Study & Evaluation Scheme

of

Department of Humanities and Social Sciences (Hons)

(Specialization in Economics)

[Applicable for 2018-21]

[As per CBCS guidelines given by UGC]



Approved in BOS	Approved in BOF	Approved in Academic Council
03/03/2018	06/07/2018	06/11/2018 Vide agenda No. 1.7.3

Quantum University, Roorkee

22 KM Milestone, Dehradun-Roorkee Highway, Roorkee (Uttarakhand) Website: www.quantumuniversity.edu.in



Quantum University, Roorkee

Study & Evaluation Scheme

Study Summary

Name of the Faculty	Faculty of Graduate Studies
Name of the School	Quantum School of Graduate Studies
Name of the Department	Department of Humanities & Social
	Sciences
Program Name	Bachelor of Arts (Hons) (Specialization in Economics)
	(Specialization in Economics)
Duration	3 Years
Medium	English

Evaluation Scheme

Evaluation Scheme											
Internal	End Semester	Total									
Evaluation	Evaluation(%)	(%)									
(%)											
Theory 40 60											
40	60	100									
on Components	(Theory Papers)										
	50 Marks										
	50 Marks										
	25 Marks										
	25 Marks										
	50 Marks										
n Components (Practical Papers)										
	25 Marks										
	25 Marks										
	25 Marks										
	75 Marks										
	50 Marks										
End Semester Evaluation (Practical Papers)											
30 Marks											
ESE Quiz 30 Marks ESE Practical Examination 50 Marks											
	20 Marks										
	Evaluation (%) 40 40 on Components n Components (Evaluation (%) Evaluation(%) 40 60									



Structure of Question Paper (ESE Theory Paper)

The question paper will consist of 5 questions, one from each unit. Students have to Attempt all questions. All questions carry 20 marks each. Parts a) and b) of questionQ1to Q5 will be compulsory and each part carries 2 marks. Parts c), d) and e) of Q1 to Q5Carry 8 marks each and the student may attempt any 2 parts.

Important Note:

- 1. The purpose of examination should be to assess the Course Outcomes (CO) that will ultimately lead to attainment of Programme Outcomes (POs). A question paper must assess the following aspects of learning: Remember, Understand, Apply, Analyze, Evaluate & Create (reference to Bloom's Taxonomy). The standard of question paper will be based on mapped BL level complexity of the unit of the syllabus, which is the basis of CO attainment model adopted in the university.
- 2. Case Study is essential in every question paper (wherever it is being taught as a part of pedagogy) for evaluating higher-order learning. Not all the courses might have case teaching methods used as pedagogy.
- 3. There shall be continuous evaluation of the student and there will be a provision of real time reporting on QUMS. All the assignments will be evaluated throughmodules available on ERP for time and access management of the class



<u>Program Structure – Bachelor of Arts (Hons)</u> (Specialization in Economics)

Introduction

Bachelor of Arts (Hons)(Specialization in Economics) syllabus is a broad and multidisciplinary course consisting of several subjects such as Micro Economics, Macro Economics, Mathematical Economics, Agricultural Economics, Development Economics, International Economics, Industrial Economics.

All the above subjects are designed in such a way that students are able to perceive and retain the knowledge related to economics. There are a number of subjects that are offered in order to enhance employability and entrepreneurial ability among the students. The course is designed to produce graduates trained in the application of knowledge in economics to real-life economic, financial, ethical and analytical problems encountered in the economy. It is structured to provide the students with the skills and professional acumen to become key players in the economy irrespective of their future job places and task diversification they would take up. The course may enable the students to effectivelyapply their knowledge and skills to situations of economic, institutional and policymaking both in governance and industry.

The course has a rigorous focus on quantitative techniques and research methods which will orient the students in dealing with economic problems with a practical and analytical approach. The diversity and the spread of the course ensure that the students receive sufficient experience of the current issues and crises of the world, especially that of the emerging economies.

It's focused on the fundamental principles, theories and applications of economics. The programme includes qualitative and quantitative courses in economics, such as Indian economics, microeconomics, macroeconomics, economic statistics, etc.

-



It is a multidisciplinary trade-based field focusing on the application of business economics. Themes vary from financial management, corporate comportment, cost accounting to corporate communication, commercialization, and so forth. BA's Economics focuses mainly on demand and supply, Indian history, national incomes, inflation and deflation, production and supply, etc. Economics as a topic works primarily with extensive data. Therefore, statistics are vital in the curriculum.

Experiential Learning Programme (ELP)/ Hands on Training (HOT)

This program will be undertaken by the students preferably at the end of 5th semester for a total duration of 6 weeks with a weightage of 0+2 credit hours.



Curriculum (2018- 21) Version 2018

Quantum School of Graduate Studies **Bachelor of Arts (Hons) (Specialization in Economics) – PC: 03-3-08**

BREAKUP OF COURSES

Sr. No	CATEGORY	CREDITS
1	Foundation Core (FC)	8
2	Program Core (PC)	77
3	Program Electives (PE)	24
4	Open Electives (OE)	9
5	Project	5
6	Internship	-
7	Value Added Programs (VAP)	9
8	General Proficiency (GP)	5
9	Disaster Management*	2*
TOTAL	NO. OF CREDITS	137

^{*}Non-CGPA Audit Course

SEMESTER-WISE BREAKUP OF CREDITS

Sr. No	CATEGORY	SEM 1	SEM 2	SEM 3	SEM 4	SEM 5	SEM 6	TOTAL
1	Foundation Core	6	2	-	-	-	-	8
2	Program Core	16	17	15	13	8	8	77
3	Program Electives	-	-	-	-	12	12	24
4	Open Electives	-	3	3	3	-	1	9
5	Project	-	-	-	3	-	2	5
6	Internship	-	-	-	-	-	-	-
7	VAPs	2	2	1	1	1	2	9
8	GP	1	1	1	1	1	-	5
9	Disaster Management*	-	2*	-	-	-	-	2*
	TOTAL	25	27	20	21	22	24	137

^{*}Non-CGPA Audit Course

Minimum Credit Requirements:

Bachelor of Arts (Hons) Economics: 137 credits



Course Code	Category	Course Title	L	Т	P	С	Version	Course Prerequisite
EM3101	FC	Computer Applications in Business	3	0	2	4	1.0	Nil
PS3101	FC	Human Values & Ethics	2	0	0	2	1.0	Nil
EM3102	PC	Principles of Microeconomics	3	1	0	4	1.0	Nil
EM3103	PC	Economic History of India	4	0	0	4	1.0	Nil
EG3101	PC	Communicative English	3	1	0	4	1.0	Nil
PS3106	PC	Fundamental Psychological Processes I	3	1	0	4	1.0	Nil
VP3101	VP	Communication and Professional Skill - I	2	0	0	2	1.0	Nil
GP3101	GP	General Proficiency	0	0	0	1	1.0	Nil
		TOTAL	18	3	4	25		

Contact Hrs: 25



Course Code	Category	Course title	L	T	P	С	Version	Course Prerequisite
CY3205	FC	Environmental Studies	2	0	0	2	1.0	Nil
EM3202	PC	Principles of Macroeconomics	3	1	0	4	1.0	EM3102
EM3203	PC	Statistical Tools in Economics	4	1	0	5	1.0	Nil
EM3204	PC	Business Environment	4	0	0	4	1.0	Nil
PS3206	PC	Fundamental Psychological Processes II	3	1	0	4	1.0	PS3106
	OE	Open Elective I	3	0	0	3	1.0	Nil
VP3201	VP	Communication & Professional Skills- II	1	0	2	2	1.1	Nil
GP3201	GP	General Proficiency	0	0	0	1	1.0	Nil
CE3201	FC	Disaster Management*	2*	0	0	2*	1.0	Nil
		TOTAL	22	3	2	27		

^{*}Non-CGPA Audit Course

Contact Hrs =27

Open Elective I

Cours	Categor	COURSE TITLE	L	T	P	С	Version	Course
e	У							Prerequisit
Code								e
CE3011	OE	Carbon Emission & Control	3	0	0	3	1.0	Nil
CS3021	OE	Mining and Analysis of Big data	3	0	0	3	1.0	Nil
AG3011	OE	Ornamental Horticulture	3	0	0	3	1.0	Nil
BB3011	OE	Entrepreneurial Environment in India	3	0	0	3	1.0	Nil
JM3011	OE	Media Concept and Process (Print and	3	0	0	3	1.0	Nil
31013011		Electronic)						
HM3011	OE	Indian Cuisine	3	0	0	3	1.0	Nil
MB3011	OE	SAP 1	3	0	0	3	1.0	Nil
EG3011	OE	French Beginner A1	3	0	0	3	1.0	Nil
MT3011	OE	Elementary Robotics	0	0	5	3	1.0	Nil



Course Code	Category	Course Title	L	T	P	С	Version	Course Prerequisite
MA3106	PC	Elements of Mathematics	3	2	0	4	1.1	Nil
EM3302	PC	Advance Macroeconomics	3	0	0	3	1.0	Nil
EM3303	PC	Development Economics	4	0	0	4	1.0	Nil
EM3304	PC	Introduction to Developmental Psychology	4	0	0	4	1.0	Nil
	OE	Open Elective II	3	0	0	3	1.0	Nil
VP3301	VP	Communication & Professional Skills- III	1	0	0	1	1.0	Nil
GP3301	GP	General Proficiency	0	0	0	1	1.0	Nil
		TOTAL	17	2	2	20		

Contact Hrs = 21

Open Elective II

Course Code	Category	COURSE TITLE	L	T	P	С	Version	Course Prerequisite
CE3013	OE	Environment Pollution and Waste	3	0	0	3	1.0	Nil
CE3013		Management						
CS3023	OE	Big Data Analytics: HADOOP	3	0	0	3	1.0	Nil
		Framework						
AG3013	OE	Organic farming	3	0	0	3	1.0	Nil
BB3013	OE	Establishing a New Business	3	0	0	3	1.0	Nil
JM3013	OE	Photo Journalism	3	0	0	3	1.0	Nil
HM3013	OE	Chinese Cuisine	3	0	0	3	1.0	Nil
MB3013	OE	SAP 3	3	0	0	3	1.0	Nil
EG3013	OE	French Intermediate B1	3	0	0	3	1.0	Nil
EG3002	OE	Report Writing	3	0	0	3	1.0	Nil
MT3013	OE	Introduction to Automation	3	0	0	3	1.0	Nil



Course Code	Category	Course title	L	Т	P	С	Version	Course Prerequisite
EM3401	PC	Economics of Public Finance	5	0	0	5	1.0	Nil
EM3402	PC	International Economics	4	0	0	4	1.0	Nil
EM3403	PC	Industrial Economics	4	0	0	4	1.0	Nil
EM3470	PC	Project I	3	0	0	3	1.0	Nil
	OE	Open Elective III	3	0	0	3	1.0	Nil
VP3401	VP	Reasoning Ability	0	0	2	1	1.0	Nil
GP3401	GP	General Proficiency	0	0	0	1	1.0	Nil
		TOTAL	19	0	2	21		

Contact Hrs = 21

Open Elective III

Course Code	Category	COURSE TITLE	L	Т	P	С	Version	Course Prerequisite
CE3015	OE	Hydrology	3	0	0	3	1.0	Nil
CS3025	OE	Data Science Models: Regression, Classification and Clustering	3	0	0	3	1.0	Nil
AG3015	OE	Mushroom Cultivation	3	0	0	3	1.0	Nil
BB3015	OE	E-commerce	3	0	0	3	1.0	Nil
JM3015	OE	Media industry and Management	3	0	0	3	1.0	Nil
HM3015	OE	Italian Cuisine	3	0	0	3	1.0	Nil
MB3015	OE	SAP 5	3	0	0	3	1.0	Nil
EG3015	OE	French Advance C1	3	0	0	3	1.0	Nil
MT3015	OE	Robotic Industry 4.0	3	0	0	3	1.0	Nil



Course Code	Category	Course Title	L	Т	P	С	Version	Course Prerequisite
EM3501	PC	Research Methodology	4	0	0	4	1.0	Nil
EM3502	PC	Techniques in Decision Making	4	0	0	4	1.0	Nil
	PE	Program Elective-I	6	0	0	6	1.0	Nil
	PE	Program Elective-II	6	0	0	6	1.0	Nil
VP3501	VAP	Numerical Ability	0	0	2	1	1.0	Nil
GP3501	GP	General Proficiency	0	0	0	1	1.0	Nil
		TOTAL	20	0	2	22		

Contact Hours = 22

SEMESTER 6

Course Code	Category	Course Title	L	Т	P	С	Version	Course Prerequisite
EM3601	PC	Money and Financial Market	4	0	0	4	1.0	Nil
EM3602	PC	Economics of Marketing	4	0	0	4	1.0	Nil
	PE	Program Elective-III	6	0	0	6	1.0	Nil
	PE	Program Elective-IV	6	0	0	6	1.0	Nil
EM3640	PC	Project	2	0	0	2	1.0	Nil
VP3601	VAP	GDPI	2	0	0	2	1.0	Nil
		TOTAL	22	0	2	24		

Contact Hours = 24



PROGRAM ELECTIVES

Program Elective	S.N	Course Code	COURSETITLE	L	Τ	P	С	Version	Course Prerequisite	
I	1	EM3516	Financial Economics	6	0	0	6	1.0	Nil	
1	2	EM3517	Game Theory 6 0 0 6 1.0					Nil		
II	1	EM3518	Basic Econometrics	6	0	0	6	1.0	Nil	
	2	EM3519	Law & Economics	6	0	0	6	1.0	Nil	
III	1	EM3616	Health Economics	6	0	0	6	1.0	Nil	
	2	EM3617	Political Economics	6	0	0	6	1.0	Nil	
	1	EM3618	Applied Econometrics	6	0	0	6	1.0	EM3518	
IV	2	EM3619	Economics Sociology					1.0	Nil	
				6	0	0	6			



B. Choice Based Credit System (CBCS)

Choice Based Credit System (CBCS) is a versatile and flexible option for each student to achieve his target number of credits as specified by the UGC and adopted by our university.

The following is the course module designed for the B.A. (H) (Economics) program:

Core competency: Students will acquire core competency in Economics and in allied subject areas.

Program/Discipline Specific Elective Course (DSEC):

Skilled communicator: The course curriculum incorporates basics and advanced training in order to make a graduate student capable of expressing the subject through technical writing as well as through oral presentation.

Critical thinker and problem solver: The course curriculum also includes components that can be helpful to graduate students to develop critical thinking ability by way of solving problems/numerical using basic & advance knowledge and concepts of Economics.

Sense of inquiry: It is expected that the course curriculum will develop an inquisitive characteristic among the students through appropriate questions, planning and reporting experimental investigation.

Skilled project manager: The course curriculum has been designed in such a manner as to enabling a graduate student to become a skilled project manager by acquiring knowledge about mathematical project management, writing, planning, study of ethical standards and rules and regulations pertaining to scientific project operation.

Ethical awareness/reasoning: A graduate student requires understanding and developing ethical awareness/reasoning which the course curriculums adequately provide.

Lifelong learner: The course curriculum is designed to inculcate a habit of learning continuously through use of advanced ICT technique and other available techniques/books/ journals for personal academic growth as well as for increasing employability opportunity.

Value Added Course (VAC): A value added audit course is a non-credit course which is basically meant to enhance general ability of students in areas like soft skills, quantitative aptitude and reasoning ability - required for the overall development of a student and at the same time crucial for industry/corporate demands and requirements. The student possessing these skills will definitely develop acumen to perform well during the recruitment process of any premier organization and will have the desired confidence to face the interview. Moreover, these skills are also essential in day-to-day life of the corporate world. The aim is to nurture every student for making effective communication, developing aptitude and a general reasoning ability for a better performance, as desired in corporate world. There shall be four courses of Aptitude in Semester I, II, III & IV semesters and two courses of Soft Skills in III & IV Semesters and will carry no credit, however, it will be compulsory for every student to pass these courses with minimum

45% marks to be eligible for the certificate. These marks will not be included in the calculation of CGPI. Students have to specifically be registered in the specific course of the respective semesters.



Skill Enhancement Course: This course may be chosen from a pool of courses designed to provide value-based and/or skill-based knowledge.

Generic/Open Elective Course (OE): Open Elective is an interdisciplinary additional subject that is compulsory in a program. The score of Open Elective is counted in the overall aggregate marks under Choice Based Credit System (CBCS). Each Open Elective paper will be of 3 Credits in III, IV and VI semesters. Each student has to take Open/Generic Electives from department other than the parent department. Core / Discipline Specific Electives will not be offered as Open Electives.

Non CGPA/ Audit Course (NCAC): This is a compulsory course but not included in the CGPA calculations and will be of 2 credits. Each student od B.A. (h) Economics Program has to compulsorily pass the Environmental Studies and Human values & professional Ethics and Disaster Management..

