



**C.S.I. VELLORE DIOCESE
VOORHEES COLLEGE, VELLORE**

1/A, Officer's Line, Vellore - 632 001, India

Phone : 0416 - 2220317 Fax No.: 0416-2220318 E-mail : voorhees1898@gmail.com web:www.voorheescollege.edu.in

1.3.1 Institution integrates crosscutting issues relevant to Professional Ethics, Gender, Human Values, Environment and Sustainability into the Curriculum

1. Professional Ethics

Ethics and moral were taught for every year. The college religiously practises the ethics and moral instructions and a separate hour was allotted in the first hour of Day order I for First year, first hour of Day order II for Second year and first hour of Day order III for Third year. The importance of ethics and moral was taught and students were given assignment and task related to the topics covered. To enable the students and the staff to begin with each day with positive things, a short service of worship was conducted in all working days at 8.45 A.M for Shift I and 1.40 P.M. for Shift II for religious instructions. A separate instruction regarding the rules and regulations was framed and the students need to adhere the rules and regulations of the college. Out of the income from endowed money, the college awards scholarships to deserving students on the basis of merit and needs. Around 76 awards were given to the students from the endowment. Those who are indiscipline, a separate PTA meeting was held and the behaviour of the students are reported to the concerned student parents. In academic the students were taught the professional ethics through the subjects. In academic the students were taught the professional ethics through the subjects like Business Ethics, Human Resource Management, Business Organisation, Organisational Behaviour and Principles of management were taught in the Arts & Commerce degree courses. To understand the human values, a compulsory paper "HUMAN RIGHTS" were included in every PG course by the University. To develop the technical and communication skills mandatory papers like Effective English, Office Fundamentals and many employability opportunity skill papers were introduced through NAAN MUDALVAN SCHEME in respective years. The Subjects like Mathematics, Statistics, Research Methodology and were taught as allied subject in Arts, Commerce & Science degree courses respectively. Students Welfare Council were installed in the college, each department was represented by a student secretary and representative. The students are trained to conduct and organise the various students' programmes conducted in the college. Every year the College awards special prize for the Best Student in every year in the Moral instructions and religious instructions.

2. Gender

There are number of programmes conducted towards the gender. In case of admission, the gender equality was considered and the admission of girl students were followed as per the government regulations. Women's day was celebrated on March 8th in every year, a special guest was invited and awareness about the role of female in the society was taught. Women's cell has been started in the year 2000. The Cell has been organizing seminars, meetings on women empowerment, self-employment, counselling, women's rights etc., A spacious rest room with separate quarantine was provided exclusively for the women staff and students in the campus. CCTV was installed and it was regularly monitored for the safety and security of women staff and students. Separate Sanitary napkin machine was

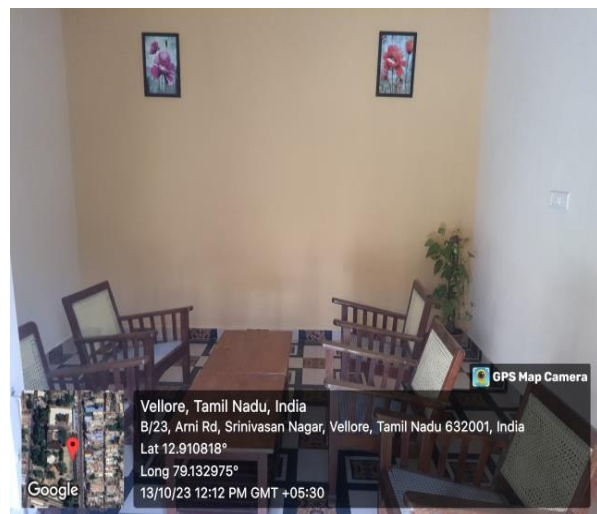
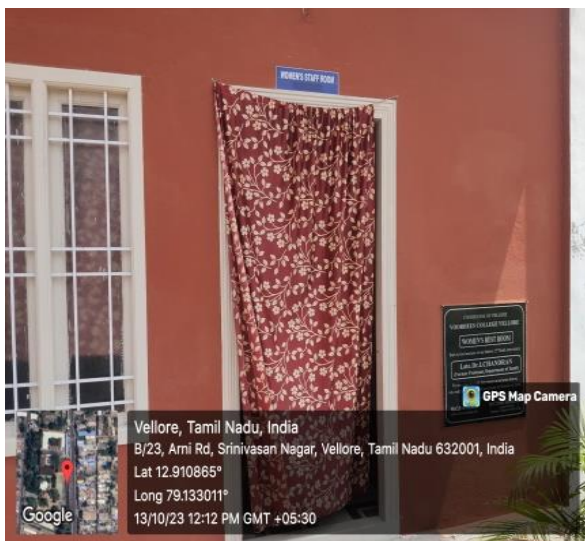



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installed in the women's rest room. Girls was given priority in the Students Welfare Council and each department represented girl students either as secretary or joint secretary for the student's welfare council. Mrs. S. Annammal Samuel award is given to the best outgoing girl student.




**Principal -in- Charge,
VOORHEES COLLEGE,
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3. Human Values

National Service Scheme (NSS), Rotaract, Youth Red Cross (YRC) and Red Ribbon Club (RRC) was formed and active in promoting the Human Values. With the collaboration with Christian Medical College many numbers of blood donation camps were conducted. Many students magnanimously donate their blood and support many human values. NSS were grouped in to three groups and every year they conduct separate camp for ten days and serve the adopted village. The members in the YRC and RRC conduct Blood camps and students voluntarily donate the blood to the needy persons in the CMC hospital. Academically Human Rights subjects were taught in the Post-Graduate Courses and a Separate skill paper Value Education were taught to the students in the Under-Graduate Courses. NSS Units conduct various activities such as webinars on volunteering during COVID-19, online workshops on Swachh Campus, Mahatma Gandhi Jayanti, Swachh Bharat Drive, road safety, personal hygiene, election voter turnout, e-waste management, riverbed cleaning, tree saplings planting, COVID-19 vaccination camp, garden work, NSS Day, special puppet shows, debate competition, Aadhaar enrolment camp, cybercrime awareness, and Mega Blood Donation Camp annually. The Youth Red Cross hosts various annual events, including a Bicycle Rally for Independence Day, a State-Level Seminar on World Health Day, Blood Donation Camp, and YRC Study Camp. From 2023, Under “Work Service Programme” the poor and needy persons are assigned work in the office, library and other departments to assist existing staff. The willing students can apply for this and they are paid the amount for their services rendered.



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C.S.I. VELLORE DIOCESE
Voorhees College
Vellore -1

Inauguration of YRC 2019-2020
and
Discussion on National Education Policy 2019

Date : 29.07.2019 Monday
Time : 10.00 A.M. - 1.00 P.M. Venue : Cobb Hall

PRESIDENTIAL ADDRESS
Dr.A.Nelson Vimalanathan
Principal i/c, Voorhees College.

Chief Guest
Dr.K.Ameenul Bibi
District Organiser, Youth Red Cross
H.O.D & Associate Professor of Mathematics
D.K.M.College, Vellore.

Key Note Address
Dr.K.Kathiravan **Dr.G.R.Ravindranath**
Dept.of Bio-Technology Doctors Association for Social Equality
University of Madras, Chennai. Chennai.


FELICITATIONS
Dr.J.Annie Kamala Florence **Prof.A.Russell Premraj Benjamin**
Vice-Principal (Shift-I) Vice-Principal (Shift-II)

Dr.S.Caleb Noble Chandar
Bursar

ORGANISED BY
Dr.S.Sendil Kumar
Programme Officer, Youth Red Cross
Voorhees College
&
Co-Ordinating Team



Voorhees College YRC unit **Inaugural Programme** for the academic year 2019-2020, held at Cobb Hall on 29.07.2019, the Keynote Speakers Dr.K.Kathiravan, Professor of Bio-Technology Department, University of Madras Chennai, Dr. G.R.Ravindranath Doctors Association for Social Equality Chennai, Chief guest Dr. K. Ameenul Bibi YRC District Organiser, Vellore, Presidential Address Delivered by Dr.A.Nelson Vimalanathan Principal Voorhees College, Felicitation Dr.J. Annie Kamala Florence Vice-Principal Voorhees College and Dr.S.Sendil Kumar YRC Programme Officer.


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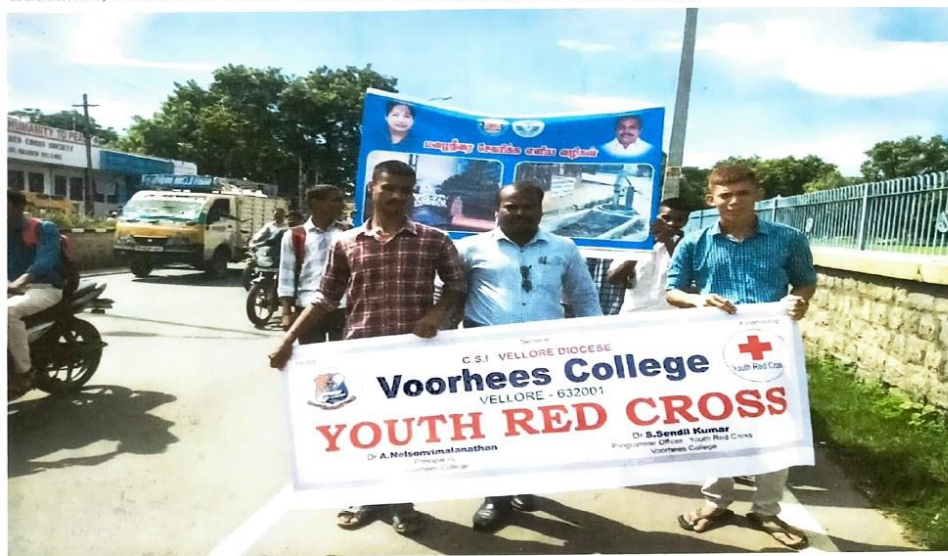
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Tree Planting Programme at Voorhees College Campus by YRC volunteers of Voorhees, Dr.A. Nelson Vimalanathan Principal and Dr. C.Caleb Noble Chandar, Bursar plant the sapling along with Prof. Naresh Benjamin HOD Department of History and Dr.Anbu Director Physical Education, Dr.S.Sendil Kumar YRC P.O. with Voluntees and NCC Cadets..



Road safety Awareness Rally Conducted by Government Tamil Nadu , Voorhees college YRC 50 volunteers participated.


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SYLLABUS RELATING TO CROSS-CUTTING ISSUES

THIRUVALLUVAR UNIVERSITY

BACHELOR OF ARTS

B.A. ECONOMICS

DEGREE COURSE

CBCS PATTERN

(With effect from 2022 - 2023)

S.NO.	Part	Study Components		Ins. hrs /week	Credit	Title of the Paper	Maximum Marks		
		Course Title					CIA	Uni.Exam	Total
SEMESTER I									
1.	I	Language	Paper-1	6	4	Tamil/Other Languages	25	75	100
2.	II	English (CE)	Paper-1	6	4	Communicative English I	25	75	100
3.	III	Core Theory	Paper-1	5	3	Micro Economics I	25	75	100
4.	III	Core Theory	Paper-2	5	3	Statistics for Economics I	25	75	100
5.	III	ALLIED -1	Paper-1	6	3	(To choose 1 out of 4) 1. History of India - I 2. Agricultural Economics 3. Basics of Computer Application I 4. Financial Accounting - I	25	75	100
6.	III	PE	Paper-1	6	3	Professional English I	25	75	100
7.	IV	Environmental Studies		2	2	Environmental Studies	25	75	100
				36	22		175	525	700
SEMESTER II							CIA	Uni. Exam	Total
8.	I	Language	Paper-2	6	4	Tamil/Other Languages	25	75	100
9.	II	English (CE)	Paper-2	4	4	Communicative English II	25	75	100
10.	II	NMSDC I : Language Proficiency for Employability	Paper-1	2	2	Effective English	25	75	100
11.	III	Core Theory	Paper-3	4	3	Micro Economics II	25	75	100
12.	III	Core Theory	Paper-4	4	3	Elementary Statistics for Economics II	25	75	100
13.	III	ALLIED-1	Paper-2	6	5	(To choose 1 out of 4) 1. History of India II 2. Agricultural Marketing 3. Basics of Computer Application II 4. Financial Accounting II	25	75	100
14.	III	PE	Paper-2	6	3	Professional English II	25	75	100
15.	IV	Value Education		2	2	Value Education	25	75	100
16.	IV	Soft Skill		2	1	Soft Skill	25	75	100
				36	27		200	600	800

S.NO.	Part	Study Components		Ins. hrs /week	Credit	Title of the Paper	Maximum Marks		
		Course Title					CIA	Uni.Exam	Total
SEMESTER III							CIA	Uni. Exam	Total
17.	I	Language	Paper-3	6	4	Tamil / Other Languages	25	75	100
18.	II	English	Paper-3	6	4	English	25	75	100
19.	III	Core Theory	Paper-5	4	3	Indian Economy I	25	75	100
20.	III	Core Theory	Paper-6	3	3	Monetary Economics I	25	75	100
21.	III	ALLIED-2	Paper-3	6	3	(To choose 1 out of 4) 1. Economics of Entrepreneurship 2. Economic Development of Tamil Nadu - I 3. Women and the Economy 4. Cost and Management Accounting I	25	75	100
22.	IV	Skill based Subject	Paper-1	3	2	Interview Skills and Personality Development	25	75	100
23.	IV	Non-major elective	Paper-1	2	2	Fundamentals of Economics I	25	75	100
				30	21		175	525	700
SEMESTER IV							CIA	Uni.Exam	Total
24.	I	Language	Paper-4	6	4	Tamil/Other Languages	25	75	100
25.	II	English	Paper-4	6	4	English	25	75	100
26.	III	Core Theory	Paper-7	4	3	Indian Economy II	25	75	100
27.	III	Core Theory	Paper-8	4	3	Monetary Economics II	25	75	100
28.	III	ALLIED-2	Paper-4	6	5	(To choose 1 out of 4) 1. Basics Econometrics 2. Economic Development of Tamil Nadu II 3. Development Economics 4. Cost and Management Accounting II	25	75	100
29.	IV	NMSDC II : Digital Skills for Employability	Paper-2	2	2	Office Fundamentals	25	75	100
30.	IV	Non-major elective	Paper-2	2	2	Fundamentals of Economics II	25	75	100
				30	23		175	525	700
SEMESTER V							CIA	Uni.Exam	Total
31.	III	Core Theory	Paper-9	6	4	Macro Economics I	25	75	100
32.	III	Core Theory	Paper-10	6	5	Fiscal Economics I	25	75	100
33.	III	Core Theory	Paper-11	6	4	Managerial Economics	25	75	100
34.	III	Core Theory	Paper-12	6	4	Industrial Economics	25	75	100

S.NO.	Part	Study Components		Ins. hrs /week	Credit	Title of the Paper	Maximum Marks		
		Course Title					CIA	Uni.Exam	Total
35.	III	Internal Elective	Paper-1	3	3	[To choose 1 out of 4] 1.Environmental Economics I 2.International Trade I 3.Industrial Organization I 4.Economics of Capital Market and Digital Economy	25	75	100
36.	IV	Skill based Subject	Paper-2	3	2	Introduction to Research Methodology	25	75	100
				30	22		150	450	600
SEMESTER VI							CIA	Uni.Exam	Total
37.	III	Core Theory	Paper-13	6	5	Macro Economics II	25	75	100
38.	III	Core Theory	Paper-14	6	4	Fiscal Economics II	25	75	100
39.	III	Core Theory	Paper-15	5	4	History of Economic Thought	25	75	100
40.	III	Compulsory Project	Paper-16	5	5	Group / Individual Project	25	75	100
41.	III	Internal Elective	Paper-2	3	3	[To choose 1 out of 4] 1.Environmental Economics II 2.International Trade II 3.Industrial Organization II 4.Energy Economics	25	75	100
42.	III	Internal Elective	Paper-3	3	3	[To choose 1 out of 4] 1.Labour Economics 2.Insurance & Economics 3.Demography 4. Economics of Development and Planning	25	75	100
43.	III	NMSDC III : Digital Banking and Audit Essential for Employability	Paper-3	2	2	Fintech Course	25	75	100
44.	V	Extension Activities		0	1		100	-	100
				30	27		275	525	800
TOTAL					142				4300

4	Yes	Yes	No	No	No	No
5	Yes	Yes	No	No	No	No

UNIT-I: Introduction:

(15hrs)

Statistics: Origin and Definition - Relationship with other Subjects - Functions of Statistics - Objectives - Importance and Limitations - Classification – Tabulation: -Objectives, Rules, Types and Parts – Diagrams: Types of Diagrams, One dimensional and Two dimensional - Graphical presentation: Types, Merits and Demerits.

UNIT-II: Collection of Data

(15hrs)

Primary And Secondary Data - Methods of Collecting Primary Data: Census and Sampling methods, Random Sampling Method, Pre-testing and Pilot Survey - Sources of Secondary Data: Published and Unpublished Sources – Questionnaire.

UNIT-III: Measures of Central Tendency

(15hrs)

Meaning – Definition – Characteristics of a good Average - Objectives of Average - Types of Average: Mean, Median, Mode - Geometric Mean - Harmonic Mean.

UNIT-IV: Measures of Dispersion

(15hrs)

Meaning - Definition - Objectives - Characteristics of a good Measures of Dispersion - Types: Range - Quartile Deviation - Mean Deviation - Standard Deviation and Co-efficient of Variation - Lorenz Curve.

UNIT- V: Skewness and Kurtosis:

(15hrs)

Skewness: Meaning - Methods – Features – Karl Pearson's Co-efficient of Skewness - Bowley's Co-efficient of Skewness. Kurtosis: Meaning – Moments – Difference between Skewness and Kurtosis.

TEXT BOOKS:

Unit-I: Gupta, S.P.: Statistics for Economic - S. Chand & Company LTD, New Delhi 2017

Unit-II: Gupta, S.P.: Statistics for Economic - S. Chand & Company LTD, New Delhi 2017

Unit-III: Gupta, S.P.: Statistics for Economic - S. Chand & Company LTD, New Delhi 2017

Unit-IV: Gupta, S.P.: Statistics for Economic - S. Chand & Company LTD, New Delhi 2017

5. After studied unit-5, the student will be able to understand probability theorem.

Matching Table (Put Yes / No in the appropriate box)

Unit	i. Remembering	ii. Understanding	iii. Applying	iv. Analyzing	v. Evaluating	vi. Creating
1	Yes	Yes	No	Yes	No	No
2	Yes	Yes	No	Yes	No	No
3	Yes	Yes	No	Yes	No	No
4	Yes	Yes	No	No	No	No
5	Yes	Yes	No	No	No	No

UNIT-I: Correlation

(12hrs)

Meaning – Types, Measurement of Correlation - Karl Pearson's Co-efficient of Correlation - Spearman's Rank Correlation and Concurrent Deviation Method.

UNIT-II: Regression

(12hrs)

Meaning - Definition - Difference between Correlation and Regression –Importance of Regression Analysis - Regression Equations - Calculation of Regression Coefficient - Correlation Coefficient from Regression Coefficients.

UNIT-III: Time Series

(12hrs)

Time series – Components of Time Series- Measurement of trend – Moving average, method of least square, Seasonal indices by simple average method.

UNIT-IV: Index Numbers

(12hrs)

Meaning - Uses - Problems in The Construction of Index Numbers –Methods of constructing Index numbers – Simple and weighted Index Numbers - Laspyre's Method – Paachee's Method - Fisher's Index Method - Cost of living Index – Uses of Index Numbers.

UNIT-V: Probability

(12hrs)

Meaning - Definition - Uses - Types - Objectives - Empirical Probability - Subjective Probability - Theorems of Probability: Addition Theorem - Multiplication Theorem.

TEXT BOOKS:

Unit-I: Gupta.S.P.:StatisticsforEconomics – S.Chand& Company LTD, New Delhi 2017

Unit-II: Gupta.S.P.:StatisticsforEconomics – S.Chand& Company LTD, New Delhi 2017

Unit-III: Gupta.S.P.:StatisticsforEconomics – S.Chand& Company LTD, New Delhi 2017

Unit-IV: Gupta.S.P.:StatisticsforEconomics – S.Chand& Company LTD, New Delhi 2017

Unit-V: Gupta.S.P.:StatisticsforEconomics – S.Chand& Company LTD, New Delhi 2017

REFERENCE BOOKS:

1. D.C.Sancheti , V.K.Kapoor, Statistics Theory, Methods And Application Sultan Chand & Sons New Delhi, 2019
2. S.P.Gupta Statistical Methods Sultan Chand & Sons New Delhi. 2017
3. R.S.N. Pillai and V.BagavathiStatistics Theory and PracticeSultan Chand & Sons New Delhi. 2019

E - RESOURCES

1. [www.homeandgardenideas.com/Economics statistics/](http://www.homeandgardenideas.com/Economics%20statistics/)
2. [in.zapmetasearch.com/Statistics For Economics](http://in.zapmetasearch.com/Statistics%20For%20Economics)
3. [www.teoma.co.uk/Economic/Tamil Nadu](http://www.teoma.co.uk/Economic/Tamil%20Nadu)
4. www.toppr.com/guides/economics/statistics-
5. www.learncbse.in/statistics-for-economics
6. [en.wikipedia.org/wiki/economics statistics](http://en.wikipedia.org/wiki/economics_statistics)
7. www.ncrtsolutions.in/...statistics-for-economics-ncert.html
8. books.google.co.in/books/about/statistics.
9. [www.thefreedictionary.com/statisticsin.zapmetasearch.com/Statistics For Economics](http://www.thefreedictionary.com/statisticsin.zapmetasearch.com/Statistics%20For%20Economics)
10. www.investopedia.com/terms/m/Statistics.asp

MAPPING WITH PROGRAMME OUTCOMES

Matching Table (Put Yes / No in the appropriate box)

Unit	i. Remembering	ii. Understanding	iii. Applying	iv. Analyzing	v. Evaluating	vi. Creating
1	Yes	Yes	Yes	No	No	No
2	Yes	Yes	Yes	No	No	No
3	Yes	Yes	Yes	No	No	No
4	No	Yes	Yes	No	No	No
5	No	Yes	Yes	No	No	No

UNIT-I: Introduction**(9 Hours)**

Interview Meaning - Definition - Types of an Interview - Process of an Interview - Purpose of an Interview - Writing Curriculum Vitae.

UNIT-II: Employability Skills**(9 Hours)**

Interpersonal Communication Skill - Critical Thinking Skills - Personal development and presentation skills - Leadership.

UNIT-III: Interview Skills**(9 Hours)**

Principles for Success - Do's and Don'ts before the Interview - During the Interview - After the Interview - Common Interview Errors.

UNIT-IV: Group Discussion**(9 Hours)**

Meaning - Definition – Objectives - Group Discussion - Categories of Group Discussion - Structure and Evaluation Components - Tips for Successful Group Discussion.

UNIT-V: Sample Interview Questions**(9 Hours)**

Model Interview Questions for Discussion: UPSE Civil services Examinations - Staff Selection communication - Banks - Business Sectors - Higher Jobs in Educations - Guidelines for the Salary Negotiations.

Text Books:

Unit-I:SajthaJayaprakash Interview Skills and Personality Development Himalaya Publication House2019

Unit-II:SajthaJayaprakash Interview Skills and Personality Development Himalaya Publication House2019

Unit-III:SajthaJayaprakash Interview Skills and Personality Development Himalaya Publication House2019

Unit-IV:SajthaJayaprakash Interview Skills and Personality Development Himalaya Publication House2019

Unit-V:SajthaJayaprakash Interview Skills and Personality Development Himalaya Publication House2019

Reference Books:

1. SajthaJayaprakashInterview Skill, Himalaya Publication House. 2019
2. BarunK.Mitra,Personality Development and Soft Skill,Oxford University. 2019

E - Resources

1. gethppy.com/talent-management/how-to-assess...
2. www.cnbc.com/2019/07/24/career-advice-the...
3. resources.workable.com/managers-interview-questions
4. hiring.monster.com/.../interview-for-leadership
5. atmanco.com/blog/hiring/7-personality-questions...
6. www.managementstudyguide.com/personality-traits...

1. After studied unit-1, the student will be able understand the Nature and Scope of Industrial economics and role of public & private sectors.
2. After studied unit-2, the student will be able to acquire knowledge of the theories of Industries
3. After studied unit-3, the student will be able to understand the Organization of a Firm, Ownership, control and objectives of a Firm.
4. After studied unit-4, the student will be able to acquire knowledge of the firm, productive Efficiency, capacity utilization, profitability and innovation.
5. After studied unit-5, the student will be able to acquire knowledge of Industrial Finance, Assessment of financial soundness.

Matching Table (Put Yes / No in the appropriate box)

Unit	I. Remembering	ii. Understanding	iii. Applying	iv. Analyzing	v. Evaluating	vi. Creating
1	Yes	Yes	No	No	No	No
2	Yes	Yes	Yes	No	No	No
3	Yes	Yes	No	No	No	No
4	No	Yes	Yes	No	No	No
5	Yes	Yes	No	No	No	No

UNIT-I: Framework of Industrial Economics

(18 Hours)

Nature and Scope of Industrial Economics - Meaning of Industrialization - Role of Industry in Economic Development - Role of Public and Private Sectors.

UNIT-II: Theories of Industries

(18 Hours)

Theories of Industries: Hoffmann, Chenery and Gerschenkron - Theories of Industrial Location: - Weber's theory of industrial location - Sargant's Florence's Theory of Location - Factors affecting Location.

UNIT-III: Market Structure (18 Hours)

Concept and Organization of a Firm - Ownership Control and Objectives of a Firm - Market Structure - Seller's Concentration - Product Differentiation and Entry Conditions.

UNIT-IV: Market Performance (18 Hours)

Growth of a Firm - Size and Growth of a Firm - Growth and Profitability of a Firm - Constraints on Growth - Productivity - Efficiency - Capacity Utilization - Profitability and Innovation.

UNIT - V: Industrial Finance (18 Hours)

External and Other Components of Funds - Financial Statement - Balance Sheets - Profit and Loss Account - Assessment of Financial Soundness.

TEXT BOOKS:

Unit - I: Singh A and A N Sadhu, Industrial Economics, Himalaya publishing House, New Delhi 2012

Unit - II: Singh A and A N Sadhu, Industrial Economics, Himalaya publishing House, New Delhi 2012

Unit - III: Singh A and A N Sadhu, Industrial Economics, Himalaya publishing House, New Delhi 2012

Unit - IV: Singh A and A N Sadhu, Industrial Economics, Himalaya publishing House, New Delhi 2012

Unit - V: Singh A and A N Sadhu, Industrial Economics, Himalaya publishing House, New Delhi 2012

Reference Books:

1. Ahluwalia I.J, Industrial Growth in India, Oxford University Press, New Delhi.
2. Barthwal R.R, Industrial Economics, Wiley Eastern Ltd, New Delhi.
3. Desai B, Industrial Economics in India (3rd Edition), Himalaya Publishing House.

