

CENTRE FOR ACADEMIC COURSES, ANNA UNIVERSITY

UNIVERSITY DEPARTMENTS

UNDERGRADUATE PROGRAMME, R2023 (Revision 1, 2024)

AUDIT COURSES

Vertical – I

| S. No. | Course Code & Name |
|---------------|-------------------------------------|
| 1. | UC23A01 – Cyber Law |
| 2. | UC23A02 – Intellectual Property Law |
| 3. | UC23A03 – The Constitution of India |

Vertical – II

| S. No. | Course Code & Name |
|---------------|--|
| 1. | UC23A04 – Concepts of Management in Thirukkural |
| 2. | UC23A05 – Yoga for Human Excellence |
| 3. | UC23A06 – Six-Sigma Happiness and Mind Mechanics |
| 4. | UC23A07 – Digital Wellness |
| 5. | UC23A08 – Youth Empowerment and Skills |

Course Overview

The main objective of this course is to make students familiar with the developments that are being taking place in cyber sphere with the help of Computer and Information Technology. The students will acquire knowledge in the Fundamentals of Cyber Law and basic concepts underlying cyber space.

Course Objectives

- To understand the origin and development of cyber space and cyber laws.
- To equip the students with understanding of criminal activities in cyberspace.
- To enable to students with newer and evolving concept of cyber space.
- To encounter students with the regulatory regime cybercrimes.

Module I: Cyberspace – Constitutional and Human Rights Issues 6

Concept of Cyber Space, Evolution of Cyber law, Limitation of traditional law and need for Laws on Cyberspace, Important definitions under IT Act 2000, Freedom of Speech and Expression in Cyberspace, Right to Access Cyberspace, Right to Privacy.

Module II: Cyber Crimes & Jurisdiction 6

Nature and scope of Cyber Crime, Cybercrime against person, property & government, Cyber contraventions under IT Act, Cyber offences under IT Act, Principles for prescription of extraterritorial Jurisdiction under IT Act, Test for personal jurisdiction in Cyberspace, Application of personal jurisdiction test by Indian Courts.

Module III: Electronic Documents, Evidences & Contracts 6

Definition of digital signature under IT Act, Need for authentication of electronic documents, Asymmetric cryptosystem and encryption, Hash function, Authentication using electronic signature, Sec 3 and Sec 3A of IT Act, Examples of Electronic signature, Electronic evidence as documentary evidence, Legal recognition of electronic records, Admissibility of electronic evidence, Definition and Formation of e-contract, Types of e-contracts, Legal validity of e-contracts.

Module IV: e-Commerce, e-Banking & Intermediaries 6

Definition & Models of e-Commerce, Advantages and disadvantages of e-Commerce, Concept of e-Banking, Online payment Options, Intermediary – Definition, Liability of intermediary and Safe harbour protection, Case studies.

Module V: e-Governance, e-Courts & IPR Issues

6

e-Governance and its provisions under IT Act, Advantages of e-Governance, National e-Governance plan, e-Governance initiatives in India, e-Courts and e-Court mission mode projects. Copyright issues in Cyber Space, Intellectual Property protection in Computer Software, Trade mark issues in Cyber Space, Case studies.

Total: 30 Hours

Evaluation Pattern

| Mode of Evaluation | Marks |
|--|--------------|
| Assessment Test (Test will be conducted for 50 Marks and converted to 10 Marks) | 20 |
| Cyber Forensic Lab Visit and Report Submission | 10 |
| Assignment Submission | 10 |
| Presentation & Viva-Voce | 5 + 5 |
| Total Marks | 50 |

REFERENCES:

1. Kamath Nandan, Law Relating to Computers Internet & E-Commerce- A Guide to Cyber laws & The Information Technology Act, Rules, Regulations and Notifications Along With Latest Case Laws (2012).
2. Karnika Seth, Computers Internet and New Technology Laws (2013).
3. Kamlesh K. Bajaj, Debjani Nag, E-Commerce: The Cutting Edge of Business, 2nd Ed. (2005).
4. Apar Gupta, Commentary on Information Technology Act (2016).
5. N.S. Nappinai – Technology Laws, 1st Ed LexisNexis (2017).
6. V. D. Dudeja, Information Technology and Cyber Law, Common wealth Publisher (2017)
7. Anirudh Rastogi, Cyber Law: Law of Information Technology and Internet, Lexis Nexis, (2014).
8. Online resources – National Cybercrime reporting portal, PKI India, Ministry of Electronics and Information Technology.