C. Program Outcomes of Bachelor of Arts (Hons) Economics

PO 1	Critical Thinking	Take informed decisions after acknowledging the assertions that guide our thinking and behavior, evaluating the degree to which these assumptions are true and defensible, and considering our concepts and decisions (intellectual, organizational, and personal) from various viewpoints.
PO 2	Effective Communication	Make sense of the world by connecting people, ideas, books, media, and technology. Speak, read, write, and listen clearly in person and through electronic media in English and one Indian language.
PO 3	Social Interaction	Generate other people's opinions, resolve conflicts, and aidin group decision-making.
PO 4	Effective Citizenship	Demonstrate the ability to act with informed awareness of concerns, care about equity in national development, and engage in civic life through volunteering.
PO 5	Ethics	Recognize different value systems including your own, understand the moral dimensions of your decisions, and accept responsibility for them.
PO 6	Environment and Sustainability	Recognize the problems with sustainable development and environmental settings.
PO 7	Self-directed and Life-long Learning	Develop the capacity for independent, ongoing learning inthe context of socio-technical transformations.
PO 8	Coping Strategies	Empower the students in dealing with issues and problemsof self and others.
PO 9	Research abilities	Apprise with methodological intricacies in research and application.
PO 10	Taking up Challenges	Capable of accepting the challenges of individual and grouplife.



D. Program Specific Outcomes (PSO's):

PSO1: Identify, formulate, review research literature, and analyze complex engineering problems reaching substantiated conclusions using first principles of management and sciences

PSO2: Use research-based knowledge and research methods including design of experiments, analysis and interpretation of data, and synthesis of the information to provide valid conclusions.

PSO3: Create, select, and apply appropriate techniques, resources, and modern management and IT tools including prediction and modeling to complex business activities with an understanding of the limitations.

E. Program Educational Objectives (PEO's)

PEO1. To develop understanding on various kinds of research, objectives of doing research, research process, research designs and sampling.

PEO2. They will have basic knowledge on qualitative research techniques.

PEO3. They will have an adequate knowledge on measurement & amp; scaling techniques as well as the quantitative data analysis.

PEO4. They will have a basic awareness of data analysis-and hypothesis testing procedures.

F. Pedagogy & Unique practices adopted:

"Pedagogy is the method and practice of teaching, especially for teaching an academic subject ortheoretical concept". In addition to conventional time-tested lecture method, the institute will emphasize on experiential learning:

Role Play & Simulation: Role- play and simulation are forms of experiential learning. Learners take on different roles, assuming a profile of a character or personality, and interact and participate in diverse and complex learning settings. Role-play and simulation function as learning tools for teams and groups or individuals as they "play" online or face-to-face. They alter the power ratios in teaching and learning relationships between students and educators, as students learn through their explorations and the viewpoints of the character or personality they are articulating in the environment. This student-centered space can enable learner-oriented assessment, where the design of the task is created for active student learning. Therefore, role- play & simulation exercises such as virtual share trading, marketing simulation etc. are being promoted for the practical-based experiential learning of our students.



Video Based Learning (VBL) & Learning through Movies (LTM): These days technology has taken a front seat and classrooms are well equipped with equipment and gadgets. Video-based learning has become an indispensable part of learning. Similarly, students can learn various concepts through movies. In fact, many teachers give examples from movies during their discourses. Making students learn few important theoretical concepts through VBL & LTM is a good idea and method. The learning becomes really interesting and easy as videos add life to concepts and make the learning engaging and effective. Therefore, our institute is promoting VBL & LTM, wherever possible.

Field/Live Projects: The students, who take up experiential projects in companies, where senior executives with a stake in teaching guide them, drive the learning. All students are encouraged todo some live project other their regular classes.

Industrial Visits: Industrial visit are essential to give students hand-on exposure and experience of how things and processes work in industries. Our institute organizes such visits to enhance students' exposure to practical learning and work out for a report of such a visit relating to their specific topic, course or even domain.

MOOCs: Students may earn credits by passing MOOCs as decided by the college. Graduate level programs may award Honors degree provided students earn prerequisite credits through MOOCs. University allows students to undertake additional subjects/course(s) (In-house offered by the university through collaborative efforts or courses in the open domain by various internationally recognized universities) and to earn additional credits on successful completion of the same. Each course will be approved in advance by the University following the standard procedure of approval and will be granted credits as per the approval. Keeping this in mind, University proposed and allowed a maximum of two credits to be allocated for each. MOOC courses. In the pilot phase it is proposed that a student undertaking and successfully completing a MOOC course through only NPTEL could be given 2 credits for each MOOC course.

For smooth functioning and monitoring of the scheme the following shall be the guidelines for MOOC courses, Add-on courses carried out by the College from time to time.

- a) It will necessary for every student to take at least one MOOC Course throughout the programme.
- b) There shall be a MOOC co-ordination committee in the College with a faculty at the level of Professor heading the committee and all Heads of the Department being members of the Committee.
- c) The Committee will list out courses to be offered during the semester, which could be requested by the department or the students and after deliberating on all courses finalize a list ofcourses to be offered with 2 credits defined for each course and the mode of credit consideration of the student. The complete process shall be obtained by the College before end of June and end of December for Odd and Even semester respectively of the year in which the course is being offered. In case of MOOC course, the approval will be valid only for the semester on offer.
- d) Students will register for the course and the details of the students enrolling under the course along with the approval of the Vice Chancellor will be forwarded to the Examination department within fifteen



days of start of the semester by the Coordinator MOOC through the Principal of the College.

- e) After completion of MOOC course, Student will submit the photo copy of Completion certificate of MOOC Course to the Examination cell as proof.
- f) Marks will be considered which is mentioned on Completion certificate of MOOC Course.
- g) College will consider the credits only in case a student fails to secure minimum required credits then the additional subject(s) shall be counted for calculating the minimum credits required for the award of degree.

Special Guest Lectures (SGL) & Extra Mural Lectures (EML): Some topics/concepts need extra attention and efforts as they either may be high in difficulty level or requires experts from specific industry/domain to make things/concepts clear for a better understanding from the perspective of the industry. Hence, to cater to the present needs of industry we organize such lectures, as part of lecture-series and invite prominent personalities from academia and industry from time to time to deliver their vital inputs and insights.

Student Development Programs (SDP): Harnessing and developing the right talent for the right industry an overall development of a student is required. Apart from the curriculum teaching various student development programs (training programs) relating to soft skills, interview skills, SAP, Advanced excel training etc. that may be required as per the need of the student and industry trends, are conducted across the whole program. Participation in such programs is solicited through volunteering and consensus.

Industry Focused programmes: Establishing collaborations with various industry partners to deliver the programme on sharing basis. The specific courses are to be delivered by industry experts to provide practice-based insight to the students.

Special assistance program for slow learners & fast learners: write the note how would you identify slow learners, develop the mechanism to correcting knowledge gap. Terms of advance topics what learning challenging it will be provided to the fast learners.

Induction program: Every year 3 weeks induction program is organized for 1st year students and senior students to make them familiarize with the entire academic environment of university



including Curriculum, Classrooms, Labs, Faculty/ Staff members, Academic calendar and various activities.

Mentoring scheme: There is Mentor-Mentee system. One mentor lecture is provided per week in a class. Students can discuss their problems with mentor who is necessarily a teaching faculty. In this way, student's problems or issues can be identified and resolved.

Competitive exam preparation: Students are provided with one class in every week for GATE/Competitive exams preparation.

Extra-curricular Activities: organizing & participation in extracurricular activities will be mandatory to help students develop confidence & face audience boldly. It brings out their leadership qualities along with planning & organizing skills. Students undertake various cultural, sports and other competitive activities within and outside then campus. This helps them build their wholesome personality.

Career & Personal Counseling: - Identifies the problem of student as early as possible and gives time to discuss their problems individually as well as with the parents. Counseling enables the students to focus on behavior and feelings with a goal to facilitate positive change. Its major role lies in giving: Advice, Help, Support, Tips, Assistance, and Guidance.

Participation in Flip Classes, Project based Learning (A2 Assignment), Workshops, Seminars & writing & Presenting Papers: Departments plan to organize the Flip Classes, Project based Learning (A2 Assignment), workshops, and Seminars & Guest lecturers time to time on their respective topics as per academic calendar. Students must have to attend these programs. This participation would be count in the marks of general Discipline & General Proficiency which is the part of course scheme as non-credit course.

Formation of Student Clubs, Membership & Organizing & Participating events: Every department has the departmental clubs with the specific club's name. The entire student's activity would be performed by the club. One faculty would be the coordinator of the student clubs & students would be the members with different responsibility.

Capability Enhancement & Development Schemes: The Institute has these schemes to enhance the capability and holistic development of the students. Following measures/ initiatives are taken up from time to time for the same: Career Counseling, Soft skill development, Remedial Coaching, Bridge Course, Language Lab, Yoga and Meditation, Personal Counseling

Library Visit & Utilization of QLRC: Students may visit the library from morning10 AM to evening 8 PM. Library created its resources Database and provided Online Public Access Catalogue (OPAC) through which users can be accessed from any of the computer connected in the LAN can know the status of the book. Now we are in process to move from OPAC toKOHA.



Detailed Syllabus (Semester wise /course wise) SEMESTER 1 Year -1

EM3101		LTPC
	Title: Computer Applications in Business	3024
Version No.	1.0	1
Course	Nil	
Prerequisites		
Objectives	The basic objective of this course is to provide fundamental knowledge to develop Computer skills among students.	
Unit No.	Unit Title	No. of hours (per Unit)
Unit I	Introduction to Computers	8
Memories and Binary	eristics, Advantages, Types and Applications of computers, Input/output Devices, Computers System.	outer
Unit II	Introduction to Windows	7
	ication Windows, Concept of window, Types of Windows, Windows as an Operating S	ystem,
	unctioning. User interfaces- CUI and GUI.	
Unit III	Internet & Its Usage	6
	net, Introduction to Internet, Growth of Internet, ISP, Anatomy of Internet, World Wide sage of Internet to Society and Search Engines.	Web,
Unit IV	Introduction to essential tools: MS Word & PowerPoint	13
	Processing and power point: Concept, features, mail merge, header and footers, Practic oduction to power point and its feature, preparation of power point presentation, Role of	
Unit V	Spread Sheet & its Business Application	10
	rel: Introduction to Spreadsheet Concepts and its feature, Editing, Inserting, Deleting War and Preparing chart.	ork Sheets.
Text Books	 Sanjay Saxena, A First Course in Computers, Vikas Publishing House, New Delhi Pradeep K. Sinha and Preeti Sinha, Foundation of Computing, BPB, Publication. 	
Reference Books	Microsoft Office Home and Student 2010, Joyce Cox, Microsoft Press.	
	2. PC Software for Windows, R.K. Taxali, Tata Mc Graw Hill, Golgotia	
	Publications, latest edition.	
7.7.0	3. V. Rajaraman, Introduction to Information Technology, PHI. New Delhi.	
Mode of Evaluation	Internal and External Examinations	
Recommendation by Board of Studies on	03-03-2018	
Date of approval by the Academic Council	06-11-2018	



Course Outcome For EM3101

Unit-wise Course Outcome	Descriptions	Level	Employability (Em)/ Skill(S)/ Entrepreneurship (En)/ None (Use , for more than One)
CO1	Students will gain knowledge on programming and write pseudo-code.	2	None
	Students will be able to choose the right data representation formats based on the requirements of the problem.	2	None
CO3	Students will be able to use the comparisons and limitations of the various programming constructs and choose the right one for the task in hand.	3	S
CO4	Students will be able to write the program on a computer, edit, compile, debug, correct, recompile and run it.	3	S
	Students will be able to identify tasks in which the numerical techniques learned are applicable and apply them to write programs, and hence use computers effectively to solve the task.	3	S

CO-PO Mapping for EM3101

Course Outcomes	Progr	Program Outcomes (Course Articulation Matrix (Highly Mapped- 3, Moderate- 2, Low-1, Notrelated-0) Program Specific Outcomes											
	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PSO 1	PSO 2	PSO 3
CO 1	3	0	0	3	1	1	0	2	2	3	0	3	0
CO 2	2	3	0	2	2	1	1	1	0	0	2	1	2
CO 3	3	2	2	2	2	2	3	0	0	2	1	0	0
CO 4	2	1	2	3	2	2	3	1	2	2	0	2	2
CO 5	0	0	0	0	2	1	0	3	1	1	2	2	2
Avg	2	1.2	1.4	2	1.8	1.4	1.4	1.4	1	1.6	1	1.6	1.2



PS3101	Title: Human Values & Ethics	LTPC						
155101	Titte. Human values & Ethies	$\begin{array}{cccccccccccccccccccccccccccccccccccc$						
Version No.	1.0	2 0 0 2						
Course	Nil							
Prerequisites								
Objectives	To facilitate the development of a holistic perspective among students							
Objectives	towards life and profession as well as towards happiness and prosperity							
	based on a correct understanding of the human reality and the rest of							
	Existence							
Unit No.	Unit Title	No. of hours						
Cint i (o)		(per Unit)						
Unit I	Introduction of Value Education	5						
1. Understanding th	e need, basic guidelines, content and process of Value Education							
_	uman Aspirations: Self Exploration—its content and process							
	Understanding Harmony - Harmony in Myself!	5						
	n being in harmony; as a co-existence of the sentient, attitude and its importance	e in relationship						
_	e needs, characteristics and activities of Self ('1')	топошр.						
	Understanding Harmony in the Family and Society 5							
	family; values in human relationships; meaning of Nyaya, Trust (Vishwa	as) and Pagnagt						
-		, 1						
as comprehensive H	undation values of relationships.2. Harmony in society:Samadhan, Samridhi, Ab	may, Sam-astitva						
-	-	4						
	Understanding Harmony in the Nature and Existence	4						
_	e harmony in Nature: Interconnectedness among the four orders of nature-recyc	clability and self-						
	2. Natural perception of harmony at all levels of existence							
Unit V	Understanding Professional Ethics	5						
1. Competencies in	•							
a) Ability to utili	ze the professional competence for augmenting universal human order							
b) Ability to iden	tify the scope and characteristics of people-friendly and eco-friendly production	systems,						
c) Ability to ide	ntify and develop appropriate technologies and management patterns for above	production						
systems.								
Text Books	1. R.R Gaur, R Sangal, G P Bagaria, A foundation course in Human Va	lues and						
	Professional Ethics, Excel books, New Delhi							
Reference Books	1. A.N. Tripathy, Human Values, New Age International Publishers							
	2. B L Bajpai, Indian Ethos and Modern Management, New Royal Book	Co., Lucknow						
	2. B P Banerjee, Foundations of Ethics and Management, Excel Books							
Mode of	Internal and External Examinations							
Evaluation								
Recommendation								
by Board of	03-03-2018							
Studies on								
Date of approval								
by the Academic	06-11-2018							
Council								



Course Outcome For PS3101

Course Outcome Fo	7 1 50 10 1		
Unit-wise Course Outcome	Descriptions	BL Level	Employability (Em)/ Skill(S)/ Entrepreneurship (En)/ None (Use, for more than One)
CO1	Students will understand the significance of value inputs in a classroom, distinguish between values and skills, understand the need, basic guidelines, content and process of value education, explore the meaning of happiness and prosperity and do a correct appraisal of the current scenario in the Society	2	None
CO2	Distinguish between the Self and the Body, understand the meaning of Harmony in the Self the Coexistence of Self and Body.	2	S
CO3	Understand the value of harmonious relationship based on trust, respect and other naturally acceptable feelings in human relationships and explore their role in ensuring a harmonious society.	2	S
CO4	Understand the harmony in nature and existence, and work out their mutually fulfilling participation in the nature.	2	S
CO5	Distinguish between ethical and unethical practices, and start working out the strategy to actualize a harmonious environment wherever they work.	2	S

CO-PO Mapping for PS3101

Course Outcomes	_	Program Outcomes (Course Articulation Matrix (Highly Mapped- 3, Moderate- 2, Low-1, Notrelated-0) Program Specific Outcomes											
	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO1 0	PSO 1	PSO2	PSO3
CO 1	0	0	2	0	1	2	2	1	1	1	2	0	1
CO 2	2	2	1	2	1	0	1	1	1	1	2	1	1
CO 3	2	1	2	0	3	1	0	2	2	1	0	3	1
CO 4	2	0	0	2	3	2	2	2	2	3	1	2	3
CO 5	1	2	3	1	3	2	3	1	0	0	2	2	0
Avg	1.4	1	1.6	1	2.2	1.4	1.6	1.4	1.2	1.2	1.4	1.6	1.2



EM3102	Title: Principles of Microeconomics	L T PC					
Version No.	1.0	3 1 04					
Course	Nil						
Prerequisites							
Objectives	The objective is to develop the conceptual foundations and analytical methods used in micro economics and to expose the students to the basic principles of Micro economic environment.						
Unit No.	Unit Title	No. of hours					
		(per Unit)					
Unit I	Exploring Micro economics and Consumer Behaviors	12					
consumer behavior: Cardinal Law of Demand, in	nics? the economic problem: scarcity and choice, central problems, concept of I and Ordinal Utility analysis and Consumer's equilibrium. Indifference curve an ferior goods and giffen goods, derivation of demand curve. Elasticity of demand elasticities and their measurements.	and its properties,					
Unit II	Producer's behavior and Supply	10					
Factor substitution; least of supply- supply fun	ns; Production function; law of variable proportions; returns to scale; characteristics cost combination of factors, Internal and external economies and diseconomies, ction, elasticity of supply and its measurement.	concept of					
Unit III	Cost Analysis and Revenue 8						
revenue:	ncepts of costs, short period costs and long period costs, Modern Theory of costs	s, Concepts of					
Unit IV	marginal revenue and their relationships, Break-even-analysis and its uses. Market structure and pricing theories	8					
	, Perfect Competition: Characteristics and assumptions, Price determinati	_					
competition, Equil Monopolistic com	librium of the firm and industry in the short period and the long period. Inpetition, price determination, Oligopoly: Characteristics, emergence of ve and non-collusive	mperfect Market:					
Unit V	Factor pricing and its theories	6					
Theory of factor pr Ricardian	ricing: Marginal productivity theory of distribution, Backward bending supply of rent, quasi-rent, net and gross interest, Theories of interest, Classical and neo	oclassical; Net					
Reference Books	 Samuelson, P.A. and W.D. Nordhaus, Economics, Tata McGraw Hill, N. Varian, H.R., Intermediate Microeconomics: A Modern Approach, East New Delhi. Henderson J. and R.E. Quandt, Microeconomic Theory: A Mathematica McGraw Hill, New Delhi. Heathfield and Wibe, An Introduction to Cost and Production Functions London 	st-West Press, al Approach,					



Mode of	Internal and External Examinations
Evaluation	
Recommendation	
by Board	03-03-2018
of Studies	
on	
Date of approval	
by the	06-11-2018
Academic	
Council	



Course Outcome For EM3102

	OF EINISTUZ	1	E 1 199 (E)/		
Unit-wise Course Outcome	Descriptions	BL Level	Employability (Em)/ Skill(S)/ Entrepreneurship (En)/ None (Use, for more than One)		
CO1	Understand the fundament of Microeconomic	2	None		
	concepts and get introduced to the framework for				
	learning about consumer behavior and analyzing				
	consumer decisions.				
CO2	To study about firms behavior and their decisions	2	S		
	about optimal production considering the different				
	laws of production.				
CO3	Understand the role played by cost and revenue in	2	S		
	long run and short run and thus direct firms and				
	industries for minimization of cost and				
	maximization of revenue.				
CO4	Analyze the performance of firms under different	4	En		
	market structures and apply the knowledge in				
	determination of optimum level of output at a				
	optimum price level.				
CO5	Analyze how factors prices were determined in	4	None		
	factor input markets, leads to selection of best				
	factor input by the producer.				