THIRUVALLUVAR UNIVERSITY

BACHELOR OF ARTS

B. A. DEFENCE AND STRATEGIC STUDIES

DEGREE COURSE

CBCS PATTERN

(With effect from 2022-2023)

The Course of Study and the Scheme of Examinations

S.NO.	Part	Study Components		Ins. hrs. /week	Credit	Title of the Paper	Maximum Marks		
		Course Title					CIA	Uni. Exam	Total
SEMESTER I									
1.	I	Language	Paper-1	6	4	Tamil/Other Languages	25	75	100
2.	II	English (CE)	Paper-1	6	4	Communicative English I	25	75	100
3.	III	Core Theory	Paper-1	5	3	Fundamentals of War And Peace	25	75	100
4.	III	Core Theory	Paper-2	5	3	Defence Mechanism of India	25	75	100
5.	III	ALLIED -1	Paper-1	6	3	Outlines of Political Theory-I	25	75	100
6.	III	PE	Paper-1	6	3	Professional English I	25	75	100
7.	IV	Environmental Studies		2	2	Environmental Studies	25	75	100
				36	22		175	525	700
SEMESTER II							CIA	Uni. Exam	Total
8.	I	Language	Paper-2	6	4	Tamil/Other Languages	25	75	100
9.	II	English (CE)	Paper-2	4	4	Communicative English I	25	75	100
10.	II	NMSDC I : Language Proficiency for Employability	Paper-1	2	2	Effective English	25	75	100
11.	III	Core Theory	Paper-3	4	3	The Art of Warfare in India upto 15 th Century	25	75	100
12.	III	Core Theory	Paper-4	4	3	World military History-I (4 th cent. BC to Napoleonic Warfare	25	75	100
13.	III	ALLIED-1	Paper-2	6	5	Outlines of Political Theory-II	25	75	100
14.	III	PE	Paper-2	6	3	Professional English II	25	75	100
15.	IV	Value Education		2	2	Value Education	25	75	100
16.	IV	Soft Skill		2	1	Soft Skill	25	75	100
				36	27		225	675	900

B.A., Defence and Strategic Studies – Syllabus (CBCS)

SEMESTER –III							CIA	Uni.Exa m	Total
17.	I	Language	Paper-3	6	4	Tamil/ Other Language	25	75	100
18.	II	English	Paper-3	6	4	English	25	75	100
19.	III	Core Theory	Paper-5	4	4	The Art of Warfare in India Since 16 th Century	25	75	100
20.	IV	Core Theory	Paper-6	5	4	World military History-II (Since American War of Independence to World War II)	25	75	100
21.	V	ALLIED -I	Paper-3	5	3	General Economics-I	25	75	100
22.	VI	Skill Based Subject	Paper-1	2	2	Service Commissions in Indian Armed forces	25	75	100
23.	IV	Non-major elective	Paper-1	2	2	Fundamentals of Defence and Strategic Studies	25	75	100
				30	23		175	525	700
SEMESTER –IV							CIA	Uni.Exa m	Total
24.	I	Language	Paper-4	6	4	Tamil/ Other Language	25	75	100
25.	II	English	Paper-4	6	4	English	25	75	100
26.	III	Core Theory	Paper-7	5	4	International Relations and Organizations	25	75	100
27.	III	Core Theory	Paper-8	4	3	Limited wars	25	75	100
28.	III	ALLIED -I	Paper-4	5	5	General Economics-II	25	75	100
29.	IV	NMSDC II : Digital Skills for Employability	Paper-2	2	2	Office Fundamentals	25	75	100
30.	IV	Non-major elective	Paper-2	2	2	Fundamentals National Security	25	75	100
				30	24		175	525	700
SEMESTER – V							CIA	Uni.Exa m	Total
31.	III	Core Theory	Paper-9	6	4	Armed forces and society	25	75	100
32.	III	Core Theory	Paper-10	6	4	Strategic thought	25	75	100
33.	III	Core Theory	Paper-11	6	4	Nuclear Warfare	25	75	100
34.	III	Core Theory	Paper-12	6	4	Defence Economics	25	75	100
35.	III	Internal Elective	Paper-1	3	3	(To choose any 1 out of 3) A. Warfare in independent India B. Military Geography C. Essentials of Public Administration	25	75	100
36.	IV	Skill based subject	Paper-2	3	2	Conflict and Media	25	75	100
				30	21		150	450	600

B.A., Defence and Strategic Studies – Syllabus (CBCS)

SEMESTER-III

Course code		GENERAL ECONOMICS I				
Allied 2 Paper 3						
			Syllabus Version	2020-21		
Course Objectives:						
To provide a frame work of knowledge relating to the concepts and practice of Economics in Indian context and to make the students understand the application of Economic principles in the strategic sector. Also, to provide insight on the most pressing issue “Demand for Defence Expenditure” i.e. the right size of Defence Budget.						
Expected Course Outcomes:						
On the successful completion of the course, student will be able to:						
1	To learn about an introduction to the discipline of Economics.					K1
2	Understand about the concepts used in Economics					K2
3	Identify the various Mechanisms in economics.					K2
4	Acquire knowledge about importance of market forms					K3
5	To know about economics related to Defence					K4
K1 - Remember; K2 - Understand; K3 - Apply; K4 - Analyze; K5 - Evaluate; K6 - Create						
Unit:1						
Economic Analysis - Basic Problems of Economy - Economic Systems - Capitalism - Socialism - Mixed Economy - Communalism - Role of Government.						
Unit:2						
Concept and Management of National Income - Problems of Measurement - Trends in National Income and Planning.						
Unit:3						
Market Mechanism - Law of Demand and Supply - Elasticity of Demand - Elasticity Measurement - Uses - Limitations.						

B.A., Defence and Strategic Studies – Syllabus (CBCS)

Unit:4		
Market Forms - Perfect Competition - Monopoly - Discriminative Monopoly - Monopolistic Competition - Wastes of Monopolistic Competition.		
Unit:5		
Defence Economics - Economics of Conflict and Terrorism - Scope and Definition - Micro and Macro Economic impact - Disarmament and Peace.		
Reference		
1	Dr. S. Sankaran, Micro Economics.	
2	M.L. Jhingan, Micro Economics	
3	Dutt and Sundaram, Indian Economy.	
4	Defence Economics,	

Mapping with Programme Outcomes					
COs	PO1	PO2	PO3	PO4	PO5
CO1	S	S	M	M	M
CO2	M	M	S	M	M
CO3	S	S	M	S	S
CO4	S	M	S	M	S
CO5	S	M	S	M	S

*S-Strong; M-Medium; L-Low

B.A., Defence and Strategic Studies – Syllabus (CBCS)

SEMESTER-VI

Course code		B. HUMAN RIGHTS	
Internal Elective Paper			
3			
		Syllabus Version	2020-21
Course Objectives:			
To introduce the student to the rights of humans in various aspects.			
Expected Course Outcomes:			
On the successful completion of the course, student will be able to:			
1	To learn about the evolution and concept of human rights.		K1
2	Understand about the Approaches and Perspectives in human right.		K2
3	Identify the human rights by UN.		K2
4	Acquire knowledge about the human rights in Indian Perspective.		K3
5	To know about the Issues and Challenges in human rights.		K4
K1 - Remember; K2 - Understand; K3 - Apply; K4 - Analyze; K5 - Evaluate; K6 - Create			
Unit:1	Definition and evolution of the concept		
(a) Meaning, Nature and Development. (b) Three Generation Rights. (c) Contributions: Hobbes, Locke, Rousseau and Rawls.			
Unit:2	Approaches & Perspectives		
(a) Universalistic and Relativist approaches. (b) Feminist & Marxist approach. (c) Third World Perspective- Gandhian view			
Unit:3	United Nations & Human Rights		
(a) U N Charter and the Universal Declaration of Human Rights. (b) International Conventions and Covenants. (c) Other Protocols			
Unit:4	Indian Perspective		
(a) Human Rights in Indian tradition- Civil, Political, Economic, Cultural Rights & Women's Rights. (b) Constitutional & Legal framework in India- Human Rights Commission & Special			

B.A., Defence and Strategic Studies – Syllabus (CBCS)

Commission for weaker section. (c) Human Rights Education: UNESCO & Montreal Protocol.		
Unit:5	Issues and Challenges	
(a) Human Rights and challenges - ethnic conflict, social & political violence, global terrorism, environmental sources. (b) Rights of Refugees. (c) Internally Displaced people.		
Reference		
1	Bajwa, G.S., Human Rights in India: Implementations and Violations, New Delhi: Sterling, 1995.	
2	Mehta, P.L., Verma, N., Human Rights Under the Indian Constitution, New Delhi : Deep & Deep, 1999.	
3	Donnelly, Jack. The Concept of Human Rights, New York: St. Martin, 1985.	
4	Gibson, John, S., Dictionary of International Human Rights Law, Lanham, MD:	

Mapping with Programme Outcomes					
COs	PO1	PO2	PO3	PO4	PO5
CO1	S	S	M	M	M
CO2	M	M	S	M	M
CO3	S	S	M	S	S
CO4	S	M	S	M	S
CO5	S	M	S	M	S

*S-Strong; M-Medium; L-Low

B.A., Defence and Strategic Studies – Syllabus (CBCS)

SEMESTER-V

Course code		DEFENCE ECONOMICS				
Core-XII						
			Syllabus Version	2020-21		
Course Objectives:						
The main objectives of this course are to:						
On completion of the course the candidates will be also able to appreciate the geographical components of defiance preparedness						
Expected Course Outcomes:						
On the successful completion of the course, student will be able to:						
1	Explain Elements of geography			K1 ,K2&K3		
2	Understand Geo political theories			K3		
3	Acquire knowledge about Remote sensing			K2		
4	Understand the concept of Natural resources			K3		
5	Explain maritime borders			K3&K4		
K1 - Remember; K2 - Understand; K3 - Apply; K4 - Analyze; K5 - Evaluate; K6 - Create						
Unit:1						
INTRODUCTION						
a) Definition of Economics. b) Types of Economic Systems – Their Merits and Demerits. c) Defence Vs Development.						
Unit:2						
Defence Budget						
a) Concept of Finance, Revenue and Expenditure. b) Budgetary Process, National Income, Gross National Product and Gross Domestic Product. c) Analysis of India’s Defence Budget for the past five years.						
Unit:3						
Defence Planning						
a) Concept of Defence and Important of Defence Planning. b) System Analysis – Its Utility in Defence Planning. c) Cost Effectiveness and Choice of Weapons System.						

11. **BACHELOR OF ARTS - B.A. ENGLISH DEGREE COURSE**

The Course of Study and the Scheme of Examinations

S.NO.	Part	Study Components		Ins. hrs /week	Credit	Title of the Paper	Maximum Marks		
		Course Title					CIA	Uni. Exam	Total
SEMESTER I									
1.	I	Language	Paper-1	6	4	Tamil/Other Languages	25	75	100
2.	II	English (CE)	Paper-1	6	4	Communicative English I	25	75	100
3.	III	Core Theory	Paper-1	5	3	Indian writing in English	25	75	100
4.	III	Core Theory	Paper-2	5	3	Advanced English Grammar	25	75	100
5.	III	ALLIED -1	Paper-1	6	3	Literary forms and glossary of terms	25	75	100
6.	III	PE	Paper-1	6	3	Professional English I	25	75	100
7.	IV	Environmental Studies		2	2	Environmental Studies	25	75	100
Sem. Total				36	22		175	525	700
SEMESTER II							CIA	Uni. Exam	Total
8.	I	Language	Paper-2	6	4	Tamil/Other Languages	25	75	100
9.	II	English (CE)	Paper-2	4	4	Communicative English I	25	75	100
10.	II	NMSDC I : Language Proficiency for Employability	Paper-1	2	2	Effective English	25	75	100
11.	III	Core Theory	Paper-3	4	3	British Literature I	25	75	100
12.	III	Core Theory	Paper-4	4	3	American literature (classical and modern literature)	25	75	100
13.	III	ALLIED-1	Paper-2	6	5	Social History of England	25	75	100
14.	III	PE	Paper-2	6	3	Professional English II	25	75	100
15.	IV	Value Education		2	2	Value Education	25	75	100
16.	IV	Soft Skill		2	1	Soft Skill	25	75	100
Sem. Total				36	27		200	600	800

S.NO.	Part	Study Components		Ins. hrs /week	Credit	Title of the Paper	Maximum Marks		
		Course Title					CIA	Uni. Exam	Total
SEMESTER III							CIA	Uni. Exam	Total
17.	I	Language	Paper-3	6	4	Tamil / Other Languages	25	75	100
18.	II	English	Paper-3	6	4	English	25	75	100
19.	III	Core Theory	Paper-5	4	4	British literature II	25	75	100
20.	III	Core Theory	Paper-6	5	4	Introduction to English Phonetics	25	75	100
21.	III	ALLIED-2	Paper-3	5	3	History of English literature I	25	75	100
22.	IV	Skill based Subject	Paper-1	2	2	Skills for Employment	25	75	100
23.	IV	Non-major elective	Paper-1	2	2	Language skills and communication I	25	75	100
Sem. Total				30	23		175	525	700
SEMESTER IV							CIA	Uni. Exam	Total
24.	I	Language	Paper-4	6	4	Tamil/Other Languages	25	75	100
25.	II	English	Paper-4	6	4	English	25	75	100
26.	III	Core Theory	Paper-7	5	4	British literature III	25	75	100
27.	III	Core Theory	Paper-8	4	3	History of English Language	25	75	100
28.	III	ALLIED-2	Paper-4	5	5	History of English Literature II	25	75	100
29.	IV	NMSDC II : Digital Skills for Employability	Paper-2	2	2	Office Fundamentals	25	75	100
30.	IV	Non-major elective	Paper-2	2	2	Language skills and communication II	25	75	100
Sem. Total				30	24		175	525	700
SEMESTER V							CIA	Uni. Exam	Total
31.	III	Core Theory	Paper-9	5	4	British literature IV	25	75	100
32.	III	Core Theory	Paper-10	6	4	Shakespeare	25	75	100
33.	III	Core Theory	Paper-11	6	4	Literary Criticism.	25	75	100
34.	III	Core Theory	Paper-12	6	4	Subaltern Literature	25	75	100
35.	III	Internal Elective	Paper-1	4	3	(to choose one out f two) A. Children Literature B. Journalism	25	75	100
36.	IV	Skill based Subject	Paper-2	3	2	Content writing	25	75	100
Sem. Total				30	21		150	450	600
SEMESTER VI							CIA	Uni. Exam	Total
37.	III	Core Theory	Paper-13	5	4	Contemporary Literature	25	75	100
38.	III	Core Theory	Paper-14	5	4	Indian Writing in Translation	25	75	100
39.	III	Core Theory	Paper-15	5	3	New Literatures in English	25	75	100
40.	III	Compulsory Project	Paper-16	5	5	Group / Individual Project	25	75	100
41.	III	Internal	Paper-2	4	3	(to choose one out f two)	25	75	100

S.NO.	Part	Study Components		Ins. hrs /week	Credit	Title of the Paper	Maximum Marks		
		Course Title					CIA	Uni. Exam	Total
		Elective				A. English Information Technology B. Film appreciation and book review			
42.	III	Internal Elective	Paper-3	3	3	(to choose one out f two) A. English for Specific Purpose B. Creative Writing	25	75	100
43.	IV	Skill based Subject	Paper-3	3	2	English Language Teaching	25	75	100
44.	V	Extension Activities		0	1		100	-	100
45.		NMSDC III : Employability Readiness		0	0	(choose any one) • Naandi • Unnati • Quest • Izpay • IBM Skills build	-	-	
Sem. Total				30	25		275	525	800
Grand Total					142				4300

THIRUVALLUVAR UNIVERSITY
BACHELOR OF ARTS
B.A. HISTORY
DEGREE COURSE
CBCS PATTERN

(With effect from 2022- 2023)

The Course of Study and the Scheme of Examinations

S.NO.	Part	Study Components		Ins. hrs /week	Credit	Title of the Paper	Maximum Marks		
		Course Title					CIA	Uni. Exam	Total
SEMESTER I									
1.	I	Language	Paper-1	6	4	Tamil/Other Languages	25	75	100
2.	II	English (CE)	Paper-1	6	4	Communicative English I	25	75	100
3.	III	Core Theory	Paper-1	5	3	History of India upto 1206CE	25	75	100
4.	III	Core Theory	Paper-2	5	3	History of India from 1206 to1707 CE	25	75	100
5.	III	ALLIED -1	Paper-1	6	3	(to choose any 1 out of 4) 1. Outlines of Political Theory- I 2. Studies on States and Governments- I 3. Principles of Public Administration - I 4. Principles of Sociology- I	25	75	100
6.	III	PE	Paper-1	6	3	Professional English– I	25	75	100
7.	IV	Environmental Studies		2	2	Environmental Studies	25	75	100
				36	22		175	525	700
SEMESTER II							CIA	Uni. Exam	Total
8.	I	Language	Paper-2	6	4	Tamil/Other Languages	25	75	100
9.	II	English (CE)	Paper-2	4	4	Communicative English II	25	75	100
10.	II	NMSDC I : Language Proficiency for Employability	Paper-1	2	2	Effective English	25	75	100
11.	III	Core Theory	Paper-3	4	3	History of India from 1707 to 1885CE	25	75	100
12.	III	Core Theory	Paper-4	4	3	History of India from 1885 to 1947 CE	25	75	100
13.	III	ALLIED-1	Paper-2	6	5	(to choose any 1 out of 4) 1. Outlines of Political Theory - II 2. Studies on States and Governments- II 3. Principles of Public Administration - II 4. Principles of Sociology – II	25	75	100
14.	III	PE	Paper-2	6	3	Professional English – II	25	75	100
15.	IV	Value Education		2	2	Value Education	25	75	100
16.	IV	Soft Skill		2	1	Soft Skills	25	75	100
				36	27		200	600	800

S.NO.	Part	Study Components		Ins. hrs /week	Credit	Title of the Paper	Maximum Marks		
		Course Title					CIA	Uni. Exam	Total
SEMESTER III							CIA	Uni. Exam	Total
17.	I	Language	Paper-3	6	4	Tamil / Other Languages	25	75	100
18.	II	English	Paper-3	6	4	English	25	75	100
19.	III	Core Theory	Paper-5	4	3	History of India from1947 to 2014 CE	25	75	100
20.	III	Core Theory	Paper-6	4	3	History of TamilNaduupto 1336 CE	25	75	100
21.	III	ALLIED-2	Paper-3	6	3	(to choose 1 out of 4) 1. Tourism - I 2. Indian Economy - I 3. Media Studies - I 4. Journalism– I	25	75	100
22.	IV	Skill based Subject	Paper-1	2	2	Cultural Heritage of TamilNadu	25	75	100
23.	IV	Non-major elective	Paper-1	2	2	(to choose 1 out of 2) 1. Fundamentals of Defence and Strategic Studies 2. National Movement in India	25	75	100
				30	21		175	525	700
SEMESTER IV							CIA	Uni. Exam	Total
24.	I	Language	Paper-4	6	4	Tamil/Other Languages	25	75	100
25.	II	English	Paper-4	6	4	English	25	75	100
26.	III	Core Theory	Paper-7	4	3	History of TamilNadu from 1336 to 1806 CE	25	75	100
27.	III	Core Theory	Paper-8	4	3	History of TamilNadu from 1806 to 2011 CE	25	75	100
28.	III	ALLIED-2	Paper-4	6	5	(to choose 1 out of 4) 1. Tourism - II 2. Indian Economy - II 3. Media Studies - II 4. Journalism - II	25	75	100
29.	IV	NMSDC II : Digital Skills for Employability	Paper-2	2	2	Office Fundamentals	25	75	100
30.	IV	Non-major elective	Paper-2	2	2	(to choose 1 out of 2) 1. Fundamentals of National Security 2. Indian Constitution	25	75	100
				30	23		175	525	700
SEMESTER V							CIA	Uni. Exam	Total
31.	III	Core Theory	Paper-9	6	4	History of Europe from 1453 to 1789 CE	25	75	100
32.	III	Core Theory	Paper-10	6	4	History of USA from 1861 to 1932 CE	25	75	100
33.	III	Core Theory	Paper-11	6	5	History of China and Japan from 1900 to 2000 CE	25	75	100
34.	III	Core Theory	Paper-12	6	4	Constitutional History of India from 1773 to 1950 CE	25	75	100
35.	III	Internal Elective	Paper-1	3	3	[to choose 1 out of 3] 1. History of Freedom movement in TamilNadu from 1800 to 1947 CE	25	75	100

S.NO.	Part	Study Components		Ins. hrs /week	Credit	Title of the Paper	Maximum Marks		
		Course Title					CIA	Uni. Exam	Total
						2. Women Development in TamilNadu from 1900 to 2000 CE 3. Archaeology –I			
36.	IV	Skill based Subject	Paper-2	3	2	Competitive Examinations	25	75	100
				30	22		150	450	600
SEMESTER VI							CIA	Uni. Exam	Total
37.	III	Core Theory	Paper-13	6	5	History of Europe from 1789 to 1945 CE	25	75	100
38.	III	Core Theory	Paper-14	5	4	History of USA from 1932 to 2000 CE	25	75	100
39.	III	Core Theory	Paper-15	5	4	International Relations since 1945 CE	25	75	100
40.	III	Compulsory Project	Paper-16	5	5	Group / Individual Project	25	75	100
41.	III	Internal Elective	Paper-2	3	3	[to choose 1 out of 4] 1. History of Science and Technology in India upto 1900 CE 2. Dravidian Movement in TamilNadupto 1947 CE 3. History of the Arabs from750 to 1258 CE 4. History of Russia from early times to 1917 CE	25	75	100
42.	III	Internal Elective	Paper-3	3	3	[to choose 1 out of 4] 1. History of Science and Technology since 1900 CE 2. Dravidian Movement in TamilNadusince 1947 CE 3. An introduction to Museology 4. Archaeology –II	25	75	100
43.	IV	Skill Based Subject	Paper-3	3	2	Growth of Panchayat Raj Institutions in TamilNadu	25	75	100
44.	V	Extension Activities		0	1		100	-	100
45.		NMSDC III : Employability Readiness		0	0	(choose any one) • Naandi • Unnati • Quest • Izpay • IBM Skills build	-	-	
				30	27		275	525	800
TOTAL					142				

ALLIED - 3
PAPER - 2
INDIAN ECONOMY - I

Objectives

To enable the students to understand the salient features of Indian and occupational structure to assess the relative share of Agriculture industry and service sectors in the economy, and to analyse the benefits of planning. First and second units help the students to know the meaning and salient features of Indian economy and five year plans. Third and Fourth units covered the Agriculture role in Indian economy and Agricultural marketing fifth unit to know about Industries.

Learning Outcomes

After the successful completion of this course providing the students to acquire.

- (i) Evaluate the characters of Economy, Factors development
- (ii) Explain about the planning Commissions- performances
- (iii) Understand about Agriculture role (GNP) (APC) – Need and source
- (iv) Explain broadly Marketing Role of FC
- (v) Evaluates the importance and role of industry

UNIT - I

Meaning and Characteristics of Under-Development - Salient features of Indian Economy - Factors responsible for Development –Difference between Development and Growth - Comparison between India and other Developing countries like China, Pakistan, Taiwan, and Korea.

UNIT - II

Planning in India - Meaning, process and approaches - Five Year Plans - Objectives in general and targets and performances.

UNIT - III

Agricultural role in Indian Economy (Contribution to GNP, employment, etc.,) Problems of low productivity - Land Reforms - Need and Scope - The food problem and Green Revolution- Mechanisation - Desirability and feasibility.

UNIT - IV

Agricultural Marketing - Regulated Markets - Warehousing - Role of Agricultural Price Commission (APC) - Procurement Policy – BufferStock - Dual Pricing - Role of FC- . Agricultural Credit- Need and Sources.

UNIT - V

Industry and Its importance - Role of Small Scale Industry - Large Scale Industries (Iron & Steel, Cotton, Textiles, Sugar, Jute, Petro-chemicals, Tea, etc.,) Industrial Sickness - Causes and measures - Industrial Policy Resolutions (1956, 1985 & 1991)

Reference Books:

1. 1.Agarwal, A.N. Indian Economy, Vikas Publishing house , New Delhi.
2. 2.Dewett, Verma & Sharma: Indian Economics, S Chand & Co., New Delhi.
3. Jhingan .M.L.:Economics of development and planning, Konark publishers, New Delhi.
4. 4.Kindle berger : Economic Development, to the Mohammad conquest, Oxford University press, London.
5. Kanka, S.S: Human Resource Management, S. Chand & Co., New Delhi.
6. PramitChaudhury : The Indian Economy, Poverty and development, Vikas Publishing house, New Delhi.

ALLIED - 4
PAPER - 2
INDIAN ECONOMY - II

Objectives

To Enable the students to understand the Industrial Finance, Privatisation and Economic Reforms, Human Resource and Economic Development, Labour Economics and Foreign Trade.

Learning Outcomes

On Successful Completion of the Course the Students will be able to

To Explain about Industrial Finance , Development Financial Institutions , Foreign Capital, Various forms

To know about Privatisation and Economic Reforms, New Economic Policy, Economic Reforms ,Common Minimum Programme (CMP)

To learn about Human Resource and Economic Development, New population Policy, Unemployment, Poverty and Govt. Remedial measures

To Explain about Trade Unions ,Industrial Relations, Mechanisation and labour problems, Labour Legislations ,Social Security Schemes

To Understand India in the Global Market, Functions of IMF, IBRD and WTO.

UNIT-I

Industrial Finance - Need and sources of credit - Development Financial Institutions (IFCI, SFC, ICICI, IDBI, SIDBI, IIBI, EXIM Bank, etc.) Foreign Capital - Various forms (Foreign - Public Vs Private and Loans Vs. Investments, etc.,) FDI and FII.

UNIT-II

Privatisation and Economic Reforms - Public Vs. Private Sector - Debate, New Economic Policy (Liberalisation, Privatisation and Globalisation) - Economic Reforms Phase-I (1985-1990); Phase II 1991 &After - reforms pertain to the following policies- Fiscal, Monetary, Pricing, Industrial, Trade, Public Sector, External and Foreign Investment - Common Minimum Programme (CMP)

UNIT-III

Human Resource and Economic Development- Unique demographic features in India - Growth rate, density, Gender-wise and age-wise distribution, etc., - New Population Policy (Integration of Economic and Population Planning). Unemployment and Poverty - Remedial measures and Govt. Schemes like IRDP, Micro Finance, etc., Business Process Outsourcing (BPO) - Problems and benefits to India.

UNIT-IV

Labour Economics - Trade Unions - Industrial Relations - Industrial Disputes - Mechanisation and Labour problems - Labour Legislations - Social Security Schemes - recent policy changes - Contributory Pension Schemes, etc.,

UNIT-V

Foreign Trade and Balance of Payments - Position, Problems and measures to improve- India in the Global Market - Functions of IMF, IBRD and WTO.