Course Overview

This course introduces students to Intellectual Property (IP) Law, emphasizing its practical applications and relevance within the engineering field. It explores fundamental principles of IP law such as patents, trademarks, copyrights, and trade secrets, highlighting their critical importance in the realms of engineering and technology.

Course Objectives

- To understand the fundamentals of IP law.
- To learn the processes for protecting various forms of intellectual property.
- To appreciate the strategic importance of IP in the engineering and technology industries.
- To gain practical insights into the management and commercialization of IP.

Module I: IP Law & Patents

6

Definition and Importance of IP, Types of IP, Overview of International IP Law and Treaties (WIPO, TRIPS), Global Perspectives on IP Law, Definition and Purpose of Patents, Types, Patentability Criteria: Novelty, Non-Obviousness, Utility. The Patent Application Process, Writing Claims and Descriptions, Filing Procedures and Costs. Case Studies: Significant Engineering Patents.

Module II: Trademarks & Industrial Designs

6

Definition and Purpose of Trademarks, Types of Trademarks: Words, Symbols, Logos, Colours & Sounds, Trademark Registration Process, Searching for Existing Trademarks, Application Procedures, Infringement and Enforcement. Definition and importance of industrial Designs, Criteria for Protection, Registration Procedure and Term of Protection in India, Infringement and Remedies.

Module III: Geographical Indications (GI) & Copyrights

6

Introduction to GI, Legal frame work in India, Criteria and process for GI Registration, Economic and Social Impacts of GI, Case study and practical insights. Definition and Scope of Copyrights, Subject matter of Copyright & Term of Copyright, Rights Granted by Copyright & Moral Rights. Registration Process and Duration, Copyright Infringement and Remedies, Case Studies.

Module IV: Trade Secrets, IP Strategy and Management**6**

Definition and Importance of Trade Secrets, Criteria for Protection, Managing and Protecting Trade Secrets, Legal Remedies for Misappropriation. Case Studies: Trade Secrets in the Engineering Sector. Developing an IP Strategy, Valuation of Intellectual Property, IP Audits and Due Diligence. Licensing and Technology Transfer, Case Study: Successful IP Management in Engineering Firms.

Module V: IP in Emerging Technologies & Ethics**6**

IP Challenges in Emerging Technologies: AI, IoT, Biotechnology, Open Source and IP, Standards & IP, Ethical Considerations in IP Law, IP and Social Responsibility, Balancing Innovation and Public Interest. Case Studies: Ethical Dilemmas in Engineering and IP.

Total: 30 Hours**Evaluation Pattern**

| Mode of Evaluation | Marks |
|--|--------------|
| Assessment Test (Test will be conducted for 50 Marks and converted to 10 Marks) | 10 |
| Patent Drafting Assignment | 10 |
| Trademark Registration Exercise | 10 |
| Assignment Submission | 10 |
| Presentation & Viva-Voce | 5 + 5 |
| Total Marks | 50 |

REFERENCES:

1. R.S. Bhalla, The Institution of Property: Legally, Historically and Philosophically Regarded, Eastern Book Co., (1984)
2. Dr. Mathew Thomas, Understanding Intellectual Property, Eastern Book Company, Lucknow (2016).
3. V.K. Ahuja, Law Relating to Intellectual Property Rights (Lexis Nexis) 2015
4. Elizabeth Verkey, Intellectual Property law and Practice (Eastern Book Company) 2015
5. Taraporevala V J, Law of Intellectual Property, (2nd Edition) Thomson Reuters, 2013.
6. Online resources – Indian Patent Office Website, World Intellectual Property Organization Website, Geographical Indications Registry (India).

Course Overview

This course highlights key features of Indian Constitution, like directive principles of state policy, fundamental rights and duties, and the various organs of constitution.