CO-PO Mapping for EM3102

Course Outcomes	Progr		comes ()	Program Specific Outcomes								
	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO1 0	PSO 1	PSO2	PSO3
CO 1	3	0	1	3	0	3	2	3	3	0	0	3	1
CO 2	1	2	0	3	1	1	3	2	3	3	1	1	1
CO 3	2	2	3	0	3	3	0	1	1	1	1	1	1
CO 4	0	2	2	0	3	1	3	3	3	0	2	3	3
CO 5	0	1	1	3	0	3	3	1	2	3	2	0	0
Avg	1.2	1.4	1.4	1.8	1.4	2.2	2.2	2	2.4	1.4	1.2	1.6	1.2



EM3103	Title: Economic History of India	LTPC
		4004
Version No.	1.0	
Course	Nil	
Prerequisite		
S		
Objectives	After completing the course ,Students are expected to have good	
	understanding	
	Of the Indian Economy.	
UnitNo.	Unit Title	No. of hours
		(perUnit)
Unit I	Structure of Indian Economy	6
Basic Features, Huma	nResourceDevelopment,Broaddemographicfeatures,Populationandeconomicde	evelopment,
Growth and structural	changes in Gross Domestic Product, Five Year Plans: An overview, NITI Aay	og: Objectives
and functions.	•	
Unit II	Agriculture and Industry	10
Causes of Flow produ	ictivity Indian agriculture, Institutional and Technological reforms, Agricultura	al Finance And
marketing. Industrial		
UnitIII	Industrial Policy and Foreign trade	12
New Industrial policy	Privatization and disinvestment debate, Micro Small and Medium enterprises	problems
andprospects,Foreign	Trade: Trends, composition and direction; Causes and effects of persistent deficitint	nebalanceof
Payments ; Measures a	adopted by the government to correct the deficit in Balance of Payments before	and after 1991.
UnitIV	Public Finance	8
India'staxsystem;Rati	oofdirectandindirecttaxes; Taxreformssince 1991; Goods and Services Tax (GST): for the state of	eaturesand
progress; Public expe	nditure in India -classification and trends; Public debt in India classification, tr	ends and
	debt and fiscal deficit in India.	
UnitV	Market	8
Trends in agricultural	production and productivity; Factors determining productivity; Institutional and	nd
technologicalreforms;	Capital formation; Agricultural pricepolicy; Foodsecurity and Public Distribution Sys	tem;Ruralcr
editandrole		
ofNABARD,		
TextBooks	Agarwal A.N: India Economy: Wishwa Prakashan	
	2. Bhalla,G.S.: 'Indian Agricultures ince Independence (2008), NBT. New Delhi	
Reference Books	1.Kapila.:IndianEconomysinceIndependence Academic foundation, New Delh	ni
Mode of Evaluation	Internal and External Examinations	
Recommendation		
by Board of	03-03-2018	
Studies on		
Date of approval		
by the Academic	06-11-2018	
Council		



Course Outcome For EM3103

Unit-wise Course Outcome	Descriptions		Employability (Em)/ Skill(S)/ Entrepreneurship (En)/ None (Use, for more than One)
CO1	Develop ideas of the basic characteristics of Indian economy, its potential on natural resources.	2	S
CO2	Understand agriculture as the foundation of economic growth and development.	2	S
CO3	Analyze the impact of new Industrial policies and foreign policies on the economy of India.	4	S
CO4	Understand the revolution in the taxation system of India and Attain the advantages and knowledge of public investments and other government expenditures.	3	S
CO5	Analyze the progress and changing nature of agricultural sector and its contribution to the economy as a whole	4	S

CO-PO Mapping for EM3103

Course Outcomes	Progr	am Out	comes ()	Program Specific Outcomes								
	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO1 0	PSO 1	PSO2	PSO3
CO 1	1	0	3	1	3	3	2	3	0	0	0	2	1
CO 2	0	2	2	0	3	2	2	3	2	2	1	3	2
CO 3	2	1	3	3	0	0	3	1	1	3	2	0	0
CO 4	2	0	3	3	1	3	1	0	2	3	1	0	0
CO 5	2	2	0	2	1	3	2	2	1	2	1	2	3
Avg	1.4	1	2.2	1.8	1.6	2.2	2	1.8	1.2	2	1	1.4	1.2



EG3101	Title: Communicative English	LTPC						
		3 1 0 4						
Version No.	1.0							
Course	Nil							
Prerequisites								
Objectives	The aim of this course is to introduce students to the theory, fundamentals and							
	tools of communication and to develop in them vital communication skills							
Unit No.	Unit Title	No. of						
		hours						
Unit I	Basics of Communication	(per Unit)						
Communication Pr	ocess; Language as a Tool of Communication; Levels of Communicatio	n, Flow of						
Communication-ver	tical, horizontal, diagonal; Communication Networks.							
Unit II	Types Of Communication	7						
	nication; Technology in Communication; Verbal and Non-verbal Communication	n- Kinesics,						
	guistics: Spoken and written; Formal and Informal Style; Use of bias free English.	•						
Unit III	Grammar and Punctuation	7						
Parts of Speech: Sul	Subject-Verb Agreement, Parallelism; Common Errors; Punctuation and Sentence Con							
Unit IV	Reading and Writing							
Reading Compreher	nsion; Précis-writing; Note making; Summarizing and Paragraph writing:							
Unit V	Listening	7						
Active and Passive	Listening; Types of listening; Importance Note-taking; Writing a Review; Dialog	gue; Listening						
comprehension.								
Text Books	1. Malti Agarwal, Basic Technical Communication, Krishna Prakashan M	Iedia (P)Ltd,						
	Meerut.							
Reference Books	1. Fluency in English - Part II, Oxford University Press.							
	2 Vandana R Singh, The Written Word, Oxford University Press, New De	elhi.						
	3. KK Ramchandran, et al, Business Communication, Macmillan, New Del	lhi.						
	4. Swati Samantaray, Business Communication and Communicative English	ı, Sultan						
	Chand, New Delhi.							
Mode of	Internal and External Examinations							
Evaluation								
Recommendation								
by Board of	03-03-2018							
Studies on								
Date of approval								
by the Academic	06-11-2018							
Council								



Course Outcome For EG3101

Course Outcome re	A LOCIVI		,
Unit-wise Course Outcome	Descriptions		Employability (Em)/ Skill(S)/ Entrepreneurship (En)/ None (Use, for more than One)
	To enhance the learner's communication skills by giving adequate exposure in LSR listening, speaking, reading and writing skills and the related sub skills.	2	S
CO2	To help the learners recognize and operate in various styles and registers in English.	2	S
CO3	To help the learner get rid of his present flaws and mistakes in pronunciation and grammar.	2	S
	To help the learner identify and repair the voids in his present vocabulary and pronunciation targeting those specific array of words which create a barrier in his thought process.	2	S
CO5	To impart better writing skills by sensitizing the learners to the dynamics of effective writing.	2	S

CO-PO Mapping for EG3101

Course Outcomes	Prograr	Program Outcomes (Course Articulation Matrix (Highly Mapped- 3, Moderate- 2, Low-1, Not related-0)											Program Specific Outcomes		
	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PSO1	PSO2	PSO3		
CO 1	1	0	1	2	1	3	1	3	2	3	1	3	3		
CO 2	1	2	1	2	0	2	1	0	3	0	1	0	3		
CO 3	1	1	2	0	3	3	2	2	2	1	3	1	3		
CO 4	3	0	2	1	3	3	2	3	2	0	3	3	3		
CO 5	1	2	3	0	3	0	3	2	0	2	2	2	3		
Avg	1.4	1	1.8	1	2	2.2	1.8	2	1.8	1.2	2	1.8	3		



PS3106	Title: Fundamental Psychological Processes I	LTPC					
		3 1 0 4					
Version No.	1.0						
Course Prerequisites	Nil						
Objectives	To help students acquire an appreciation for psychological concepts and an understanding of basic principles of human behavior.						
Unit No.	Unit Title	No. of hours (per Unit)					
Unit I	Introduction	12					
psychology, research m Basis of Cognition: Stru	meaning and definition, the domains of Cognitive Psychology, a brief historiethods in cognitive psychology, paradigms of cognitive psychology. Neuroture and functions of neuron, structures and functions of central and automoudying the functions of the brain. Perception	ropsychological					
	he raw materials of understanding (brief description), the focus of our attent	ion the					
organizing principles, p motion perception.	erceptual constancies and illusions, some key perceptual processes- pattern	and distance,					
Unit III	Learning	12					
of learning, a cognitive consequences, basic pr		earning based on g, the cognitive					
Text Books	 Galloti, K.M. Cognitive Psychology: In and Out of Laboratory (3rd Edition), USA, Thomson Wadsworth. Baron, R. A. Psychology (5th Edition), New Delhi, Pearson Education. 						
Reference Books							
Mode of Evaluation	Internal and External Examinations						
Recommendation by Board of Studies on	03-03-2018						
Date of approval by the Academic Council	06-11-2018						



Course Outcome For PS3106

Unit-wise Course Outcome	Descriptions	BL Level	Employability (Em)/ Skill(S)/ Entrepreneurship (En)/ None (Use, for more than One)
	Students will understand basic psychological concepts: domains, history and scope of psychology	2	Em
	Students will study about neuropsychology and brain structure and how they are involved with cognitive psychology.	2	S
	Students will understand how psychology is different from philosophy and considered as science.	2	S
CO4	Students will be able to recognize and apply various perception and attention theories	2	En
CO5	Students will be able to apply different motivational theories to day to day life.	1	None

CO-PO Mapping for PS3106

Course Outcomes	Progr	Program Outcomes (Course Articulation Matrix (Highly Mapped- 3, Moderate- 2, Low-1, Notrelated-0)										Program Specific Outcomes		
	PO 1	PO 2	PO 3	PO4	PO 5	PO 6	PO7	PO 8	PO 9	PO1 0	PSO 1	PSO 2	PSO 3	
CO 1	1	0	0	3	1	1	1	2	2	3	2	3	0	
CO 2	3	2	2	2	1	3	0	2	3	3	0	1	3	
CO 3	0	2	1	3	2	0	3	3	2	2	2	3	0	
CO 4	1	2	0	3	2	1	3	0	0	1	1	3	2	
CO 5	2	1	2	0	3	2	3	3	0	2	3	1	3	
Avg	1.4	1.4	1	2.2	1.8	1.4	2	2	1.4	2.2	1.6	2.2	1.6	



SEMESTER 2 YEAR-1

CY3205	Title: Environmental Studies	LTPC
		2 0 0 2
Version No.	1.0	
Course	Nil	
Prerequisites		
Objectives	Creating awareness among engineering students about the importance of	
	environment, the effect of technology on the environment and ecological	
	balance is the prime aim of the course.	
Unit No.	Unit Title	No. of hours
		(per Unit)
Unit I	Introduction to Environmental studies & Ecosystems	5

Multidisciplinary nature of environmental studies, Scope and importance, Need for public awareness. Concept, Structure and function of an ecosystem, Energy flow in an ecosystem: food chains, food webs and ecological pyramids. Examples of various ecosystems such as: Forest, Grassland, Desert, Aquatic ecosystems (ponds, streams, lakes, rivers, oceans and estuaries).

Unit II Natural Resources: Renewable & Non- renewable resources 5

Land as a resource, land degradation, landslides (natural & man-induced), soil erosion and desertification. Forests & forest resources: Use and over-exploitation, deforestation. Impacts of deforestation, mining, dam building on environment and forests. Resettlement and rehabilitation of project affected persons; problems and concerns with examples. Water resources: Use and over-exploitation of surface and ground water, floods, drought, conflicts over water (international & inter-state).

Food resources: World food problems, changes caused by agriculture and overgrazing, effects of modern agriculture, fertilizer-pesticide problems with examples. Energy resources: Renewable and non renewable energy sources, use of alternate energy sources and growing energy needs.

Unit III Biodiversity & Conservation 5

Levels of biological diversity: genetic, species and ecosystem diversity. Biogeographic zones of India. Ecosystem and biodiversity services. Biodiversity patterns and global biodiversity hot spots, India as a mega-biodiversity nation; Endangered and endemic species of India. Threats to biodiversity: Habitat loss, poaching of wildlife, man-wildlife conflicts, biological invasions. Conservation of biodiversity: In-situ and Ex-situ conservation of biodiversity.

Unit IV Environmental Pollution 4

Environmental pollution and its types. Causes, effects and control measures of:a) Air pollution b) Water pollution – freshwater and marine c) Soil pollution d) Noise pollution e) Thermal pollution. Nuclear hazards and human health risks, Solid waste management: Control measures of urban and industrial waste.

Unit V Environmental Policies & Practices 5

Concept of sustainability and sustainable development. Water conservation & watershed management. Climate change, global warming, acid rain, ozone layer depletion. Disaster management: floods, earthquake, cyclones and landslides.

Wasteland reclamation. Environment Protection Act. Air (Prevention and Control of Pollution) Act. Water (Prevention and control of Pollution) Act, Wildlife Protection Act, Forest Conservation Act, Issues involved in enforcement of environmental legislation. Environment: rights and duties. Population growth.