Reference Books:

1. Agrawal, A.N. : Indian Economy, Vikas Publishing House, New Delhi.
2. Alak Ghosh : Indian Economy, The World Press, Kolkatta.
3. Bimal Jalan : Indian Economic Crisis, Oxford University Press, Chennai.
4. Dewett, Verma & Sharma : Indian Economics, S.Chand& Co.,
5. Dhingra, I.C. : Indian Economy, Sultan Chand & Co.,
6. Jhingan, M.L. : Economics of Development & Planning, Konark Publishers, New Delhi.
7. Kanka, S.S. : Human Resource Management, S.Chand& Co.,
8. Mongia, J.N. (Editor) : India's Economic Policies, Allied Publishers

THIRUVALLUVAR UNIVERSITY

BACHELOR OF ARTS

DEGREE COURSE

B.A. TAMIL

CBCS PATTERN

(With effect from 2022 – 2023)

The Course of Study and the Scheme of Examination

S. No.	Part	Study Components		Ins. Hrs /week	Credit	Title of the Paper	Maximum Marks		
		Course Title					CIA	Uni.Exam	Total
SEMESTER I							CIA	Uni.Exam	Total
1.	I	Language	Paper-1	6	4	தமிழ்/பிறமொழிகள்	25	75	100
2.	II	English (CE)	Paper-1	6	4	Communicative English I	25	75	100
3.	III	Core Theory	Paper-1	5	3	இக்கால இலக்கியம் (கவிதை, உரைநடை, நாடகம், புதினம், சிறுகதை)	25	75	100
4.	III	Core Theory	Paper-2	4	3	இலக்கணம் - 1 நன்னூல் (எழுத்ததிகாரம்)	25	75	100
5.	III	ALLIED – 1	Paper-1	7	4	தமிழக வரலாறும் பண்பாடும்	25	75	100
6.	III	PE	Paper-1	6	3	Professional English I	25	75	100
7.	IV	Environment Studies		2	2	சுற்றுச் சூழல் பிரிவுகள்	25	75	100
TOTAL				36	23		175	450	600
SEMESTER II							CIA	Uni. Exam	Total
8.	I	Language	Paper-2	6	4	தமிழ்/பிறமொழிகள்	25	75	100
9.	II	English (CE)	Paper-2	4	4	Communicative English II	25	75	100
10.	II	NMSDC I : Language Proficiency for Employability	Paper-1	2	2	Effective English	25	75	100
11.	III	Core Theory	Paper-3	4	3	இக்கால இலக்கியம் (கவிதை, உரைநடை, நாடகம், புதினம், சிறுகதை)	25	75	100
12.	III	Core Theory	Paper-4	3	3	இலக்கணம் - 2 நன்னூல் (சொல்லதிகாரம்)	25	75	100
13.	III	ALLIED – 1	Paper-2	7	5	தமிழக வரலாறும் பண்பாடும்	25	75	100
14.	III	PE	Paper-1	6	3	Professional English II	25	75	100
15.	IV	Value Education		2	2	மதிப்புக் கல்வி	25	75	100
16.	IV	Soft Skill		2	1	Soft Skill	25	75	100
TOTAL				36	27		225	675	900

S. No.	Part	Study Components		Ins. Hrs /week	Credit	Title of the Paper	Maximum Marks		
		Course Title					CIA	Uni. Exam	Total
SEMESTER III							CIA	Uni. Exam	Total
17.	I	Language	Paper-3	6	4	தமிழ்/பிறமொழிகள்	25	75	100
18.	II	English	Paper-3	6	4	ஆங்கிலம்	25	75	100
19.	III	Core Theory	Paper-5	3	3	இலக்கியம் 3 சமயப்பாடல்களும் சிற்றிலக்கியங்களும்	25	75	100
20.	III	Core Theory	Paper-6	3	3	இலக்கணம் - 3யாப்பருங்கலக்காரிகை	25	75	100
21.	III	ALLIED – 2	Paper-3	7	4	தமிழ் இலக்கிய வரலாறு - 1	25	75	100
22.	IV	Skill based Subject	Paper-1	3	2	பயன்பாட்டுத் தமிழ்	25	75	100
23.	IV	Non-major elective	Paper-1	2	2	தமிழ்மொழி – அடிப்படை இலக்கணம்	25	75	100
TOTAL				30	22		175	525	700
SEMESTER IV									
SEMESTER IV							CIA	Uni. Exam	Total
24.	I	Language	Paper-4	6	4	தமிழ்/பிறமொழிகள்	25	75	100
25.	II	English	Paper-4	6	4	ஆங்கிலம்	25	75	100
26.	III	Core Theory	Paper-7	4	3	இலக்கியம் 4 காப்பியங்கள்	25	75	100
27.	III	Core Theory	Paper-8	3	3	இலக்கணம் - 4தண்டியலங்காரம் (பொருளணியியல் மட்டும்)	25	75	100
28.	III	ALLIED – 2	Paper-4	7	4	தமிழ் இலக்கிய வரலாறு - 2	25	75	100
29.	IV	NMSDC II : Digital Skills for Employability	Paper-2	2	2	Office Fundamentals	25	75	100
30.	IV	Non-major elective	Paper-2	2	2	இணையம்	25	75	100
TOTAL				30	22		175	525	700
SEMESTER V									
SEMESTER V							CIA	Uni. Exam	Total
31.	III	Core Theory	Paper-9	5	4	சங்க இலக்கியம் (அகம்)	25	75	100
32.	III	Core Theory	Paper-10	6	5	இலக்கணம் 5 (அகம்)	25	75	100
33.	III	Core Theory	Paper-11	6	4	தமிழ்மொழி வரலாறு	25	75	100
34.	III	Core Theory	Paper-12	6	4	இலக்கியத் திறனாய்வு	25	75	100
35.	III	Elective	Paper-1	4	3	(கீழ்க்கண்ட மூன்றில் ஏதேனும் ஒன்றைத் தெரிவுசெய்துகொள்ளலாம்) அ. தகவல் தொழில்நுட்பம் ஆ. நாட்டுப்புறவியல் இ. விளம்பரக்கலை	25	75	100
36.	IV	Skill based Subject	Paper-2	3	2	தொல்லியல்	25	75	100
TOTAL				30	22		150	450	600

S. No.	Part	Study Components		Ins. Hrs /week	Credit	Title of the Paper	Maximum Marks		
		Course Title					CIA	Uni. Exam	Total
SEMESTER VI							CIA	Uni. Exam	Total
37.	III	Core Theory	Paper-13	5	4	சங்க இலக்கியம் (புறம்)	25	75	100
38.	III	Core Theory	Paper-14	5	4	இலக்கணம் 6 (புறம்)	25	75	100
39.	III	Core Theory	Paper-15	5	4	திராவிட மொழிகளின் ஒப்பிலக்கணம்	25	75	100
40.	III	Compulsory Project	Paper-16	5	5	Group / Individual Project	25	75	100
41.	III	Elective	Paper-2	4	3	(கீழ்க்கண்ட மூன்றில் ஏதேனும் ஒன்றைத் தெரிவுசெய்துகொள்ளலாம்) அ. இதழியல் ஆ. புத்தக பதிப்பியல் இ. தமிழ் உரைநடை வரலாறு	25	75	100
42.	III	Elective	Paper-3	4	3	(கீழ்க்கண்ட மூன்றில் ஏதேனும் ஒன்றைத் தெரிவுசெய்துகொள்ளலாம்) அ. தமிழர் அழகுக் கலைகள் ஆ. பெண்ணியம் இ. சுற்றுலாவியல்	25	75	100
43.	IV	Skill based Subject	Paper-3	2	2	தகவல் தொடர்பியல்	25	75	100
44.	V	Extension Activities		0	1	விரிவாக்கச் செயல்பாடுகள்	100	-	100
45.		NMSDC III : Employability Readiness		0	0	(choose any one) • Naandi • Unnati • Quest • Izpay • IBM Skills build	-	-	
TOTAL				30	26		250	450	700

THIRUVALLUVAR UNIVERSITY

BACHELOR OF BUSINESS ADMINISTRATION

DEGREE COURSE

CBCS PATTERN

(With effect from 2022 - 2023)

The Course of Study and the Scheme of Examinations

S.NO.	Part	Study Components		Ins. hrs /week	Credit	Title of the Paper	Maximum Marks		
		Course Title					CIA	Uni. Exam	Total
SEMESTER I									
1.	I	Language	Paper-1	6	4	Tamil/Other Languages	25	75	100
2.	II	English (CE)	Paper-1	6	4	Communicative English I	25	75	100
3.	III	Core Theory	Paper-1	5	3	Principles of Management	25	75	100
4.	III	Core Theory	Paper-2	5	3	Business Mathematics & Statistics I	25	75	100
5.	III	ALLIED -1	Paper-1	6	3	(to choose any 1 out of 3) A. Business Organization B. Principles of Insurance C. Business Ethics	25	75	100
6.	III	PE	Paper-1	6	3	Professional English I	25	75	100
7.	IV	Environmental Studies		2	2	Environmental Studies	25	75	100
				36	22		175	525	700
SEMESTER II							CIA	Uni. Exam	Total
8.	I	Language	Paper-2	6	4	Tamil/Other Languages	25	75	100
9.	II	English (CE)	Paper-2	4	4	Communicative English I	25	75	100
10.	II	NMSDC I : Language Proficiency for Employability	Paper-1	2	2	Effective English	25	75	100
11.	III	Core Theory	Paper-3	4	3	Business Environment	25	75	100
12.	III	Core Theory	Paper-4	4	3	Business Mathematics & Statistics II	25	75	100
13.	III	ALLIED-1	Paper-2	6	5	(to choose any 1 out of 3) A. Customer Relationship Management B. Principles of Banking System C. Fundamentals of Computer	25	75	100
14.	III	PE	Paper-2	6	3	Professional English II	25	75	100
15.	IV	Value Education		2	2	Value Education	25	75	100
16.	IV	Soft Skill		2	1	Soft Skill	25	75	100
				36	27		225	675	900

SEMESTER III							CIA	Uni. Exam	Total
17.	I	Language	Paper-3	6	4	Tamil / Other Languages	25	75	100
18.	II	English	Paper-3	6	4	English	25	75	100
19.	III	Core Theory	Paper-6	5	4	Financial Accounting	25	75	100
20.	III	Core Theory	Paper-7	5	4	Human Resource Management	25	75	100
21.	III	ALLIED-2	Paper-3	4	3	(to choose any 1 out of 3) A. Office Management B. Service Marketing C. Tourism Management	25	75	100
22.	IV	Skill based Subject	Paper-1	2	2	Business Communication	25	75	100
23.	IV	Non-major elective	Paper-1	2	2	Management Concepts	25	75	100
				30	23		175	525	700
SEMESTER IV							CIA	Uni. Exam	Total
24.	I	Language	Paper-4	6	4	Tamil/Other Languages	25	75	100
25.	II	English	Paper-4	6	4	English	25	75	100
26.	III	Core Theory	Paper-9	5	4	Organizational Behavior	25	75	100
27.	III	Core Theory	Papr-11	4	4	Management Accounting	25	75	100
28.	III	ALLIED-2	Paper-4	5	5	(to choose any 1 out of 3) A. Retail Management B. Project Management C. Hotel Management	25	75	100
29.	IV	NMSDC II : Digital Skills for Employability	Paper-2	2	2	Office Fundamentals	25	75	100
30.	IV	Non-major elective	Paper-2	2	2	Training and Development	25	75	100
				30	25		175	525	700
SEMESTER V							CIA	Uni. Exam	Total
31.	III	Core Theory	Paper-13	6	4	Marketing Management	25	75	100
32.	III	Core Theory	Paper-14	6	4	Business Law	25	75	100
33.	III	Core Theory	Paper-15	5	4	Research Methodology	25	75	100
34.	III	Core Theory	Paper-16	5	4	Production and Management	25	75	100

35.	III	Elective	Paper-1	5	3	(To choose any 1 out of 3) A. Industrial Relations and Labour Laws B. Reward Management C. Change Management	25	75	100
36.	IV	Skill based Subject	Paper-2	3	2	E-Business	25	75	100
				30	21		150	450	600
SEMESTER VI							CIA	Uni. Exam	Total
37.	III	Core Theory	Paper-17	6	5	Strategic Management	25	75	100
38.	III	Core Theory	Paper-18	6	5	International Business	25	75	100
39.	III	Core	Paper-19	6	5	Individual Project *Viva-Voce ** Project Report	25*	75**	100
40.	III	Elective	Paper-2	5	3	(to choose any 1 out of 3) A. Financial Management B. Financial Services C. Investment Management	25	75	100
41.	III	Elective	Paper-3	5	3	(to choose any 1 out of 3) A. Marketing Research B. Rural Marketing Management C. Advertising and Sales Management	25	75	100
42.	III	NMSDC III : Digital banking and Audit Essentials for Employability	Paper-3	2	2	Fintech Course	25	75	100
43.	V	Extension Activities		0	1	Extension Activities	100	0	100
		Total		30	24		150	450	700
					142				4200

THIRUVALLUVAR UNIVERSITY, VELLORE – 632 115
BACHELOR OF BUSINESS ADMINISTRATION– 2022-2023

Semester: VI

Paper type: Core Theory

Paper code: CBA62

International Business

Credit: 5

Total Hours per Week: 6

Lecture Hours: 5

Tutorial Hour: 1

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Course Objectives

1. To enable the students to understand the meaning and importance of globalization and international business
2. To familiarize them with various modes of entering global markets.
3. To help them understand how trade policies are used and how trade is restricted
4. To impart the students with regional economic integrations.
5. To examine the international monetary, strategy & marketing environment.

Course Outcome

1. After the study of unit-1, the student will be able to define and explain the importance of globalization and international business
2. After the study of unit-2, the student will be known the options used and various modes of entering global markets.
3. After the study of unit-3, the student will understand how governments use trade policies to restrict movement of goods abroad
4. After the study of unit-4, the student will be familiar with how various regional co operational organization work and their functions.
2. After the study of unit-5, the student will be able make decisions of setting up MNCs and know how to invest abroad to establish MNC

Matching Table

Unit	i. Remembering	ii. Understanding	iii. Applying	iv. Analyzing	v. Evaluating	vi. Creating
1	YES	YES	YES	YES	YES	YES
2	YES	YES	YES	YES	YES	YES
3	YES	YES	YES	YES	YES	YES
4	YES	YES	YES	YES	YES	YES
5	YES	YES	YES	YES	YES	YES

UNIT- I

Teaching hours: 18

INTRODUCTION TO INTERNATIONAL BUSINESS

International Business: Meaning, Objectives - Domestic Vs International Business - understanding LPG (Liberalization, Privatisation and Globalisation - Globalisation: Definition, Features and drivers of globalisation - Impediments in International Business, International Business Environment - Political, Legal system, Cultural, Economic, Governments,

UNIT- II

Teaching hours: 18

ENTRY MODES

Modes of International Business - Exports & Imports - Licensing - Franchising - Management Contracts - Joint Ventures - Turnkey Projects - Wholly - owned Subsidiaries - Strategic Alliances - Mergers & Acquisitions - Contract Manufacturing - International Trade theories : Mercantilism, Comparative Advantage Theory - Absolute advantage theory, Heckscher - Ohlin Theory, Product Life cycle theory

UNIT- III

Teaching hours: 18

TRADE POLICIES and WTO

Trade policies: Meaning of trade restrictions, Reasons for trade restrictions tools - Various Trade Restriction tools or policies: Tariffs, Import quota, Voluntary export restraints, Local content requirement, Administrative policies and Anti-dumping policies - GATT (General agreement on tariff and trade: Meaning, Emergence of GATT, Objectives of GATT - Emergence of WTO (World trade organization: Functions, Objectives

UNIT- IV

Teaching hours: 18

REGIONAL ECONOMIC INTEGRATION

Regional Economic Integration: Meaning, Objectives - Levels of Economic Integration - NAFTA - Features & Impact - ASEAN - Vision, Free Trade Areas & Economic Community - SAARC - Objectives- Principles - Potential Areas of Cooperation - Problems - Role of India - BRICS - Objectives - Focus of BRICS - Target Sectors for BRICSTrade.

UNIT- V

Teaching hours: 18

FOREIGN DIRECT INVESTMENT AND MNCs

Foreign Direct Investments: Meaning, Features - Growth of FDI - FDI Sources - Forms of making FDI: Greenfield, Horizontal and vertical - Why Organizations go for FDI? - FDI & Host Nation Advantages and Drawbacks - FDI & Home Nation Advantages - MNC & MNE: Meaning, Features - Types of MNCs: Polycentric, Ethnocentric, region-centric and global centric.

Text books

1. K. Aswathappa, International Business, Tata Mc-Graw Hill, 2012
2. Francis Cherunilam, International Business Environment, Himalaya Publishing House Pvt. Ltd., 2015
3. Sanjay Misra, P.K. Yadav, International Business : Text & Cases, PHI Learning, New Delhi, 2009
4. John Daniels, International Business : Environments & Operations, Pearson Education, 2009
5. Francis Cherunilam, International Business- Text & Cases, PHI Learning.
6. Helen Deresky, International, Textbooks.com
7. John Wild, International Business, Textbooks.com
8. Thingan, International Economics, Vrinda Publications, Pvt Ltd, New Delhi.
9. Subba Rao.P, International Business Text and cases, HPH Mumbai.
10. Bhalla.T.K, International Business, Anmol Publication, New Delhi.

THIRUVALLUVAR UNIVERSITY

BACHELOR OF COMPUTER APPLICATIONS DEGREE COURSE

CBCS PATTERN

(With effect from 2022-2023 onwards)

S. No.	Part	Study Components		Ins. Hrs / week	Credit	Title of the Paper	Maximum Marks		
		Course Title					CIA	Uni. Exam	Total
		SEMESTER I							
1.	I	Language	Paper-1	6	4	Tamil/Other Languages	25	75	100
2.	II	English (CE)	Paper-1	6	4	Communicative English I	25	75	100
3.	III	Core Theory	Paper-1	6	4	Programming in C	25	75	100
4.	III	Core Practical	Practical-1	3	2	Programming in C Lab	25	75	100
5.	III	Allied -1	Paper-1	7	3	Mathematical Foundations - I	25	75	100
6.	III	PE	Paper 1	6	3	Professional English I	25	75	100
7.	IV	Environmental Studies		2	2	Environmental studies	25	75	100
		Total		36	22		175	525	700
		SEMESTER II					CIA	Uni. Exam	Total
8.	I	Language	Paper-2	6	4	Tamil/Other Languages	25	75	100
9.	II	English (CE)	Paper-2	4	4	Communicative English II	25	75	100
10.	II	NMSDC I : Language Proficiency for Employability	Paper-1	2	2	Effective English	25	75	100
11.	III	Core Theory	Paper-2	5	4	C++ and Data Structures	25	75	100
12.	III	Core Practical	Practical-2	2	2	C++ and Data Structures Lab	25	75	100
13.	III	Allied-1	Paper-2	7	5	Mathematical Foundations - II	25	75	100
14.	III	PE	Paper 2	6	3	Professional English II	25	75	100
15.	IV	Value Education		2	2	Value Education	25	75	100
16.	IV	Soft Skill		2	1	Soft Skill	25	75	100
		Total		36	27		200	600	800
SEMESTER III							CIA	Uni. Exam	Total
16.	I	Language	Paper-3	6	4	Tamil / Other Languages	25	75	100

B.C.A. Computer Applications (CBCS)

17.	II	English	Paper-3	6	4	English	25	75	100
18.	III	Core Theory	Paper-3	3	4	Programming in JAVA	25	75	100
19.	III	Core Practical	Practical-3	3	3	Programming in JAVA Lab	25	75	100
20.	III	ALLIED-2	Paper-3	7	3	Financial Accounting-I	25	75	100
21.	IV	Skill based Subject I	Paper-1	3	2	Web Technology	25	75	100
22.	IV	Non-Major Elective	Paper-1	2	2	Introduction to Information Technology	25	75	100
		Sem. Total		30	22		175	525	700
SEMESTER IV							CIA	Uni. Exam	Total
23.	I	Language	Paper-4	6	4	Tamil/Other Languages	25	75	100
24.	II	English	Paper-4	6	4	English	25	75	100
25.	III	Core Theory	Paper-6	3	4	Relational Database Management Systems	25	75	100
26.	III	Core Practical	Practical-4	3	3	RDBMS Lab	25	75	100
27.	III	ALLIED-2	Paper-4	7	5	Financial Accounting-II	25	75	100
28.	IV	NMSDC II : Digital Skills for Employability	Paper-2	2	2	Office Fundamentals	25	75	100
29.	IV	Non-Major Elective	Paper-2	2	2	Internet Technology	25	75	100
		Sem. Total		30	24		175	525	700
SEMESTER V							CIA	Uni. Exam	Total
30.	III	Core Theory	Paper-9	6	4	Mobile Application Development	25	75	100
31.	III	Core Theory	Paper-10	6	4	Operating System	25	75	100
32.	III	Core Theory	Paper –11	4	2	Design and Analysis of Algorithms	25	75	100
33.	III	Core Practical	Practical-5	4	3	Mobile Applications Development-Lab	25	75	100

B.C.A. Computer Applications (CBCS)

34.	III	Core Practical	Practical-6	4	3	Operating System-Lab	25	75	100
35.	III	Internal Elective I	Paper-1	3	3	(Choose any one) A. Data Mining B. Information Security C. Software Testing	25	75	100
36.	IV	Skill Based Subject III	Paper- 2	3	2	Software Engineering	25	75	100
		Sem. Total		30	21		175	525	700

SEMESTER VI							CIA	Uni. Exam	Total
37.	III	Core Theory	Paper-12	5	4	Open Source Software	25	75	100
38.	III	Core Theory	Paper-13	4	4	Python programming	25	75	100
39.	III	Core Practical	Practical-7	4	2	Python programming Lab	25	75	100
40.	III	Core Practical	Practical-8	4	2	Open Source Programming - Lab	25	75	100
41.	III	Core Project		5	5	Group/ Individual Project Work	25	75	100
42.	III	Internal Elective II	Paper-2	3	3	(Choose any one) 1. Big Data Analytics 2. Cryptography 3. Digital Image Processing	25	75	100
43.	III	Internal Elective III	Paper-3	3	3	(Choose any one) 1. Artificial Intelligence 2. System Software 3. Mobile Computing	25	75	100
44.	III	NMSDC III : Emerging Technology for Employability II	Paper-3	2	2	(Choose any one) • PBL Android App Development • Machine Learning	25	75	100
45.	V	Extension Activities		0	1		100	0	100
		Sem. Total		30	26		300	600	900
					142				4500

THIRUVALLUVAR UNIVERSITY, VELLORE – 632 115
(B.COM – GENERAL) – 2022-2023 onwards

The Course of Study and the Scheme of Examinations

S.NO.	Part	Study Components		Ins. hrs /week	Credit	Title of the Paper	Maximum Marks		
		Course Title					CIA	Uni. Exam	Total
SEMESTER I									
1.	I	Language	Paper-1	6	4	Tamil/Other Languages	25	75	100
2.	II	English (CE)	Paper-1	6	4	Communicative English I	25	75	100
3.	III	Core Theory	Paper-1	5	3	Financial Accounting -I	25	75	100
4.	III	Core Theory	Paper-2	5	3	Business Organization	25	75	100
5.	III	ALLIED -1	Paper-1	6	3	(to choose 1 out of 3) 1. Indian Economy I 2. Elements of Insurance 3. Consumerism	25	75	100
6.	III	PE	Paper-1	6	3	Professional English I	25	75	100
7.	IV	Environmental Studies		2	2	Environmental Studies	25	75	100
				36	22		175	525	700
SEMESTER II							CIA	Uni. Exam	Total
8.	I	Language	Paper-2	6	4	Tamil/Other Languages	25	75	100
9.	II	English (CE)	Paper-2	4	4	Communicative English I	25	75	100
10.	II	NMSDC I : Language Proficiency for Employability	Paper-1	2	2	Effective English	25	75	100
11.	III	Core Theory	Paper-3	4	3	Financial Accounting –II	25	75	100
12.	III	Core Theory	Paper-4	4	3	Office management	25	75	100
13.	III	ALLIED-1	Paper-2	6	5	(to choose 1 out of 3) 1. Indian Economy II 2. Merchant banking 3. Business Mathematics	25	75	100
14.	III	PE	Paper-2	6	3	Professional English II	25	75	100
15.	IV	Value Education		2	2	Value Education	25	75	100
16.	IV	Soft Skill		2	1	Soft Skill	25	75	100
				36	27		200	600	800

S.NO.	Part	Study Components		Ins. hrs /week	Credit	Title of the Paper	Maximum Marks		
		Course Title					CIA	Uni. Exam	Total
SEMESTER III							CIA	Uni. Exam	Total
17.	I	Language	Paper-3	6	4	Tamil / Other Languages	25	75	100
18.	II	English	Paper-3	6	4	English	25	75	100
19.	III	Core Theory	Paper-5	4	4	Corporate Accounting I	25	75	100
20.	III	Core Theory	Paper-6	3	3	Legal Aspects of Business	25	75	100
21.	III	ALLIED-2	Paper-3	6	3	Business Economics I	25	75	100
22.	IV	Skill based Subject	Paper-1	3	2	Computer Applications in Business	25	75	100
23.	IV	Non-major elective	Paper-1	2	2	General commercial Knowledge	25	75	100
				30	22		175	525	700
SEMESTER IV							CIA	Uni. Exam	Total
24.	I	Language	Paper-4	6	4	Tamil/Other Languages	25	75	100
25.	II	English	Paper-4	6	4	English	25	75	100
26.	III	Core Theory	Paper-9	4	4	Corporate Accounting II	25	75	100
27.	III	Core Theory	Paper-10	4	2	Business Management	25	75	100
28.	III	ALLIED-2	Paper-4	6	5	Business Economics II	25	75	100
29.	IV	NMSDC II : Digital Skills for Employability	Paper-2	2	2	Office Fundamentals	25	75	100
30.	IV	Non-major elective	Paper-2	2	2	Advertisement and Salesmanship	25	75	100
				29	23		175	525	700
SEMESTER V							CIA	Uni. Exam	Total
31.	III	Core Theory	Paper-13	6	4	Cost accounting I	25	75	100
32.	III	Core Theory	Paper-14	5	4	Practical Auditing	25	75	100
33.	III	Core Theory	Paper-15	6	5	Management Accounting	25	75	100
34.	III	Core Theory	Paper-16	6	4	Income Tax Law and Practice I	25	75	100
35.	III	Elective	Paper-1	4	3	(to choose 1 out of 3) 1. Entrepreneurial Development 2. Business Environment 3. Management Information System	25	75	100
36.	IV	Skill based Subject	Paper-2	3	2	Principles of marketing	25	75	100

S.NO.	Part	Study Components		Ins. hrs /week	Credit	Title of the Paper	Maximum Marks		
		Course Title					CIA	Uni. Exam	Total
				30	22		150	450	600
SEMESTER VI							CIA	Uni. Exam	Total
37.	III	Core Theory	Paper-17	5	4	Cost accounting II	25	75	100
38.	III	Core Theory	Paper-18	5	4	Income Tax law and practice II	25	75	100
39.	III	Core Theory	Paper-19	5	4	Financial management	25	75	100
40.	III	Compulsory Project	Paper-20	5	5	Individual / Group Project	25	75	100
41.	III	Elective	Paper-2	4	3	(To choose one out of 3) 1. Innovation management 2. Logistics management 3. Service Marketing	25	75	100
42.	III	Elective	Paper-3	4	3	(To choose one out of 3) 1. Customs and GST 2. Investment Management 3. Financial services	25	75	100
43.	III	NMSDC III : Digital banking and Audit Essentials for Employability	Paper-3	2	2	Fintech Course	25	75	100
44.	V	Extension Activities		0	1		100	-	100
				30	26		275	525	800
TOTAL					142				

THIRUVALLUVAR UNIVERSITY
BACHELOR OF ARTS
BACHELOR OF SOCIAL WORK (BSW)
DEGREE COURSE
CBCS PATTERN
(With effect from 2022-2023)

The Course of Study and the Scheme of Examinations

S.NO.	Part	Study Components		Ins. hrs /week	Credit	Title of the Paper	Maximum Marks		
		Course Title					CIA	Uni. Exam	Total
SEMESTER I									
1.	I	Language	Paper-1	6	4	Tamil/Other Languages	25	75	100
2.	II	English (CE)	Paper-1	6	4	Communicative English I	25	75	100
3.	III	Core Theory	Paper-1	5	3	Introduction to Social Work	25	75	100
4.	III	Core Theory	Paper-2	5	3	Indian Social problems	25	75	100
5.	III	ALLIED -1	Paper-1	6	3	Sociology for Social Work Practice	25	75	100
6.	III	PE	Paper-1	6	3	Professional English I	25	75	100
7.	IV	Environmental Studies		2	2	Environmental Studies	25	75	100
				36	22		175	525	700
SEMESTER II									
8.	I	Language	Paper-2	6	4	Tamil/Other Languages	25	75	100
9.	II	English (CE)	Paper-2	4	4	Communicative English II	25	75	100
10.	II	NMSDC I : Language Proficiency for Employability	Paper-1	2	2	Effective English	25	75	100
11.	III	Core Theory	Paper-3	4	3	Psychology for Social Work Practice	25	75	100
12.	III	Core Theory	Paper-4	4	3	Social Work with Individuals	25	75	100
13.	III	ALLIED-1	Paper-2	6	5	Fundamentals of Nutrition	25	75	100
14.	III	PE	Paper-2	6	3	Professional English II	25	75	100
15.	IV	Value Education		2	2	Value Education	25	75	100
16.	IV	Soft Skill		2	1	Soft Skill	25	75	100
				36	27				

