

Study Scheme and Syllabus of
Post Graduation Degree

Syllabus of Common Courses of Post Graduation Degree

ACMH-811: English for Research Paper Writing and Professional Communication

RMAL-811 : Research Methodology and IPR

ACMH-821 : Constitution Of India



SLIET LONGOWAL

1.1 - COMMON COURSES OF FIRST YEAR

ACMH-811: English for Research Paper Writing and Professional Communication

L	T	P	Credits	Weekly Load
2	0	0	2	2

Course Outcomes:

After successful completion of course, the students should be able to

CO1: understand the basic concepts of Professional Communication

CO2: acquire planning and presentation slides

CO3: be able to draft different kinds of technical documents

CO4: understand ethics of doing research

CO5: develop English Communication competency

CO/PO Mapping : (Strong(S) / Medium(M) / Weak(W) indicates strength of correlation):												
Cos	Programme Outcomes (POs)											
	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12
CO1												
CO2												
CO3												
CO4												
CO5												

Unit – I

Professional Writing and Speaking Skills Basics of Grammar: Synonyms, Antonyms, Words often Confused

Unit – II

Planning and Preparation, Removing Redundancy, avoiding Ambiguity and Vagueness, Plagiarism

Unit – III

Identifying an Issue, Conduct Research, Organize Research Findings, and Present an Argument

Unit – IV

Formal and Informal Communication Styles, Developing PowerPoint Slides, Making an Oral Presentation and Writing e-mail Messages, Memos

Suggested Readings:

1. Adman Wallwork, English for Writing Research Papers, Springer New York Dordrecht Heidelberg London, 2011.
2. Day R (2006), How to Write and Publish a Scientific Paper, Cambridge University Press.
3. Goldbort R (2006), Writing for Science, yale University Press (available on Google Books). MLA Handbook, 2010.



SLIET LONGOWAL

1.1 - COMMON COURSES OF FIRST YEAR

Subject Code : RMAL-811
 Title of the course : RESEARCH METHODOLOGY AND IPR

L	T	P	Credits	Weekly Load
3	0	0	3	3

OBJECTIVES:

To impart knowledge on formulation of research problem, research methodology, ethics involved in doing research and importance of IPR protection.

COURSE OUTCOMES: After successful completion of course, the students should be able to

- CO1:** Learn about research problem formulation, data collection, analysis and research ethics.
- CO2:** Develop technical writing skills, learn about plagiarism and publication ethics.
- CO3:** Learn various statistical tools and methods for data analysis.
- CO4:** Learn about IPR, process and procedure for patent filing/publication especially related to technological research and innovations.

Pre-requisite knowledge:

CO/PO Mapping: (Strong(S) / Medium(M) / Weak(W) indicates strength of correlation):												
COs	Programme Outcomes (POs)											
	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12
CO1	3	3	3	2	2	3	2	3	1	1	2	3
CO2	2	3	3	2	3	2	2	3	2	3	2	3
CO3	3	3	3	3	3	2	2	2	2	2	2	2
CO4	3	3	3	3	2	2	2	3	2	3	2	3
Avg.	2.75	3	3	2.5	2.5	2.25	2	2.75	1.75	2.25	2	2.75

Theory

Course Description	Lecture(s)
Unit -I	
Research Methodology	08
Overview of research process and design, meaning of research problem, Sources of research problem, Criteria Characteristics of a good research problem, Errors in selecting a research problem, Scope and objectives of research problem. Approaches of investigation of solutions for research problem, data collection, analysis, Plagiarism, Research ethics.	
Data Collection and Analysis	08
Importance and scientific methodology in recording results, data collection, importance of negative results, different ways of recording, industrial requirement, artifacts versus true results, Effective literature studies approaches, types of analysis (analytical, objective, subjective), outcome as new idea, hypothesis, concept, theory, model etc., data collection, analysis.	
Technical Writing and Research Ethics	08
Importance of literature review- primary and secondary sources, identifying gap areas from the literature and research database, Interpretation. Effective technical writing, how to write a manuscript and response to reviewers' comments, preparation of research article/ research report.	



