporary relevance or acase-study to investigate an describe aphenomenon within its real life context.

#### PROJECT WORK AND EXPERIENTIALLEARNING:

Project Work is the best way to practice what you have learnt. It provides an opportunity to investigate a problem by applying concepts in a scientific manner. It enables the application of conceptual knowledge in a practical situation and to learn the art of conducting a study in a systematic way and presenting its findings in a coherent report. The project work helps the students to address and resolve a range of issues an economy faces and become part of valuable learning experience.

# **PROJECT GUIDELINES:**

- 1. Project work may be done individually or as a team of students not exceeding 5 innumber.
- 2. Teamshouldbe,totheextentpossible,diverseincompositionwithdifferent capabilities (weak, strong, creative, analytical etc.) and different orientation (liberal, conservative etc.) to enable crosslearning.
- 3. Divide the project up into a series of smaller steps or parts. Put the parts of the project into a time sequence (literature survey, acquiring a sampling frame, data, analysisetc.)

- 4. The project topic should be on economic issues / theoretical / case study typebearingontheeconomicaspectsofsociallife
- 5. Project topic should be identified in the V semester and the project work shouldbecompletedbytheendoftheVIsemester.
- 6. Project work should be done under the supervision and guidance of teachers.
- 7. AcopyoftheprojectreportinEnglish(printedortyped)shouldbesubmitted bythestudent/teamonorbefore31Marchoftheyearconcerned.
- 8. The valuation of the project will be done at two stages:
  - a. Internal evaluation (supervising teachers will assess the project and awardgrades)
  - b. External evaluation (The team will comprise of an external examiner appointed by the College and the HOD of the institution concerned or hisnominee)
  - c. A Viva voce related to the project work will also be conducted by the external evaluation team. All candidates should undergo the Viva voce testindividually.
  - d. Gradeswillbeawardedtocandidatescombiningtheinternalgrade, team grade and Viva vocegrade.
- 9. Length of the project report 20 to 35 pages. The report may be organized in 3 chapters(minimum). The use of simple statistical tools in data analysis may been couraged.
- 10. Project evaluation and the Viva voce should be conducted immediately after the completion of the regular classes /writtenexamination.
- 11. The chairman of the VI semester exam should form and coordinate the evaluation teams and theirwork.
- 12. The project external evaluation should be completed before the commencement of the centralized valuation.
- 13. External Examiners will be appointed by the Chairperson board from the list of VI semester Board of Examiners.

# PROJECT EVALUATION

Internal				
Component				
Topic and area selected	2			
Experimentations/ Data	5			
Selected				
Punctuality –Regularity	3			
Compilation	5			
Content	5			
Presentation	5			
TOTAL	25			

### A MODEL PROJECTDESIGN

The project work can be designed by considering the following elements.

- 1. Selection of aTopic
- 2. PilotSurvey-atrialrunofquestionnaire/interviews
- 3. Significance / Social relevance of the Study
- 4. Review of Literature
- 5. Formulation of Research Questions /Issues
- 6. Research Objectives (Minimum<sub>2</sub>)
- 7. Coverage (Universe / Sample & period ofstudy)
- 8. Data source(Primary/Secondary)
- 9. Methods of Analysis i.e., Tools and Techniques
- 10. Limitations of the study
- 11. Chapteroutline
- 12. ResultChapter(s)
- 13. Conclusion

## STRUCTURE OF THEREPORT

The report should be organized in the following sequence:

- i) Titlepage
- ii) Nameofthecandidate, Name and designation of the supervising teacher

- iii) Declarationofthestudentandcertificateofthesupervisingteacher
- iv) Acknowledgements
- v) Listoftables, Listoffigures, table of contents
- vi) Introduction
- vii) Significance of thestudy
- viii) Related works, ifany
- ix) Objectives, methodology and datasources
- x) Chapterscheme
- xi) Main text, summary conclusions andrecommendations
- xii) Bibliography

# **PATTERN OF QUESTIONS**

Questions shall be set to assess knowledge acquired, standard application of knowledge, application of knowledge in new situations, critical evaluation of knowledge and the ability to synthesize knowledge. The question setter shall ensure that questions covering all skills are set. He / She shall also submit a detailed scheme of evaluation along with the question paper.

A question paper shall be a judicious mix of objective type, short answer type, short essay type /problem solving type and long essay type questions.

# Pattern of questions for external examination for theory paper without practical.

	Total no. of questions	Number of questions to be answered	Marks of each question	Total marks
	10	10	1	10
	10	8	2	16
	7	5	5	25
	4	2	12	24
TOTAL	31	25	-	75