S.NO.	Part	Study Components		Ins. hrs /week	Credit	Title of the Paper	Maximum Marks		
		Course Title					CIA	Uni. Exam	Total
SEMESTER III							CIA	Uni. Exam	Total
17.	I	Language	Paper-3	6	4	Tamil/Other Languages	25	75	100
18.	II	English	Paper-3	6	4	English	25	75	100
19.	III	Core Theory	Paper-5	4	4	Social Legislations	25	75	100
20.	III	Core Theory	Paper-6	4	4	Social Work with Groups	25	75	100
21.	III	Allied	Paper-2	6	3	Women and Development	25	75	100
22.	IV	Skill Based Subject	Paper-1	2	2	Disaster Management	25	75	100
23.	IV	Non-Major Elective	Paper-1	2	2	Professional Skill Development	25	75	100
				30	23		175	525	700
SEMESTER IV									
24.	I	Language	Paper-4	6	4	Tamil/Other Languages	25	75	100
25.	II	English	Paper-4	6	4	English	25	75	100
26.	III	Core Practical	Practical-1	3	3	Concurrent Field Wok- I	40	60	100
27.	III	Core Theory	Paper-7	3	3	Social Work in Hospitals	25	75	100
28.	III	Core Theory	Paper-8	3	3	Social Work with Communities	25	75	100
29.	III	Allied	Paper-2	5	5	Demography and Population Dynamics	25	75	100
30.	IV	NMSDC II : Digital Skills for Employability	Paper-2	2	2	Office Fundamentals	25	75	100
31.	IV	Non Major Elective	Paper-2	2	2	Basic Skills in Counselling	25	75	100
				30	26		215	585	800
SEMESTER V							CIA	Uni. Exam	Total
32.	III	Core Theory	Paper-9	6	4	Fundamentals of Social Work Research	25	75	100
33.	III	Core Theory	Paper-10	6	4	Social Welfare Administration	25	75	100
34.	III	Core Theory	Paper-11	6	4	Entrepreneurship Development	25	75	100
35.	III	Core Theory	Paper-12	5	3	Family and Child Welfare	25	75	100
36.	III	Internal Elective	Paper-1	4	3	Development Communication	25	75	100
37.	IV	Skill Based Subject	Paper-2	3	2	Project Management	25	75	100
				30	20		150	450	600
SEMESTER VI							CIA	Uni. Exam	Total
38.	III	Core Theory	Paper-13	6	3	Social Work in Industries	25	75	100

[illegible]

CO3	S	S	M	S	M	S	M	S	S	M	M
CO4	M	S	M	S	M	S	M	S	M	S	S
CO5	S	M	S	M	S	M	S	S	M	S	S

Course Code	Semester VI	Human rights	L	T	P	C
Paper type	INTERNAL ELECTIVE PAPER - 2		4	-	-	3

Course Objectives:

The main objectives of this course are to :

1	Understand the concept of Human Rights, its evaluation at the International level as well as in India and impact of the society.
2	Develop ability to understand areas of Human Rights and acquaintance with Human Rights machinery and their functions.
3	To help students understand the concept of human rights and its significance to the Social Work profession
4	To sensitize students for the application of human rights to the various practice domains of the profession
5	To develop Understanding on Human Right based Social Work interventions

Expected course outcomes:

On the successful completion of the course, students will be able to:

Unit I:	Define human rights	K1
	Explain the types of human rights	K2
	Acquire the knowledge of scope of human rights	K3

	Study about the history of human rights	K4
	Analysis the need of the study of human rights in social work profession	K5
Unit II	Explain the need of the universal declaration of human rights	K1
	Acquire the knowledge about concept of fundamental rights in Indian constitution	K2
	Recall about universal declaration of human rights	K3
	Find out the importance of the study in social work profession	K4
	Explain the significant of need of human rights in India	K5
Unit III	Define DPSP	K1
	Explain the sources of DPSP	K2
	Acquire the knowledge of directive principles of state policy	K3
	Justify the importance and functional DPSP in Indian constitution	K4
	Recall about DPSP	K5
Unit IV	Explain the importance of violation of human rights	K1
	Acquire the knowledge about the need about dalits rights	K2
	Explain the violation of human rights on women	K3
	Summarize the importance of human rights of children	K4
	Recall about DPSP	K1
Unit V	Define human rights	K1
	Explain the importance of human rights in international and national level	K2
	Identify the need of the study in reducing crimes	K3
	Justify about national human rights commission	K4
	Study about the power and functions of human rights commission	K3
		P4

Matching Table

	i. Remembering	ii. Understanding	iii. Applying	iv. Analysing	V. Evaluating	vi. Creating
Unit I	Yes	Yes	Yes	Yes	No	No
Unit II	Yes	Yes	Yes	yes	No	No

Course Code	Semester VI	SOCIAL WORK AMONG THOSE DIFFERNTLY ABLED	L	T	P	C
Paper type	INTERNAL ELECTIVE PAPER - 3		4	-	-	3
Course Objectives:						
The main objectives of this course are to :						
1	To understand the concepts disability and its types.					
2	To understand the causes and legal approaches for the welfare of person with disabilities.					
3	To understand concepts and models of disability.					
4	To understand issues and challenges faced by disabled					
5	To understand policies, programmes and legislation pertaining to disability					
Expected course outcomes:						
On the successful completion of the course, students will be able to:						
Unit I:	Define disability					K1
	Define impairment					K2
	Acquire the knowledge of types of disabilities					K3
	Study about social work intervention with disabled					K4
	Analysis the concept of visually , hearing ,mentally handicapped					K5

Unit II	Explain the need of study in social work profession	K1
	Acquire the knowledge about causes of disabilities	K2
	Find out the meaning about malnutrition, vitamin deficiencies , accidents	K3
	Find out the importance of the genetically disorder	K4
	Explain the significant of deformities	K5
Unit III	Define PWD	K1
	Explain the person with disability act	K2
	Acquire the knowledge of appointments of state commissioners for disabilities	K3
	Justify the importance and functional the PWD act	K4
	Recall about PWD	K5
Unit IV	Explain the importance of government scheme for PWD	K1
	Acquire the knowledge about the need of special education under persons with disability	K2
	Explain the role of social worker working with PWD	K3
	Summarize the benefits different media in public relation	K4
	Recall the importance of government scheme for PWD	K1
Unit V	Define rehabilitation	K1
	Explain the importance of rehabilitation programmes	K2
	Identify the need and function of NGOs working with persons with disabilities	K3
	Justify about role of family in the treatment for disabilities	K4
	Study about rehabilitation for community based , out reach programmes working with PWD	K3
		P4

Matching Table

	i. Rememberin g	ii. Understanding	iii. Applying	iv. Analysin g	V. Evaluati ng	vi. Creatin g
Unit I	Yes	Yes	Yes	Yes	No	No

THIRUVALLUVAR UNIVERSITY

BACHELOR OF SCIENCE

B.Sc., BOTANY

UNDER CBCS (With effect from 2022 - 2023)

The Course of Study and the Scheme of Examinations

S. No.	Part	Study Components		Ins. Hrs / week	Credit	Title of the Paper	Maximum Marks		
		Course Title					CIA	Uni. Exam	Total
		SEMESTER I							
1.	I	Language	Paper-1	6	4	Tamil/Other Languages	25	75	100
2.	II	English (CE)	Paper-1	6	4	Communicative English I	25	75	100
3.	III	Core Theory	Paper-1	6	4	Phycology and Mycology	25	75	100
	III	Core Practical	Practical-1	4	0		0	0	0
4.	III	Allied -1	Paper-1	4	3	(To Choose 1 out of 2) 1. Zoology I 2. Chemistry I	25	75	100
	III	Allied- 1	Practical-1	2	0		0	0	0
5.	III	PE	Paper 1	6	3	Professional English I	25	75	100
6.	IV	Environmental Studies		2	2	Environmental studies	25	75	100
		Sem. Total		36	20		150	450	600
		SEMESTER II					CIA	Uni. Exam	Total
7.	I	Language	Paper-2	6	4	Tamil/Other Languages	25	75	100
8.	II	English (CE)	Paper-2	4	4	Communicative English II	25	75	100
9.	II	NMSDC I : Language Proficiency for Employability	Paper-1	2	2	Effective English	25	75	100
10.	III	Core Theory	Paper-2	5	4	Microbiology, Lichens, Bryology and Plant Pathology	25	75	100
11.	III	Core Practical	Practical-1	3	2	Covering Papers 1 and 2	25	75	100
12.	III	Allied-1	Paper-2	4	3	(To Choose 1 out of 2) 1. Zoology II 2. Chemistry II	25	75	100
13.	III	Allied Practical - 1	Practical-1	2	2	Zoology	25	75	100
14.	III	PE	Paper 1	6	3	Professional English II	25	75	100
15.	IV	Value Education		2	2	Value Education	25	75	100
16.	IV	Soft Skill		2	1	Soft Skill	25	75	100
		Sem. Total		36	27		225	675	900

S.NO	Part	Study Components		Ins. hrs /week	Credit	Title of the Paper	Maximum Marks		
		Course Title							
SEMESTER III							CIA	Uni. Exam	Total
17.	I	Language	Paper-3	6	4	Tamil/Other Languages	25	75	100
18.	II	English	Paper-3	6	4	English	25	75	100
19.	III	Core Theory	Paper-3	4	5	Pteridology, Gymnosperms and Paleobotany	25	75	100
	III	Core Practical	Practical-2	3	0		0	0	0
20.	III	ALLIED-2	Paper-3	4	3	(To Choose 1 out of 2) 1. Zoology I 2. Chemistry I	25	75	100
	III	Allied Practical	Practical-2	3	0		0	0	0
21.	IV	Skill based Subject	Paper-1	2	2	Horticulture	25	75	100
22.	IV	Non-major elective	Paper-1	2	2	Medicinal Botany	25	75	100
				30	20		150	450	600
SEMESTER IV							CIA	Uni. Exam	Total
23.	I	Language	Paper-4	6	4	Tamil/Other Languages	25	75	100
24.	II	English	Paper-4	6	4	English	25	75	100
25.	III	Core Theory	Paper-4	4	5	Plant Cell Biology	25	75	100
26.	III	Core Practical	Practical-2	3	3	Covering Papers 3 and 4	25	75	100
27.	III	ALLIED-2	Paper-4	4	3	(To Choose 1 out of 2) 1. Zoology II 2. Chemistry II	25	75	100
28.	III	Allied Practical-2	Practical-2	3	2		25	75	100
29.	IV	NMSDC II : Digital Skills for Employability	Paper-2	2	2	Office Fundamentals	25	75	100
30.	IV	Non-major elective	Paper-2	2	2	Horticulture	25	75	100
				30	25		200	600	800
SEMESTER V							CIA	Uni. Exam	Total
31.	III	Core Theory	Paper-5	6	5	Anatomy and Embryology of Angiosperms	25	75	100
32.	III	Core Theory	Paper-6	6	5	Morphology and Taxonomy of Angiosperms & Economic Botany	25	75	100
33.	III	Core Theory	Paper-7	6	5	Genetics, Plant Breeding, Evolution and Biostatistics	25	75	100
	III	Core Practical	Practical-3	3	0		0	0	0
	III	Core Practical	Practical-4	3	0		0	0	0
34.	III	Internal Elective	Paper-1	3	3	A. Tissue Culture B. Mass Cultivation of Algae C. Bio safety and Bioethics	25	75	100
35.	IV	Skill based Subject	Paper-2	3	2	Ethno Botany and Herbal Medicines	25	75	100
				30	20		125	375	500

SEMESTER VI							CIA	Uni. Exam	Total
36.	III	Core Theory	Paper-8	5	5	Plant Physiology and Plant Biochemistry	25	75	100
37.	III	Core Theory	Paper-9	5	5	Ecology, Phytogeography and Toxicology	25	75	100
38.	III	Core Practical	Practical-3	3	3	Covering Papers 5, 6 & 7	25	75	100
39.	III	Core Practical	Practical-4	3	3	Covering Papers 8 & 9	25	75	100
40.	III	Core Project	Project – 1	5	5	(Individual / Group Project)	25	75	100
41.	III	Internal Elective	Paper-2	3	3	(to choose one out of 3) A. Plant Biotechnology B. Bio fertilizers C. Postharvest Technology	25	75	100
42.	III	Internal Elective	Paper-3	3	3	(to choose one out of 3) A. Fermentation Technology B. Computer Application in Botany C. Forestry	25	75	100
43.	III	NMSDC III : Medical Coding for Employability	Paper-3	2	2	Medical Coding	25	75	100
44.	V	Extension Activities		-	1		100	0	100
				30	30		300	600	900
					142				4300

THIRUVALLUVAR UNIVERSITY
BACHELOR OF SCIENCE
B.Sc. CHEMISTRY DEGREE COURSE
(With effect from 2022 - 2023)

The Course of Study and the Scheme of Examinations

S. No.	Part	Study Components		Ins. Hrs / week	Credit	Title of the Paper	Maximum Marks		
		Course Title					CIA	Uni. Exam	Total
		SEMESTER I							
1.	I	Language	Paper-1	6	4	Tamil/Other Languages	25	75	100
2.	II	English (CE)	Paper-1	6	4	Communicative English I	25	75	100
3.	III	Core Theory	Paper-1	6	4	General Chemistry - I	25	75	100
	III	Core Practical	Practical-1	3	0	Volumetric Analysis	0	0	0
4.	III	Allied -1	Paper-1	4	3	(Choose any 1 out of 5) 1. Physics I 2. Botany I 3. Zoology I 4. Biochemistry I 5. Mathematics I*	25	75	100
	III	Allied- 1	Practical-1	3	0		0	0	0
5.	III	PE	Paper 1	6	3	Professional English I	25	75	100
6.	IV	Environmental Studies		2	2	Environmental studies	25	75	100
		Sem. Total		36	20		150	450	600
		SEMESTER II							
7.	I	Language	Paper-2	6	4	Tamil/Other Languages	25	75	100
8.	II	English (CE)	Paper-2	4	4	Communicative English II	25	75	100
9.	II	NMSDC I : Language Proficiency for Employability	Paper-1	2	2	Effective English	25	75	100
10.	III	Core Theory	Paper-2	5	4	General Chemistry - II	25	75	100
11.	III	Core Practical	Practical-1	3	2	Volumetric Analysis	25	75	100
12.	III	Allied-1	Paper-2	3	3	(Choose any 1 out of 5) 1. Physics II 2. Botany II 3. Zoology II 4. Biochemistry II 5. Mathematics II*	25	75	100
13.	III	Allied Practical - 1	Practical-1	3	2		25	75	100
14.	III	PE	Paper 1	6	3	Professional English II	25	75	100
15.	IV	Value Education		2	2		25	75	100
16.	IV	Soft Skill		2	1		25	75	100
		Sem. Total		36	27		225	675	900

S.NO.	Part	Study Components		Ins. hrs	Credit	Title of the Paper		Maximum Marks	
		Course Title		/week					
SEMESTER III							CIA	Uni. Exam	Total
17.	I	Language	Paper-3	6	4	Tamil / Other Languages	25	75	100
18.	II	English	Paper-3	6	4	English	25	75	100
19.	III	Core Theory	Paper-3	5	4	General Chemistry – III	25	75	100
	III	Core Practical	Practical-2	3	0	Inorganic Qualitative Analysis & Preparations	0	0	0
20.	III	ALLIED-2	Paper-3	3	3	Any one from 1. Physics –I 2. Botany –I 3. Zoology –I 4. Biochemistry – I 5. Mathematics - I*	25	75	100
	III	Allied Practical	Practical-2	3	0	practical-II	0	0	0
21.	IV	Skill Based Subject	Paper-1	2	2	Water Treatment and Analysis	25	75	100
22.	IV	Non-Major Elective	Paper-1	2	2	Medicinal Chemistry	25	75	100
				30	19		150	450	600
SEMESTER IV							CIA	Uni. Exam	Total
23.	I	Language	Paper-4	6	4	Tamil/Other Languages	25	75	100
24.	II	English	Paper-4	6	4	English	25	75	100
25.	III	Core Theory	Paper-4	5	4	General Chemistry - IV	25	75	100
26.	III	Core Practical	Practical-2	3	3	Inorganic Qualitative Analysis & Preparations	25	75	100
	III	Allied-2	Paper-4	3	3	Any one from 1.Physics -II 2.Botany -II 3.Zoology -II 4.Biochemistry - II 5.Mathematics - II*	25	75	100
27.	III	Allied Practical	Practical-2	3	2	Allied practical-II	25	75	100
28.	IV	NMSDC II : Digital Skills for Employability	Paper-2	2	2		25	75	100
29.	IV	Non-Major Elective	Paper-2	2	2	Chemistry in Every Day Life	25	75	100
				30	24		200	600	800

S.NO.	Part	Study Components		Ins. hrs	Credit	Title of the Paper	Maximum Marks		
		Course Title		/week					
SEMESTER V							CIA	Uni. Exam	Total
30.	III	Core Theory	Paper-5	5	5	Inorganic Chemistry - I	25	75	100
	III	Core Practical	Practical-3	3	0	Gravimetric Estimation	0	0	0
31.	III	Core Theory	Paper-6	5	5	Organic Chemistry - I	25	75	100
	III	Core Practical	Practical-4	3	0	Organic Analysis and Preparations	0	0	0
32.	III	Core Theory	Paper-7	5	4	Physical Chemistry - I	25	75	100
33.	III	Internal Elective	Paper-1	3	3	Any one from A. Analytical chemistry - I B. Basis of computer programming in C and its applications in Chemistry c. Organic Synthesis	25	75	100
34.		Core Practical	Practical - 5	3	0	Physical Chemistry Practical	0	0	0
35.	IV	Skill Based Subject	Paper-2	3	2	Applied Chemistry	25	75	100
				30	19		150	450	600
SEMESTER VI							CIA	Uni. Exam	Total
36.	III	Core Theory	Paper-8	5	4	Inorganic Chemistry - II	25	75	100
37.	III	Core Theory	Paper-9	5	4	Organic Chemistry - II	25	75	100
38.	III	Core Theory	Paper-10	5	4	Physical Chemistry - II	25	75	100
39.		Compulsory Project		0	5		25	75	100
40.	III	Core Practical-3	Practical-3	3	2	Gravimetric Estimation	25	75	100
41.	III	Core Practical-4	Practical-4	3	2	Organic Analysis and Preparations	25	75	100
42.	III	Core Practical-5	Practical-5	3	3	Physical Chemistry Experiments	25	75	100
43.	III	Internal Elective	Paper-2	2	3	Any one from A. Analytical Chemistry-II B. Textile Chemistry C. Nano Chemistry	25	75	100
44.	III	Internal Elective	Paper-3	2	3	Any one from A. Pharmaceutical Chemistry B. Polymer Chemistry C. Green Chemistry	25	75	100
						Agriculture and Leather Chemistry			

45.	III	Skill based Subject	Paper-3	2	2		25	75	100
46.	IV	Extension Activities		0	1		100	0	100
47		NMSDC III : Employability Readiness	-	0	0	(choose any one) • Naandi • Unnati • Quest • Izpay • IBM Skills build	0	0	0
		TOTAL		30	33		350	750	1100

*** Allied Mathematics:**

	Ins. Hrs/Week	Credit	CIA	University	Total Marks
Paper-1	7	4	25	75	100
Paper-2	7	6	25	75	100

if Mathematics is one of the Allied Subjects total no. of papers will be 44.

THIRUVALLUVARUNIVERSITY

B.Sc. COMPUTER SCIENCE

CBCS PATTERN

(With effect from 2022-2023)

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S.NO.	Part	Study Components		Ins. hrs /week	Credit	Title of the Paper	Maximum Marks		
		Course Title					CIA	Uni. Exam	Total
SEMESTER III							CIA	Uni. Exam	Total
17.	I	Language	Paper-3	6	4	Tamil/ OtherLanguages	25	75	100
18.	II	English	Paper-3	6	4	English	25	75	100
19.	III	Core Theory	Paper-3	3	3	Programming in JAVA	25	75	100
20.	III	Core Practical	Practical-3	3	3	Programming in JAVA Lab	25	75	100
21.	III	Allied II	Paper-3	4	3	(Choose any one) 1. Physics I 2. Statistical Methods and Their Applications I	25	75	100
	III	Allied II	Practical	3	0	Physics/Statistics Practical	0	0	0
22.	IV	Skill Based Subject	Paper-1	3	2	Digital Logic Design and Computer Organization	25	75	100
23.	IV	Non-Major Elective	Paper-1	2	2	Introduction to Information Technology	25	75	100
		Sem. Total		30	21		175	525	700
SEMESTER IV							CIA	Uni. Exam	Total
24.	I	Language	Paper-4	6	4	Tamil/Other Languages	25	75	100
25.	II	English	Paper-4	6	4	English	25	75	100
26.	III	Core Theory	Paper-4	3	3	Relational Database Management Systems	25	75	100
27.	III	Core Practical	Practical-4	3	3	RDBMS Lab	25	75	100
28.	III	Allied II	Paper-4	4	3	(to choose any one) 1. Physics II 2. Statistical Methods and their Applications II	25	75	100
29.	III	Allied II	Practical	3	2	Physics/Statistics Practical	25	75	100
30.	IV	NMSDC II : Digital Skills for Employability	Paper-2	3	2	Office Fundamentals	25	75	100
31.	IV	Non-Major Elective	Paper-2	2	2	Internet Technology	25	75	100
		Sem. Total		30	23		200	600	800

S.NO.	Part	Study Components		Ins. hrs /week	Credit	Title of the Paper	Maximum Marks		
		Course Title							
SEMESTER V							CIA	Uni. Exam	Total
32.	III	Core Theory	Paper-5	6	4	Mobile Application Development	25	75	100
33.	III	Core Theory	Paper-6	6	4	Operating System	25	75	100
34.	III	Core Theory	Paper-7	4	3	Design and Analysis of Algorithms	25	75	100
35.	III	Core Practical	Practical-5	4	3	Mobile Applications Development-Lab	25	75	100
36.	III	Core Practical	Practical-6	4	3	Operating System-Lab	25	75	100
37.	III	Internal Elective	Paper-1	3	3	(tochooseanyone) 1. Data Mining 2. Information Security 3. Software Testing	25	75	100
38.	IV	Skill Based Subject	Paper-2	3	2	Software Engineering	25	75	100
				30	22		175	525	700
SEMESTER VI							CIA	Uni. Exam	Total
39.	III	Core Theory	Paper-8	5	4	Open Source Software	25	75	100
40.	III	Core Theory	Paper-9	4	4	Python Programming	25	75	100
41.	III	Core Practical	Practical-7	4	3	Python Programming Lab	25	75	100
42.	III	Core Practical	Practical-8	4	2	Open Source Programming Lab	25	75	100
43.	III	Project		5	5	Project Work (Group/Individual Project)	25	75	100
44.	III	Internal Elective	Paper - 2	3	3	(tochooseanyone) 1. Big Data Analytics 2. Cryptography 3. Digital Image Processing	25	75	100
45.	III	Internal Elective	Paper - 3	3	3	(tochooseanyone) 1. Artificial Intelligence 2. System Software 3. Cloud Computing	25	75	100

46.	IV	NMSDC III : Emerging Technology for Employability -	Paper - 3	2	2	(Choose any one) • PBL Android App Development • Machine Learning	25	75	100
47.	V	Extension Activities		0	1		100	0	100
		Sem. Total		30	27		300	600	900
					142				

THIRUVALLUVAR UNIVERSITY
BACHELOR OF SCIENCE
B.Sc. MATHEMATICS DEGREE COURSE
(With effect from 2022 - 2023)

The Course of Study and the Scheme of Examinations

S. No.	Part	Study Components		Ins. Hrs / week	Credit	Title of the Paper	Maximum Marks		
		Course Title					CIA	Uni. Exam	Total
		SEMESTER I							
1.	I	Language	Paper-1	6	4	Tamil/Other Languages	25	75	100
2.	II	English (CE)	Paper-1	6	4	Communicative English I	25	75	100
3.	III	Core Theory	Paper-1	5	3	Algebra	25	75	100
4.	III	Core Theory	Paper-2	5	3	Trigonometry	25	75	100
5.	III	Allied -1	Paper-1	4	3	(to choose any 1 out of 4)	25	75	100
	III	Allied- 1	Practical-1	2	0	(For Practical Allied subjects)	0	0	0
6.	III	PE	Paper 1	6	3	Professional English I	25	75	100
7.	IV	Environmental Studies		2	2	Environmental studies	25	75	100
		Sem. Total		36	22		175	525	700
SEMESTER II							CIA	Uni. Exam	Total
8.	I	Language	Paper-2	6	4	Tamil/Other Languages	25	75	100
9.	II	English (CE)	Paper-2	4	4	Communicative English II	25	75	100
10.	II	NMSDC I : Language Proficiency for Employability	Paper-1	2	2	Effective English	25	75	100
11.	III	Core Theory	Paper-3	4	3	Calculus	25	75	100
12.	III	Core Theory	Paper-4	4	3	Analytical Geometry of three dimensions	25	75	100
13.	III	Allied-1	Paper-2	4	3	(to choose any 1 out of 4) (For Practical Allied subjects)	25	75	100
14.	III	Allied Practical – 1	Practical-1	2	2	(to choose any 1 out of 4) (For Practical Allied subjects)	25	75	100
15.	III	PE	Paper 1	6	3	Professional English II	25	75	100
16.	IV	Value Education		2	2		25	75	100
17.	IV	Soft Skill		2	1		25	75	100
		Sem. Total		36	27		250	750	1000
SEMESTER III									
18.	I	Language	Paper-3	6	4	Tamil / Other Languages	25	75	100
19.	II	English	Paper-3	6	4	English	25	75	100
20.	III	Core Theory	Paper-5	6	5	Differential Equations and Laplace Transforms	25	75	100
21.	III	Allied-2	Paper-3	4	3	(to choose any 1 out of 4) (For Practical Allied subjects)	25	75	100
	III	Allied Practical – 2	Practical-2	3	0		0	0	0
22.	IV	Skill Based Subject	Paper-1	3	2	Mathematics for competitive Examinations – I	25	75	100
23.	IV	Non-Major Elective	Paper-1	2	2	Basic Mathematics	25	75	100
		Sem. Total		30	20		150	450	600

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THIRUVALLUVAR UNIVERSITY

BACHELOR OF SCIENCE

B.Sc. PHYSICS

DEGREE COURSE

(With effect from 2022 - 2023)

The Course of Study and the Scheme of Examinations

S. No.	Part	Study Components		Ins. Hrs / week	Credit	Title of the Paper	Maximum Marks		
		Course Title					CIA	Uni. Exam	Total
SEMESTER I									
1.	I	Language	Paper-1	6	4	Tamil/Other Languages	25	75	100
2.	II	English (CE)	Paper-1	6	4	Communicative English I	25	75	100
3.	III	Core Theory	Paper-1	6	4	Mechanics	25	75	100
	III	Core Practical	Paper-1	3	0		0	0	0
4.	III	Allied -1	Paper-1	4	3	Chemistry I or Biochemistry I	25	75	100
	III	Allied Practical	Practical-1	3	0		0	0	0
5.	III	PE	Paper 1	6	3	Professional English I	25	75	100
6.	IV	Environmental Studies		2	2	Environmental studies	25	75	100
		Sem. Total		36	20		150	450	600
SEMESTER II							CIA	Uni. Exam	Total
7.	I	Language	Paper-2	6	4	Tamil/Other Languages	25	75	100
8.	II	English (CE)	Paper-2	4	4	Communicative English II	25	75	100
9.	II	NMSDC I : Language Proficiency for Employability	Paper-1	2	2	Effective English	25	75	100
10.	III	Core Theory	Paper-2	4	4	Heat and Thermodynamics	25	75	100
11.	III	Core Practical	Practical-1	3	2	Practical - I	25	75	100
12.	III	Allied-1	Paper-2	4	3	Chemistry II or Biochemistry II	25	75	100
13.	III	Allied Practical	Practical-1	3	2	Practical-Allied	25	75	100
14.	III	PE	Paper 1	6	3	Professional English II	25	75	100
15.	IV	Value Education		2	2	Value Education	25	75	100
16.	IV	Soft Skill		2	1	Soft Skill	25	75	100
		Sem. Total		36	27		250	750	1000
SEMESTER III							CIA	Uni. Exam	Total
17.	I	Language	Paper-3	6	4	Tamil/Other Languages	25	75	100