SLIET LONGOWAL

1.1 - COMMON COURSES OF FIRST YEAR

Ethics with respect to science and research, Publication ethics: definition, introduction and importance, Intellectual honesty and research integrity, Fabrication and plagiarism (FFP) - Redundant Publications: duplicate and overlapping publications Plagiarism and Research ethics. Open access publications and initiatives	
Unit -II	
Sampling & Data Interpretation	08
Mathematical tools for analysis, statistical analysis of data, regression analysis, correlation, concept of best fit and exact fit, exact fit, theory, examples from linear regression with one and more unknowns. Testing of Hypothesis, basic concepts concerning testing of hypothesis, testing of hypothesis, test statics and critical region, critical value and decision rule, Procedure of Hypothesis testing, hypothesis testing of mean, p-value approach, Limitations of test of hypothesis, Chi-square test, test of goodness fit.	
Intellectual Property Rights (IPR)	08
Introduction to intellectual property (IP); types of IP: Nature of Intellectual Property: Role of IP in the Economic and Cultural Development of the Society, Patents, Designs, Trademark and Copyright. Process of Patenting and Development: technological research, innovation, patenting & development. Procedure for grants of patents, Patenting under Patent Cooperation Treaty (PCT).	
Patent Rights	08
Patents – objectives and benefits of patent, Concept, features of patent, Inventive step, Specification, Types of patent application, process E-filing, Examination of patent, Grant of patent, Revocation, Equitable Assignments, Licenses, Licensing of related patents, patent agents, Registration of patent agents. Types of Patent Applications. Commonly Used Terms in Patenting. National Bodies Dealing with Patent Affairs. Utility Models. New Developments in IPR: Administration of Patent System.	

Total = 48

Textbooks & References:

1. Geoffrey Marczyk, David De Matteo, David Festinger (2005) Essentials of Research Design and Methodology, John Wiley & Sons, Inc.
2. Carol Ellison (2010) Concise Guide to Writing Research Papers, McGraw-Hill
3. Kothari CR (2016) Research Methodology: Methods and Techniques, New Age Pvt Ltd
4. Cooper Donald R, Schindler Pamela S and Sharma JK, "Business Research Methods", Tata McGraw Hill Education.
5. Catherine J. Holland, "Intellectual property: Patents, Trademarks, Copyrights, Trade Secrets", Entrepreneur Press.
6. The Institute of Company Secretaries of India, Statutory body under an Act of parliament, "Professional Programme Intellectual Property Rights, Law and practice", September 2013.
7. Wadehra, B.L. (2000). Law relating to patents, trademarks, copyright designs and geographical indications. Universal Law Publishing.



SLIET LONGOWAL

1.1 - COMMON COURSES OF FIRST YEAR

ACMH-821 : Constitution Of India

L	T	P	Credits	Weekly Load
2	0	0	2	2

Course Outcomes:

After successfully completing the course, students will be able to know about:

CO 1: Basic information about Indian constitution.

CO 2: Various organization of the governance.

CO 3: History & formation of Indian Constitution.

CO 4: Knowledge about Indian Judiciary.

CO 5: Knowledge About the constitutional body like election commission and its functioning.

CO/PO Mapping (S/M/W indicates strength of correlation) S-Strong, M-Medium, W-Weak												
Cos	Programme Outcomes (POs)											
	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12
CO1				S								
CO2					S							
CO3								S				
CO4						S						
CO5							S					

UNIT-I

History of Making of the Indian Constitution: History, Drafting Committee, (Composition & Working).

Philosophy of the Indian Constitution: Preamble, Salient Features.

Contours of Constitutional Rights & Duties: Fundamental Rights, Right to Equality, Right to Freedom, Right against Exploitation, Right to Freedom of Religion, Cultural and Educational Rights, Right to Constitutional Remedies, Directive Principles of State Policy, Fundamental Duties

UNIT-II

Organs of Governance: Parliament, Composition, Qualifications and Disqualifications, Powers and Functions, Executive, President, Governor, Council of Ministers, Judiciary, Appointment and Transfer of Judges, Qualifications, Powers and Functions.

UNIT- III

Election Commission: Election Commission: Role and Functioning. Chief Election Commissioner and Election Commissioners. State Election Commission.



SLIET LONGOWAL

1.1 - COMMON COURSES OF FIRST YEAR

UNIT-IV

Role and Functioning. Institute and Bodies for the welfare of SC/ST/OBC and women

Suggested reading

1. The Constitution of India, 1950 (Bare Act), Government Publication.
2. Dr. S. N. Busi, Dr. B. R. Ambedkar framing of Indian Constitution, 1st Edition, 2015.
3. M. P. Jain, Indian Constitution Law, 7th Edn., Lexis Nexis, 2014.
4. D.D. Basu, Introduction to the Constitution of India, Lexis Nexis, 2015.