Field work



☐ Visit to a local polluted site-Urban/Rural/Industrial/Agricultural.										
☐ Study of simple e	☐ Study of simple ecosystems-pond, river, hill slopes, etc.									
Text Books	Bharucha. E, Textbook of Environmental Studies for Undergraduate Courses,									
Reference Books										
	1. Kaushik Anubha, Kaushik CP, Perspectives in Environmental Studies New Age									
	Publication.									
	2. Rajagopalan, Environmental Studies from Crisis to Cure, Oxford University Press.									
Mode of	Internal and External Examinations									
Evaluation										
Recommendation										
by Board of	03-03-2018									
Studies on										
Date of approval										
by the Academic	06-11-2018									
Council										



Course Outcome For CY3205

Unit-wise Course Outcome	Descriptions	BL Level	Employability (Em)/ Skill(S)/ Entrepreneurship (En)/ None (Use, for more than One)
CO1	Students should be able to correlate the human population growth and its trend to the environmental degradation and develop the awareness about his/her role towards environmental protection and preventions.	2	None
CO2	Students should be able to understand the solutions related to environmental problems related to renewable & nonrenewable resources.	2	S
CO3	Students should be able to understand the importance of ecosystem and biodiversity and the method of conservation of biological diversity.	2	S
CO4	Students should be able to understand different components of the environment and their function and the effects of pollution on the environment and should be able to understand the concept of sustainable development.	2	En
CO5	Students should be able to correlate the human population growth and its trend to the environmental degradation and develop the awareness about his/her role towards environmental protection and preventions.	2	None

CO-PO Mapping for CY3205

Course Outcomes	Program Outcomes (Course Articulation Matrix (Highly Mapped- 3, Moderate- 2,Low-1, Not related-0)										Program Specific Outcomes		
	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO1 0	PSO 1	PSO 2	PSO 3
CO 1	0	2	1	0	3	3	1	2	3	3	2	2	0
CO 2	1	0	2	0	0	1	0	0	1	3	3	3	3
CO 3	3	3	1	3	2	1	2	2	2	3	2	2	0
CO 4	3	2	1	2	3	0	1	0	3	3	2	0	2
CO 5	3	0	0	1	2	2	2	3	3	0	1	0	3
Avg	2	1.4	1	1.2	2	1.4	1.2	1.4	2.4	2.4	2	1.4	1.6



EM3202	Title: Principles of Macroeconomics	LTPC						
		3 1 0 4						
Version No.	1.0							
Course	EM3102							
Prerequisites								
Objectives	The course aims to introduce the first year students to the concepts and approaches to the study of macroeconomics in the current century and develop the ability for objective reasoning about macroeconomic issues.							
Unit No.	Unit Title	No. of hours (per Unit)						
Unit I	Introduction to Macroeconomics and National Income Accounting	8						
circular flow; real ve	n macroeconomics; measurement of gross domestic product; income, expersus nominal GDP; price indices; national income accounting for an ope calculation of CPI, GDP deflator versus the CPI and real versus nominal into	n economy; the						
Unit II	Money and Banking system	7						
of monetary policy, B	quantity theory of money; determination of money supply and demand- cred tanking system in India- Functions of Commercial bank, functions of Central banks and central bank.							
Unit III	Theory of Income and Employment	7						
•	ncome and Employment, Aggregate Demand and Aggregate supply, Consusume, Saving function and propensity to save, unemployment and its type at and employment.	•						
Unit IV	Investment Theories	7						
Types of Investment,	Determination of Level of Investment. Classical, Keynesian and Jorgenso	n's Neoclassical						
• •	, Saving-Investment Equality. Multiplier and Accelerator: Concept of Multiplier							
Multiplier, Investmen	nt Multiplier, Government Expenditure Multiplier, Income determina	tion involving						
government expenditu	re and tax Multiplier, Leakages of Multiplier, Acceleration principle and Supe	er Multiplier.						
Unit V	Govt. Budget and Balance of Payment	7						
-	budgetary surplus and deficit, types of Budget deficit, Balance of payment and ecount and capital account in BOP.	its different						
Text Books	 Sloman, John, Economics, 6th Ed., Pearson Education. Heijdra,B.J. and F.V.Ploeg, . Foundations of Modern Macroeconomics, Oxford University Press, Oxford. 							
Reference Books	 Keynes, J.M.The General Theory of Employment, Interest and Money, N. London. Farmer, Roger.Macro economics, II Edition. ISBN. Lewis, M.K. and P.D. Mizan, Monetary Economics, Oxford University Delhi 							
Mode of Evaluation	Internal and External Examinations							
Recommendation by Board of Studies	03-03-2018							



on		
Date of approval by		
Date of approval by the Academic	06-11-2018	
Council		

Course Outcome For EM3202

Unit-wise Course Outcome	Descriptions	BL Level	Employability (Em)/ Skill(S)/ Entrepreneurship (En)/ None (Use, for more than One)
CO1	Students will learn about the concepts of macroeconomics and understand the meaning and components of national income.	2	Em
CO2	Student will understand the process of money creation by the banking system and the role of the central bank.	2	S
CO3	Interpret macroeconomic events using aggregate demand and aggregate supply model, describe the interrelationships among prices, income, and interest rates as they affect consumption, savings and investment.	3	S
CO4	Students can analyze the work of different multiplier in an economy.	4	S
CO5	Students will learn about different budgetary components of Budget.	2	S

CO-PO Mapping for EM3202

Course Outcomes	Program Outcomes (Course Articulation Matrix (Highly Mapped- 3, Moderate- 2, Low-1, Notrelated-0)										Program Specific Outcomes			
	PO 1	PO 2	PO 3	PO4	PO 5	PO 6	PO7	PO 8	PO 9	PO1 0	PSO1	PSO 2	PSO 3	
CO 1	2	0	3	1	3	1	1	2	1	3	2	3	0	
CO 2	0	2	2	1	0	1	0	2	3	3	0	1	3	
CO 3	0	1	3	2	2	3	3	3	2	2	2	3	0	
CO 4	3	0	3	2	3	2	3	0	2	1	1	3	2	
CO 5	2	2	0	3	2	3	3	3	3	2	3	1	3	
Avg	1.4	1	2.2	1.8	2	2	2	2	2.2	2.2	1.6	2.2	1.6	



EM3203	Title: Statistical Tools in Economics	LTPC				
		4 1 0 5				
Version No.	1.0					
Course	Nil					
Prerequisites						
Objectives	The objective of this course is to familiarize students with the basic statistical Tools to apply on quantitative &qualitative data to summarize and analyze information for decision making.					
UnitNo.	Unit Title	No. of hours (perUnit)				
Unit I	Introduction to Statistics	6				
llectionofdata, Class data, Questionnaire-	itationsofstatistics, usesofstatistics to business and industrial activities, Primary and seccification and tabulation of data, Diagrammatic and graphic representation of – Its characteristics and drafting.					
Unit II	Statistical Data and Descriptive Statistics	12				
alAveragesMode,M	Tendency: Mathematical Averages Including Arithmetic Mean, Properties and Applicate dian (and Other Partition Values Including Quartiles, Deciles, and Percentiles). Measure. Range, Quartile Deviation, Mean Deviation, Standard					
Unit III	Probability	11				
	ity,AdditionandMultiplicationrule,ConditionalProbabilityandBaye'sTheorem,Raon and Variance of a Random Variable.	ndom				
Unit IV	Simple Correlation and Regression Analysis	12				
Diagram, Pearson's Standard Errors, Ra	s:Meaning SimpleCorrelation;Linear Non-Linear,CausationandCorrelation,Scatte Coefficient of Correlation; Calculation and Properties (Proofs not required).Prob nk Correlation. Simple Regression Analysis: Principle of Least Squares and Regr	able and ession Lines.				
Unit V	Index Numbers and Time Series	11				
Index Number, Base	1. S.P.Gupta, Business Statistics, S.Chand & Sons, New Delhi.	ndex Numbers.				
	2. J.K. Thukral, Business Statistics, Taxman publication Ltd, New delhi.					
ReferenceBooks	1. D.N. Elhance, Fundamentals of Statistics, Kitab Mahal Publishers. 2. S.C. Sharma, Business Statistics, Arya Publishing Company.					
Mode of Evaluation	Internal and External Examinations					
Recommendation by Board ofStudieson	03-03-2018					
Date of approval by the Academic Council	06-11-2018					



Unit-wise Course Outcome	Descriptions	BL Level	Employability (Em)/ Skill(S)/ Entrepreneurship (En)/ None (Use, for more than One)
CO1	Analyze statistical data graphically using frequency distributions and cumulative frequency distributions.	4	Em
CO2	Analyze statistical data using measures of central tendency, dispersion and location	4	S
CO3	Use the basic probability rules and Translate real-world problems into probability models	3	S
	Calculate and interpret the correlation and regression between two or more variables. Employee the principles of linear regression and correlation, including least square method, predicting a particular value of Y for a given value of X and significance of the correlation coefficient.		S
CO5	Use the Index number concept to translate and solve real- word problem.	3	S

Course Outcomes	Prograi	Program Outcomes (Course Articulation Matrix (Highly Mapped- 3, Moderate- 2, Low-1, Not related-0)										Specific O	utcomes
	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PSO1	PSO2	PSO3
CO 1	1	2	3	3	2	0	0	1	2	1	2	0	2
CO 2	3	3	3	0	1	3	2	3	0	0	3	3	3
CO3	0	3	2	2	2	2	2	0	3	3	3	0	2
CO 4	1	3	0	3	2	3	0	1	0	1	0	2	0
CO 5	2	0	3	2	0	2	3	2	0	0	2	0	2
Avg	1.4	2.2	2.2	2	1.4	2	1.4	1.4	1	1	2	1	1.8



EM3204	Title: Business Environment	LTPC 4 0 0 4					
Version No.	1.0						
Course	Nil						
Prerequisites							
Objectives	The basic objective of the course is to develop understanding and provide						
o bjecu ves	knowledge about business environment to the management students and to						
	promote basic understanding on the concepts of Business Environment and to						
	enable them to realize the impact of environment on Business.						
UnitNo.	Unit Title	No. of					
Unitino.	Unit Title						
		hours (per Unit)					
Unit I	Introduction	(per Unit)					
External	cance and Nature of Business Environment, Types of environment, Interaction between	veen internal and					
	Cookniques for Environment Analysis Significance of Environment Ecroposting						
Unit II	Sechniques for Environment Analysis, Significance of Environment Forecasting.	10					
	Economic Environment						
	nandeconomicpolicies, Conceptof Capitalism, Socialism and Mixed Economy, Planning						
	ve, Niti Aayog, MRTP & FEMA Act, Planning Monetary Policy, Fiscal Policy, U						
	row than dits Impact on Business, Recent Development in New Economic Policy (1991) and the property of the p	antsimpacton					
Business.	DIW T ID 1	0					
Unit III	Politico-Legal Environment	9					
	weenBusinessandGovernment,EntrepreneurialRolesofGovernment,ConstitutionalProv	risionsaffecting					
	rer view of major laws affecting business, Social Responsibility of Business.						
Unit IV	Technological and Socio-Cultural Environment nvironment:FactorsInfluencingTechnologicalEnvironment,RoleandimpactofTechnologicalEnvironment	9					
Demographican	nnology-Channels, Methods and Limitations, Status of technology in India dSocio-CulturalEnvironment:SocialAudit— ortanceofCorporateGovernance,PopulationSize,FallingBirth Rate, Business and Socie.	ciety and					
Unit V	International Environment	8					
	nvestment, Foreign Institutional Investment, LPG model ,SEZ, EPZ,GATT/WTO as in India, Regulation of Foreign Trade and Disinvestment in Public Sector Units.	nd India: an					
Textbooks	1. K. Aswathappa, Essentials of Business Environment: Text, Cases & Exercises,	Himalaya					
	Publishing House.	-					
	2. Francis Cherunilam, Business Environment: Test and Cases, Himalaya Publishi	ng House.					
Reference Books	Reference 1 .V.Neelamegam, Business Environment, Vrinda Publications.						
ModeofEvaluat	Internal and External Examinations						
ion							
Recommend							
ation	03-03-2018						
byBoardofS tudieson							
Date of approval	06-11-2018						
bytheAcadem icCouncil							



Unit-wise Course Outcome	Descriptions	Descriptions BL Level				
CO1	To understand the concept, significance, and nature of the Business Environment.	2	Em			
CO2	To learn different economic systems, economic policies and NITI Aayog.	2	S			
CO3	Summarizing the relationship between business and government, constitutional provision affecting the business, etc.	3	S			
CO4	Define the factors influencing the technological environment, role and impact of technology on business.	2	S			
CO5	To learn foreign direct investment, foreign institutional investment, LPG model, etc.	2	S			

Course	Pi	Program Outcomes (Course Articulation Matrix (Highly Mapped- 3, Moderate- 2, Low-1, Notrelated-0) Program Sp Outcome									ecific es		
Outcomes	PO1	PO2	PO 3	PO4	PO5	PO 6	PO7	PO8	PO 9	PO1 0	PSO 1	PSO 2	PSO 3
CO 1	1	2	3	0	2	0	0	2	2	1	2	0	2
CO 2	3	3	1	2	1	3	2	2	0	0	3	3	3
CO 3	1	3	2	0	2	2	2	3	3	3	3	0	2
CO 4	1	3	3	2	2	3	0	3	0	1	0	2	0
CO 5	0	0	2	1	0	2	3	3	0	0	2	0	2
Avg	1.2	2.2	2.2	1	1.4	2	1.4	2.6	1	1	2	1	1.8



PS3206	Title: Fundamental Psychological Processes-II	LTPC				
		3 1 0 4				
Version No.	1.0					
Course	PS3108					
Prerequisites						
Objectives						
Unit No.	Unit Title	No. of hours (per Unit)				
Unit I-	Memory	12				
	Shiffrin model, working memory, episodic memory, semantic memory, procedu decay, due to interference, forgetting and retrieval inhibition.	ral memory.				
Unit II	Intelligence	12				
	es of intelligence- Gardner, Sternberg, Das and Naglieri, measurement of intell l basis of intelligence, heredity, environment and intelligence.	igence, the				
Unit III	Motivation & Emotion	12				
theory, Expectancy for achievement, ne	tition of Motivation, Need, Drive and Incentives. Theories of motivation- Drive the theory, Maslow' sneed hierarchy theory. Forms of human needs and motivation- ed for affiliation, need for power. Emotion: Nature and Definition of Emotion, Brie mes-Lange and Schachter-Singer theories of emotion; Expression of emotion. 1. Baron, R. A. Psychology (5th Edition). New Delhi, Pearson Education. 2. Feldman, R.S. Understanding Psychology (6th Edition). New Delhi, Tata	hunger, need f description				
Reference Books	Hill Publishing Company Limited. 1. Morgan, C.T., King, R.A., Weisz, J.R., & Schopler, J. Introduction to (7thedition). Bombay, Tata-McGraw Hill.	psychology				
Mode of Evaluation	Internal and External Examinations					
Recommendation by Board of Studies on	03-03-2018					
Date of approval by the Academic Council	06-11-2018					



Unit-wise Course Outcome	Descriptions	BL Level	Employability (Em)/ Skill(S)/ Entrepreneurship (En)/ None (Use, for more than One)
CO1	The students actively learn to investigate dynamic interrelations of man and environment. Making students learn and understand the procedures of memory and how to improve memory.	2	Em
CO2	Psychology can be defined as a study of behavior, mind, and mental conditions of human beings. To this end Psychology involves study of mental processes, motives, reactions, feelings, conflict resolution, crisis management, group think, motivation, and nature of mind.	2	S
CO3	Aspiring students should possess the 3 P's of psychology1 Patience, Perseverance and Passion. These are the essentials to understand the patients. Moreover they should have scientific aptitude and analytical thinking to help in diagnosis and devise solutions for their maladies. Enhancing intelligence and learning different strategies of intensifying IQ.	2	S
CO4	The world is constantly changing in its social economic, political and cultural landscape thereby rendering human life more complex. These events continually impact human behavior producing depression and anxiety. Thus, psychology can help individuals to learn and adapt coping strategies.	2	S
CO5	The students will be able to learn the art of counseling and handling patients with different psychological problems and will be able to apply those practical aspects in their professional areas.	3	S

CO-PO Mapping for PS3206

0010111	•bb8 •	pping for 1 53200											
Course Outcomes	Progi	Program Outcomes (Course Articulation Matrix (Highly Mapped- 3, Moderate- 2, Low-1, Notrelated-0)									Progra Outcor	m Specif nes	
	PO 1	PO 2	PO 3	PO4	PO 5	PO 6	PO7	PO 8	PO9	PO1 0	PSO1	PSO 2	PSO 3
CO 1	1	0	0	3	1	3	2	2	2	0	2	2	1
CO 2	3	2	2	2	1	0	3	1	3	1	1	1	1
CO 3	0	2	1	3	2	2	2	2	2	3	0	2	3
CO 4	1	2	0	3	2	3	0	1	0	3	2	1	2
CO 5	2	1	2	0	3	2	0	0	0	0	3	0	0
Avg	1.4	1.4	1	2.2	1.8	2	1.4	1.2	1.4	1.4	1.6	1.2	1.4



CE3201	Title: Disaster management	LTPC				
		2002				
Version No.	1.0					
Course	Nil					
Prerequisites						
Objectives	The course is intended to provide a general concept in the dimensions of					
	disasters caused by nature beyond human control as well as the disasters and					
	environmental hazards induced by human activities with emphasis on disaster					
	preparedness, response and recovery.					
Unit No.	Unit Title	No. of				
		hours				
		(per Unit)				
Unit: 1	Introduction on Disaster	5				
Different Types of	Disaster: A) Natural Disaster: such as Flood, Cyclone, Earthquakes, Landslides	etc B) Man-				
	as Fire, Industrial Pollution, Nuclear Disaster, Biological Disasters, Accidents (Air,					
Road), Structural far	ilures(Building and Bridge), War & Terrorism etc. Causes, effects and practical exam	nples for all				
disasters.						
Unit II	Risk and Vulnerability Analysis	4				
Risk: Its concept an	d analysis 2. Risk Reduction 3. Vulnerability: Its concept and analysis 4. Strategic D	evelopment				
for Vulnerability Re-	duction.					
Unit III	Disaster Preparedness	5				
Disaster Preparedne	ess: Concept and Nature. Disaster Preparedness Plan Prediction, Early Warnings	and Safety				
Measures of Disast	ter. Role of Information, Education, Communication, and Training, Role of Govern	nment,				
International and NO	GO Bodies Role of IT in Disaster Preparedness. Role of Engineers on Disaster Mana	agement.				
Unit IV	Disaster Response	5				
Introduction Disas	ter Response Plan Communication, Participation, and Activation of Emergency P	reparedness				
Plan Search, Rescue	e, Evacuation and Logistic Management Role of Government, International and N	IGO Bodies				
Psychological Respo	onse and Management (Trauma, Stress, Rumor and Panic). Relief and Recovery Med	dical Health				
Response to Differen	nt Disasters.					
Unit V	Rehabilitation, Reconstruction and Recovery	5				
Reconstruction and	Rehabilitation as a Means of Development. Damage Assessment Post Disaster	effects and				
	.Creation of Long-term Job Opportunities and Livelihood Options, Disaster Resi					
	tion and Hygiene Education and Awareness, Dealing with Victims' Psychology, Lo					
	anning Role of Educational Institute.	C				
Text Books	Disaster Science and Management by Bhattacharya published in McGraw	Hill				
	Education (India) Pvt. Ltd.					
Reference Books	1. Disaster Management by Dr. Mrinalini Pandey published in Wiley India P	vt. Ltd.				
	Tushar.					
	2. Disaster Management: Future Challenges and Opportunities by Jagbir Sin	gh				
	published in K W Publishers Pvt.	-				
Mode of	Internal and External Examinations					
Evaluation						
Recommendation						
by Board of	03-03-2018					