18.	II	English	Paper-3	6	4	English	25	75	100
19.	III	Core Theory	Paper-3	5	4	Electricity, Magnetism and Electromagnetism	25	75	100
	III	Core Practical	Paper-2	3	0		0	0	0
20.	III	Allied-2	Paper-3	6	3	Mathematics I	25	75	100
21.	IV	Skill Based Subject	Paper-1	2	2	Basic Electrical Technology	25	75	100
22.	IV	Non-Major Elective	Paper-1	2	2	Environmental Physics	25	75	100
		Sem. Total		30	19		150	450	600
SEMESTER IV									
23.	I	Language	Paper-4	6	4	Tamil/Other Languages	25	75	100
24.	II	English	Paper-4	6	4	English	25	75	100
25.	III	Core Theory	Paper-4	5	5	Waves and Optics	25	75	100
26.	III	Core Practical	Practical-2	3	3	Any 15 Experiments given in the syllabus	25	75	100
27.	III	Allied-2	Paper-4	6	5	Mathematics II	25	75	100
28.	IV	NMSDC II : Digital Skills for Employability	Paper-2	2	2	Office Fundamentals	25	75	100
29.	IV	Non-Major Elective	Paper-2	2	2	Everyday Physics	25	75	100
		Sem. Total		30	25		175	525	700
SEMESTER V									
30.	III	Core Theory	Paper-5	6	6	Atomic and Molecular Physics	25	75	100
31.	III	Core Theory	Paper-6	6	6	Relativity and Quantum mechanics	25	75	100
32.	III	Core Theory	Paper-7	6	6	Basic and Applied Electronics	25	75	100
	III	Core Practical	Practical-3	3	0	General Practical	0	0	0
	III	Core Practical	Practical-4	3	0	Electronics Practical	0	0	0
33.	III	Elective	Paper-1	4	3	Group (A) or (B) or (C)	25	75	100
34.	IV	Skill Based Subject	Paper-2	2	2	Cell Phone Technology	25	75	100
		Sem. Total		30	23		125	375	500
SEMESTER VI									
35.	III	Core Theory	Paper-8	6	5	Nuclear and Particle Physics	25	75	100
36.	III	Core Theory	Paper-9	5	5	Solid State Physics	25	75	100
37.	III	Core Practical	Practical-3	3	3	General Practical	25	75	100
38.	III	Core Practical	Practical-4	3	3	Electronics Practical	25	75	100
39.	III	Elective	Paper-2	4	3	Group (A) or (B) or (C)	25	75	100
40.	III	Elective	Paper-3	4	3	Group (A) or (B) or (C)	25	75	100
41.	III	Compulsory Project	Paper-10	3	3	Group / Individual Project	25	75	100
42.	III	NMSDC III : Data Analytics with Advanced Tools for Employability	Paper-3	2	2	Project Based Learning III	25	75	100
43.	V	Extension Activities		0	1		100	0	100
		Sem. Total		30	28		300	600	900
		Grand Total			142				4300

THIRUVALLUVAR UNIVERSITY

BACHELOR OF SCIENCE

B.Sc. ZOOLOGY

DEGREE COURSE

(With effect from 2022 - 2023)

The Course of Study and the Scheme of Examinations

S. No.	Part	Study Components		Ins. Hrs / week	Credit	Title of the Paper	Maximum Marks		
		Course Title					CIA	Uni. Exam	Total
		SEMESTER I							
1.	I	Language	Paper-1	6	4	Tamil/Other Languages	25	75	100
2.	II	English (CE)	Paper-1	6	4	Communicative English I	25	75	100
3.	III	Core Theory	Paper-1	6	4	Invertebrata	25	75	100
	III	Core Practical	Practical-1	4	0	Invertebrata and chordata	0	0	0
4.	III	Allied -1	Paper-1	4	3	(To choose 1 out of 3) 1. Chemistry – I 2. Botany – I 3. Economic Entomology – I	25	75	100
	III	Allied- 1	Practical-1	2	0		0	0	0
5.	III	PE	Paper 1	6	3	Professional English I	25	75	100
6.	IV	Environmental Studies		2	2	Environmental studies	25	75	100
		Sem. Total		36	20		150	450	600
		SEMESTER II					CIA	Uni. Exam	Total
7.	I	Language	Paper-2	6	4	Tamil/Other Languages	25	75	100
8.	II	English (CE)	Paper-2	4	4	Communicative English II	25	75	100
9.	II	NMSDC I : Language Proficiency for Employability	Paper 1	2	2	Effective English	25	75	100
10.	III	Core Theory	Paper-2	5	4	Chordata	25	75	100
11.	III	Core Practical	Practical-1	3	2	Invertebrata and chordata	25	75	100
12.	III	Allied-1	Paper-2	4	3	(To choose 1 out of 3) 1. Chemistry II 2. Botany II 3. Economic Entomology II	25	75	100
13.	III	Allied Practical - 1	Practical-1	2	2		25	75	100
14.	III	PE	Paper 1	6	3	Professional English II	25	75	100
15.	IV	Value Education		2	2		25	75	100

16.	IV	Soft Skill		2	1		25	75	100
		Sem. Total		36	27		250	750	1000
		SEMESTER III					CIA	Uni. Exam	Total
17.	I	Language	Paper-3	6	4	Tamil/Other Languages	25	75	100
18.	II	English	Paper-3	6	4	English	25	75	100
19.	III	Core Theory	Paper-3	4	4	Cell and molecular Biology	25	75	100
	III	Core Practical	Practical- II	3	0	Cell and molecular Biology	0	0	0
20.	III	Allied-2	Paper-3	4	3	(To choose 1 out of 3) 1. Chemistry - I 2. Botany - I 3. Economic Entomology - I	25	75	100
		Allied Practical - 2	Practical-2	3	0		0	0	0
21.	IV	Skill Based Subject	Paper-1	2	2	(To choose 1 out of 2) 1.Vermiculture 2. Single Cell Protein Culture	25	75	100
22.	IV	Non-Major Elective	Paper-1	2	2	(To choose 1 out of 2) 1.Public Health and Hygiene 2.Poultry Farming	25	75	100
		Sem. Total		30	19		150	450	600
		SEMESTER IV					CIA	Uni. Exam	Total
23.	I	Language	Paper-4	6	4	Tamil/Other Languages	25	75	100
24.	II	English	Paper-4	6	4	English	25	75	100
25.	III	Core Theory	Paper-4	4	4	Genetics and Biotechnology	25	75	100
26.	III	Core Practical	Practical-2	3	3	Cell and molecular Biology and Genetics and Biotechnology	25	75	100
27.	III	Allied-2	Paper-4	4	3	(To choose 1 out of 3) 1. Chemistry II 2. Botany II 3. Economic Entomology II	25	75	100
28.	III	Allied Practical - 2	Practical-2	3	2		25	75	100
29.	IV	NMSDC II : Digital Skills for Employability	Paper-2	2	2	Office Fundamentals	25	75	100
30.	IV	Non-Major Elective	Paper-2	2	2	(To choose 1 out of 2) 1. Bio-Fertilizer Production 2. Aquarium Fish keeping	25	75	100
		Sem. Total		30	24		200	600	800
		SEMESTER V					CIA	Uni.	Total

								Exam	
30.	III	Core Theory	Paper-5	6	6	Bio-Statistics and Bio-Informatics	25	75	100
	III	Core Practical	Practical-3	3	0	Bio-Statistics and Bio-Informatics Developmental Biology and Immunology Animal Physiology	0	0	0
31.	III	Core Theory	Paper-6	6	6	Developmental Biology and Immunology	25	75	100
		Core Practical	Practical-4	3	0	Environmental Biology Economic Zoology	0	0	0
32.	III	Core Theory	Paper-7	6	5	Animal Physiology	25	75	100
33.	III	Internal Elective	Paper-1	3	3	(To choose 1 out of 2) 1. NanoTechnology in Life Sciences 2.Human Endocrinology	25	75	100
34.	IV	Skill Based Subject	Paper-2	3	2	(To choose 1 out of 2) 1. Animal Behavior 2.VegetableMeat Culture	25	75	100
		Sem. Total		30	22		125	375	500
		SEMESTER VI					CIA	Uni. Exam	Total
35.	III	Core Theory	Paper-8	5	5	Environmental Biology	25	75	100
36.	III	Core Theory	Paper-9	5	5	Economic Zoology	25	75	100
37.	III	Core Practical	Practical-3	3	3	Bio-Statistics and Bio-Informatics Developmental Biology and Immunology Animal Physiology	25	75	100
38.	III	Core Practical	Practical-4	3	3	Environmental Biology Economic Zoology	25	75	100
39.	III	Compulsory Project	Paper-10	5	5	Individual / Group Project	25	75	100
40.	III	Internal Elective	Paper-2	3	3	(To choose 1 out of 2) 1. Evolution 2.Microbiology	25	75	100
41.	III	Internal Elective	Paper-3	3	3	(To choose 1 out of 2) 1. Bio Chemistry 2.Applied Entomology	25	75	100
42.	IV	Skill based Subject	Paper-3	3	2	(To choose 1 out of 2) 1.Medical Lab Technology 2.Industrial Fishery Management	25	75	100
43.	V	Extension Activities		0	1		100	0	100

[illegible]

AI Fluency

- Pre-Assessment: <https://forms.office.com/r/TmFs7wLkW2>
- [Video Link](#)
- Post-Assessment: <https://forms.office.com/r/13RhGzvzLK>

Digital Productivity

- Pre-Assessment: <https://forms.office.com/r/ppW1g0aXzi>
- [Video Link](#)
- Post-Assessment: <https://forms.office.com/r/GU3NNXGkiZ>

Employability

- Pre-Assessment: <https://forms.office.com/r/PUhRPp0YZ1>
- [Video Link](#)
- Post-Assessment: <https://forms.office.com/r/LDNKvr5LvB>

Communication

- Pre-Assessment: <https://forms.office.com/r/T9AQd0409y>
- [Video Link](#)
- Post-Assessment: <https://forms.office.com/r/3RVnQSag0Z>

Entrepreneurship

- Pre-Assessment: <https://forms.office.com/r/bwNNGeMBg1>
- [Video Link](#)
- Post-Assessment: <https://forms.office.com/r/wcQCADieGT>

THIRUVALLUVAR UNIVERSITY, VELLORE – 632 115

B.Sc. MATHEMATICS – 2022-2023 onwards

Semester: I/III

Paper type: Allied

Paper code: A – 01

Name of the Paper: ALLIED MATHEMATICS – I

Credit:4

(For B.Sc., Physics , Chemistry, Computer Science and Statistics)

Total Hours per Week: 7

Lecture Hours: 7

Tutorial Hours: Practical Hours:

Course Objective

1. To explore the fundamental concepts of Mathematics.
2. To acquire knowledge about finding approximate roots of the polynomial equations.
3. To improve students' ability in applications of matrices and calculus.
4. Students are exposed to understanding the concept of derivatives and their applications.
5. To expose double and triple integrals and their applications.

Course Outcomes

1. After studied unit -1, the student will be able to find out the approximate roots of polynomial equations.
2. After studied unit -2, the student will be able to develop the skills of finding roots of simultaneous equations.
3. After studied unit -3, the student will be able to demonstrate knowledge about matrices and their applications.
4. After studied unit -4, the student will be able to carry out calculations of problems related to curvature and radius of curvature.
5. After studied unit -5, the student will be able to evaluate double and triple integrals, and enabled to understand the applications of integration in real-life situations.

Matching Table

Unit	i. Remembering	ii. Understanding	iii. Applying	iv. Analyzing	v. Evaluating	vi. Creating
1	Yes	Yes	Yes	Yes	Yes	Yes
2	Yes	Yes	Yes	Yes	Yes	Yes
3	Yes	Yes	Yes	No	Yes	No
4	Yes	Yes	Yes	Yes	Yes	No
5	Yes	Yes	Yes	Yes	Yes	Yes

UNIT-I: SOLUTIONS OF TRANSCENDENTAL AND ALGEBRAIC EQUATIONS

Iteration method, Bisection method, Newton's method - Regula Falsi method, Horner's method(without proof) (Simple problems only)

Unit-II: SOLUTIONS OF SIMULTANEOUS EQUATIONS

Gauss Elimination method - Gauss Jordan method - Gauss Seidel Iterative method - Gauss Jacobi method (Restricted to three variables only) (Simple problems only)

UNIT-III: MATRICES

Characteristic equation of a square matrix– Eigen values and eigen vectors – Cayley – Hamilton theorem [without proof] – Verification and computation of inverse matrix-

UNIT-IV: DIFFERENTIAL CALCULUS

n-th derivatives – Leibnitz theorem [without proof] and applications – Jacobians– Curvature and radius of curvature in Cartesian co-ordinates and polar co-ordinates.

UNIT-V: APPLICATION OF INTEGRATION

Evaluation of double, triple integrals – Simple applications to area, volume, and centroid.

TEXT BOOKS:

1. P.Kandasamy, K.Thilagavathy (2003) Calculus of Finite differences & Numerical Analysis, S. Chand & Company Ltd., New Delhi-55.
Unit-I: Chapter 1
Unit-II: Chapter 2
2. P. Duraipandian and Dr. S. Udayabaskaran (1997), “Allied Mathematics” , Vol I & II. Chennai: Muhil Publishers.
Unit-III: Sec(1.1.1,1.1.2,1.2,1.4.3),
Unit-IV: Sec(2.7,4.1,4.1.1,4.2),
Unit-V: Chap:3(3.4,3.4.1,3.5,3.5.1,3.5.2,3.6),

REFERENCE BOOKS:

1. P. Balasubramanian and K. G. Subramanian. 1997, “Ancillary Mathematics”, Vol I & II. New Delhi: Tata McGraw Hill.
2. S.P.Rajagopalan and R.Sattanathan(2005), “Allied Mathematics”, Vol I & II. New Delhi: Vikas Publications.
3. S.J.Venkatesan, “Allied Mathematics - I”, Sri Krishna Publications, Chennai.
4. P. R. Vittal (2003), “Allied Mathematics”, Margham Publication, Chennai.
5. A.Singaravelu “Numerical Methods”Meenakshi Publications

Course Material: website links, e-Books and e-journals

<https://www.classcentral.com/course/polynomials-roots-44577>

<https://ocw.mit.edu/courses/22-15-essential-numerical-methods-fall-2014/pages/syllabus/>

<https://ocw.mit.edu/courses/18-330-introduction-to-numerical-analysis-spring-2004/>

<https://tutorial.math.lamar.edu/Classes/CalcII/CalcII.aspx>

Mapping with Programme Outcomes

Cos	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10
CO1	S	S	S	M	M	S	M	S	S	M
CO2	M	S	S	S	S	S	S	M	M	S
CO3	M	S	S	S	S	S	M	S	S	S
CO4	S	S	S	M	S	S	M	M	M	S
CO5	S	M	S	M	M	M	M	S	S	S

PO – Programme Outcome, CO – Course outcome

S – Strong, M – Medium, L – Low (may be avoided)

THIRUVALLUVAR UNIVERSITY, VELLORE – 632 115

B.Sc. MATHEMATICS – 2022-2023 onwards

Semester: II/IV

Paper type: Allied

Paper code: A – 02 Name of the Paper: PAPER – 2 – ALLIED MATHEMATICS –II Credit:4

(For B.Sc., Physics , Chemistry, Computer Science and Statistics)

Total Hours per Week: 7

Lecture Hours: 7

Tutorial Hours: Practical Hours:

Course Objective

1. This course is designed for the students to expose the topics such as expansions of trigonometric functions, partial differential equations, vector differentiation, and integration.
2. To gain knowledge of expansions of trigonometric functions.
3. To acquire the knowledge of solving partial differential equations.
4. Basic knowledge of vector calculus.
5. To understand and carry out the calculations of a given set of data.

Course Outcomes

1. After studied unit -1, the student will be able to find out the expansions of trigonometric functions and carry out problems related to hyperbolic and inverse hyperbolic functions.
2. After studied unit -2, the student will be able to provide a basic knowledge of partial differential equations and develops knowledge on handling practical problems.
3. After studied unit -3, the student will be able to demonstrate knowledge of solving problems involving vector and scalar functions.
4. After studied unit -4, the student will be able to carry out problems on vector integration.
5. After studied unit -5, the student will be able to understand the applications of differentiation and integration in real-life situations.

Matching Table

Unit	i. Remembering	ii. Understanding	iii. Applying	iv. Analyzing	v. Evaluating	vi. Creating
1	Yes	Yes	Yes	No	Yes	No
2	Yes	Yes	Yes	Yes	Yes	Yes
3	Yes	Yes	Yes	Yes	Yes	Yes
4	Yes	Yes	Yes	Yes	Yes	No
5	Yes	Yes	Yes	Yes	Yes	No

UNIT-I:TRIGONOMETRY

Expansions of $\sin^n \theta$, $\cos^n \theta$, $\sin n\theta$, $\cos n\theta$, $\tan n\theta$ – Expansions of $\sin \theta$, $\cos \theta$, $\tan \theta$ in terms of θ – Hyperbolic and inverse hyperbolic functions – Logarithms of complex numbers.

Unit-I: Chap: 6 (6.1,6.1.1-6.1.3,6.2,6.2.1-6.2.3,6.3,6.4)

UNIT-II: PARTIAL DIFFERENTIAL EQUATIONS

Formation-complete integrals and general integrals-Four standard types-Lagranges equations.
Unit-II: Chap:6 (6.1,6.1.1,6.2,6.3,6.4).

UNIT-III: VECTOR DIFFERENTIATION

Vector functions- Derivative of a vector function- Scalar and vector point functions- Gradient of a scalar point function- Gradient- Directional derivatives –Unit vector normal to a surface – angle between the surfaces-divergence, curl.

Unit-IIISec(8.1,8.1.1,8.2,8.3,8.3.1,8.3.2,8.4,8.4.1,8.4.2,8.4.3,8.4.4).

UNIT-IV: VECTOR INTEGRATION

Green's theorem in the plane- Gauss divergence theorem- Stoke's theorem [without proofs].
Unit-IV:Sec(8.6.1, - 8.6.3).

UNIT-V: FINITE DIFFERENCES

Operator E, Relation between Δ , ∇ and E – Interpolation – Newton – Gregory forward & backward formulae for interpolation-Lagrange's interpolation formula for unequal intervals(without proof) .

Unit-V:Sec(5.1,5.2).

TEXT BOOK:

1.P. Duraipandian and S. Udayabaskaran(1997), "Allied Mathematics", Vol I & II. Chennai: Muhil Publishers.

Unit-I: Chap: 6 (6.1,6.1.1-6.1.3,6.2,6.2.1-6.2.3,6.3,6.4), Vol I,

Unit-II: Chap:6 (6.1,6.1.1,6.2,6.3,6.4), Vol II,

Unit-IIISec(8.1,8.1.1,8.2,8.3,8.3.1,8.3.2,8.4,8.4.1,8.4.2,8.4.3,8.4.4),Vol I,

Unit-IV:Sec(8.6.1, - 8.6.3), Vol I,

Unit-V:Sec(5.1,5.2), Vol II.

REFERENCE BOOKS:

1. P. Balasubramanian and K. G. Subramanian. 1997, "Ancillary Mathematics", Vol I & II. New Delhi: Tata McGraw Hill.
2. S.P.Rajagopalan and R.Sattanathan(2005), "Allied Mathematics", Vol I & II. New Delhi: Vikas Publications.
3. S.J.Venkatesan, "Allied Mathematics - II", Sri Krishna Publications, Chennai.
4. P. R. Vittal (2003), "Allied Mathematics", Margham Publications, Chennai.
5. P.Kandhasamy, K. Thilagavathy (2003), "Allied Mathematics" Vol I & II, New Delhi: Tata McGraw Hill.
6. P.Kandasamy, K.Thilagavathy (2003) Calculus of Finite differences & Numerical Analysis, S. Chand & Company Ltd., New Delhi-55.

Course Material: website links, e-Books and e-journals

<https://tutorial.math.lamar.edu/Extras/AlgebraTrigReview/AlgebraTrig.aspx>

<https://ocw.mit.edu/courses/18-330-introduction-to-numerical-analysis-spring-2004/>
<https://www.engineering.iastate.edu/student-services/orientation/math-142-trigonometry-analytical-geometry/>
<https://www.classcentral.com/course/edx-differential-equations-fourier-series-and-partial-differential-equations-11763>
<https://www.classcentral.com/course/vector-calculus-engineers-17387>
<https://www.classcentral.com/course/brilliant-vector-calculus-59277>

Mapping with Programme Outcomes

Cos	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10
CO1	S	S	S	M	M	M	M	M	M	M
CO2	M	M	M	S	S	S	M	S	S	M
CO3	S	S	S	S	M	M	S	S	M	S
CO4	M	S	S	S	S	M	M	M	M	M
CO5	S	S	S	M	M	M	M	M	M	M

PO – Programme Outcome CO – Course outcome

S – Strong M-Medium L – Low (may be avoided)

(With effect from 2022-2023)

Sl. No.	Study Components		Ins. hrs /week	Credit	Title of the paper	Maximum Marks		
	Course title							
SEMESTER I						CIA	Uni Exam	Total
1.	Core	Paper 1	5	4	Introduction to International Relations	25	75	100
2.		Paper 2	5	4	War-Its Causes and Consequences	25	75	100
3.		Paper 3	5	4	Conceptual Aspect of Security	25	75	100
4.		Paper 4	5	4	India's National Security	25	75	100
Internal Elective for same major students								
5.	Core Elective	Paper 1	5	3	(to choose one out of 3) a) India's Security Policy b) Act East Policy c) India's policy towards USA	25	75	100
External Elective for other major students (Inter/multi-disciplinary papers)								
6.	Open Elective	Paper 1	5	3	(to choose one out of 3) a) National Security b) Disaster Management c) Insurgency and Security	25	75	100
			30	22		150	450	600
SEMESTER II								
SEMESTER II						CIA	Uni Exam	Total
7.	Core	Paper 5	6	4	Theories of International Relations	25	75	100
8.		Paper 6	6	4	Introduction to International Law	25	75	100
9.		Paper 7	6	4	Strategic Thought	25	75	100
Internal Elective for same major students								
10.	Core Elective	Paper -2	4	3	(to choose one out of 3) a) Introduction to Peace Study b) Gandhian Studies c) Ambedkar's thoughts of Peace	25	75	100
External Elective for other major students (Inter/multi-disciplinary papers)								

11.	Open Elective	Paper 2	4	3	(to choose one out of 3) a) Maritime Security b) Cyber Security c) Island Security	25	75	100
12.	Field Study		-	2		100	-	100
13.	Compulsory Paper		4	2	Human Rights	25	75	100
			30	22		250	450	700
SEMESTER III								
						CIA	Uni Exam	Total
14.	Core	Paper 9	6	5	Geo-Politics	25	75	100
15.		Paper 10	6	4	Defence Economics	25	75	100
16.		Paper 11	6	4	Low Intensity Conflict	25	75	100
17.		Paper-12	6	4	Contemporary International Security	25	75	100
Internal Elective for same major students								
18.	Core Elective	Paper -3	3	3	(to choose one out of 3) a) Comprehensive Security b) Environmental Security c) Economic Security	25	75	100
External Elective for other major students (Inter/multi-disciplinary papers)								
19.	Open Elective	Paper 3	3	3	(to choose one out of 3) a) Governance of Security b) Industrial Security c) Information Security	25	75	100
20.	MOOC Courses		-	2	SWAYAM, NPTEL	-	-	100
			30	25		150	450	700
SEMESTER IV								
						CIA	Uni Exam	Total
21.	Core	Paper 13	5	4	Research Methodology in Social Science	25	75	100
22.		Paper 14	5	4	Conflict Resolution	25	75	100
23.		Paper 15	5	4	Science and Technology and Security	25	75	100
24.	Core	Project	5	5	Project with Viva Voce	100 (75 Project +25 viva)		100
Internal Elective for same major students								

25.	Core Elective	Paper -4	5	3	(to choose one out of 3) a) Area Studies –South Asia and Neighbours b) South East and West Asia c) Central Asia Responsibility	25	75	100
External Elective for other major students (Inter/multi-disciplinary papers)								
26.	Open Elective	Paper -4	5	3	(to choose one out of 3) a) Introduction to Defence Journalism b) Management of Refugee crisis. c) Indian Ocean Studies	25	75	100
			30	23		150	450	600
			120	92				2600

SEMESTER-I

Course code

CORE

INDIA'S NATIONAL SECURITY

PAPER 4

Syllabus
Version 2022-
23

Course Objectives:

The main objectives of this course are to: To inculcate knowledge on National Security of India

Expected Course Outcomes:

On the successful completion of the course, student will be able to:

- | | | |
|---|--|----|
| 1 | Understanding basics of National Security | K1 |
| 2 | Understand the India's security relationship with Russia | K2 |
| 3 | Understand the India's security relationship with USA. | K3 |
| 4 | Understand the India's security problem with Pakistan | K4 |
| 5 | Understand the India's security problem with China | K5 |

K1 - Remember; **K2** - Understand; **K3** - Apply; **K4** - Analyze; **K5** - Evaluate; **K6** – Create

Unit:1

Introduction – Concept and meaning of National Security and its Objectives

Unit:2

India's Security Relationship with Russia.

Unit:3

India's Security relationship with USA

Unit:4

India's Security Problems with Pakistan.

Unit:5

India's Security Problems and Policies with China.

REFERENCE BOOKS

1. Barry, Buzon, People, State and Fear: The National Security problems in International Relations, Sussex; Wheatsheaf of Books, 1983.
2. Bajpai, U.S., (ed) India's Security: The Politico-Strategic Environment, New Delhi: Lancers Books, 1983.
3. Dixit, J.N., Across Borders: Fifty Years of India's Foreign Policy, New Delhi: Picus Books, 1998.
4. Sathish Kumar, (ed)., Yearbook on India's foreign Policy, New Delhi: Deep & Deep, 1993.
5. Barry, Buzon, People, State and Fear: The National Security problems in International Relations, Sussex; Wheatsheaf of Books, 1983.

SEMESTER-IV

Course
code

CORE

**RESEARCH METHODOLOGY IN
SOCIAL SCIENCE**

PAPER- 13

Syllabus 2022
Version -23

Course Objectives:

The main objectives of this course are To obtain knowledge on Research Methodology in Defence and Strategic Studies

Expected Course Outcomes:

On the successful completion of the course, student will be able to:

- | | | |
|---|--|----|
| 1 | Remember the concept of Research | K1 |
| 2 | Understand the concepts of Sampling | K2 |
| 3 | Describe the Data Processing and Analyzing | K3 |
| 4 | Explain the concepts of Peace Research | K4 |
| 5 | Understand the Case study | K5 |

K1 - Remember; **K2** - Understand; **K3** - Apply; **K4** - Analyze; **K5** - Evaluate; **K6** - Create

Unit:1

Research in Defence and Strategic Studies: Definition, scope, various type of Research, Major steps in Research-Design and Hypothesis

Unit:2

Sampling: Meaning, Definition, Need and Types –Data Collection-Primary and Secondary data, tools of data collection- questionnaire and interviews.

Unit:3

Data Processing and Analyzing: Use of Computer in Social Research Analysis of Data-Interpretation.