Course Objectives

- To equip the students with understanding of Constitution of India.
- To gain insights into the fundamental rights, duties and parliamentary system.
- To introduce the various aspects of Union Government & State Government.
- To create awareness about the Indian legislature, judiciary & various commissions, councils and statutory bodies.

Module I: Introduction & Salient features

6

Historical Background - The Company Rule / The Crown Rule - Making of the Constitution - Composition of the Constituent Assembly - Enactment of the Constitution - Enforcement of the Constitution. Salient Features of the Constitution - Preamble of the Constitution – Citizenship - Meaning and Significance - Constitutional Provisions - Citizenship Act, 1955.

Module II: Fundamental Rights & Duties and Parliamentary System

6

Features of Fundamental Rights – Political/Cultural/Social/Educational Rights - Writs - Features of the Directive Principles - List of Fundamental Duties - Significance of Fundamental Rights/Duties. Features of Parliamentary Government - Merits/Demerits of the Parliamentary System – Union/State /UTs – Local Governments (Evolution of Panchayati Raj/Urban Bodies).

Module III: Union Government & State Government

6

President (Election, Qualifications, Oath, Term, Impeachment, Vacancy, Powers and Functions of the President) - Vice-President (Election, Qualifications, Oath, Term, Vacancy, Powers and Functions of the Vice-President) - Prime Minister (Appointment, Oath, Term, Salary, Powers and Functions of the Prime Minister) - Governor (Appointment, Conditions, Term, Powers, Functions and Constitutional Position of Governor) - Chief Minister (Appointment, Oath, Term, Powers and Functions of Chief Minister) - Council of Ministers(Central/State) (Appointment, Oath, Salary, Responsibility and Composition of the Council of Ministers).

Module IV: Indian Legislature & Judiciary

6

Parliament - Composition/ Duration of the Two Houses - System of Elections to Lok Sabha - Presiding officers/ Membership of the Parliament - Legislative Procedure in Parliament - State Legislature – Composition/ Duration of Two Houses – Position of Legislative Council. Supreme Court – Composition, Appointment, Qualifications, Oath, Salaries, Tenure and Removal of Supreme Court Judges – High Court - Composition, Appointment, Qualifications, Oath, Salaries, Tenure, Removal and Transfer of High Court Judges – Tribunals – Subordinate Courts – Lok Adalat.

Module V: Miscellaneous

6

Amendments - Election Commission - Union Public Service Commission - State Public Service Commission - Finance Commission - Goods and Services Tax Council – National Commission for SCs/ STs/ BCs - Comptroller and Auditor General of India - Attorney General of India - Advocate General of the State – Non-Constitutional Bodies.

Total: 30 Hours

Evaluation Pattern

| Mode of Evaluation | Marks |
|--|--------------|
| Assessment Test (Test will be conducted for 50 Marks and converted to 10 Marks) | 20 |
| Policy Debate (Choose a current policy issue with engineering applications that raises constitutional questions (e.g., freedom of speech and online content moderation, government funding for research with ethical concerns)) | 10 |
| Assignment Submission / Case Study Analysis (Students can analyse the real case, identify relevant constitutional principles, and debate the implications for the engineering field.) | 10 |
| Presentation & Viva-Voce | 5 + 5 |
| Total Marks | 50 |

REFERENCES:

1. Basu D D, Introduction to the Constitution of India, Lexis Nexis, 2015.
2. Busi S N, Ambedkar B R framing of Indian Constitution, 1st Edition, 2015.
3. Jain M P, Indian Constitution Law, 7th Edn., Lexis Nexis, 2014.
4. The Constitution of India (Bare Act), Government Publication, 1950.
5. The Constitution of India Bare Act Along with Supreme Court Guidelines, Landmark Judgment, Important Tips, Legal Maxims, Words and phrases-Legally Defined.

COURSE OBJECTIVES:

- The objective of this course is to expose the students of management studies, Thirukkural the book of wisdom.

Module I**6**

Business Ethics in verse 113. Adapting to changing Environment in verse 474,426 and verse 140. Learning the intricacies of different tasks in verse 462 and 677.

Module II**6**

Communication Principles in Decision making process – verse 948, 472, 467,663s, Leadership in verse 436,770 and 994.