Studies on	
Date of approval	
by the Academic	06-11-2018
Council	

Unit-wise Course Outcome			Employability (Em)/ Skill(S)/ Entrepreneurship
Outcome	Descriptions		(En)/ None (Use, for more than One)
CO1	Students will be able to understand the basic concepts of	2	S
	disasters and its relationships with development.		
CO2	Students will be able to understand the approaches of	2	S
	Disaster Risk Reduction (DRR) and the relationship		
	between vulnerability, disasters, disaster prevention and		
	risk reduction.		
CO3	Students will be able to understand the Medical and	2	S
	PsychoSocial Response to Disasters.		
CO4	Students will be able to prevent and control Public	2	S
	Health consequences of Disasters		
CO5	Students will have awareness of Disaster Risk	2	S
	Management institutional processes in India		

Course Outcomes	_	Program Outcomes (Course Articulation Matrix (Highly Mapped- 3, Moderate- 2, Low-1, Notrelated-0)										Program Specific Outcomes		
	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PSO1	PSO2	PSO3	
CO 1	3	2	2	1	0	0	2	3	2	2	0	2	2	
CO 2	1	2	3	3	1	0	1	0	1	1	2	3	1	
CO 3	2	3	2	0	1	3	1	1	0	2	1	1	1	
CO 4	2	1	3	1	1	3	0	1	2	1	3	3	2	
CO 5	3	2	0	1	3	2	3	0	3	0	0	0	2	
Avg	2.2	2	2	1.2	1.2	1.6	1.4	1	1.6	1.2	1.2	1.8	1.6	



SEMESTER 3 YEAR 2

MA3106	Title: Elements of Mathematics	LTPC
WIASTOO	Title. Elements of Wathematics	3 2 0 4
Vancian Na	1 1	3204
Version No.	1.1	
Course Prerequisites	Nil	
Objectives	To impart the knowledge of Trigonometry, Matrices and theory of	
o ojecu i es	Equations.	
Unit No.	Unit Title	No. of
		hours(perUni
		t)
Unit I	Trigonometry	8
Introductiontoinversecirc	ularandhyperbolic functions and their properties. Logarithmofa complex quanti	ity.
Gregory' series. Summar	tion of trigonometric series, Difference method, C+I S method.	•
Unit II	Matrix and Algebra	8
Elementary Operations of	n matrices. Inverse of a matrix. Linear dependence and independence of	rows and columns
of matrices. Row rank a	and column rank of a matrix. Rank of matrix, Eigen values, and eiger	vectors of matrix.
Minimal polynomial of a	matrix. Clayey Hamilton theorem and its application.	
Unit III	System of Equations	8
	system of linear (both homogeneous and non-homogeneous) equations.	Theorems on
consistency of a system of	of linear equations.	
Unit IV	Theory of Equations	6
Existence of root of equa	tion, Descartes's rule, general polynomial equation in one variable.	
		1
Unit V	Solution of Equations	6
Solutions of cubic equati	ons (Cardano's method). Biquadratic equations and their solutions.	
Textbooks	1. ChandrikaPrasad,TextBookonAlgebraandTheoryofEquations.Poth	
	ishalaPrivateLtd.,Allahabad	
	2. S.L. Loney, Plane Trigonometry Part–II, Macmillan and Company	, London
Reference Books	Shanti Narayan, A Text Book of Matrices.	
	2. Chandrika Prasad, Text Book on Algebra and Theory of	
	Equations .Pothishala Private Ltd., Allahabad.	_
	3. S.L. Loney, Lane Trigonometry Part–II, Macmillan and Company,	London.
7		
Mode of Evaluation	Internal and External Examination	
Recommendation by	02 02 2010	
Board of Studies on	03-03-2018	
Date of approval by	06.11.2010	
the Academic Council	06-11-2018	



Unit-wise Course Outcome	Descriptions	BL Level	Employability (Em)/ Skill(S)/ Entrepreneurship (En)/ None (Use, for more than One)
CO1	To understand the concepts of trigonometry and different methods for their summation	2	S
CO2	To understand the concept of matrix and algebra.	2	S
CO3	To find out the solution of a matrix to a system of linear equations.	2	S
CO4	To bring out the existence of the root of the equation.	2	S
CO5	To find out solutions of cubic equations.	2	S

Course Outcomes	Progra	ım Outco	omes (Co	ate- 2,	Program Specific Outcomes								
	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PSO1	PSO2	PSO3
CO 1	2	2	1	2	2	2	3	2	1	2	3	3	1
CO 2	3	2	2	0	3	0	0	1	3	2	3	3	1
CO 3	2	3	3	3	3	3	0	1	0	0	1	1	3
CO 4	0	3	3	1	1	3	1	3	0	3	3	0	2
CO 5	0	0	2	1	2	3	3	2	3	1	2	3	0
Avg	1.4	2	2.2	1.4	2.2	2.2	1.4	1.8	1.4	1.6	2.4	2	1.4



EM3302	Title: Advance Macroeconomics	LTPC 3 0 0 3						
Version No.	1.0	3003						
Course Prerequis	EM3201							
Objectives	The course aims to introduce the first year students to the advance concepts and approaches to the study of advance macroeconomics in the current century and develop the ability for objective reasoning about macroeconomic issues.							
Unit No.	Unit Title	No. of hours(per Unit)						
Unit I	Review of Aggregate Supply-Aggregate Demand Model	10						
	arket, adaptive expectations, nominal wage rigidities; aggregate demand: review o cal and monetary policy; adaptive expectations hypothesis and stability in the AS-							
Unit II	Rational Expectations and Implications for Economic Policy							
Rational expectation	ons hypothesis, policy ineffectiveness proposition; overlapping wage contracts.	I						
Unit III	Introduction to Dynamic Models	12						
	nt theory, investment subsidy, dynamic IS-LM model; open economy and internate h overshooting model.	ional financial						
Unit IV	Economic Growth	12						
	symodel:phasediagram,efficiencypropertiesoftheRamseymodel,fiscalpolicyintheRamse, some reasons for non-equivalence; endogenous growth; some issues	seymodel;Ri						
UnitV	Overlapping Generations Model	12						
Diamond-Samuels	on model: equilibrium, dynamics and stability, efficiency.							
Textbooks	1. Heijdra, Ben J., <i>The Foundations of Modern Macroeconomics</i> , Oxfo University Press.							
Reference Books	Blanchard, Olivier Jean and Fischer, Stanley. Lectures on Macroeconomics, Prentice Hall of India Private Limited, Barro, Robert J. and Sala-i-Martin, Xavier. Economic Growth, Prentice Hall of India Private Limited.							
Mode of	Internal and External Examinations							
Evaluation Recommendatio n by Board of Studies on	03-03-2018							



Date of	approval
	cademic
Council	

06-11-2018

Course Outcome For EM3302

Unit-wise Course			Employability (Em)/
Outcome	Descriptions	BL Level	Skill(S)/ Entrepreneurship (En)/ None (Use, for more than One)
	Evaluate and analyze the fluctuations in the goods and money market through the IS-LM model and deduce the exogenous normal rigidity in wage settlement.	4	S
CO2	Map the Rational Expectations and Implications for Economic Policy through different models.	4	S
CO3	Analyze the models of Investment and IS-LM in the dynamic situation of Open economy.	4	S
CO4	To understand the different theories of Economic growth under different market structures.	4	S
CO5	To understand and apply the overlapping generation model in the real economy.	4	S

Course Outcomes	Program	n Outcome	es (Course	, Not	Progran	n Specific O	utcomes						
	PO1 PO2 PO3 PO4 PO5 PO6 PO7 PO8 PO9 PO10										PSO1	PSO2	PSO3
CO 1	1	3	1	2	2	2	3	2	1	2	3	3	1
CO 2	3	0	2	0	3	0	0	1	3	2	3	3	1
CO3	1	3	3	3	3	3	0	1	0	0	1	1	3
CO 4	0	3	3	1	1	3	1	3	0	3	3	0	2
CO 5	0	0	2	1	2	3	3	2	3	1	2	3	0
Avg	1	1.8	2.2	1.4	2.2	2.2	1.4	1.8	1.4	1.6	2.4	2	1.4



EM3303	Title: Development Economics	L T PC
		4004
Version No.	1.0	
Course	Nil	
Prerequis		
ites		
Objectives	Thecourseisintendedtoprovideageneralconceptinthedimensionsofeconomic	
	development that deals with a discussion of alternative conceptions of	
	development and their justification.	
Unit No.	Unit Title	No. of
Omt 140.	Cint Title	hours
		(per Unit)
Unit:1	Conception of Development	9
	es of development, documenting the international variation in these measures, con	nparing
development traject	ories across nations and within them.	
Unit II	Growth Models and Empirics	9
The Harrod-Domar determinants of gro	model, the Solow model and its variants, endogenous growth models and eviden wth.	ce on the
Unit III	Land ,Labor and Credit Markets	9
The distribution of	land ownership; land reform and its effects on productivity; contractual relation	nships between
	ords; land acquisition; nutrition and labor productivity; informational problem	
	ance; inter linkages between rural factor markets.	
Unit IV	Demography and Development	9
	epts; birth and death rates, age structure, fertility and mortality; demographic tra	
	elopment; gender bias in preferences and outcomes and evidence on unequal to	
households; connec	tions between income, mortality, fertility choices and human capital accumulation	n; migration.
Unit V	Globalization	7
	torical perspective; the economics and politics of multilateral agreements; trade, p	production
patterns and world	inequality; financial instability in a globalized world.	
Textbooks	1. Debraj Ray, Development Economics, Oxford University Press.	
	2. Partha Dasgupta, Economics, A very Short Introduction, Oxford University	ty Press.
Reference Books	Democracy Can't Coexist, Oxford University Press.	
	2. Daron Acemoglu and James Robinson, Economic Origins of Dictatorship	and
	Democracy, Cambridge University Press.	
Mode of	Internal and External Examinations	
Evaluation Recommendation		
Recommendation by Board of	03-03-2018	
Studies on	05 05 2010	
Date of approval		
by	06-11-2018	
the		
Academic		
Council		



Unit-wise Course Outcome	Descriptions	BL Level	Employability (Em)/ Skill(S)/ Entrepreneurship (En)/ None (Use, for more than One)
CO1	To Develop the ability to explain core development economics concepts and measures of economics change, growth, and development	3	S
CO2	To Develop the ability to explain core economic models.	3	S
CO3	To understand the concept of Land, Labor and Credit Markets	2	S
CO4	To understand the demographic concept of development economics.	2	S
CO5	To Demonstrate awareness of global, historical, and institutional forces.	3	S

Course Outcomes	Progr	Program Outcomes (Course Articulation Matrix (Highly Mapped- 3, Moderate- 2, Low-1, Notrelated-0)										Program Specific Outcomes		
	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO1 0	PSO 1	PSO2	PSO3	
CO 1	1	2	3	3	3	3	2	2	3	2	3	2	3	
CO 2	1	3	2	0	1	3	0	3	3	2	0	0	3	
CO 3	1	3	0	2	0	0	2	1	1	1	0	1	1	
CO 4	2	3	1	1	1	0	1	2	2	0	0	2	3	
CO 5	3	3	2	3	2	1	3	0	0	2	2	1	2	
Avg	1.6	2.8	1.6	1.8	1.4	1.4	1.6	1.6	1.8	1.4	1	1.2	2.4	



EM3304	Title: Introduction to Developmental Psychology	LTPC
		4 0 0 4
Version No.	1.0	
Course	Nil	
Prerequisites		
Objectives	The basic objective of this course is to provide knowledge about human behavior	
	in Indian cultural context and to apply psychological tools to assess the	
	psychological profile of individuals.	
Unit No.	Unit Title	No. of
		hours
		(per Unit)
Unit I	Introduction to Basic Psychological Processes	9
Learning Processes:	nature and factors of learning; theories: trial IS and error, conditioning - classical a	nd operant;
insight. Transfer of	training, program learning, Memory and forgetting: Nature of encoding, storage a	nd retrieval;
STM LTM, types of	f memory, Nature and theories of forgetting.	
Unit II	Factors involvement in Psychological Development	9
Concept and definit	ion of development, role of genetic and environmental factors in development	, Lifespan
Development Theor	retical Perspectives in Lifespan Development, Types of Research in Lifespan Develo	pment
Biological Beginnir	ngs & Prenatal Development, The Newborn, Infancy.	
Unit III	Psychological Factors in different Life Stages	8
Emotional, moral ar	nd social in each stage of life span, Personality-concept, development, assessment, P	hysical
Development in Ea	arly Childhood Cognitive Development in Early Childhood Socio-emotional Development	elopment in
Early Childhood.		
Unit IV	Assessment of Psychological Factors	8
Concept and assess	sment of Intelligence, Aptitude and Interest, Physical & Cognitive Development	in Middle
Childhood Socio-en	notional Development in Middle Childhood, Physical & Cognitive Development in	Adolescence
Socio-emotional De	evelopment in Adolescence.	
Unit V	Educational Psychological Development	8
Understanding exce	ptional children-education of Gifted and intellectually disabled children, Early	Adulthood
Middle Adulthood,	Biological Aging Cognitive Problems: Dementia Socio-emotional Development:	Theories of
Aging End of Life,	Comprehensive—covers all modules.	
Text Books	1. Baron, R. A.: Psychology (5th Edition), Prentice-Hall of India Private Limited	
	2. Aggarwal, J.C.: Basic Ideas in Educational Psychology, Shipra Publication, Delh	i.
Reference Books	1. Hurlock E.B, Developmental Psychology: A Life-Span Approach, McGraw Hi	11
	Education.	
	2. Hurlock E.B, Child Development, McGraw Hill Education.	
	3. Melvin, H. M.M and William, A. H, Systems and Theories in Psychology, McC	Fraw-Hill
	Higher Education.	
	4. Solso, R. L., Maclin, H., and Maclin, M. K, Cognitive Psychology, Pearson Educ	cation
Mode of	Internal and External Examinations	
Evaluation		
Recommendation		
by Board of	03-03-2018	



Studies on	
Date of approval	
by the Academic	06-11-2018
Council	

Unit-wise Course			Employability (Em)/		
Outcome	Descriptions		Skill(S)/ Entrepreneurship (En)/ None (Use, for more than One)		
CO1	Be able to demonstrate a broad working knowledge of developmental psychology by providing an overview of basic principles related to biosocial, cognitive and psychosocial changes throughout the entire lifespan.	2	S		
CO2	Be able to demonstrate an understanding of different stages of development through the lifespan.	2	S		
CO3	Identify and apply developmental concepts to everyday Life	3	S		
CO4	Demonstrate improved critical thinking and communication skills	2	S		
CO5	Identify major theorists that contribute to the field of developmental psychology.	2	None		

Course Outcomes	Prograr	Program Outcomes (Course Articulation Matrix (Highly Mapped- 3, Moderate- 2, Low-1, Not related-0)							, Not	Program Specific Outcomes			
	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PSO1	PSO2	PSO3
CO 1	3	2	3	1	3	0	1	3	2	0	2	3	3
CO 2	2	1	0	3	2	2	3	3	2	3	1	1	0
CO 3	0	2	1	3	2	0	2	3	2	1	0	3	0
CO 4	2	1	0	1	0	0	1	2	0	1	2	0	1
CO 5	1	0	2	0	0	3	1	0	2	0	3	3	2
Avg	1.6	1.2	1.2	1.6	1.4	1	1.6	2.2	1.6	1	1.6	2	1.2



SEMESTER 4 YEAR 2

	SEMESTER 4 YEAR 2	
EM3401	Title: Economics of Public Finance	LTPC
		5005
Version No.	1.0	
Course Prerequisites	None	
Objectives	The course intends to provide basic information to students on the scope of Public Economics, significance of government and its functions, governmental finance and its economic impacts, and budgeting with special reference to India.	
Unit No.	Unit Title	No. of hours(perUnit)
Unit I	Introduction to Public finance	12
Finance and Private fin changing role of Govern	f public finance: Classical, Keynesian and modern approach on Public ance, Similarities and Dissimilarities, The principle of maximum social ment in modern economy.	l Advantage, The
Unit II	Public Revenue and Public Expenditure	10
Taxsources-Canonsofta Canons of public expen expenditure	licexpenditure-Classificationofpublicrevenue-Sourcesofpublicrevenue xation, Directtax, Indirecttax, GST. Publicexpenditure-Typesofpublicexp diture-Theories Of Public Expenditure, expenditure-Reasons For Grow	penditure- th India's public
Unit III	Public Debt and Budgeting	10
public debt.FinancialAc	debtPublic debt and Deficit financing- Economic effects of Defic dministration-Budget-Concept, significance and characteristics-Classific bunts- Budgetary deficits and its implications—Techniques of budgeting	ationofbudget—
Unit IV	Fiscal Policy	12
	ion to fiscal policies, Approaches of Classical and Keynesian economis Importance of fiscal policy.	ts on fiscal policy,
Unit V	Fiscal Federalism	10
o correct Fiscalimbala of Central, State and local Governments	ingcommissionandFinancecommission,Functions,HorizontalandVertica nces, Allocation of resources between Central and State Government in India.	limbalance,Measurest s, Sources of revenue
Textbooks	 Hendrick, Jeanand Gareth D Myles, Intermediate Public Econor India Singh, S.K, Public finance-Theory and Practice, S Chand, New 	
Reference Books	 Hajela, Public Finance, 3rd, AnnsBooks, NewDelhi Agarwal, R.C, Public Finance Theory and Practice, Leksmi Nar India. 	ayan Agarwal, Agra,
Mode of Evaluation		
Recommendation by Board of Studies on	03-03-2018	