Unit:4

Peace Research: Application, practical Problems and Research reports

Unit:5

Case study

Reference books

1. Pannerselvam R, Research Methodology, Prentice Hall of India, New Delhi-2004
2. Green P.E, Research Methodology Decisions, Prentice Hall of India, New Delhi-1994

Mapping with Programme Outcomes										
COs	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10
CO1	S	L	L	L	L	M	M	L	L	L
CO2	S	L	M	M	L	L	L	L	L	L
CO3	S	L	L	M	L	M	L	L	L	L

C04	S	L	M	L	L	M	L	L	L	L
C05	S	L	M	M	L	M	M	L	L	L

*S-Strong; M-Medium; L-Low

THIRUVALLUVAR UNIVERSITY

M.A. ECONOMICS

SYLLABUS

UNDER CBCS

(With effect from 2022-2023)

The Course of Study and the Scheme of Examinations

S. No	Study Components		ins. hrs / week	Credit	Title of the Paper	Maximum Marks		
	Course Title					CIA	Uni. Exam	Total
SEMESTER I								
1.	Core	Paper 1	6	4	Microeconomics – I	25	75	100
2.	Core	Paper 2	6	4	Macroeconomics – I	25	75	100
3.	Core	Paper 3	6	4	Statistics for Economics – I	25	75	100
4.	Core	Paper 4	6	4	Indian Economic Development	25	75	100
Internal Elective for same major students (Choose any one)								
5.	Core Elective	Paper-1	3	3	A. Agricultural Economics B. Labour Economics C. Monetary Economics	25	75	100
External Elective for other major students (Inter/multi-disciplinary papers)								
6.	Open Elective	Paper-1	3	3	(To choose one out of 3) A. Basic Economics B. Recent Issues in Indian Economy - I C. An Introduction to Environmental Economics	25	75	100
			30	22		150	450	600
SEMESTER II						CIA	Uni. Exam	Total
7.	Core	Paper 5	6	4	Microeconomics – II	25	75	100
8.	Core	Paper 6	6	4	Macroeconomics – II	25	75	100
9.	Core	Paper 7	6	4	Statistics for Economics – II	25	75	100
Internal Elective for same major students (Choose any one)								
10.	Core Elective	Paper-2	5	3	A. Economics of Social Issues B. Statistical Software C. Mathematical Economics	25	75	100
External Elective for other major students (Inter/multi-disciplinary papers)								

11.	Open Elective	Paper-2	5	3	(To choose one out of 3) A. Marketing Management B. Recent Issues in Indian Economy - II C. Agricultural Economy of India	25	75	100
12.	Field Study		-	2		100	-	100
13.	Compulsory Paper		2	2	Human Rights	25	75	100
			30	22		250	450	700

SEMESTER III						<i>CIA</i>	<i>Uni. Exam</i>	<i>Total</i>
14.	Core	Paper 8	5	4	Public Finance I	25	75	100
15.	Core	Paper 9	5	4	International Economics	25	75	100
16.	Core	Paper 10	5	4	Economics of Growth and Development	25	75	100
17.	Core	Paper 11	5	4	Research Methodology	25	75	100
Internal Elective for same major students (Choose any one)								
18.	Core Elective	Paper-3	5	3	(to choose one out of 3) A. Industrial Economics B. Econometrics C. Health Economics	25	75	100
External Elective for other major students (Inter/multi disciplinary papers)								
19.	Open Elective	Paper-3	5	3	(to choose one out of 3) A. Tamilnadu Economics B. Labour Economics C. Urban Economics	25	75	100
20.	MOOC Courses		-	2	1. Environmental Economics 2. Contemporary Economics 3. Managerial Economics 4. Operations Research 5. Communication Skill 6. Economics of Tourism 7. Business Planning and Management 8. Financial Management 9. Marketing Management 10. Engineering Econometrics	-	-	100
			30	24		150	450	700
SEMESTER IV						<i>CI A</i>	<i>Uni. Exam</i>	<i>Total</i>
21.	Core	Paper 12	6	5	Public Finance II	25	75	100
22.	Core	Paper 13	6	4	Managerial Economics	25	75	100
23.	Core	Paper 14	5	4	History of Economic Thought	25	75	100
24.	Core	Project	5		Project with <i>viva voce</i>	100		100

		Compulsory		5		(75 Project +25 viva)		
Internal Elective for same major students (Choose any one)								
25.	Core Elective	Paper-4	4	3	A. Human Resource Development B. Financial Economics C. Environmental Economics	25	75	100
External Elective for other major students (Inter/multi disciplinary papers)								
26.	Open Elective	Paper-4	4	3	(to choose one out of 3) A. Economics of insurance B. Rural Economic development C. Women And Economy	25	75	100
			30	24		125	375	600
			120	92				2600

THIRUVALLUVAR UNIVERSITY VELLORE, 632 115

M.A. ECONOMICS - 2022 – 2023 onwards

SEMESTER – I PAPER TYPE: CORE

PAPER –3 STATISTICS FOR ECONOMICS I

Course Objectives:

1. To make students understand the concept of measurements of statistics.
2. To make student to gain knowledge with numerical and quantitative issues in business.
3. To enable the students to use statistical sampling methods.
4. To have a proper understanding of statistical applications.
5. To give practical knowledge of using basic statistical data.

Course outcomes

1. After studying Unit-1, the student will be able to understand the basic Statistics.
2. After studying Unit-2, the student will be able to gain knowledge on collection of data and statistical survey.
3. After studying Unit-3, the student will be able to understand the Sampling methods
4. After studying Unit-4, the student will be able to understand the Descriptive Statistics.
5. After studying Unit-5, the student will be able to gain knowledge on correlation and regression analysis.

Unit	I. Remembering	ii. Understanding	iii. Applying	iv. Analyzing	v. Evaluating	vi. Creating
1	YES	YES	YES	YES	NO	NO
2	YES	YES	YES	YES	NO	NO
3	YES	YES	YES	YES	NO	NO
4	YES	YES	YES	YES	NO	NO
5	YES	YES	YES	YES	YES	YES

Unit – I: Introduction

Definition of Statistics – Importance of Statistics - Origin and Growth of Statistics – Types of Statistics (Descriptive and Inferential Statistics) – Applications of Statistics – Statistics and Economics – Importance of Statistics for Economics – Statistics and Computers.

Unit – II: Methods of Data Collection

Data Definition – Types of Data - Quantitative Data, Qualitative Data – Primary Data - Secondary - Method of Data Collection – Presentations of Data (Tables and Different types of Graphs and charts - Frequency Distribution and Cumulative Tables and Graphs) – Planning the survey – Scope of the Survey - Specification of the Purpose Survey – Executing the Survey

Unit – III: Sampling Methods

Definition Population, Sample, Sampling – Sampling Techniques – Probability Sampling – Types of Probability Sampling - Methods of Probability Sampling – Advantages and Limitations of Probability Sampling – Non-Probability Sampling – Types of Non-Probability Sampling - Methods of Non-Probability Sampling – Advantages and Limitations of Non-Probability Sampling – Size of Sampling - Theoretical Basis of Sampling

Unit – IV: Descriptive Statistics

Descriptive Statistics – Measures of Central Tendency – Mean – Median – Mode – Uses of various Measures of Average – Merits – Limitations - Spread of a Distribution - Measures of Dispersion- Range - Variance - Quartile - Mean Deviation - Standard Deviation –Coefficient of Variation - Merits – Limitations – Skewness – Moments – Kurtosis

Unit –V: Correlation and Regression Analysis

Scatter Diagram – Correlation Definition – Significance of Correlation – Causation – Types of Correlation – Methods of Correlation – Uses of Correlation – Regression Definition – Uses of Regression Analysis – Regression Equation – Difference between Correlation and Regression analysis – Limitations of Regression Analysis – List of Formulae

Text Books

1. **Unit-1:** S.P. Gupta (1969) Last Edition (2017), Statistical Methods, Sultan Chand & Sons., New Delhi and Spiegel, M.R. (1992), Theory and Problem of Statistics, McGraw Hill Book Co., London.
2. **Unit-2:** S.P. Gupta (1969) Last Edition (2017), Statistical Methods, Sultan Chand & Sons., New Delhi.
3. **Unit-3:** S.P. Gupta (1969) Last Edition (2017), Statistical Methods, Sultan Chand & Sons., New Delhi and Prof. A.L. Nagar and R.K. Das. `Basic Statistics`, Oxford University Press, New Delhi.
4. **Unit-4:** S.P. Gupta (1969) Last Edition (2017), Statistical Methods, Sultan Chand & Sons., New Delhi and Seymour Lipschutz and John J, Schiller (1999), Introduction to Probability and Statistics, Schaum's Outlines, McGraw – Hill International Editions.
5. **Unit-5:** S.P. Gupta (1969) Last Edition (2017), Statistical Methods, Sultan Chand & Sons., New Delhi and Miller, I. and Miller, Marylees. John E. Freund's Mathematical Statistics with Application, 7th ed., New Jersey: Prentice Hall, 2010.

THIRUVALLUVAR UNIVERSITY VELLORE, 632 115

M.A. ECONOMICS - 2022 – 2023 onwards

SEMESTER – I I

PAPER TYPE: CORE

PAPER –

STATISTICS FOR ECONOMICS II

Course Objectives:

1. To impart the knowledge on Probability theorems.
2. The course will mainly emphasize on the different sampling distribution.
3. To develop detailed understanding on testing of hypothesis.
4. To encourage students to analyze economic indicators with the help of statistics.
5. To make students to apply different statistical tools on research projects.
6. To understand the role of statistics in day today life.

Course Outcomes (five outcomes for each units should be mentioned)

1. After studying Unit-1, the student will be able to understand the various probability theorems.
2. After studying Unit-2, the student will be able to identify the Statistical tools in probability distributions.
3. After studying Unit-3, the student will be able to understand the Sampling distribution.
4. After studying Unit-4, the student will be able to use testing of hypothesis in research.
5. After studying Unit-5, the student will be able to gain knowledge on analysis of variance

Unit	I. Remembering	ii. Understanding	iii. Applying	iv. Analyzing	v. Evaluating	vi. Creating
1	YES	YES	YES	YES	NO	NO
2	YES	YES	YES	YES	NO	NO
3	YES	YES	YES	YES	NO	NO
4	YES	YES	YES	YES	NO	NO
5	YES	YES	YES	YES	YES	YES

Unit – I: Probability

Basics of Probability – Definitions of Outcome – Sample Space – Experiment – Events – Types of Events - Exhaustive event - Equally likely events - Mutually exclusive events - Complementary event - Simple and Compound event - Dependent event - Independent event – Problems based on

Identification of Events - Additive Law of Probability - Multiplicative Law of Probability – Bayer's Theorem – Problems based on Additive law, Multiplicative law and Bayer's theorem

Unit – II: Probability Distributions

Distribution Definition – Types of Distribution (Discrete, Continuous) – Random Variable – Probability Density Function - Probability Distribution Function – List of Discrete Distributions - List of Continuous Distributions - Binomial Distribution – Poisson Distribution - Exponential Distribution - Normal Distribution - Standard Normal Distribution - Properties, Simple Problem; use of Tables.

Unit – III: Sampling Distribution and Hypothesis Tests

Sampling Distribution Definition – Parameter -Sample Size - Sample Mean – Sample Proportion – Sample Variance – Confidence Interval – Sampling Error - Central Limit Theorem - Sampling distribution of the sample mean – Sampling distribution of the sample proportion

Unit – IV: Hypothesis Tests for Two Populations

Hypothesis Definition – Types of Hypothesis – Types of Error – P- Value – Level of Significance – One tailed tests – Two tailed tests – Single population – Test for Mean, Proportion and Variance – 'z'-Tests – 't'- test – 'F'- test – Chi Square Test – Basics and properties – One way Analysis of variance – Two way analysis of Variance

Unit – V: Non Parametric Tests

Non Parametric - Concept and Definition – Uses - Sign Test - Mann Whitney test - Wilcoxon signed rank test - Kruskal Wallis test.

Text Books

1. Unit I: S.P. Gupta (1969) Last Edition (2017), Statistical Methods, Sultan Chand & Sons., New Delhi and Speigal, M.R. (1992), Theory and Problem of Statistics, McGraw Hill Book Co., London.
2. Unit II: S.P. Gupta (1969) Last Edition (2017), Statistical Methods, Sultan Chand & Sons., New Delhi.
3. Unit III: S.P. Gupta (1969) Last Edition (2017), Statistical Methods, Sultan Chand & Sons., New Delhi.
4. Unit IV: S.P. Gupta (1969) Last Edition (2017), Statistical Methods, Sultan Chand & Sons., New Delhi and Prof. A.L. Nagar and R.K. Das. 'Basic Statistics', Oxford University Press, New Delhi.
5. Unit V: S.P. Gupta (1969) Last Edition (2017), Statistical Methods, Sultan Chand & Sons., New Delhi.

Reference Items: Books, Journal.

1. Seymour Lipschutz and John J. Schiller (1999), Introduction to Probability and Statistics, Schaum's Outlines, McGraw – Hill International Editions

THIRUVALLUVAR UNIVERSITY

M.A. ECONOMICS

SYLLABUS

UNDER CBCS

COMPULSORY PAPER

PAPER 2

A. HUMAN RESOURCES DEVELOPMENT

Course Objectives

1. To pinpoint the resource value of human like other resources.
2. To develop the understanding of the concept of human resource management.
3. To develop the understanding of the impact of training on the HRD.
4. To develop necessary skill set for application of various HR issues.
5. To make students understand the human resource planning and performance appraisal process.

Course outcomes

1. After studied unit-1, the student will be able to understand the importance of Human Resource Development.
2. After studied unit-2, the student will be able to understand the theories of HRD.
3. After studied unit-3, the student will be able to understand development of human capacity through training.
4. After studied unit-4, the student will be able to study organizational behavioural issues of HRD.
5. After studied unit-5, the student will be able to study recent trends in HRD.

Unit	I. Remembering	ii. Under standing	iii. Applying	iv. Analyzing	v. Evaluating	vi. Creating
1	YES	YES	YES	YES	NO	NO
2	YES	YES	YES	YES	NO	NO
3	YES	YES	YES	YES	NO	NO
4	YES	YES	YES	YES	NO	NO
5	YES	YES	YES	YES	YES	YES

Unit - I: Introduction

Human Resource Development: Definition – evolution of HRD from Personnel management – Developmental perspectives of HRD – HRD at micro and macro levels – Outcomes of HRD in the National and Organizational contexts – Qualities and competencies required in a HRD professional – Development of HRD movement in India.

Unit-II: Practices and Theories of HRD

Concepts of HRD – Systems of HRD – Human Resource planning – Potential Appraisal - Assessment center – Performance appraisal – Career planning and Succession planning – Reinforcement theories – Cybernetic and information theories – Cognitive theories and problem solving theories – Experiential learning to attain self-development.

Unit – III: Development of Human Capacity

Development of Human Capacity: Concept – Attitude – Knowledge – Values – Loyalty and Commitment – Leadership development. Training and Development: Meaning and scope of training – Education and development – Importance and types of training – Effectiveness of Internal and External training. Evaluating HRD: impact and assessment of HRD.

Unit-IV: Organizational Behaviour of HRD

Organisational Behaviour of HRD: Meaning of Organisational development – intervention – Programmes and techniques – Behavioural modelling – Gaming – Quality of Work life – Quality of Life Programs – Team building – Grid training – Benefits of organisational development – Organizational culture – Organizational development – Review of organizational behavior.

Unit-V: Recent trends in HRD

Recent trends in HRD: Aims and policies of HRD - Training for trainer and HRD – Professionals – Promoting research in HRD – Significance of HRD in Corporate Sector - Impacts of developments in the other fields such as Business management, Communication, Psychology and Information technology.

Text Books

1. Unit-1: Dr. J. Jayasankar (2014), Human Resource Management, Margham Publications, Chennai.
2. Unit-2: Dr. K. Karuppiah and Dr. G. Hemapriya (2019), Thakur Publications, Chennai.
3. Unit-3: Arun Monappa, (1997), Managing Human Resources, Macmillan India Limited, New Delhi
4. Unit-4: Batra V.P. (1998), The Economy and Human Resources, B.R. Publishing Corporation, Ansari Road, Darya Ganj, New Delhi.
5. Unit-5: Lakshmanasamy T. and T.M. Srinivasan, (1997), Economics of Human Behaviour, Allied Publishers, New Delhi – Chennai.
8. Human Resource Development [Paperback] Dr. Mukund Chandra Mehta, Doel Kar Paperback – 1 January 2020

The Course of Study and the Scheme of Examination – M.A. ENGLISH 2022-2023

Sl. No.	Study Components		Instructional. hrs / per week	Credits	Title of the Paper	Maximum Marks		
	Course Title					CIA	Uni. Exam	Total
SEMESTER I								
1.	Core	Paper- 1	6	4	British Poetry (Chaucer to 20th century)	25	75	100
2.		Paper- 2	6	4	American Literature	25	75	100
3.		Paper- 3	6	4	Indian Literature in English	25	75	100
4.		Paper- 4	6	4	Advanced Linguistics	25	75	100
Internal Elective for same major students								
5.	Core Elective	Paper-1	3	3	(To choose one out of 3) A. Indian Writing in Translation B. Fourth World Literature C. Folk Tale and Myth	25	75	100
External Elective for other major students (Inter/multi disciplinary papers)								
6.	Open Elective	Paper-1	3	3	(To choose one out of 3) A. Literature for Social Transformation B. Green Cultural Studies C. Public Speaking and Creative Writing	25	75	100
			30	22		150	450	600
SEMESTER II						CIA	Uni. Exam	Total
7.	Core	Paper- 5	6	4	British Drama	25	75	100
8.		Paper- 6	6	4	Translation Theory & Practice	25	75	100
9.		Paper- 7	6	4	Contemporary Literary Theory - I	25	75	100
Internal Elective for same major students								
10.	Core Elective	Paper-2	5	3	(To choose one out of 3) A. Comparative Literature B. New Literature in English. C. Subaltern Literary Studies	25	75	100
External Elective for other major students (Inter/multi disciplinary papers)								
11.	Open Elective	Paper-2	5	3	(To choose one out of 3) A. Technical Writing. B. Indian Diaspora Literature C. Journalism and Mass Communication.	25	75	100
12.	Field Study		-	2		100	-	100
13.	Compulsory Paper		2	2	Human Rights	25	75	100
			30	22		250	450	700

SEMESTER III								
14.	Core	Paper-8	5	4	Non- Fiction & Prose	25	75	100
15.		Paper-9	5	4	Research Methodology	25	75	100
16.		Paper-10	5	4	Contemporary Literary Theory - II	25	75	100
17.		Paper-11	5	4	African and Canadian Writings	25	75	100
Internal Elective for same major students								
18.	Core Elective	Paper - 3	5	3	(To choose one out of 3) A. Popular Literature B. Children’s Literature C. Preparatory Exam for NET/SET/TRB – Paper II	25	75	100
External Elective for other major students (Inter/multi disciplinary papers)								
19.	Open Elective	Paper - 3	5	3	(To choose one out of 3) A. Soft Skills B. Theorising Sexualities C. Preparatory Exam for NET/SET – Paper I	25	75	100
20.	MOOC courses		-	2		-	-	100
			30	24		150	450	700
SEMESTER IV								
21.	Core	Paper-12	6	5	World Literature in Translation	25	75	100
22.		Paper-13	6	4	Shakespeare Studies	25	75	100
23.		Paper-14	6	4	Single Author Study	25	75	100
24.	Core	Project	5	5	Project with Viva voce	100 (75 Project +25 viva)		100
Internal Elective for same major students								
25.	Core Elective	Paper - 4	4	3	(To choose one out of 3) A. Post-Colonial Studies B. Gender Studies C. English Language Teaching - Theory and Practice	25	75	100
External Elective for other major students (Inter/multi disciplinary papers)								
26.	Open Elective	Paper - 4	3	3	(To choose one out of 3) A. Film Studies B. English for Media C. Fantasy Fiction	25	75	100
			30	24		150	450	600
			120	92				2600

OPEN ELECTIVE

PAPER -3

B. THEORISING SEXUALITIES

SEMESTER – III

CREDITS – 3

CATAGORY – OPEN ELECTIVE

NO.OF. HOURS\WEEK – 5

TOTAL HOURS – 65

COURSE CODE: DOEN36B

OBJECTIVES

- To demonstrate an awareness of biological, social, and grammatical gender as being three different categories.
- To give a basic awareness of struggles and attainment of people with alternative sexualities in civil rights in various parts of the world
- To help the students view with skepticism the simplistic conflation of biological sex with socially and culturally conditioned gender

UNIT PLAN

- ❖ Defining the types of genders.
- ❖ The poetic mysticism of the female.
- ❖ The grace of feminism from the modern writers.
- ❖ Contribution of women writers on uplifting women.

COURSE OUTCOMES – Students will be able to

- appreciate, if not accept the viewing of gender as a continuum
- critically analyze different gender self-identification preferences such as transgender and inter-genders rather than seeing the polar genders male and female as the only 'natural' ones
- show sensitivity to the legal and social persecution faced by persons belonging to the LGBTQ or simply, Queer, community in societies across the world and view their rights as human rights
- exercise an enhanced openness and honesty when encountering/ generating discourse on matters of sexuality and gender roles
- understand the genres of theorizing sexualities in different literature.

UNIT I: INTRODUCING SEXUALITY

Teaching Hours - 15

Sexological types: Sexual classifications, sexual development, sexual orientation, gender identity, sexual relationship, sexual activities, paraphilias, atypical sexual interests

Psychoanalytic drives: Freud and Lacan.

Bristow, Joseph, Introduction, *Sexuality: The New Critical Idiom Series*. 1997. 2nd ed.

London: Routledge, 2011.1-11, Print.

Butler, Judith. *Introduction, Bodies That Matter: On the discursive Limits of "Sex."*

London: Routledge, 1993.xi –xx

UNIT II – POETRY

Teaching Hours - 15

The songs of songs – the sufi and Bhakthi Tradition – the concepts of adhavbhaav

Shakespeare	:	Sonnet 73 That time of the year
Emily Dickinson	:	Her breast is fit for pearls
Adrienne Rich	:	Diving into the deck
Walt Whitman	:	The wounded Dresser
Siegfried Sassoon	:	The Last Meeting

UNIT III – PROSE

Teaching Hours - 14

Manoj Nair	:	Rite of Passage
Chimamanda N. Adichie	:	On Monday of Last Week
Mukul Kesavan	:	Nowhere to Call Home
Shyam Selvadurai	:	Cinnamon Gardens
Ismat Chughtai	:	The Quilt

UNIT IV DRAMA

Teaching Hours -12

Edward Albee	:	<i>Who is Afraid of Virginia Woolf</i>
Amiri Baraka	:	<i>Most Dangerous man in America</i>

UNIT V FICTION

Teaching Hours - 9

Moses Tulasi	:	<i>Walking the Walk</i>
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REFERENCE

1. De lauretis, Teresa, *Technologies of gender: essay on theory, Film and Fiction*, Bloomington: Indiana Up, 1987. Print
2. Dollimore, Jonathan, *Sexual Dissidence: Augustine to Wilde, Freud to Foucault*, Oxford Clarendon, 1991. Print.
3. Foucault, Michael. *A History of Sexuality*, 3vols. Trans. Robert Hurley. New York: Vintage, 1978. Print.
4. Kapoor, Shekar, dir. *Bandit Queen*. Perf. Seema Biswas, Nirmal Pandey, Rakesh Vivek.
5. 1004. DVD. Film.
6. Mehta, Deepa, dir. *Fire*. Perf. Shabana Azmi, Nandita Das, Karishma Jhalani. 1996. DVD. Film.
7. Meht, Hansal, dir. Aligarh. Script. Apurva Asrani. Perf. Manoj Bajpayee and Rajkumar Rao. 2016. DVD.
8. Nair, Manoj. "Rite of Passage." *Yaraana: Gay Writing from India*. Ed. Hoshang Merchant. New Delhi: Penguin, 1999. 171-79. Print.

COs	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10
CO1	S	M	M	M	S	S	S	S	S	S
CO2	S	S	S	S	S	S	S	S	M	L
CO3	S	S	S	S	S	S	M	S	S	M
CO4	S	S	S	S	S	S	M	M	M	L
CO5	M	M	M	S	S	S	S	S	L	S

PO – Programme Outcome, CO – Course outcome

S – Strong , M – Medium, L – Low (may be avoided)

OPEN ELECTIVE

PAPER -3

C. PREPARATORY EXAM FOR NET/ SET/TRB – PAPER-I

SEMESTER – III

CREDITS – 3

CATAGORY – OPEN ELECTIVE

NO.OF. HOURS\WEEK – 5

TOTAL HOURS – 65

COURSE CODE: DOEN36C

OBJECTIVE

- To enable students to face NET/SET and PG-TRB examinations.
- To help the students gain knowledge and assist them in gaining knowledge of the Logic and Reasoning Ability.
- To teach the students about Data interpretation.
- To inform the students of the various aspects of Information and Communication Technology.

UNIT PLAN

- ❖ Identification of reasoning
- ❖ Deduction of logical Coherence
- ❖ Mathematical reasonings are developed.
- ❖ Error analysis are concentrated.

COURSE OUTCOME – Students will be able to

- know about the Teaching and Research Aptitude.
- attempt the Comprehension passages and understand the Communication patterns.
- introduce to Mathematical Reasoning, Logical Reasoning and General aptitude.
- interpret the data and learn the various aspects of Information and Communication Technology.
- understand the higher education system and eligibility examinations.

UNIT- I

Teaching Hours - 13

Teaching Aptitude
Research Aptitude

UNIT- II**Teaching Hours - 13**

Comprehension

Communication

UNIT- III**Teaching Hours - 13**

Mathematical Reasoning and Aptitude

Logical Reasoning

UNIT- IV**Teaching Hours - 13**

Data Interpretation

Information and Communication Technology.

UNIT- V**Teaching Hours - 13**

People, Development, and Environment

Higher Education System.

REFERENCE

1. Kaur, Harpeet- *NTA UGC NET/SET/JRF – Paper 1 Teaching and Research Aptitude*, Oxford Publishers. 2019.

COs	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10
CO1	S	M	M	M	S	S	S	S	S	L
CO2	S	S	S	S	S	S	M	M	M	L
CO3	S	S	S	S	S	M	M	S	S	S
CO4	S	S	S	S	S	S	S	S	M	S
CO5	S	S	S	S	S	S	M	S	S	S

PO – Programme Outcome, CO – Course outcome**S – Strong , M – Medium, L – Low (may be avoided)**

PAPER -9

RESEARCH METHODOLOGY

SEMESTER – III

CREDITS – 4

CATAGORY – CORE

NO.OF. HOURS\WEEK – 5

TOTAL HOURS – 65

COURSE CODE: DEN32

OBJECTIVES

- To help students prepare a Dissertation of their own
- To prepare students for quality research in future
- To train students in using parenthetical documentation as recommended in MLA Hand Book

UNIT PLAN

- ❖ To learn regarding the concept, definition and variable.
- ❖ Experimental Design of Independent and Dependence of Variables
- ❖ Giving an idea of Validity and Reality.
- ❖ To collect the Data and how to represent them.
- ❖ Giving the vivid Software and Paper format.

COURE Outcomes – Students will be able to

- introduce the Definitions, Variables and Research questions, etc.
- explore the Research Design, the difference between Quantative and Qualitative Research.
- learn the Concept of Measurement.
- interpret the data and Layout of research.
- Know the usage of the sources in research.