Module III**6**

Goal setting in verse 596, planning verse 468, capital investment Decision Verse 471,461 and 478.

Module IV**6**

Social Responsibility of Business Verse 211 Stress Management in Verse 627,351,331, 369,380,377).

Module V**6**

Personnel selection in verse 515, Personnel Welfare in verse 520, staffing in verse 517.

Total: 30 Hours**REFERENCES:**

1. K. Nagarajan, Management Thoughts in Thirukkural, ANMOL Publications.
2. SM Veerappan & T. Srinivasan, Management MANTRAS from Thirukkural, Vikash Publishing House.
3. M. Rajaram I.A.S, Thirukkural Pearls of Inspiration, Rupa and Co.

Course Objectives

- Students can acquire knowledge and skills which will help in the development of Physical, Mental, Social and Spiritual health.
- Develop Values that will enhance the personality of the students.
- Develop Emotional Stability
- The Course enables the future development of the students in order to achieve Occupational Wellness.

Module I: Physical Health**9**

Introduction to SKY -Education as a means of Youth Empowerment-Simplified Physical exercises-Yogasanas (Rules- Sun Salutation-Dandasana-Chakrasana-Vrichasana-Trikonasana-Vajrasana-Pranayama-Nadi Suddhi-Clearance Practice).

Module II: Strengthening the Life Force**9**

Reasons for Diseases-Philosophy of Kaya Kalpa -Maintaining Youthfulness & Postponing Aging – Transformation of Food into seven Body Constituents -Greatness of Seminal Fluid -Limit and Method in Five Factors- Kaya Kalpa Practice.

Module III: Wellness of Mind**9**

Classification of Mind Waves-Agna Meditation- Shanthi Meditation- Thuriya Meditation- Blessing and Benefits-Virtues: Individual Virtues and Societal Virtues -Morals (Importance of Introspection, Six Temperaments and Manoeuvring, Benefits of Meditation)..

Module IV: Prosperity of Mind- Part I**9**

Philosophy of Life (Purpose of Life, Philosophy of Life, Five Duties-Safeguarding Natural Resources) -Analysis of Thoughts (Ten stages of the Mind-The Five Kosas-Thoughts-Analysis of thoughts and practice)- Moralisation of Desires (Desires-Explanation, Nature, Reasons, Moralisation Practice).

Module V: Prosperity of Mind- Part II**9**

Neutralisation of Anger (Anger-Reasons, Effects, Peace, Tolerance and Forgiving, Neutralisation) -Eradication of Worries (Reasons, Effects, Corrective measures, Eradication)- Diversity in Men- Love and Compassion.

Total: 45 Hours

REFERENCES:

1. Yoga and Empowerment, WCSC-VISION for Wisdom, 3rd Edition 2018, Vethathiri Publications, Erode.
2. Prosperity of Mind, WCSC-VISION for Wisdom, 2nd Edition December 2017, Vethathiri Publications, Erode.
3. Human Excellence, WCSC-VISION for Wisdom, 2nd Edition December 2016, Vethathiri Publications, Erode.
4. Advanced Educational Psychology, G.K. Mangal.
5. Psychology, Robert A Baron.

Course Objectives

- To understand the substance and sustenance of Happiness
- To provide an App based tool for sustained learning and practice of happiness
- To Curate and Calibrate mind and optimizing it for awareness and Happiness
- Improving and assessing IQ, EQ, Mindfulness, Social learning, Emotional learning, Mindmap, Mind share, Happiness Index

Module I: Introduction 9

Introduction to happiness and blockchain of life- Introduction to Aspects of life- Introduction to the 6-sigma research methodology- Aspects: Left Brain/ Rational/- Aspects: Right Brain/ Mindful/Tangible- Assessment.

Module II: Left Brain-Part I 9

Understanding, curating and calibrating 3 Left brain Aspects - Health and Fitness Vs 6 Sigma- Documents Vs 6 sigma -Family Vs 6 Sigma- Assessment.

Module III: Left Brain-Part II 9

Understanding, curating and calibrating on 3 Left brain Aspects - Friends Vs 6 Sigma - Entertainment Vs 6 Sigma – Assets & wallet Vs 6 Sigma-Assessment.