Date of approval by theAcademicCouncil

06-11-2018

Course Outcome For EM3401

Unit-wise Course Outcome	Descriptions	BL Level	Employability (Em)/ Skill(S)/ Entrepreneurship (En)/ None (Use, for more than One)
CO1	Understand the sources of finance both public and private and the role of government in the economic and social aspects of its society.	2	None
CO2	To have conceptual clarity of public expenditure and revenue theories and to analyze the reasons for the growth in India's public Expenditure.	4	S
CO3	Understand the needs of public borrowing from all possible sources to meet necessary public investment/expenditures and to Deliver effectively the preparation of budget and how they are passed in the house.	3	S
CO4	Understand the different Fiscal policies and analyze the role played by them in the development of the nation.	2	S
CO5	Understand the financial relations between the country's federal government system and other units of government.	2	S

Course Outcomes	Progran	Program Outcomes (Course Articulation Matrix (Highly Mapped- 3, Moderate- 2, Low-1, Not related-0)								, Not	Program Specific Outcomes		
	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PSO1	PSO2	PSO3
CO 1	0	2	3	0	0	2	0	3	0	1	3	1	2
CO 2	1	1	3	3	3	1	0	3	1	2	1	2	0
CO 3	3	2	3	0	3	2	0	1	3	3	3	2	2
CO 4	1	2	2	3	3	1	3	1	0	3	0	0	1
CO 5	1	0	3	2	0	0	2	3	1	3	0	0	1
Avg	1.2	1.4	2.8	1.6	1.8	1.2	1	2.2	1	2.4	1.4	1	1.2



EM3402	Title: International Economics	LTPC 4 0 0 4								
Version No.	1.0									
Course	None									
Prerequisite s										
Objectives	The purpose of this paper is to familiarize the students with the meaning,									
	scope of international economics. Enhancing the level of students with reference to understanding of international economics.									
Expecte	Studentswillknowanadvancedandintegratedunderstandingofworldeconomicsan									
d	d understand the impact of international factors on business.									
Outcom										
e										
Unit No.	Unit Title	No. of								
		hours(perUnit)								
UnitI	Introduction	12								
Introduction-Impor	tant issues in international trade, History and present state of world trade flows,	Russian trade								
	thedevelopmentoftradetheory, Essentials: Ricardoand Comparative Advantage-									
TheRicardianmode										
trade, Empirical evi	dence and policy results, Factor Price Equalization and Trade- Hecksher- Ohlin	n model of trade,								
Stolper-Samuelson	effects, Rybczynski effect, What is international economics about? An overview	ew of world trade.								
Unit II	Theories of international trade	6								
The Ricardian, spec	cific factors, and Heckscher-Ohlin models; new trade theories; the internationa	l location of								
	the global economy-outsourcing and multinational enterprises. Stolper-Samue									
Rybczynski effects		,								
The "Specific Facto	ors" model of trade, Redistribution aspect of trade policy, International experien	ce.								
Unit III	International trade policy	10								
Instruments Trade	Policy; political economy of trade policy; controversies in trade policy. Welfare c	omnarisons								
	reliare comparisons within countries, Imperfect Competition and trade, Externa									
protectionism,	onare comparisons within countries, imperiest compension and adde, Exemi	arties und								
Empirical evaluation	n of importance.									
Unit IV	International monetary System	10								
Fivedversusflevible	l exchangerates; international monetary systems; financial globalization financial	crises								
	fs, Economics of Quotas, Protection and Imperfect Competition, Welfare argun									
	num Tariff, Technology and Externalities, Imperfect Competition and Protection									
Unit V	International financial system	6								
Cint V	o .									
WordBank:organize	 ationstructure,majorfinancialpolicyofworldbank,IMF:meaningscopeandimportar	 								
	nancing, Free trade agreements, customs unions, Trade creation vs trade divers									
	opingcountries: importsubstitutions, exportpromotion, International negotiations:									
111aucponcymucvei	opingeound les. importationations, exportpromotion, internationalinegotiations.	0,111,110,00								
ha										
ha round										
round.	Dominick Salvatore International Economics: Trade and Finance									
	Dominick Salvatore, International Economics: Trade and Finance, John Wiley International Student Edition.									



Reference Books	 Charles Kolstad, Intermediate Environmental Economics, Oxford University Press. Paul Krugman, Maurice Obstfeld, and Marc Melitz, International Economics, Oxford University Press.
Mode of	Internal and External Examination
Evaluatio	
n	
Recommendatio n by Board of Studies on	03-03-2018
Date of approval by the Academic Council	06-11-2018

Unit-wise Course Outcome	Descriptions		Employability (Em)/ Skill(S)/ Entrepreneurship (En)/ None (Use, for more than One)
CO1	Summarizing important issues in international trade, history and present state of world trade flows, history of the development of trade theory.	2	None
CO2	Students will learn the international trade theories.	2	None
CO3	To understand the different instruments of trade policy.	2	S
CO4	Students will be able to learn about fixed and flexible exchange rate systems, tariff, and non tariff policy.	2	S
CO5	To learn about the different international organizations such as WTO and IMF.	1	S

Course Outcomes	Prograr	rogram Outcomes (Course Articulation Matrix (Highly Mapped- 3, Moderate- 2, Low-1, Not related-0)							, Not	Program Specific Outcomes			
	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PSO1	PSO2	PSO3
CO 1	1	1	1	1	2	2	0	3	1	3	2	0	0
CO 2	1	3	3	2	0	1	2	0	3	2	2	1	1
CO 3	0	1	1	1	0	3	0	3	2	3	3	1	1
CO 4	2	3	2	1	0	0	3	2	1	2	3	3	1
CO 5	2	1	2	3	3	1	1	0	2	1	0	3	3
Avg	1.2	1.8	1.8	1.6	1	1.4	1.2	1.6	1.8	2.2	2	1.6	1.2



EM3403	Title: Industrial Economics	LTPC 4004			
Version No.	1.0				
Course	Nil				
Prerequisites					
Objectives	After completing the course, Students are expected to understand such issues as: the levels at which capacity, output, and prices are set; the extent that products Are differentiated from each other; how much firms invest in research and development(R&D).				
Unit No.	UnitTitle	No. of hours(perUnit)			
Unit I	Introduction	6			
	ndustrial economics.Relationship Between Industrial economics and science ogy, Contribution of industrial economics to economic development.	ee,			
Unit II	Micro Economics	10			
	Economics. Concept of demand, supply & price, the law pertaining to demand analysis, price effect, income effect & substitution effect.	and, supply			
Unit III	Business & Industry Application	12			
decision analysis case s	ess Fluctuations. Theory of business cycles. Business forecasting .Decision tudy based on microeconomics. Competitions prevailing in the market.				
Unit IV	Macro Economics	8			
National(N.I)Income & of Unemployment.	conomics relationship between macroeconomics & engineering & industry. measurement of N.I. Inflation & deflation. N.I effect on economy. Unemploon & unemployment measures to control inflation.	oyment & types			
UnitV	Money & Banking	8			
of bank: commercial ba	pequilibrium in balance of payment. Functions of money. Value of money. anks & central banking in India. Monetary & fiscal policy: a brief introduceconomics. A brief description of the Indian Financial System.	action case			
TextBooks	 Bernadette Andreosso, David Jacobson, Industrial Economics and Org McGraw Hill. Ken Heather, The Economics of Industries and Firms, Financial Times. 				
ReferenceBooks 1. Boulding, Kenneth E, Economic Analysis. New York: Harper and Row.2 Volumes.vol., Harper & Row, NY. 2. Bruce Allen, Neil Doherty, Keith Weigelt, Edwin Mansfield, Managerial Economics, W.W. Norton & Company.					
Mode ofEvaluatio n	Internal and External Examinations				
Recommendation Board of Studieson	03-03-2018				



Date of approval by the Academic Council	06-11-2018
--	------------

Course Outcome I	U 11/10-100	,	
Unit-wise Course Outcome	Descriptions	BL Level	Employability (Em)/ Skill(S)/ Entrepreneurship (En)/ None (Use, for more than One)
CO1	Students will be able to learn about the nature & significance of industrial economics.	2	S
CO2	Summarizing the concept of Microeconomics such as demand, supply & price.	2	S
CO3	To understand about the Business cycles, Business Fluctuations and Theory of business cycles.	2	S
CO4	To learn the concept of Macroeconomics such as National Income, inflation, deflation, etc.	2	S
CO5	Summarizing the role of Banks and learning about money and its functions.	2	S

Course Outcomes	Progran	Program Outcomes (Course Articulation Matrix (Highly Mapped- 3, Moderate- 2, Low-1, Not related-0) Program Outcomes (Course Articulation Matrix (Highly Mapped- 3, Moderate- 2, Low-1, Not related-0)											
	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PSO1	PSO2	PSO3
CO 1	2	1	0	2	0	0	1	2	2	3	1	2	1
CO 2	0	2	1	1	1	2	0	2	1	3	2	1	1
CO 3	1	0	3	2	0	3	3	3	2	1	2	2	0
CO 4	1	2	3	1	1	2	1	1	1	0	3	1	3
CO 5	2	2	0	0	3	1	3	3	2	0	0	0	2
Avg	1.2	1.4	1.4	1.2	1	1.6	1.6	2.2	1.6	1.4	1.6	1.2	1.4



EM3470	Title: Project- I	LTPC
		3003
Version No.	1.0	
Course Prerequisites	Nil	
Objectives	The course aims for students to conduct a minor research based on secondary data and write a research paper while applying there understanding about it.	
Mode of Evaluation	External Presentation Examinations	-
Recommendation by Board of Studies on	03-03-2018	
Date of approval by the Academic Council	06-11-2018	

Unit-wise Course Outcome	Descriptions		Employability (Em)/ Skill(S)/ Entrepreneurship (En)/ None (Use, for more than One)
CO1	incorporates appropriate theoretical approaches, conceptual models, and a review of the existing literature.	3	S
CO2	Students will learn to structure a discussion in a coherent and convincing way by summarizing the key arguments and providing suitable and coherent findings.	3	S
CO3	Students will be able to draw valid conclusions, relating them to the research topic.	3	S
CO4	Students develop a design of their study with a discussion of the methodology to be used.	3	S
CO5	Students will be able write a dissertation	6	S

Course Outcomes	Pro	Program Outcomes (Course Articulation Matrix (Highly Mapped- 3, Moderate- 2, Low-1, Not related-0) Program Outcomes Specific Outcomes											
	PO1	PO1 PO2 PO3 PO4 PO5 PO6 PO7 PO8 PO9 PO10								PSO1	PSO2	PSO3	
CO 1	0	0	1	0	0	1	3	3	2	3	2	0	1
CO 2	1	3	2	0	1	2	2	3	0	2	1	2	2
CO 3	2	1	3	2	3	2	0	0	3	2	2	1	2
CO 4	2	3	1	2	3	0	1	1	2	1	3	2	2
CO 5	3	0	2	1	0	3	0	3	3	0	2	1	2
Avg	1.6	1.4	1.8	1	1.4	1.6	1.2	2	2	1.6	2	1.2	1.8



SEMESTER 5

YEAR 3

EM3501	Title: Research Methodology	LTPC							
		4004							
Version No.	1.0								
Course Prerequisites	Nil								
Objectives	The course imparts skills to undertake data based research. The student								
-	enrollinginthiscoursewoulddevelopcompetencyinexecutingsamplesurveys								
	andwould								
	Have reasonable exposure to a variety of secondary data sources.								
UnitNo.	UnitTitle	No. of							
		hours(perUn							
		it)							
UnitI	Types of Research	8							
	th, Types of Research, Data types and sources: Qualitative And Quantity Data	l a							
	s; secondary sources of data and institutions.	,							
UnitII	Research Design and Questionnaires	6							
Research Design, Type	s of Research Design, Factors affecting Research Design, Exploratory Research	rch Design,							
	Design and Experimental Research Design.	2 ,							
UnitIII	Sampling and sampling Techniques	6							
Sample type and size: S	Simple random sampling; cluster sampling; stratified sampling and its compl	ications;							
Determining an approp	riate size, Sample Questionnaires: Measurement And Scales; questionnaires	•							
UnitIV	Hypothesis Testing	10							
What is a Hypothesis, l	Basic Concepts Concerning Testing of Hypotheses, Procedure for Hypothesis	s Testing,							
Flow Diagram for Hyp	othesis Testing, Measuring the Power of a Hypothesis Test, Tests of Hypoth	ieses,							
Important Parametric T									
	eans, Hypothesis Testing for Differences between Means, Hypothesis Testing for Comparison of the Com	ComparingTw							
oRelated	dia Changaina II and air Tadia Carbifform alatan an Danadia a II a	.41							
forComparinga	stingofProportions,HypothesisTestingforDifferencebetweenProportions,HypothesisTestingf	otnesis i esting							
	othesized Population Variance, Testing the Equality of Variances of Two No	rmal							
	s Testing of Correlation Coefficients, Limitations of the Tests of Hypothesis								
UnitV	Data Analysis Using SPSS and Excel	10							
Data cleaning, Data tra	nsformation, Multiple Imputation Techniques, T-test, F-test, Z-test, ANOVA	(One Way),							
ANOVA (Two Way w	o Replication), ANOVA(Two								
waywithReplication),Fa	actorAnalysis,MultipleRegressionAnalysisandModelHandling.								
TextBooks	1. Bethlehem, J. Applied Survey Methods: A Statistical Perspective. Wiley.								
	2. Cochran, W. Sampling Techniques. Wiley.								
ReferenceBooks	1. Flick,U.Introducingresearchmethodology:Abeginner'sguidetodoingaresearchproject.Sag								
	e Publications.								
	2. Groves, R., Fowler, F., Couper, M., Lepkowski, J., Singer, E., Tourangeau, R. Si	urvevMethodo							
	logy. Wiley.								
	3. Kumar,R.Research Methodology:Stepbystep guideforbeginners.SagePublications.								
ModeofEvaluation	Internal and External Examinations								
	1								



Recommendation By Bored of Studies	03-03-2018
Date of approval by the Academic Council	06-11-2018

Unit-wise Course Outcome	Descriptions	BL Level	Employability (Em)/ Skill(S)/ Entrepreneurship (En)/ None (Use, for more than One)
CO1	To understand the types of Research, their measurement and their scales.	2	S
CO2	To understand the methodology and procedure of designing the procedure of Research.	2	S
	To understand the different types of sampling techniques and its implication in the real world through questionnaires.	3	S
CO4	To understand and analyze the concept of Hypothesis testing.	2	S
CO5	To apply the statistical tools using SPSS and GRETAL	3	S

Course Outcomes	Pı	Program Outcomes (Course Articulation Matrix (Highly Mapped- 3, Moderate- 2, Low-1, Notrelated-0) Program Specific Outcomes											ecific es
	PO1	PO2	PO 3	PO4	PO 5	PO6	PO7	PO 8	PO9	PO1 0	PSO 1	PSO 2	PSO 3
CO 1	3	3	3	2	0	3	0	0	3	2	3	2	2
CO 2	0	0	3	3	1	2	3	2	0	3	3	0	1
CO 3	3	3	2	1	3	3	1	2	0	2	0	3	0
CO 4	2	1	0	2	3	0	3	3	2	0	3	3	2
CO 5	1	2	3	3	0	3	2	3	3	1	3	1	3
Avg	1.8	1.8	2.2	2.2	1.4	2.2	1.8	2	1.6	1.6	2.4	1.8	1.6



EM2502	Title: Techniques in Decision Making	LTPC
EM3502		4 0 0 4
Version No.	1.0	
Course Prerequisites	Nil	
Objectives	To provide understanding of mathematical tools and their applications in real business life.	
Unit No.	Unit Title	No. of hours(perUnit)
Unit I	Time Value of Money	8
Unitary method meaning, Trigonometry And Probab	Problems on Time and work, Problems on Speed, distance and time. C bility.	oncept of
Unit II	Profit and Loss percentage	6
	Problems on selling price and Cost price, Concept of percentages, Problems interpretationusingPercentage.	ollems on
Unit III	MathematicsofFinancialEconomics	8
SimpleandCompoundInter Capital expenditure,Leasi	rest, Annuity, Sinking Fund, Present Value of an Annuity/Amortization, Presenting and Bonds.	ntValueConceptin
Unit IV	QuantitativeAptitude	8
LogicalReasoning:Number RelationsandSyllogism.	er Series, Codingand Decodingand Odd Man Out, Direction Tests, Seating Ar	rangements,Blood
Unit V	Calculus	10
DifferentialCalculus,Chai	nrule,Integral Calculus,BetaGam functions,MultipleVariables	
TextBooks	 QuantitativeAptitude,RSAggarwal,S.Chand Publications, FundamentalsofBusiness Mathematics—byM.K.Bhowal 	
ReferenceBooks	1. PK Gupta, Business Mathematics and Business Statistics, Sultan Ch sons.2.DrJ.K.Thukral,Business Mathematics Statistics,maxima publica 3.TheArtofProblemSolving,Volume1:TheBasic Sandor Lehoczky,Richa	tions.
ModeofEvaluation	InternalandExternalExaminations	
Recommendation By Bored of Studies	03-03-2018	
Date of approval bytheAcademicCounc il	06-11-2018	