Unit– I

Teaching Hours - 12

Research and Writing

Plagiarism and Academic Integrity

Unit– II

Teaching Hours - 12

The Mechanics of Writing

Unit– III

Teaching Hours - 13

The Format of the Research Paper Abbreviations

Unit– IV

Teaching Hours - 13

Documentation: Preparing the list of Works Cited

Unit– V

Teaching Hours - 15

Documentation: Citing Sources in the text

REFERENCE

1. Modern Language Assn. Of America, “*M.L.A Hand Book*”, Macmillan. 8th edition.
2. Anderson, Durston & Poole, “*Thesis & Assignment Writing*”, Easter Limited, New Delhi. 1970 rpt. 1985.
3. Parsons C J, “*Thesis & Project Work*”, Unwin Brothers Ltd., Gresham Press. 1973.
4. Rajanna, Busangi, “*Fundamentals of Research*”, American Studies Research Centre, 1983.
5. *Research Methodology* – C.R. Kothari

COs	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10
CO1	S	S	S	M	S	S	S	S	S	M
CO2	S	S	S	S	S	S	S	S	S	L
CO3	S	S	S	S	M	M	M	M	S	S
CO4	M	M	S	S	S	S	S	S	L	S
CO5	S	S	S	S	S	S	M	M	L	S

PO – Programme Outcome, CO – Course outcome

S – Strong , M – Medium, L – Low (may be avoided)

THIRUVALLUVAR UNIVERSITY

M.A. HISTORY

SYLLABUS

UNDER CBCS

(With effect from 2022-2023)

The Course of Study and the Scheme of Examination

Sl. No.	Study Components		ins. hrs / week	Credit	Title of the Paper	Maximum Marks		
	Course Title					CIA	Uni. Exam	Total
SEMESTER I								
1.	Core	Paper- 1	6	4	Social and Cultural History of Tamil Nadu from sangam age to 1565 C.E.	25	75	100
2.		Paper- 2	6	4	Social and Cultural History of India up to C.E 1526	25	75	100
3.		Paper- 3	6	4	Social and Cultural History of India from C.E. 1526 to C.E.1773	25	75	100
4.		Paper- 4	6	4	India and her Neighbours since C.E.1947	25	75	100
Internal Elective for same major students								
5.	Core Elective	Paper-1	3	3	(To choose one out of 3) A. Intellectual History of India B. Archives Keeping C. Economic History of India up to 1526. C.E	25	75	100
External Elective for other major students (Inter/multi disciplinary papers)								
6.	Open Elective	Paper-1	3	3	(To choose one out of 3) A. Contemporary History of Tamil Nadu from C.E.1947 to C.E. 2001 B. Introduction to Tourism C. Constitutional History of India from C.E.1773 to C.E. 1947	25	75	100
			30	22		150	450	600
SEMESTER II						CIA	Uni. Exam	Total
7.	Core	Paper- 5		4	Social and Cultural History of Tamil Nadu from C.E 1565 to C.E 2000	25	75	100
8.		Paper- 6	6	4	Social and Cultural History of India from C.E. 1773 to C.E. 2000	25	75	100
9.		Paper- 7	6	4	General Studies for Competitive Examinations	25	75	100
Internal Elective for same major students								
10.	Core Elective	Paper-2	5	3	(To choose one out of 3) A. Administrative History of India B. Introduction to Archaeology	25	75	100

					C. Economic History of India from C.E.1526 to C.E. 1857			
External Elective for other major students (Inter/multi disciplinary papers)								
11.	Open Elective	Paper-2	5	3	(To choose one out of 3) A. The Indian National Movement B. Panchayat Raj C. The Constitution of India	25	75	100
12.	*Field Study		-	2		100	-	100
13.	Compulsory Paper		2	2	Human Rights	25	75	100
			30	22		250	450	700
SEMESTER III						CIA	Uni. Exam	Total
14.	Core	Paper- 8	6	5	History of World Civilizations (Excluding India) – Ancient Period	25	75	100
15.		Paper- 9	6	4	Historiography	25	75	100
16.		Paper-10	6	4	History of Europe from C.E.1789 to C.E.1919	25	75	100
17.		Paper-11	6	4	History of the USA from C.E.1900 to C.E. 2000	25	75	100
Internal Elective for same major students								
18.	Core Elective	Paper-3	3	3	(To choose one out of 3) a. An Introduction To Numismatics b. Islamic History And Culture From C.E.500 To C.E.750 c. History of Modern Japan from C.E.1900 to C.E.2000	25	75	100
External Elective for other major students (Inter/multi disciplinary papers)								
19.	Open Elective	Paper-3	3	3	(To choose one out of 3) a. History of Freedom Struggle inTamil Nadu b. Contemporary History Of India From C.E 1947 To C.E 2002 c. The Dravidian Movement sinceC.E1947	25	75	100
20.	**MOOC Courses		-	2				100
			30	25		150	450	700
SEMESTER IV						CIA	Uni. Exam	Total
21.	Core	Paper-12	5	4	Research Methodology in History	25	75	100
22.		Paper-13	5	4	History of World Civilizations (Excluding India) Medieval and Modern Period	25	75	100
23.		Paper-14	5	4	International Relations since C.E 1919	25	75	100
24.	Core	Project	5	5	Project / Dissertation with Viva-Voce – (Compulsory)	100 (75 Project +25 viva)		100
Internal Elective for same major students								
25.	Core Elective	Paper-4	5	3	(To choose one out of 3) a. An Introduction to Musicology	25	75	100

					b. Islamic History and Culture from C.E.750 to C.E.1258 c. History of Modern China from C.E.1900 to C.E.2000			
External Elective for other major students (Inter/multi disciplinary papers)								
26.	Open Elective	Paper-4	5	3	(To choose one out of 3) a. Contemporary History of the World b. Intellectual History of Tamil Nadu c. Women Development In Tamil Nadu From A.D.1900 To A.D.2000	25	75	100
			30	23		150	450	600
			120	92				2600

* Field Study

There will be field study which is compulsory in the first semester of all PG courses with 2 credits. This field study should be related to the subject concerned with social impact. Field and Topic should be registered by the students in the first semester of their study along with the name of a mentor before the end of the month of August. The report with problem identification and proposed solution should be written in not less than 25 pages in a standard format and it should be submitted at the end of second semester. The period for undergoing the field study is 30 hours beyond the instructional hours of the respective programme. Students shall consult their mentors within campus and experts outside the campus for selecting the field and topic of the field study. The following members may be nominated for confirming the topic and evaluating the field study report.

- (i). Head of the respective department
- (ii). Mentor
- (iii). One faculty from other department

**Mooc Courses

Inclusion of the Massive Open Online Courses (MOOCs) with two credits available on SWAYAM, NPTEL and other such portals approved by the University Authorities.

SEMESTER IV

PAPER - 12

RESEARCH METHODOLOGY IN HISTORY

Objectives This paper aims to help the students to understand the methodology so as to pursue research in the field of Historical Studies.

UNIT-I

Definition – Meaning – Nature and Scope – Uses of History.

UNIT-II

Research Methodology – Selection of Topic Review of Literature, Objectives – Hypothesis – Collection of data – Types of data – classification of sources.

UNIT-III

Historical Criticism – External and Internal – Positive and Negative Criticism – Objectivity and Subjectivity in Using of History.

UNIT-IV

Questionnaire and Pilot Study – Evolution Techniques – Analyses.

UNIT-V

Footnotes – Importance and purpose of Footnotes – Endnotes – Bibliography – Annotated Bibliography – Appendix – Index.

Books for Reference

- 1.Reiner G.T. - History its purpose and method.
- 2.Collingwood, R.G. - The idea of history
- 3.Khan, S.A., - History and Historians of British India.
- 4.Majumdar, R.K.and Srivastava, A.N. – Historiography, Delhi.1975
- 5.Sen, S.P.(Ed) – Historians and historiography in modern Indian, 1973.

THIRUVALLUVAR UNIVERSITY MASTER OF ARTS UNDER CBCS

(With effect from 2022-2023)

The Course of study and the Scheme of Examination

Sl.no	Study Components	Ins .hrs/ Week	Credit	Title of the paper	Maximum marks		
	Course Title				CIA	Uni Exam	Total
Semester I							
CORE	PAPER-1	6	5	இக்காலஇலக்கியம்	25	75	100
Core	Paper-2	6	5	அறஇலக்கியம்	25	75	100
Core	Paper-3	6	5	தொல்காப்பியம்-எழுத்ததிகாரம்	25	75	100
Core	Paper-4	6	5	தமிழ்பண்பாட்டுவரலாறு	25	75	100
Core elective	Paper-1	5	3	1.மொழியியல் அறிமுகம் 2.தொல்லியல்	25	75	100
Open elective	Paper-1	5	3	1.இசையியல் கவிம் 2.பேச்சுக்கலை	25	75	100
Semester II					CIA	Uni Exam	Total
CORE	PAPER-5	6	5	காப்பியங்கள்	25	75	100
Core	Paper-6	6	5	பக்திஇலக்கியம்	25	75	100
Core	Paper-7	6	5	தொல்காப்பியம் - சொல்லதிகாரம்	25	75	100
Core Elective	Paper-2	6		1.சைவசிக்காங்கம் 2.பெண்ணியப்படைப்புகள்	25	75	100
Compulsory paper		4		Human Rights	25	75	100
Open Elective	Paper-2	6	3	1.ஊடகத்தமிழ் 2.நாடகத்தமிழ்	25	75	100
Field study			2		100	-	100
Semester III					CIA	Uni Exam	Total
Core	Paper-8	6	5	சங்கஇலக்கியம் (அகம்)	25	75	100
Core	Paper-9	6	5	அராய்ச்சி நெறிமுறைகள்	25	75	100
Core	Paper-10	6	5	தொல்காப்பியம் - பொருளதிகாரம்	25	75	100
Core Elective	Paper-3	6	3	1.சிற்பிலக்கியம் 2. தமிழ் இலக்கண வரலாறு	25	75	100
Open elective	Paper-3	6	3	1.பயன்பாட்டுநாட்டுப்பாடுகளில் 2. அறிவியல் தமிழ்	25	75	100
Mooc course			2				100
Semester IV					CIA	Uni Exam	Total
Core	Paper-11	6	5	சங்க இலக்கியம் புறம்	25	75	100
Core	Paper-12	6	5	தொல்காப்பியம் - பொருளதிகாரம்	25	75	100
Core	Project compulsory		7	Project with viva voce			100
Core Elective	Paper-4	5	3	1.இந்தியத்தத்துவங்கள் 2.கணிதமும் தமிழும்	25	75	100
Open Elective	Paper-4	5	3	1.திருவள்ளுவம் 2. இளங்கோவடிகள்	25	75	
		120	92				

(With effect from 2022-2023)

The Course of Study and the Scheme of Examination

Sl. No.	Study Components		ins. hrs / week	Credit	Title of the Paper	Maximum Marks		
	Course Title					CIA	Uni. Exam	Total
SEMESTER I								
1.	Core	Paper- 1	6	4	Advanced Financial Management	25	75	100
2.		Paper- 2	6	4	Accounting for Managerial Decision	25	75	100
3.		Paper- 3	6	4	Marketing Management	25	75	100
4.		Paper- 4	6	4	Advanced Business Statistics	25	75	100
Internal Elective for same major students								
5.	Core Elective	Paper-1	3	3	(To choose one out of 3) A. Business Environment B. Computer Application in Business C. Managerial Economics	25	75	100
External Elective for other major students (Inter/multi disciplinary papers)								
6.	Open Elective	Paper-1	3	3	(To choose one out of 3) A. Principles of Marketing B. Elements of Insurance C. Corporate Social Responsibility	25	75	100
			30	22		150	450	600
SEMESTER II								
7.	Core	Paper- 5	6	4	Corporate Laws	25	75	100
8.		Paper- 6	6	4	Human Resource Management	25	75	100
9.		Paper- 7	6	4	Advanced Corporate Accounting	25	75	100
Internal Elective for same major students								
10.	Core Elective	Paper-2	5	3	(To choose one out of 3) A. Export and Import Management B. Global Marketing C. E-Commerce	25	75	100
External Elective for other major students (Inter/multi-disciplinary papers)								
11.	Open Elective	Paper-2	5	3	(To choose one out of 3) A. Principles of Management B. Elements of Accounting C. Elements of Business Law	25	75	100
12.	Field Study		-	2		100	-	100
13.	Compulsory Paper		2	2	Human Rights	25	75	100
			30	22		250	450	700
SEMESTER III								
						CIA	Uni. Exam	Total
14.	Core	Paper- 8	5	4	Goods & Services Tax (GST)	25	75	100
15.		Paper- 9	5	4	Organisational Behaviour	25	75	100
16.		Paper- 10	6	4	Advanced Cost Accounting	25	75	100
17.		Paper-11	6	4	Research Methodology	25	75	100
Internal Elective for same major students								
18.	Core Elective	Paper -3	4	3	(To choose one out of 3) A. Agri Business Management B. Services Marketing C. Business Analytics	25	75	100
External Elective for other major students (Inter/multi-disciplinary papers)								

19.	Open Elective	Paper -3	4	3	(To choose one out of 3) A. Small Business Management B. Banking Theory C. Stress Management	25	75	100
20.	MOOC Course		-	2		-	-	100
			30	24		150	450	700
SEMESTER IV								
						<i>CIA</i>	<i>Uni. Exam</i>	<i>Total</i>
21.	Core	Paper- 12	6	4	Direct Taxes	25	75	100
22.		Paper- 13	6	4	Investment & Portfolio Management	25	75	100
23.		Paper- 14	5	5	Project Development	25	75	100
24.	Core	Project	5	5	Project With Viva voce	100 (75 Project +25 viva)		100
Internal Elective for same major students								
25.	Core Elective	Paper 4	5	3	(To choose one out of 3) A. Financial Services B. Information Technology in Business C. Entrepreneurial Development	25	75	100
External Elective for other major students (Inter/multi-disciplinary papers)								
26.	Open Elective	Paper 4	3	3	(To choose one out of 3) A. Office Management B. Business Organisation C. Principles of Auditing	25	75	100
			30	24		150	450	600
				92				2600

Semester: I,

Paper type: Core Elective paper

Paper code.....

Name of the Paper: C. MANAGERIAL ECONOMICS

Credit: 3

Total Hours per Week: 3 Hrs, Lecture Hours: 3hrs. Tutorial Hours: Nil. Practical Hours: Nil

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Course Objectives

1. To make the students to understand the theories of managerial economics and factors.
2. To expand the awareness of Demand analysis and Forecasting
3. To facilitate the students to understand the law of variable proportions, product function and cost function
4. To bring subject knowledge on Economics of size and capacity Utilization and market structure pricing.
5. To let students to be acquainted with the subject of Business cycle and Policies.

Course Outcomes:

1. After studied Unit-1, the student will be able understand the theories of managerial economics and factors.
2. After studied Unit-2, the student will be able to develop an idea about Demand analysis and Forecasting.
3. After studied Unit-3, the student will be able to provide an idea regarding law of variable proportions, product function and cost function.
4. After studied Unit-4, the student will be able to make them aware about the Economics of size and capacity Utilization and market structure pricing.
5. After studied Unit-5, the student will be able to acquire the knowledge about be Business cycle and Policies

Matching Table

Unit	i. Remembering	ii. Understanding	iii. Applying	iv. Analyzing	v. Evaluating	vi. Creating
1	Yes	Yes	Yes	Yes	Yes	No
2	Yes	Yes	Yes	Yes	Yes	No
3	Yes	Yes	Yes	Yes	Yes	No
4	Yes	Yes	Yes	Yes	Yes	No
5	Yes	Yes	Yes	Yes	Yes	No

UNIT-1: - Introduction of Managerial Economics

Teaching Hours: 9Hrs

Definition and scope of the subject-fundamental concepts and Methods-firm's objectives and the role of managerial economist.

Semester: II,

Paper type: Core Paper

Paper code.....

Name of the Paper: HUMAN RESOURCE MANAGEMENT

Credit: 4

Total Hours per Week: 6 Hrs, Lecture Hours: 6hrs. Tutorial Hours: Nil. Practical Hours: Nil

.....

Course Objectives

1. To make students to understand the basic concepts of Human Resource Management.
2. To expand the understanding of the Recruitment and Selection Procedure
3. To facilitate the students to be thoughtful about the Grievances procedure
4. To express to students the methods of Performance Appraisal
5. To let to know students about the Techniques of Training.

Course Outcomes:

1. After studied Unit-1, the student will be able to understand the concepts of Human Resource Management
2. After studied Unit-2, the student will be able to understand Recruitment and Selection Procedure
3. After studied Unit-3, the student will be able to know the various ways of solving the employee grievances procedure.
4. After studied Unit-4, the student will be able to know the evaluation the methods of Performance Appraisal
5. After studied Unit-5, the student will be able to evaluate the Different Techniques of Training.

Matching Table

Unit	i. Remembering	ii. Understanding	iii. Applying	iv. Analyzing	v. Evaluating	vi. Creating
1	Yes	Yes	Yes	Yes	Yes	No
2	Yes	Yes	Yes	Yes	Yes	No
3	Yes	Yes	Yes	Yes	Yes	No
4	Yes	Yes	Yes	Yes	Yes	No
5	Yes	Yes	Yes	Yes	Yes	No

UNIT- 1: - Introduction

Teaching Hours: 18Hrs

HRM- Nature and Scope – Functions of HRM – Functions of HR Manager - development of the human potential - Link between organization planning and HR planning.

UNIT- 2: - Recruitment and SelectionTeaching Hours: 18Hrs

Acquisitions and Maintenance of Personnel - Recruitment and Selection - Purposes and methods of Recruitment and Selection - Maintenance of Personnel - Motivation for increased productivity - QWL.

Semester: III,

Paper type: Core Paper

Paper code.....

Name of the Paper: GOODS & SERVICES TAX (GST)

Credit: 4

Total Hours per Week: 6 Hrs, Lecture Hours: 6hrs. Tutorial Hours: Nil. Practical Hours: Nil

.....

Course Objectives

1. To gain expert knowledge on the principles and law relating to Indirect Taxation and GST in India.
2. To expose the students with the latest development in GST.
3. To impart skill in applying and analysing the provisions of Goods and Service Tax Act.
4. To know about the basic Administration of GST.
5. To Familiarize the Provisions to appeal in the court.

Course Outcomes

1. The students will able to know and familiarize with the fundamentals of Taxation.
2. The students will able to know GST and its history of GST and their types.
3. The students will able to know the exempted goods and Services under GST Act.
4. The students will able to know the Administration of GST and Authority.
5. The students will able to know how to avail the Appeal and Revision under GST

Matching Table (Put Yes / No in the appropriate box)

Unit	i. Remembering	ii. Understanding	iii. Applying	iv. Analyzing	v. Evaluating	vi. Creating
1	Yes	Yes	Yes	Yes	No	No
2	Yes	Yes	Yes	Yes	Yes	No
3	Yes	Yes	Yes	Yes	No	No
4	Yes	Yes	Yes	Yes	Yes	No
5	Yes	Yes	Yes	Yes	Yes	Yes

UNIT – 1: - Introduction

Teaching Hours: 18Hrs

Meaning and Definition of Indirect Taxes-Nature-Scope Constitutional Provisions-Advantages-Disadvantages-Difference between Direct and Indirect Taxes- Types-Milestones in the history of Indirect Taxation in India - Goods & Services Tax (GST) Act 2016-Introduction - Meaning- Definition-Major Indirect Taxes merged in to Goods and Service Tax.

UNIT – 2: - Basic Provisions of GST

Teaching Hours: 18Hrs

Introduction--Historical backdrop of Goods and Service Tax-objectives & features - Strengths, Weaknesses, Opportunities and Challenges (SWOC) Analysis of GST in India. –

Advantages & Limitations of GST-Economy, Industry and trade, tax payers-Types of GST - CGST-IGST-SGST- UTGST Schedules-Rate of GST- Tamil Nadu GST Provisions.

UNITT – 3: - Main Provisions of GST	Teaching Hours: 18Hrs
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Provisions Compensation (GST) Law-Definitions of important terms-Levy of Tax- Collection-relating to Place, Time and Value of Supply-Different meaning of supply- Composite Supply Mixed supply- Scope of Supply- Taxable Supply- E-Commerce-SupplyChain, GST Exemption limit-Tax Invoice-Credit and Debit Notes-Valuation Rules- Computation Tax Input tax Credit (ITC)-Registration-procedures-Deemed Registration- Cancellation of Registration. Accounts and Records- Period of Retention of Records- Presumption as to Documents>Returns- Annual-Final-Payment of Tax-Information Technology in GST Audit- Special Audit-Assessment-Refund-Consumer welfare Fund-GST Per actioners - TDS/TCS

UNITT – 4: - Administration of GST	Teaching Hours: 18Hrs
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GST Council-Authorities-Inspection-search seizure-Arrest-Demand-Recovery-Liability to pay tax in certain cases-Advance Ruling- Authority and Appellate Authority - GSTN- Information infrastructure for GST.

UNIT – 5: - Appeals& Revisions under GST	Teaching Hours: 18Hrs
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Appeals-Appeal to High Court Appeal to Supreme Court- Revisions-Offences- Compounding of Offences-Penalty Transitional provisions-IGST Provisions- Inter-state Supply- Intra-state supply- Zero rated Supply- Imported Supply- Transfer of ITC-Compensation Rules- Base year Revenue-Projected Revenue-Miscellaneous Provisions-Interest-Job Work Procedure Deemed Export.

Text Books:

1. Goods and Services Tax, Dr. H.C. Mehrotra and V.P. Agarwal, Sahitya Bhawan Publications, Agra.
2. GST- A Brief Introduction, L.V.R. Prasad and G.J. Kiran Kumar, PK Publishers.
3. Indirect Taxes- Dr.H.CMehrotra& Prof. Agarwal, SahityaBhavanPublishers,Agra.
4. GST Law & Procedure, Anandaday Misra, Taxman
5. Hand Book of GST in India Concepts and Procedures(2017Edition) RakeshGarg&SandeepGarg - Bloomsbury India Publications

Reference Book

1. GST in India-RakeshGarg&SandeepGarg, Bloomsbury IndiaPublications
2. All about GST-V.S Datey-Taxman Publications.
3. GST Law, Concept & Impact Analysis-Dr.SanjivAgarwal
4. GST Law & Analysis with Conceptual Procedure-Bimal Jain &IshaBensalYoungGlobal.

5. GST Bare Acts, Rules, Notifications &Circulars

Mapping with Programme Outcomes

COs	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10
CO1	S	M	M	M	S	M	M	S	S	M
CO2	S	M	S	S	M	S	S	M	S	M
CO3	M	S	M	S	S	S	M	M	M	S
CO4	S	M	S	M	S	S	M	S	S	M
CO5	S	S	S	S	M	M	M	M	S	S

PO – Programme Outcome, CO – Course outcome S – Strong, M – Medium, L – Low (may be avoided)

Semester: III,

Paper type: Core Paper

Paper code.....

Name of the Paper: ORGANISATIONAL BEHAVIOUR

Credit: 4

Total Hours per Week: 6 Hrs, Lecture Hours: 6hrs. Tutorial Hours: Nil. Practical Hours: Nil

Course Objectives

1. To understand the basic concepts of organizational behaviour.
2. To bring an understanding on different types of motivational theories
3. To facilitate the students to know the stress management
4. To let to know students to organisational structure and organisational Effectiveness

Course Outcome

1. After studying studied Unit-1 students will be able to understand the basic concept of organisational behaviour and foundations of individual behaviour.
2. After studying Unit -1 students will be able to have a idea about Personality, Stages of personality, perception, learning, attitudes, values and emotions.
3. After studying Unit-2 student will be able to develop an idea about different motivational theories and evaluate motivational strategies used in a variety of organizational settings.
4. After studying Unit-2 students will be able to understand motivation, morale, organisational citizenship behaviour.
5. After studying Unit-3 student will be able to understand the foundation of group dynamics.
6. After studying Unit-3 student will be able to understand work stress, stress management and coping strategies of stress.
7. After studying Unit-4, the student will be able to evaluate the appropriateness of various leadership styles and how to deal with organisational conflict.
8. After studying Unit-4, the student will be able to remember the concepts of organisational conflicts, stages, sources, types and conflict management.
9. After studying Unit-5, the student will be able to understand different types of organizational structures and importance of organizational effectiveness.
10. After studying Unit-5, the student will be able to understand organisational effectiveness & performance and organisational ethics

Matching Table (Put Yes / No in the appropriate box)

Unit	i. Remembering	ii. Understanding	iii. Applying	iv. Analyzing	v. Evaluating	vi. Creating
1	Yes	Yes	Yes	Yes	Yes	No
2	Yes	Yes	Yes	Yes	Yes	No
3	Yes	Yes	Yes	Yes	Yes	No
4	Yes	Yes	Yes	Yes	Yes	No
5	Yes	Yes	Yes	Yes	Yes	No

THIRUVALLUVAR UNIVERSITY
MASTER OF SOCIAL WORK
DEGREE COURSE UNDER CBCS
(With effect from 2022-2023)
The Course of Study and the Scheme of Examination

Sl. No.	Study Components		ins. hrs / week	Credit	Title of the Paper	Maximum Marks		
	Course Title					CIA	Uni. Exam	Total
SEMESTER I								
1	Core		4	3	Social Work Profession and Practice	25	75	100
2	Core		4	3	Social Work practice with Individuals	25	75	100
3	Core		4	3	Social Work practice with Groups	25	75	100
4	Core Practical		15hrs. /week	5	Concurrent Field Work-I	40	60	100
Internal Elective for same major students (Choose any one)								
5	@ Core Elective	Paper-1	4	3	A. Sociology for Social Work practice B.Social Development : Theories and Perspectives C.Civil Society and Governance	25	75	100
External Elective for other major students (Inter/multi-disciplinary papers)								
6	@ Open Elective	Paper-1	4	3	A. Environmental Social Work B. Social Entrepreneurship C. Project Management	25	75	100
				20				
SEMESTER II						CIA	Uni. Exam	Total
7	Core		4	3	Social Work practice with Communities	25	75	100
8	Core		4	3	Social Work Research and Statistics	25	75	100
9	Core		4	3	Social Welfare Administration	25	75	100
10	Core practical		15hrs. /week	6	Concurrent Field Work-II	40	60	100
Internal Elective for same major students (Choose any one)								
11	@ Core Elective	Paper-2	4	3	A. Psychology for Social Work practice B.Human Growth and Personality Development C. Perspectives in Psychology	25	75	100
External Elective for other major students (Inter/multi-disciplinary papers)								
12	@ Open Elective	Paper-2	4	3	A.Theory and practice in counselling B. Peace building and conflict mitigation Personaland Professional	25	75	100

					Development			
13	@ *Field Study			2		100	-	100
14	@ Compulsory Paper		2	2	Human Rights & Duties	25	75	100
					Summer Placement (optional)			
			30	25				
S. No.	Study Components		ins. hrs / week	Credit	Title of the Paper	Maximum Marks		
	Course Title					CIA	Uni. Exam	Total
SEMESTER III								
15	Core		4	4	Human Resource Management(HRM)/Rural Community Development (CD)/Psychiatric Social Work Practice (MPSW)	25	75	100
16	Core		4	4	Labour Legislations and Labour Welfare (HRM)/Urban Community Development(CD)/Medical Social Work(MPSW)	25	75	100
17	Core		4	3	Computer Applications in Social Work	25	75	100
18	Core Practical		15hrs. /week	6	Concurrent Field Work-III	40	60	100
Internal Elective for same major students (Choose any one)								
19	@ Core Elective	Paper-3	4	3	A. Social Policy & Social Legislations B.Social Justice & Human Rights C.Social Policy &Planning	25	75	100
External Elective for other major students (Inter/multi-disciplinary papers)								
20	@ Open Elective	Paper-3	4	3	A.Understanding Marginalities B. Gender development C. Child Rights and Action	25	75	100
21	@ **MOOC Courses		-	2				
			30	25				
SEMESTER IV						CIA	Uni. Exam	Total
22	Core		4	3	Organization Behavior(HRM)/Development Strategies(CD)/Clinical Social Work Practice (MPSW)	25	75	100
23	Core		4	3	Industrial Relations(HRM)/Livelihood and Social Audit (CD)/Therapeutic Interventions in Social Work(MPSW)	25	75	100
24	Core Practical			5	Concurrent Field Work-IV	40	60	100
25	@ Core	Project Compulsory		5	Project with viva voce	100 (75 Project +25		100

						viva)		
Internal Elective for same major students (Choose any one)								
26	@ Core Elective	Paper-4	4	3	A. Disaster Management B. Corporate Social Responsibility C. Hospital Administration	25	75	100
External Elective for other major students (Inter/multi-disciplinary papers)								
27	@ Open Elective	Paper-4	4	3	A.Contemporary social work perspectives and concerns b.Dynamics of Human Behaviour c.Industrial Psychology	25	75	100
28					Block Placement (optional)			
				22				
				92				

SEMESTER III

Course Code	PO5 SEMESTER III	HUMAN RESOURCE MANAGEMENT	L	T	P	C
Paper type	PAPER - 7		4	-	-	3
Course Objectives:						
The main objectives of this course are to :						
<ol style="list-style-type: none"> 1. Gain knowledge about the management of human resources 2. Gain knowledge about the management of human resource planning 3. Gain knowledge about employee retention and separation 4. Understand the programmes and activities of management of human resources 5. Acquire the skills of working with recent trends and human resource development 						
Expected course outcomes:						
On the successful completion of the course, students will be able to:						
CO1	Define, classify, summarize, infer, compare, explain fundamental ideas related to Human Resource Management					K1-K6
CO2	Discover about Human Resource Planning					K1-K6
CO3	Acquire knowledge about Employee Retention and Separation:					K1-K6
CO4	Find social work, Compensation Management					A1-A5
CO5	Actively participating, assisting in various Trends in HRM and Human Resource Development:					P1-P6
CO6						P1-P6
Matching Table						
	i. Remembering	ii. Understanding	iii. Applying	iv. Analysing	V. Evaluating	vi. Creating
Unit I	Yes	Yes	Yes	Yes	No	No
Unit II	Yes	Yes	Yes	Yes	No	No
Unit III	Yes	Yes	Yes	Yes	No	No
Unit IV	Yes	Yes	Yes		No	No
Unit V	Yes	Yes	Yes	Yes	No	No
UNIT- I:	Human Resource Management:					8 hours
Human Resource Management: Concept, role and importance as part of general management – Personnel Management						

Vs Human Resource Management - objectives and Functions of HRM - Evolution of HRM – HRM in Service and Manufacturing Organisations: Industry, Hospital, Hotel, Shops and Establishments, Software Industry and Service Organisations.		
UNIT- II:	Human Resource Planning	12hours
Human Resource Planning: Concept and process of Human Resource planning – Recruitment and selection. Selection Process: Application Blank, Written Test, Group Discussion, Essentials of a good Curriculum Vitae, Interviewing techniques and skills, Types of Interviews, Offer Letters, References, Medical Check-ups; Induction and Placement; Job design, job analysis, Job descriptions, Job classification and Job evaluation. Sources of manpower supply: On-Campus, Off-Campus, Referrals, Consultancies, Internal Mobility, Employee outsourcing.		
UNIT- III:	Employee Retention and Separation:	12hours
Employee Retention and Separation: Attrition and Retention - Concept and Problems. Causes of Job Hopping. Leave Management: Types of Leave. Disciplinary procedures: Concept of Charge Sheet, Domestic enquiry. Grievance Redressal Procedures; Performance Management Systems; Transfers and Promotions. Separation: Discharge, Dismissal, Resignation, Retirement, VRS, CRS; Exit Interview; Retirement Benefits.		
UNIT-IV:	Compensation Management:	10 hours
Compensation Management: Concept of Wage and Salary – Wage Theories – Types of wages – Wage Board - Wage Components - wage differentials – wage regulators – Incentive Schemes - Fringe Benefits -Employee benefit plans.		
UNIT-V:	Trends in HRM and Human Resource Development:	8 hours
Trends in HRM and Human Resource Development: Current Trends in HRM:HRIS, ERP in HRM – e-HR: e-Recruitment, e-Learning, Performance Management, e-Reward - Manager Vs. Leader - Concept of Human Relations Approach -Challenging role of human resource manager. Human Resource Development : concept, meaning, functions, HRD Instruments. Training and development: concept, difference, 4-steps training process (Training Need Identification, Instructional Design, Training Programme Implementation, Training Evaluation). Formal Employee Training Methods (on the job training and off the job training methods). Methods of evaluating training effectiveness.		
Internal assessment methods		
Class test, organizing skill, self-gained abilities, evidence based social work at home town		
Text books		
1. Premavathy N. 2011. Human Resource Management and Development. Sri Vishnu Publications. Chennai. Flippo Edwin B(1984) personnel management . McGraw-Hill international Edition New Delhi		
Reference books		
1. Aswathappa K. 2011. Human Resource Management Publishing by Tata Mc Graw Hill Education Pvt. Ltd. 2. Dessler Gary, Biji Varkkey. 2012. Human Resource Management. Dorling Kindersley Publishing Company.		