Module IV: Right Brain-Part I 9

Understanding, curating and calibrating on 3 Right brain Aspects – Ambition & Desires Vs 6 Sigma -Conscience Vs 6 Sigma – Commitments Vs 6 Sigma- Assessment.

Module V: Right Brain-Part II 9

Understanding, curating and calibrating on 3 Right brain Aspects – Confessions Vs 6 Sigma -Dilemmas Vs 6 Sigma – Inhibitions Vs 6 Sigma- Assessment.

Total: 45 Hours

REFERENCES:

1. S. Radhakrishnan, An Idealist View Of Life, 2015, HarperCollins.
2. Yogi Kochhar, Six Sigma Happiness (English Edition).

Module I: Basics of Digital Wellness**9**

Digital Devices - What is Wellness - What is Digital Wellness - Digital Calories - Basics of Brain Difference between Traditional Entertainment and Digital Entertainment - Difference between Relaxation and Stimulation - Importance of Relaxation - What is Attention - Benefits of Attention Attention Disruptors - Cost of Distraction - Power of Attention - Attention Economy.

Module II: Impact on Brain**9**

Neuroplasticity - Harnessing the Power of Neuroplasticity - Brain's Switching Penalty - Multitasking Neuro-associative-conditioning - Pleasure Circuit - Pain Circuit - Thinking Brain - Emotional Brain - Science of Learning and Memory - Digital Reading vs Print Reading - Digital Mindset - Learning using Audio and Video - Biliteracy Model - Creativity - Design Thinking - Improving Brain Health and Benefits of Brain's Downtime.

Module III: Impact on Mind**9**

What is Social Media - Impact of Social Media - What is Overthinking - Techniques to overcome Overthinking - Various Mental Health issues (anxiety, depression, comparison, low self-esteem etc) Virtual Relationships - Impact of Loneliness - Dangers of Social Media - Positive Self Talk - Science of Sleep - Impact of Digital Devices on Sleep - Negative impact of Lack of Sleep.

Module IV: Science of Addiction**9**

What is Addiction - Stages of Addiction - Neuroscience behind Addiction - Impact of Internet on Brain - Various Digital Addictions (Games, Shopping Online, Binge Watching, Social Media, Porn etc) Overcoming Addictions.

Module V: Digital Detox Techniques**9**

Digital Hygiene - Tools for Self Reflection - What is Meditation - Science of Meditation - Benefits of Meditation - Impact of Exercise on Physical and Mental health - Digital Wellness Plan.

Total: 45 Hours

COURSE OBJECTIVES:

- Improvement in learning and research competency
- Increase student employability
- Create opportunities for youth to develop their interpersonal and collaborative skills
- Enhance abilities of youth to handle stressful conditions
- Improve relationship between teachers and students

Module I: Mind, Breath and Emotions**9**

Listening and skilful communication – types of listening and questioning. Light Yoga. Introduction to the breath - a link between the mind & emotions. Living in the present moment. The sources of energy. Food Habits. Power breath technique (Ujjayi Breath). Pranayama (Theory, 3-stage pranayama). Intro and Practice of Meditation.

Module II: Mind Management**9**

Fundamentals of the mind, the tendencies and habits of the mind. The seven levels of our existence. The relationship between our state of mind and happiness. Golden Keys to Mind Management. Light Yoga. Power breathing. 3-stage Pranayama. Home Practice of Meditation.

Module III: Academic Effectiveness**9**

Secret of Concentration. Special Pranayama to increase concentration and focus, Anxiety & Confidence, how to feel at home with different kinds of people and different environments. Technique to free oneself of one's ego and inhibitions, Time Management and Goal Setting. Home Practice of Meditation.

Module IV: Leadership & Teamwork**9**

Qualities of a good leader – giving 100%, responding to the needs of a situation, and maintaining enthusiasm. Responsibility & Teamwork. Time Management and Goal Setting. Home Practice of Meditation.

Module V: Self and Society**9**

Interpersonal relations. Maintaining enthusiasm. Keep our mind free from negativity, Discussion of our roles in society, our responsibility to ourselves and our ability to contribute to our community. Teamwork. Plan campus service project in groups. Practice of Home Practice of Meditation.

Total: 45 Hours