Unit-wise Course Outcome	Descriptions	BL Level	Employability (Em)/ Skill(S)/ Entrepreneurship (En)/ None (Use, for more than One)
	to understand the problems related to time and work, speed, distance and trigonometry	2	S
	to understand the concept of profit and loss, percentage and data interpretation	2	S
CO3	analyze the problems related to simple and compound interest.	2	S
CO4	analyze the problem related to logical reasoning.	2	S
CO5	to understand the concept of calculus.	2	S

Course Outcomes	Progr	Program Outcomes (Course Articulation Matrix (Highly Mapped- 3, Moderate- 2, Low-1, Notrelated-0) Program Specific Outcomes											
	PO1	PO2	PO 3	PO4	PO 5	PO6	PO7	PO 8	PO9	PO1 0	PSO 1	PSO 2	PSO 3
CO 1	0	2	2	3	2	3	0	1	2	0	2	3	2
CO 2	2	3	0	2	3	3	3	1	1	2	0	3	1
CO 3	1	1	2	3	2	1	3	1	3	2	0	2	1
CO 4	3	0	0	1	0	0	2	3	1	1	2	1	3
CO 5	2	3	1	2	0	2	2	0	1	3	1	3	0
Avg	1.6	1.8	1	2.2	1.4	1.8	2	1.2	1.6	1.6	1	2.4	1.4



PROGRAM ELECTIVES

EM3516	Title: Financial Economics	LTPC 6 0 0 6
Version No.	1.0	0000
Objectives	Tounderstandthe"economicwayofthinking"i.e.therationalandpurposefulutilitymaximizi ngchoicesmadebyindividualagents,understandingofthetrade-offs and opportunity cost such choices involve.	
Unit No.	Unit Title	No. of hours (per Unit)
Unit I	Introduction to Financial Markets	8
	ets, consumption and investments with and without capital markets, market places and transaction of separation; Fisher Separation Theorem; the agency problem; maximization of sharehold	
Unit II	Theory of Uncertainty	8
risk-absolute	noice under uncertainty; utility functions; expected utility theorem; certainty equivalence and relative risk aversions; stochastic dominance-first order, second order and third of trisk-variance of return, semi-variance of return, shortfall probabilities.	
Unit III	Mean-Variance Portfolio	8
correlated as	suring portfolio return and risks, effect of diversification, minimum variance portfesets, minimum variance opportunity set, optimal portfolio choice; mean variance frontict, portfolio weights.	
Unit IV	Index Models	10
	T Models of asset returns, multi index models, single index model, systematic and specific nodels-capital asset pricing model, capital market line, security market line, estimation or ing theory.	
Unit-V	Fixed Income Securities	8
Bondprices,s	potprices, discount factors, and arbitrage, forward rates and yield-to-maturity, Prices ensitivity,	hedging.
TextBooks	Copeland, T. E. and J. F. Weston, Financial Theory and Corporate Policy, Addison Wesley, Brealey, R. and S. Myers, Principles of Corporate Finance, fifth edition, New York, Mc	GrawHill.
ReferenceBo	Elton, E.JandM.J. Gruber, Modern Portfolio Theory & Investment Analysis, (fourth edition) John Wiley & Sons. Houthakker, H.S. and P.J. Williamson, Economics one Financial Markets, Oxford University F	ress.
ModeofEval uation	InternalandExternalExaminations	
Recommend ationby	03-03-2018	



BoardofStu dieson	
Dateofappro valby the AcademicCo uncil	

Unit-wise Course Outcome	Descriptions	\mathbf{BL}	Employability (Em)/ Skill(S)/ Entrepreneurship (En)/ None (Use, for more than One)
CO1	Students will understand the capital market and the criteria to maximize the shareholders wealth.	2	S
CO2	Student will develop critical thinking to measure the uncertainty in the capital market.	3	S
CO3	Student will understand how to develop a portfolio.	3	S
CO4	Students will understand different Index models.	2	S
CO5	Student will develop the insight to estimate sources for fixed Income Security.	3	S

Course Outcomes	Program Outcomes (Course Articulation Matrix (Highly Mapped- 3, Moderate- 2, Low-1, Not related-0)										Program	Specific O	utcomes
	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PSO1	PSO2	PSO3
CO 1	2	2	1	3	1	3	3	0	3	0	0	2	2
CO 2	2	3	3	2	2	2	3	3	0	1	1	1	2
CO3	3	3	1	2	2	3	3	1	0	3	2	2	3
CO 4	2	1	3	3	1	2	2	1	3	1	0	1	3
CO 5	2	0	1	1	2	2	2	3	0	0	2	0	0
Avg	2.2	1.8	1.8	2.2	1.6	2.4	2.6	1.6	1.2	1	1	1.2	2



EM3517	Title:: Game Theory	LTPC
		6006
Version No.	1.0	
Course Prerequisites	Nil	
Objectives	After completing the course, Students are expected to have good understanding of the game theory in Economy.	
UnitNo.	UnitTitle	No. of hours (per Unit)
UnitI	Normal Form Games	8
The Payoff Matrix of a G	ame, The normal form; dominant and dominated strategies; dominance	ce solvability;
mixed strategies; Nash ed	quilibrium; Mixed Strategies, symmetric single population games; app	olications
UnitII	Extensive Form Games with Perfect Information	8
Thegametree; strategies; signmeperfection; backward	ub- dinductioninfinitegames; commitment; bargaining; other applications	·
UnitIII	Simultaneous Move Games with Incomplete Information	8
Strategies; Bayesian Nasl	n equilibrium; applications	
UnitIV	Extensive Form Games with Imperfect Information	8
Strategies; beliefs and sec	quential equilibrium; applications	
UnitV	Information Economics	8
Adverse Selection; moral	hazard; signaling games,	•
TextBooks	Osborne, M. An introduction to game theory. Oxford University Pro-	ess.
ReferenceBooks	 Varian, HalR.: Intermediate Microeconomics Mankiw, Gregory N.: Principles of Economics Pindyck, Robert S. & Rubinfeld, Daniel L.: Microeconomics [PHI] Browning, Edgar K. zupan,: Microeconomics Theory and Applica 	tions
ModeofEvaluation	InternalandExternalExaminations	
Recommendation byBoardofStudieson	03-03-2018	
Date of approval by theAcademicCouncil	06-11-2018	



Unit-wise Course Outcome	Descriptions	BL Level	Employability (Em)/ Skill(S)/ Entrepreneurship (En)/ None (Use, for more than One)
CO1	To understand the basis of game theory.	2	S
CO2	To understand the apply the concept of Extensive Form Games with perfect information.	2	S
CO3	To understand and apply the concept of Simultaneous form games with imperfect information.	2	S
CO4	To understand and apply the concept of extensive form games with imperfect information.	2	S
CO5	To understand the concept of information economics.	2	S

Course Outcomes	Progr	Program Outcomes (Course Articulation Matrix (Highly Mapped- 3, Moderate- 2, Low-1, Notrelated-0)									Progra Outcor	m Specif nes	ic
	PO1	PO 2	PO 3	PO4	PO5	PO 6	PO7	PO8	PO9	PO1 0	PSO 1	PSO 2	PSO 3
CO 1	3	3	0	0	2	0	3	2	0	3	2	1	0
CO 2	0	3	3	2	3	3	3	1	0	0	2	1	2
CO 3	0	3	1	3	3	3	3	1	1	1	3	1	3
CO 4	3	1	2	0	3	2	2	1	3	2	1	3	0
CO 5	3	0	1	0	2	3	1	2	2	3	0	0	3
Avg	1.8	2	1.4	1	2.6	2.2	2.4	1.4	1.2	1.8	1.6	1.2	1.6



EM3518	Title: Basic Econometrics	LTPC
		6006
Version No.	1.0	
Course Prerequisites	None	
Objectives	The purpose of this paper is to familiarize the students with the scope, nature & different techniques, principles & methods of Econometrics.	
	Enhancing the level of students with reference to understanding the different statistical tools and techniques for better understanding of economic theories.	
UnitNo.	UnitTitle	No.of hours(perUnit)
Unit I	Nature and Scope of Econometrics	12
An Overview, use econ statistical models, useful	ometrics in economic theory, Different methods, Statistical methods, different sof data	erent parameters of
Unit II	Statistical Inferences	10
	-sq,t-andF-distributions,Estimationofparameters,Testingofhypotheses,Defnsofteststatistics,Testinghypothesesrelatedto population parameters	iningstatistical
Unit III	Simple Linear Regression Model: Two Variable Cases	12
Estimation Of Model B Hypothesis	By Method of ordinary least squares, Properties Of Estimators, Goodness of	f fit, Testing of
Unit IV	Multiple Linear Regression Model	10
	$s, Properties of OLS estimators, Goodness of fit-R^2 and Adjusted R^2, Partial regressions and Adjusted R^2, Partial regressions and Research Regressions and Research Regressions. \\$	essioncoefficients
Unit V	Violations of Classical Assumptions; Consequences, Detection Remedies	10
Multicollinearity, Heter	roscedasticity, SerialCorrelation	
TextBooks	 JanKmenta, Elements of Econometrics, Indian Reprint, Khosla Publishi Maddala, G. Sand Kajal Lahiri, Introduction to Econometrics, Wiley Pub 	
ReferenceBooks	 ChristopherDougherty, Introductionto Econometrics, OUP, India Editi DamodarGujarati, Econometrics by Example, Palgrave Macmillan. 	on.
ModeofEvaluation	Internal and External Examination	
Recommendation byBoardofStudieson	03-03-2018	
Date of approval bythe AcademicCouncil	06-11-2018	



Unit-wise Course Outcome	Descriptions	BL Level	Employability (Em)/ Skill(S)/ Entrepreneurship (En)/ None (Use, for more than One)
CO1	To understand the nature and scope of econometrics.	2	S
CO2	To understand inferential statistics.	2	S
CO3	To understand the simple linear regression model.	2	S
CO4	To understand the multiple linear regression model.	2	S
CO5	To understand the working of econometrics in case of violation of assumptions.	2	S

Course Outcomes	Progr	Program Outcomes (Course Articulation Matrix (Highly Mapped- 3, Moderate- 2, Low-1, Notrelated-0)									Progra Outcor	m Specif nes	ic
	PO 1	PO2	PO 3	PO4	PO5	PO6	PO7	PO8	PO9	PO1 0	PSO1	PSO 2	PSO 3
CO 1	2	3	0	0	2	2	2	1	0	2	0	0	0
CO 2	0	3	1	1	1	3	1	3	3	3	1	1	3
CO 3	1	1	2	3	1	0	3	0	2	2	3	3	3
CO 4	2	0	2	0	0	3	3	1	3	0	3	2	3
CO 5	0	1	0	3	3	0	3	1	0	0	0	0	3
Avg	1	1.6	1	1.4	1.4	1.6	2.4	1.2	1.6	1.4	1.4	1.2	2.4



EM3519	Title: Law & Economics	LTPC 6006
Version No.	1.0	
Course Prerequisites	Nil	
Objectives	The course aims to impart the knowledge of role of law in economics development, economic requirement putting pressure on legislative to change the law.	
UnitNo.	UnitTitle	No. of hours(perUni t)
UnitI	An Overview of Law and Economics	8
	approaches EAL and L&E, Cognition and cost-benefit analysis, Empiriciveness, efficiency of the law.	rically informed
UnitII	Basic Notions of Law and Economics	8
Hickscriterion, wealthma propertyrights.	productiveefficiency,Paretosuperiority,Paretooptimality,Kaldor-ximization. Efficientresourceallocation, CoaseTheorem,transactioncos	
UnitIII	Contract and Tort Law	8
productive and distributi liability, the Hand Form	Exchange, contract validity, remedies for breach of contract, disclosure information. Tort law: external v. internal liability standards, negligula, causation, the scope of liability, Punitive damages.	ence and strict
UnitIV	Economic Issues in Evidence	8
Evidencelaw;relevancyar oof, cost associatedwith	nd reliability, exclusion ary rules and economic rationales, an economic reading errors.	gofthestandardsofpr
UnitV	Constitutional and HRlaw	8
	ortionality analysis, suitability, necessity,balancing,Balancing sCBA.For right sandeconomic remedies.	Iuman Rights
TextBooks	1.Sunstein.C. Cognition & Cost-benefits Analysis. The Journal of Le 29:1059-1103.2.Miceli. T.TheEconomicApproachto Law.Stanford U 3.Kaplow,L. BurdenofProof, TheYaleLawJournal,121:738-859	
ReferenceBooks	1.Coleman J. L. Efficiency, Unity and Wealth Maximization, Hofstra 509-5512.Landes, W.&Posner, R. The Positive Economic Theory of Tort Law. w, 15:851-924. 3.Posner.R.An Economic Approach the Law of Evidence, Stanford Law 1546.	GeorgiaLawRevie
ModeofEvaluation	InternalandExternalExaminations	
Recommendation byBoardofStudieso n	03-03-2018	



Date of approval bytheAcademicCoun cil

06-11-2018

Course Outcome For EM3519

Unit-wise Course Outcome	Descriptions	BL	Employability (Em)/ Skill(S)/ Entrepreneurship (En)/ None (Use, for more than One)
CO1	To understand the basics and need for law and Economics.	2	S
CO2	To understand the basics of Law and Economics.	2	S
CO3	To develop critical thinking about contract and tort law.	2	S
CO4	To analyze the need of law by viewing economics issues.	2	S
CO5	To understand and analyze the constitution and HR law.	3	S

Course Outcomes	_	Program Outcomes (Course Articulation Matrix (Highly Mapped- 3, Moderate- 2, Low-1, Notrelated-0)										Program Specific Outcomes		
	PO1	PO 2	PO 3	PO4	PO5	PO 6	PO7	PO8	PO9	PO1 0	PSO 1	PSO 2	PSO 3	
CO 1	3	2	0	3	2	1	2	3	1	1	2	3	2	
CO 2	3	0	0	2	1	3	0	2	1	3	3	3	3	
CO 3	3	2	1	1	2	0	1	1	2	2	2	0	1	
CO 4	3	0	2	0	0	1	2	1	0	3	1	1	0	
CO 5	2	1	2	3	3	2	1	0	2	0	0	0	1	
Avg	2.8	1	1	1.8	1.6	1.4	1.2	1.4	1.2	1.8	1.6	1.4	1.4	



SEMESTER6

YEAR 3

,	SEMILSTERU TEAR S						
EM3601	Title: Money and Financial Market	LTPC					
		4004					
Version No.	1.0						
Course Prerequisites	Nil						
Objectives	This course exposes students to the theory and functioning of the monetary and financial sectors of the economy. It highlights the organization, structure, and role of financial markets and institutions. Financial And banking sectorre forms And monetary policy with special reference to India a reals covered.						
Unit No.	Unit Title	No. of hours(perUnit)					
UnitI	Money	8					
Meaning and functions I	Money, importance of money, stages of evolution money, classification o	f money.					
UnitII	RBI and Money Supply	8					
	ly, Alternative measures of money supply, components of money supply, es. Role of RBi money creation.	High powered					
UnitIII	Finance	8					
Meaning of Finance, rol instruments.	e of finance, kinds of finance, financial market and financial intermediari	es, and					
UnitIV	Indian Banking System	8					
Commercial bank-impo	rtance and functions and its structure, credit creation, RRB and functions						
UnitV	Interest Rates	8					
VariousratesinIndia, Ad	ministeredratesandMarketdeterminedrates,Source Difference Rates Of In	terest.					
TextBooks	 Baye,M.,Jansen,D.Money,BankingandFinancialMarkets.AITBS. Bhole,L.,Mahukud,J.FinancialInstitutionsandMarkets. TataMcGraw-Hill. Fabozzi,F.,Modigliani,F., Jones,F.,Ferri,M.FoundationsofFinancialMarketsandInstitutions,PearsonEducation. Jadhav,N.MonetaryPolicy,FinancialStabilityandCentralBankinginIndia.Macmillan. Khan,M.IndianFinancialSystem,TataMcGraw-Hill. 						
ReferenceBooks	· · · · · · · · · · · · · · · · · · ·						
ModeofEvaluation	InternalandExternalExaminations						
Recommendation By Bored of Studies	03-03-2018						



Date of approval bytheAcademicCounci

06-11-2018

Course Outcome For EM3601

	·		
Unit-wise Course Outcome	Descriptions	BL Level	Employability (Em)/ Skill(S)/ Entrepreneurship (En)/ None (Use, for more than One)
CO1	Understand the basic concept about the money	2	S
CO2	Understand the basic concept about the money supply and money creation.	2	S
CO3	Understand the basic concept about financial market and intermediaries	2	S
CO4	Understand the structure of the Indian Banking system.	2	S
CO5	Understand about Interest rate	2	S