3. Jeffrey A Mello. 2011. Strategic Human Resource Management. Cengage Learning India.
4. Michal J Kavanagh & Mohan Thite. 2010. Human Resource Information System. Sage Publications India Pvt Ltd.
5. Uday kumar haldar. Human resource management. 2010. Published in India by oxford university press.

E-Materials

1. www.mca.gov.in
2. www.esic.nic.in
3. www.epfindia.com
4. www.labour.nic.in
5. www.lawmin.nic.in

Online Contents

1. <https://youtu.be/JVNgVewS2kc>

2. <https://youtu.be/LtaCmORiP9A>

3. <https://youtu.be/Y8kX0ZyUOBs>

4. <https://youtu.be/06hfW8I-p34>

5. <https://youtu.be/IJRqCe2oY3s>

Mapping with programme outcomes

COs	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO9	P010
CO1	M	S	S	M	S	M	S	S	S	M	M
CO2	S	M	S	S	M	S	S	M	M	S	S
CO3	S	S	M	S	M	S	M	S	S	M	M
CO4	M	S	M	S	M	S	M	S	M	S	S
CO5	S	M	S	M	S	M	S	S	M	S	S

THIRUVALLUVAR UNIVERSITY
MASTER OF SCIENCE
M.Sc. CHEMISTRY
DEGREE COURSE
UNDER CBCS
With effect from 2022-2023

The Course of Study and the Scheme of Examinations

S. No.	Study Components		Ins. Hrs/ week	Credit	Title of the Paper	Maximum Marks		
	Course Title							
SEMESTTER I						CIA	Uni. Exam	Total
1.	Core Theory	Paper-1	4	4	Organic Chemistry- I	25	75	100
2.	Core Theory	Paper-2	4	3	Inorganic Chemistry- I	25	75	100
3.	Core Theory	Paper-3	4	3	Physical Chemistry- I	25	75	100
	Core Practical	Paper-1	4	0	Organic Chemistry Practical- I	-	-	-
	Core Practical	Paper-2	4	0	Inorganic Chemistry Practical- I	-	-	-
	Core Practical	Paper-3	4	0	Physical Chemistry Practical- I	-	-	-
Internal Elective for same major students								
4.	Core Elective	Paper-1	3	3	(to choose 1 out of 3) A. Advanced Polymer Chemistry B. Heterocyclic Chemistry C. Materials Chemistry	25	75	100
External Elective for other major students (Inter/multi disciplinary papers)								
5.	Open Elective	Paper-I	3	3	(to choose 1 out of 3) A. Chemistry in Agriculture B. Food Chemistry C. Industrial chemistry-I	25	75	100
			30	16		125	375	500
SEMESTER II						CIA	Uni. Exam	Total
6.	Core Theory	Paper-4	3	3	Organic Chemistry- II	25	75	100
7.	Core Theory	Paper-5	3	4	Inorganic Chemistry- II	25	75	100
8.	Core Theory	Paper-6	3	3	Physical Chemistry- II	25	75	100
9.	Core Practical	Paper-1	5	3	Organic Chemistry Practical- I	25	75	100
10.	Core Practical	Paper-2	5	3	Inorganic Chemistry Practical- I	25	75	100
11.	Core Practical	Paper-3	5	3	Physical Chemistry Practical- I	25	75	100
12.	Compulsory paper		2	2	Human Rights	25	75	100
Internal Elective for same major students								
13.	Core	Paper-2	2	3	(to choose 1 out of 3)	25	75	100

	Elective				A. Green Chemistry B. Supramolecular and Nanochemistry C. Modern Separation Techniques			
External Elective for other major students (Inter/multi disciplinary papers)								
14.	Open Elective	Paper-II	2	3	(to choose 1 out of 3) A. Medicinal Chemistry B. Textile chemistry C. Dairy Chemistry	25	75	100
15.	Field Study		-	2		-	-	100
			30	29		225	675	1000
SEMESTER III								
						CIA	Uni. Exam	Total
16.	Core Theory	Paper-7	3	3	Organic Chemistry- III	25	75	100
17.	Core Theory	Paper-8	4	4	Inorganic Chemistry- III	25	75	100
18.	Core Theory	Paper-9	4	4	Physical Chemistry- III	25	75	100
	Core Practical	Paper-4	5	0	Organic Chemistry Practical- II	-	-	-
	Core Practical	Paper-5	5	0	Inorganic Chemistry Practical- II	-	-	-
	Core Practical	Paper-6	5	0	Physical Chemistry Practical- II	-	-	-
Internal Elective for same major students								
19.	Core Elective	Paper-3	2	3	(to choose 1 out of 3) A. Scientific Research Methodology B. Advanced Bioinorganic Chemistry C. Advanced analytical techniques	25	75	100
External Elective for other major students (Inter/multi disciplinary papers)								
20.	Open Elective	Paper-3	2	3	(to choose 1 out of 3) A. Industrial Chemistry-II B. Science of Photography C. Energy Resources	25	75	100
21.	MOOC Courses		-	2		0	0	100
			30	19		125	375	600
SEMESTER IV								
						CIA	Uni. Exam	Total
22.	Core Theory	Pape-10	4	4	Organic Chemistry- IV	25	75	100
23.	Core Theory	Paper-11	4	4	Physical Chemistry- IV	25	75	100
24.	Core Practical	Paper-4	5	3	Organic Chemistry Practical- II	25	75	100
25.	Core Practical	Paper-5	5	3	Inorganic Chemistry Practical- II	25	75	100
26.	Core Practical	Paper-6	5	3	Physical Chemistry Practical- II	25	75	100
27.	Core	Project	5	5	Project with viva voce (Compulsory)	100 (75 Project +25 viva)		100

Internal Elective for same major students								
28.	Core Elective	Paper-4	2	3	(to choose 1 out of 3) A. Inorganic Chemistry-IV B. Environmental Chemistry C. Medicinal Chemistry and Drug Design	25	75	100
External Elective for other major students (Inter/multi disciplinary papers)								
29.	Open Elective	Paper-4	2	3	(to choose 1 out of 3) A. Polymer and plastics B. Basics of Forensic science C. Health Science	25	75	100
				28		175	525	800
				92				2900

THIRUVALLOVAR UNIVERSITY
MASTER OF SCIENCE
(With effect from 2022–2023)

The Course of Study and the Scheme of Examination

@Compulsory Courses don't change this category. Number of core papers & Practical may be changed

Sl. No.	Study Components		ins. hrs / week	Credit	Title of the Paper	Maximum Marks		
	Course Title					CIA	Uni. Exam	Total
SEMESTER I								
	Core		6	5	Algebra-I	25	75	100
			6	5	Real Analysis –I	25	75	100
			6	4	Ordinary Differential Equations	25	75	100
Internal Elective for same major students (Choose any one)								
	@ Core Elective	Paper-1	6	3	A. Probability Theory B. Mechanics C. Graph Theory	25	75	100
External Elective for other major students (Inter/multi disciplinary papers)								
	@ Open Elective	Paper-1	6	3	A. Basic Mathematics B. Mathematical Foundations C. Mathematical Modeling	25	75	100
			30	20				
SEMESTER II						CIA	Uni. Exam	Total
	Core		6	5	Algebra-II	25	75	100
			6	5	Real Analysis –II	25	75	100
			6	4	Partial Differential Equations	25	75	100
Internal Elective for same major students (Choose any one)								
	@ Core Elective	Paper-2	5	3	A.Mathematical Statistics B. Fuzzy Set Theory C. Difference Equations	25	75	100
External Elective for other major students (Inter/multi disciplinary papers)								
	@ Open Elective	Paper-2	5	3	A. Fundamentals of Insurance B. Numerical Methods C. Fundamentals of Business Statistics	25	75	100
	@ Compulsory Paper		2	2	Human Rights & Duties	25	75	100
			30	22				

Sl. No.	Study Components		ins. hrs / week	Credit	Title of the Paper	Maximum Marks		
	Course Title					CIA	Uni. Exam	Total
SEMESTER III								
	Core		6	6	Complex Analysis –I	25	75	100
			6	5	Topology	25	75	100
			6	5	Differential Geometry	25	75	100
Internal Elective for same major students (Choose any one)								
	@ Core Elective	Paper-3	6	3	A. LaTeX B. Discrete Mathematics C. Operations Research	25	75	100
External Elective for other major students (Inter/multi disciplinary papers)								
	@ Open Elective	Paper-3	6	3	A. Mathematical Biology B. Quantitative Techniques C. SCILAB	25	75	100
	@MOOC Courses		-	2				100
	@Field Study			2		100		100
			30	26				
SEMESTER IV						CIA	Uni. Exam	Total
	Core		5	4	Complex Analysis –II	25	75	100
			5	4	Fluid Dynamics	25	75	100
			5	5	Functional Analysis	25	75	100
	@ Core	Project Compulsory	5	5	Project with <i>viva voce</i>	100 (75 Project +25 viva)		100
Internal Elective for same major students (Choose any one)								
	@Core Elective	Paper-4	5	3	A. Number Theory and Cryptography B. Advanced Numerical Analysis C. Calculus of Variations and Integral Equations	25	75	100
External Elective for other major students (Inter/multi disciplinary papers)								
	@ Open Elective (Non-Major)	Paper-4	5	3	A. Mathematical Economics B. Entrepreneurial Development C. Programming in C++	25	75	100
			30	24				
			120	92				

THIRUVALLUVAR UNIVERSITY

MASTER OF SCIENCE

M.Sc. Physics

(With effect from 2022– 2023)

The Course of Study and the Scheme of Examination

Sl. No.	Study Components		ins. hrs / week	Credit	Title of the Paper	Maximum Marks		
	Course Title					CIA	Uni. Exam	Total
SEMESTER I								
1.	Core-Theory	Paper-1	5	4	Mathematical Physics - I	25	75	100
2.	Core-Theory	Paper-2	5	4	Classical and Statistical Mechanics	25	75	100
3.	Core-Theory	Paper-3	5	4	Quantum Mechanics - I	25	75	100
	Core-Practical	Paper-1	4	0	General Practical	0	0	0
	Core-Practical	Paper-2	4	0	Electronics Practical	0	0	0
Internal Elective for same major students (Choose any one)								
4.	Core Elective	Paper-1	4	3	(to choose one out of 3) A. Electronic Devices and Applications B.Fiber Optic Communication C. Electronics Communication Systems	25	75	100
External Elective for other major students (Inter/multi-disciplinary papers)								
5.	Open Elective	Paper-1	3	3	(to choose one out of 3) A.Energy Physics B.Basic Physics C. Communication Physics	25	75	100
			30	18		125	375	500
SEMESTER II						CIA	Uni. Exam	Total
6.	Core-Theory	Paper-4	5	4	Mathematical Physics - II	25	75	100
7.	Core-Theory	Paper-5	4	4	Electro Magnetic Theory	25	75	100
8.	Core-Theory	Paper-6	4	4	Quantum Mechanics - II	25	75	100
9.	Core-Practical	Paper-1	4	4	General Practical	25	75	100
10.	Core-Practical	Paper-2	4	4	Electronics Practical	25	75	100
Internal Elective for same major students (Choose any one)								
11.	Core Elective	Paper-2	4	3	(to choose one out of 3) A.Nanoscience B.Electronics Instrumentation C. Non- linear optics	25	75	100
External Elective for other major students (Inter/multidisciplinary papers)								
12.	Open Elective	Paper-2	3	3	(to choose one out of 3) A.Spectroscopy and Lasers B. Physics for Competitive Exams C. Analog and Digital Electronics	25	75	100
13.	Field Study		-	2		100	-	100

14.	Compulsory Paper		2	2	Human Rights & Duties	25	75	100
			30	30		300	600	900
SEMESTER III						CIA	Uni. Exam	Total
15.	Core-Theory	Paper-7	5	4	Condensed Matter Physics	25	75	100
16.	Core-Theory	Paper-8	4	4	Nuclear Physics	25	75	100
17.	Core-Theory	Paper-9	4	4	Microprocessors and Microcontrollers	25	75	100
	Core-Practical	Paper-3	5	-	Advanced General Experiments	0	0	0
	Core-Practical	Paper-4	5	-	Programming& Problem solving skills	0	0	0
Internal Elective for same major students								
18.	Core Elective	Paper-3	4	3	(to choose one out of 3) A. Research methodology B. Material Science C. Numerical Methods and C programming	25	75	100
External Elective for other major students (Inter/multi-disciplinary papers)								
19.	Open Elective	Paper-3	3	3	(to choose one out of 3) A. Electrical and Electronics Appliances B. Physics of Materials C. Geophysics	25	75	100
20.	MOOC Courses		-	2				
			30	20		125	375	600
SEMESTER IV						CIA	Uni. Exam	Total
21.	Core-Theory	Paper-10	6	4	Spectroscopy	25	75	100
22.	Core-Practical	Paper-3	5	4	Advanced General Experiments	25	75	100
23.	Core-Practical	Paper-4	5	4	Microprocessor, Microcontroller & C++ Programming	25	75	100
24.	Core	Project	5	6	Project with viva voce (Compulsory)	100 (75 Project +25 viva)		100
Internal Elective for same major students								
25.	Core Elective	Paper-4	6	3	(to choose one out of 3) A. Crystal Growth and Thin Films B. Medical Physics C. MATLAB and Python Programming	25	75	100
External Elective for other major students (Inter/multidisciplinary papers)								
26.	Open Elective	Paper-4	3	3	(to choose one out of 3) A. Nanophysics B. Astrophysics C. Weather forecasting	25	75	100
			30	24		125	475	600
			120	92				2600

THIRUVALLUVAR UNIVERSITY
MASTER OF
SCIENCE
M.Sc. ZOOLOGY
DEGREE COURSE
UNDER CBCS

(With effect from 2020-2021)

The Course of Study and the Scheme of Examinations

S.No	Study Components		Ins. Hrs /Week	Credit	Title of the paper	Maximum Marks		
	Course Title							
SEMESTER I						CIA	Uni. Exam	Marks
1	Core	Paper-1	5	4	Life and Diversity of Invertebrates	25	75	100
2		Paper-2	5	4	Life and Diversity of Chordates	25	75	100
3		Paper-3	5	4	Cell and Molecular biology	25	75	100
4	Practical I	Paper-1	9		Life and diversity of Invertebrates, Life and diversityof Chordates and Cell and molecular Biology	-	-	-
5	ELECTIVE	Paper-1	3	3	(A) Aquaculture and Farm management (B) Biostatistics and Bioinformatics	25	75	100
6	OPEN ELECTIVE (Non-Major)	Paper-1	3	3	(A) Apiculture (B) Public Health and Hygiene	25	75	100
			30	18		125	375	500
SEMESTER II						CIA	Uni. Exam	Marks
7	Core	Paper-4	4	4	Genetics	25	75	100
8		Paper-5	4	4	Environmental Biology	25	75	100
9		Paper-6	4	4	Biotechnology	25	75	100
10	Practical I	Paper-I	-	4	Life and diversity of Invertebrates, Chordates, Cell and molecular Biology.	25	75	100
11		Paper-II	10	4	Genetics, Environmental Biology and Biotechnology	25	75	100
12	Compulsory Paper		2	2	Human Rights	25	75	100
13	ELECTIVE	Paper-2	3	3	(A) Endocrinology (B) Bio-Chemistry	25	75	100
14	OPEN ELECTIVE Non-Major	Paper-2	3	3	(A) Vermiculture (B) Wild Life Management and Conservation	25	75	100
			30	30		225	675	900

SEMESTER III						CIA	Uni. Exam	Marks
15.	Core Theory	Paper-7	4	3	Animal Physiology	25	75	100
16.	Core Theory	Paper-8	4	3	Developmental Biology	25	75	100
17.	Core Theory	Paper-9	4	3	Immunology	25	75	100
18.	Core Practical	Paper-3	12	-	Animal Physiology, Developmental biology and Immunology	-	-	-
Internal Elective for same major students								
19.	Core Elective	Paper-3	3	3	(to choose one out of 2) (A) Bioethics and Biosafety (B) Biophysics	25	75	100
External Elective for other major students (Inter/multi disciplinary papers)								
20.	Open Elective	Paper-3	3	3	(to choose one out of 2) (A) Aquarium fish keeping (B) Medical Laboratory Technology	25	75	100
21.	Field Study			2		25	75	100
22.	MOOC Course		-	2		-	-	100
			30	17		125	375	600
SEMESTER IV								
23.	Core Theory	Paper-10	5	4	Research Methodology	25	75	100
24.	Core Theory	Paper-11	5	4	Entomology	25	75	100
25.	Core	Project	5	5	Project with viva voce (Compulsory)	100(75 Project+ 25 Viva)		100
26.	Core Practical	Paper-3	-	4	Animal Physiology, Developmental Biology and Immunology	25	75	100
27.	Core Practical	Paper-4	9	4	Research Methodology and Entomology	25	75	100
Internal Elective for same major students								
28.	Core Elective	Paper-4	3	3	(to choose one out of 2) (A) Sericulture (B) Microbiology	25	75	100
External Elective for other major students (Inter/multi disciplinary papers)								
29.	Open Elective	Paper-4	3	3	(to choose one out of 2) (A) Sericulture (B) Pearl Culture	25	75	100
			30	27		175	525	700
				92				2700

Semester: IV
Paper code: DZO41
Credit: 4

Paper type: Core Paper 10
Name of the Paper: RESEARCH METHODOLOGY
Total Hours per Week: 5

Course Objectives

- To make the students, learning statistical and bioinformatics tools.
- To make the students, understand spectroscopic principle and application.
- To make the students, know various bio-molecule separation techniques.
- To make the students, operate various microscopes.
- To make the students, get experienced in research paper writing and publication.

UNIT-I: BIOSTATISTICS & BIOINFORMATICS

Collection and analysis of biological data - mean, median, mode, Standard deviation, Standard error, Coefficient of variation, Student 't' test, Skewness, Kurtosis, Chi - square, Correlation, Regression and ANOVA.
Internet - Worldwide Web - Search Engines - their functions. Boolean searching - file formats.
Biological data bases - sequence and structure – data retrieval - searching source data bases - sequence similarity searches - FASTA and BLAST, clustal and phylip.

UNIT-II: SPECTROSCOPY

Absorption and Emission principles - Principles and applications of UV-visible, Spectrofluorometer, flame photometer, Atomic Absorption and emission spectrophotometers, NMR and Mass spectrometer.

UNIT-III: CHROMATOGRAPHY & ELECTROPHORESIS

Principles and Application of Chromatography: Paper, Thin layer, column, Ion Exchange, Gel filtration, Gas Liquid, HPLC and affinity chromatography.
Principles and Application of Electrophoresis: AGE, PAGE, 2D gel and Iso-Electric focusing.

UNIT-IV: MICROSCOPY

Principles, construction and biological uses of phase contrast, fluorescence, scanning and transmission electron microscopes.

UNIT-V: PREPARATION OF MANUSCRIPTS

Preparation of index cards - Reference collection - preparation of thesis - preparation of Scientific paper for publication in a Journal. Internet and e-journals. Computer aided techniques for data analysis, data presentation and power point preparation.

Course Out Comes (five outcomes for each units should be mentioned)

1. After studied unit-1, the student will be learning statistical methods.

- The student can able to works on Computers for Projects and Research.
- Student can able to understand search engines, Boolean searching, file formats etc.
- By learning data base, student can analyses the sequence similarities of the FAST and BLAST etc.

2. After studied unit-2, the student will be able to

- understand the different types of Spectrometers.
- They learn the principles of Nuclear Magnetic Resonance to identify the atomic elements of chemicals.

THIRUVALLUVAR UNIVERSITY

HUMAN RIGHTS

COMPULSORY PAPER

(For all PG Degree Courses)

(with effect from 2020-2021)

Course Objectives

1. Human Rights are the rights of all Human Beings. They have universal application. Awareness about Human Rights and concern for its protection has become an important issue after the second world war and paved way for world Nations to come together for acceptance of Universal Declaration of Human Rights.

2. The role of UN in protecting and promoting awareness of Human Rights is highly significant. The binding nature of the International Conventions and Covenants are still a dilemma. The persuasive force in case of violation of human rights by International community is an area of concern. In the absence of National legislations enforcement of these rights remain as one farce.

3. To trace the development of regional instruments drafted aiming at protection of Human Rights and its enforceability.

4. The Indian perspective of protection of Human Rights vide its Legislations, the Constitution of India more read by its language, the Fundamental rights, Duties and Directive Principles of the State Policy has been elicited. The response shown by Indian judiciary and the expression of judicial activism is highlighted. The development of Human Rights jurisprudence in India is traced.

5. The Special legislations and the enforcement machineries remain as a watch dog in the due enforcement of Human Rights in India. The duty to protect human right of all individuals more particularly those are vulnerable remains more as a National obligation. The course intends to evaluate the Redressal mechanisms practiced in India.

COURSE CONTENTS

UNIT-1:

Human rights- Concepts & Nature

Human Rights: Meaning, Definition, Nature, Content- Legitimacy of Human Rights- Origin and Development of Human Rights- Theories – Principles of Magna Carta – Modern Movements of Human Rights – The Future of Human Rights.

UNIT-2:

Human Rights – The International Perspective

International human rights – Human Right concepts Prior and after World War II – UNO – Universal Declaration of Human Rights (UDHR) – International Covenant on Civil and Political Rights (ICCPR) – International Covenant on Economic, Social and Cultural Rights (ICESCR)- Optional Protocols- Human Right Declarations – Role of United Nation Commissions – Convention on the Elimination of All forms of Discrimination against women (CEDAW) – United Nations Convention against Torture (UNCAT) - United Nations Convention on the Rights of the Child (CRC or UNCRC) - Conventions on the Protection of the Rights of Migrant Workers and Disabled.

UNIT-3:

Regional Human Rights

European Human Rights System- African Human Rights System – International Human Rights – Enforceability before Domestic Courts.

UNIT-4:

Human Rights in India

The Constitution of India – Fundamental Rights – Right to Life and Liberty – Directive Principles of State Policy – Fundamental Duties – Individual and Group Rights – Other facets of Human Rights – Measures for Protection of Human Rights in India.

UNIT-5:

Human Right Violations and Redressal Mechanism

Human Rights – Infringement of Human Right by State Machinery and by Individual – Remedies for State action and inaction – Constitutional remedies – Public Interest Litigation (PIL) - Protection of Human Rights Act, 1993 – National Human Rights Commission – State Human Rights Commissions – Constitution of Human Right Courts

Text Books

Unit-1

- Human Rights Lalit Parmar, Anmol Publications Pvt. Limited, 1998
- Human Rights In International Relations, David P. Forsythe, Cambridge University Press

Unit-2

- Alston, Philip, And Frederic Megret, Eds. The United Nations And Human Rights: A Critical Appraisal. Second Edition. Oxford University Press, 2014.

- Bassiouni, M. Cherif, And William A. Schabas, Eds. New Challenges For The UN Human Rights Machinery: What Future For The UN Treaty Body System And The Human Rights Council Procedures? Intersentia, 2011.
- Kruckenber, Lena J. The Unreal World Of Human Rights: An Ethnography Of The UN Committee On The Elimination Of Racial Discrimination. Nomos Publishers, 2012.

Unit-3

- Rebecce Wallace, International Human Rights, Text And Materials 1997
- European Convention On Human Rights: Texts And Documents (Herbert Miehsler & Herbert Petzold Eds., 1982)
- A.H. Robertson & J.G. Merrills, Human Rights In Europe: A Study Of The European Convention On Human Rights, 386-413 (3d Ed. 1993)
- International Human Rights Law And Practice ,Francisco Forrest Martin (1997)
- R.K S Inha, Human Rights Of The World (1997)
- African Commission On Human Rights And Peoples Rights Evelyn A Ankumah, (1996)
- The Constitution of India

Unit-4

- Human Rights Bharatiya Values, Mandagadde Rama Jois, Bharatiya Vidya Bhavan, 2015
- B P Singh Seghal , Human Rights in India 1996

Unit-5

- Paras Diwan and Piyush Diwan Women and Legal Protection
- Philip Alston Children Rights and the Law
- G S Bhargave and R M Pal Human Rights of Dalit Societal Violation 1999
- Gerald Van Bueren International Law and The Rights of the Child 1998
- P C Tirpathi Crime Against Working Women

Reference Items: books, Journal

- Protection Of Human Rights Act, 1993.
- Constitutional Law of India (3 Volumes) by Seervai H.M 2015
- The Human Rights Watch Global Report On Women's Human Rights 2000 Oxford Publication
- RS Sharma Perspectives In Human Rights Development
- Julies Stone Human Law And Human Justice 2000 Universal Publication
- Research Handbook On International Human Rights Law, Edited By Sarah Joseph & Edited By Sarah Joseph, Edward Elgar Publishing Limited USA

Course Out Comes

1. After studying unit-1, the student will be able to know the nature of human rights its origin , the theories, the movements in the march of human rights and the facets of future of human rights.
2. After studying unit-2, the student will be able to know the international dimension of human rights, the role of UN and the global effort in formulating conventions and declarations
3. After studying unit-3, the student will be able to Perceive the regional developments of human rights in Europe , Africa and Asia and the enforceable value of human rights in international arena.
4. After studying unit-4, the student will be able to have knowledge on the human rights perspectives in India, more developed by its constitution and special legislations
5. After studying unit-5, the student will be able to know the redressal mechanism made available in case of human rights violation confined to India.