Course Outcomes	Progr	Program Outcomes (Course Articulation Matrix (Highly Mapped- 3, Moderate- 2, Low-1, Notrelated-0)										Program Specific Outcomes		
	PO1	PO2	PO 3	PO4	PO5	PO6	PO7	PO8	PO9	PO1 0	PSO 1	PSO 2	PSO 3	
CO 1	2	1	2	3	0	0	0	0	3	0	2	0	2	
CO 2	2	0	0	2	3	1	2	2	2	1	0	1	3	
CO 3	1	3	0	3	1	3	1	2	3	0	1	3	1	
CO 4	0	2	3	3	0	2	0	0	3	3	2	3	0	
CO 5	3	0	3	0	2	2	2	3	0	3	2	0	0	
Avg	1.6	1.2	1.6	2.2	1.2	1.6	1	1.4	2.2	1.4	1.4	1.4	1.2	



EM3602	Title: Economics Marketing	LTPC							
		4004							
Version No.	1.0								
Course	Nil								
Prerequisites									
Objectives	This course imparts knowledge of economics of marketing for maximizing enterprise profit ability through maximizing consumer satisfaction; how to reconcile the objectives of consumers with those of the organization.								
UnitNo.	UnitTitle								
UnitI	Introduction	8							
Introduction: C	oncept, nature, scope and importance of marketing; Marketing concept and it	s evolution;							
	Strategic marketing planning – an overview. Market segmentation andposit								
	evior; consumer versus organizational buyers; Consumer decision	- <i>&</i> ,							
making process	, , , , , , , , , , , , , , , , , , ,								
UnitII	Decision Making	8							
Product Decision	ons: Concept of a product; Classification of products; Major product decision	ns; Product							
line and produc	t mix; Branding; Packaging and labeling; Product life cycle, New product de	evelopment							
	adoption process.	•							
	ns: Factors affecting price determination; Pricing policies and strategies; Dis	counts and							
rebates.									
UnitIII	Distribution	8							
Distribution Ch	annels and Physical Distribution Decisions: Nature, functions, and types of								
distribution cha	nnels; Distribution channel intermediaries; Channel management decisions;	Retailingand							
wholesaling.									
UnitIV	Promotion Decision	8							
	isions: Communication Process; Promotion mix – advertising, personal sellir								
	icity and public relations; Determining advertising budget; Copy Designing	And							
	Selection; Advertising Effectiveness;								
	n-tools and techniques.								
UnitV	Issues and Developments	8							
	opments in Marketing: Social, ethical and legal aspects of marketing; Marketing of s								
	keting; Green marketing; Cyber marketing; Relationship marketing and other development	opments of							
marketing.	A IVAL DELL'ANTA A DALL'ANTA DALL'A								
TextBooks	 Kotlar, Philip, Marketing Management, Prentice Hall, New Delhi. Stanton, Etzel, Walker, Fundamentals of Marketing, Tata-McGraw Hill, New Delhi. 	elhi.							
ReferenceBook s	1. Saxena, Rajan, Marketing Management, Tata-Mc Graw Hill, New Delhi. 2. McCarthy, E.J., Basic Marketing: A managerial approach, Irwin, New York.								
ModeofEvaluat ion	Internal and External Examinations								
Recommend									
ation	03-03-2018								
byBoardofS									
tudieson									



Date of approval bytheAcadem	06-11-2018
icCouncil	

Course Outcome re	DI 12/13/00/2		
Unit-wise Course Outcome	Descriptions	BL	Employability (Em)/ Skill(S)/ Entrepreneurship (En)/ None (Use, for more than One)
CO1	Understand the concept of marketing and	2	S
	Consumer behavior.		
CO2	Understand the process of Product and Pricing	2	S
	decision making		
CO3	Understand the distribution channel and process.	2	S
CO4	Understand the process of the Promotion decision.	2	S
CO5	Understand the legal issues of marketing.	2	S

Course Outcomes	Progr	Program Outcomes (Course Articulation Matrix (Highly Mapped- 3, Moderate- 2, Low-1, Notrelated-0)										Program Specific Outcomes		
	PO1	PO2	PO 3	PO4	PO5	PO6	PO7	PO 8	PO9	PO1 0	PSO 1	PSO 2	PSO 3	
CO 1	2	2	2	3	3	1	2	0	2	1	3	2	0	
CO 2	1	3	2	3	1	2	0	3	1	2	1	0	3	
CO 3	0	0	0	0	0	0	1	3	2	3	2	2	0	
CO 4	3	0	2	0	1	3	1	2	3	1	3	3	2	
CO 5	0	2	3	3	3	3	1	2	1	3	2	3	3	
Avg	1.2	1.4	1.8	1.8	1.6	1.8	1	2	1.8	2	2.2	2	1.6	



PROGRAM ELECTIVES

EM3616	Title: Health Economics	LTPC
		6006
Version No.	1.0	
Course Prerequisites	Nil	
Objectives	To impart understanding of how one can explain and predict peoples' Health related behavior and use this understanding to predict the consequences of different social actions.	
Unit No.	Unit Title	No. of hours(per Unit)
Unit I	Role of Health and Education in Human Development	12
Importance in poverty al performance.	leviation; health and education outcomes and the relationship with macr	oeconomic
Unit II	Microeconomic Foundations of Health Economics	12
	ertainty and health insurance market; alternative insurance mechanisms; public intervention; equity and inequality.	market
Unit III	Health Sector in India: An Overview	10
Health outcomes; health burden of disease.	systems; health financing, Costing, cost effectiveness and cost-benefit a	nalysis;
Unit IV	Education: Investment in Human Capital	12
	on: private and social; quality of education; signaling or human capital; on; gender and caste discrimination in India.	
Unit V	Education Sector in India: An Overview	10
Literacy rates, school pa	rticipation, school quality measures.	
Textbooks	 William, Jack, Principles of Health Economics for Developing Cou Bank Institute Development Studies. World Development Report, Investing in Health, The World Bank. 	
Reference Books	1. Ronald G., Ehrenberg and Robert S., Smith, Modern Labor Economi Public Policy, Addison Wesley.	cs: Theory and
Mode of Evaluation	Internal and External Examinations	
Recommendation by Board of Studies on	03-03-2018	
Date of approval by the Academic Council	06-11-2018	



Unit-wise Course Outcome	Descriptions	BL Level	Employability (Em)/ Skill(S)/ Entrepreneurship (En)/ None (Use, for more than One)
CO1	Understand the role of Health and education in human development and analyze their relationship with macroeconomic performance.	2	S
CO2	Analyze the demand for health services and emergence of the health insurance market.	4	S
CO3	Analyze the role of the Health sector in the development of India through cost benefit analyses.	4	S
CO4	Understand the role of education in human capital development.	2	S
CO5	Understand the role of education in the development of India.	2	S

Course Outcomes	_	Program Outcomes (Course Articulation Matrix (Highly Mapped- 3, Moderate- 2, Low-1, Notrelated-0) Program Specific Outcomes											
	PO1	PO2	PO 3	PO4	PO5	PO6	PO7	PO8	PO 9	PO1 0	PSO1	PSO 2	PSO 3
CO 1	2	0	3	2	1	0	1	2	2	0	2	1	0
CO 2	1	1	0	3	2	2	1	0	3	1	1	3	3
CO 3	0	3	1	2	3	1	2	2	2	3	0	0	2
CO 4	3	2	2	0	2	2	2	2	0	3	2	0	0
CO 5	2	0	1	1	1	3	1	1	0	0	3	1	2
Avg	1.6	1.2	1.4	1.6	1.8	1.6	1.4	1.4	1.4	1.4	1.6	1	1.4



EM3617	Title: Political Economics	LTPC 6006
		0000
Version No.	1.0	
Course Pre requisites	Nil	
Objectives	The course aims to impart the knowledge of political aspects of Economics. Students will able to understand the relation between politics and economic sand their mutual interaction.	
UnitNo.	UnitTitle	No. of hours(per Unit)
UnitI	Introduction to Political Aspect of Economy	10
results, some great transforming to soc	eology in framing economic policy of the country, economic policy outcome impa economic crisis that resulted in change in economic policy of the nation, economical unrest and consequently germination of political revolution.	ic inequality
UnitII	From Independence of India 1991	5
revolution. Starting nationalization of b	omic idea of Pandit Nehru and Sardar Patel, Starting with Mixed economy, role of with Mixed economy then turning to socialist economy, role of green revolution banks, nationalization of coal, applying emergency, role of first non-congress governgency-loss, liberalization act from 1984-1989, BOP crisis of 1991.	, role of
		5
era of Dr.Manmoh	s economic policy, role of Dr. Manmohan Singh and P. V. Narasimha Rao, role of an Singh as Prime Minister, NDA-II regime, evaluating performance of LPG tene challenges in path of economic growth, political helplessness of political leader	ure from
UnitIV	International Economic Study	15
between countries. how society can be benefits and role. In	ws the basic data of population, output and development used to make internation. Differences in wealth and poverty between nations, Inequality and Fragmentation fragmented along lines of religion, language, ethnicity and income:. Globalization ternational organizations- IMF, WTO, UN, UNSC, WB, ADB, ASEAN, OPEC, n, Non-Governmental Actors.	n. Examines on- meaning,
		15
Polesofeconomicst lopingeconomyand	rengthinworldUS,Russia&China,WTOagreement.Boneofcontentionamongdevelor underdeveloped economy over agriculture product, pollution and tariff charges, na,Spaincrisis,2008globalcrisisanditsimpactoneconomicpowerhousesofUSandEu	peconomy,deve trade war
TextBooks	Principles of Political Economy, Daniel E.Saros, Valparaiso University	торс.
ReferenceBooks	PrinciplesofPoliticalEconomybyJohn StuartMill.	
ModeofEvaluatio n	InternalandExternalExaminations	



Recommendat	02 02 2010
ion	03-03-2018
byBoardofStu	
dieson	
Date of	
approval by	06-11-2018
theAcademicCo	
uncil	

Unit-wise Course Outcome	Descriptions	BL Level	Employability (Em)/ Skill(S)/ Entrepreneurship (En)/ None (Use, for more than One)
CO1	To understand the role of political ideology in framing economic policy of the country.	2	S
CO2	To understand how politics influence the economy from Independence of India till 1991.	2	S
CO3	To understand how politics influence the economy from 1991 to till date.	2	S
CO4	To make international comparisons between different countries.	2	S
CO5	To understand the poles of economic strength in the world.	2	S

Course Outcomes	Progr	Program Outcomes (Course Articulation Matrix (Highly Mapped- 3, Moderate- 2, Low-1, Notrelated-0) Program Specific Outcomes											ic
	PO 1	PO 2	PO 3	PO4	PO 5	PO 6	PO7	PO 8	PO 9	PO1 0	PSO1	PSO 2	PSO 3
CO 1	3	0	0	3	1	3	0	3	0	3	3	2	1
CO 2	1	2	2	2	1	0	3	3	3	2	0	1	1
CO 3	2	2	1	3	2	2	3	2	1	3	1	2	3
CO 4	0	2	0	3	2	3	2	0	2	0	1	1	2
CO 5	1	1	2	0	3	2	3	3	3	3	3	0	0
Avg	1.4	1.4	1	2.2	1.8	2	2.2	2.2	1.8	2.2	1.6	1.2	1.4



EM3618	Title: Applied Econometrics	LTPC 6006
VersionNo.	1.0	
CoursePrerequisites	None	
Objectives	The purpose of this course is to familiarize the students with the scope, nature & different techniques, principles & methods of Econometrics. Enhancing thelevelofstudentswithreferencetounderstandingofthedifferentstatistic al Tools and techniques for better understanding of economic theories.	
UnitNo.	UnitTitle	No. of hours(perUn it)
UnitI	Stages in Empirical Research	6
An Over view, use of ed	conometrics in economic theory, methodology, and basic of econometric	es
UnitII	Linear Regression Model; Estimation, Specification, Testing	10
Linear Regression Mod Functional forms	o Linear Regression Model: The- variable regression model, Assumption lel, OLS estimation, Variance-Covariance Matrix, Coefficient of Determinatory variable regression models, Regression Diagnostics	
UnitIII	Advance Topics in Regression Analysis	12
transformation	Iodels; Distributed Lag Models: Nature of lagged Phenomena, Estimation us on sand Partial Adjustment Models), Instrumental Variable Estimation; Omittee	
UnitIV	Panel Data Model & Estimation Techniques	12
	ionModel,theFixedEffectLeastSquaresDummyVariableModel,theFixedI	EffectwithinGroup
UnitV	Introduction to Econometric Software; GRETL/Eviews	10
Matrix etc.) ,Running	and data transformation; data analysis (Graphs and Plots, Summary S an OLS regression; Testing for Linear Restrictions and Parameter S y, Autocorrelation, Heteroscedasticity, Normality of residuals	
TextBooks	 D.N. Gujarati, D.C. Porter and Sangeetha Gunasekaran, Basic Econ Hill. Damodar Gujarati, Econometrics by Example, Palgrave Macmillan 	,
ReferenceBooks	 Christopher Dougherty, Introduction t o Econometrics, OUP. Damodar Gujarati, Econometrics by Example, Palgrave Macmillan 	
ModeofEvaluation	Internal and External Examination	
Recommendation byBoardofStudies on	03-03-2018	
Date of approval by theAcademicCouncil	06-11-2018	



Unit-wise Course Outcome	Descriptions		Employability (Em)/ Skill(S)/ Entrepreneurship (En)/ None (Use , for more than One)
CO1	Understand the use of econometrics in economic theory.	2	S
CO2	Understand, apply and estimate the linear regression model in the economic theory	3	S
CO3	Apply and analyze the economic theories using the dynamic econometric model.	4	S
CO4	Understand, apply and evaluate the panel data model and estimation techniques.	5	S
CO5	Apply econometrics theoretical knowledge in practical use by using the econometric software: GRETL/EViews	3	S

Course Outcomes	Program Outcomes (Course Articulation Matrix (Highly Mapped- 3, Moderate- 2, Low-1, Notrelated-0)											m Specif nes	ic
	PO 1	PO2	PO 3	PO4	PO 5	PO 6	PO7	PO 8	PO9	PO1 0	PSO 1	PSO 2	PSO 3
CO 1	1	3	2	3	3	3	3	1	3	3	2	0	3
CO 2	1	3	3	3	2	1	2	1	3	2	3	2	2
CO 3	3	2	2	2	1	0	3	3	1	2	3	3	2
CO 4	3	1	0	3	2	1	2	2	0	0	0	1	3
CO 5	2	0	0	3	2	2	1	3	2	0	1	2	1
Avg	2	1.8	1.4	2.8	2	1.4	2.2	2	1.8	1.4	1.8	1.6	2.2



EM3619	Title: Economics Sociology	LTPC 6 0 0 6
Version No.	1.0	
Course Pre requisites	Nil	
Objectives	This course introduces the students to the conceptual underpinnings of economic sociology and its significance, the processes of social production in different social formations and the relevance of the sociological Approaches in understanding these processes.	
Unit No.	UnitTitle	No. of
		hours (per Unit)
UnitI	Perspectives in Economic Sociology	10
Concepts of value, labor, Formalism and Sub stant	property, money and rationality, Sociological approaches to the study of Edivism,	conomy,
UnitII	Forms of Exchange	10
FormsofExchange:-Reci	procityandGift,Distribution,ExchangeandMoney	
UnitIII	Systems of Production, Circulation and Consumption	8
	Domestic Mode of Production ,Peasant , Capitalism : State, market and production and distribution	
UnitIV	Contemporary Issues in Economic Sociology	10
	Characteristics and its Impact on Society dIndicatorsofDevelopment;GlobalTrendsofDevelopment.	
UnitV	New Economic Sociology	8
Post Industrial Society:-I	information, Communication, Technology and society, Social Security and A	Alienation
Textbooks	 Bottomore, T. Theories of Modern Capitalism. London: Routledge. Smelser, N.J. The Sociology of Economic Life. Whitefish: Literary Lice Mohanty, P. K: A Textbook of Economic Sociology, Wisdom Press. 	ensing.
Reference Books	 Trigilia, C. Economic sociology: State, market, and society in modern Oxford,UK:Basil Blackwell. Smelser, N.J.andRichardSwedberg.TheHandbookofEconomicSociologyPrincetonUnress. 	
ModeofEvaluation	Internal and External Examinations	
Recommendation byBoardofStudieson	03-03-2018	
Date of approval bytheAcademicCounc il	06-11-2018	



Unit-wise Course Outcome	Descriptions	BL Level	Employability (Em)/ Skill(S)/ Entrepreneurship (En)/ None (Use, for more than One)
CO1	To understand the perspective in Economic Sociology.	2	S
CO2	To understand the forms of exchange.	2	S
CO3	To understand the system of production, circulation and consumption.	2	S
CO4	To understand the contemporary issues in Economic sociology.	2	S
CO5	To understand the new economic sociology.	2	S

Course Outcomes	Progr	Program Outcomes (Course Articulation Matrix (Highly Mapped-3, Moderate-2, Low-1, Notrelated-0) Program Specific Outcomes											ic
	PO 1	PO 2	PO 3	PO4	PO 5	PO 6	PO7	PO 8	PO9	PO1 0	PSO1	PSO 2	PSO 3
CO 1	1	0	3	1	1	0	1	1	1	2	3	2	2
CO 2	2	3	3	1	0	3	2	3	2	3	2	3	3
CO 3	1	2	2	2	2	0	1	1	0	0	1	2	1
CO 4	2	0	0	1	2	1	1	2	2	2	2	1	1
CO 5	1	2	3	2	2	3	3	1	3	0	3	2	3
Avg	1.4	1.4	2.2	1.4	1.4	1.4	1.6	1.6	1.6	1.4	2.2	2	2