Module Code	DE2210	Title	Art and Tradition			
Credits	2	Hours/ Week	Lectures	4 hours	Pre - requisites	
			Lab/Tutorials	-		

Learning Objectives

To Learn and appreciate the traditions of Arts and Crafts.

Outline Syllabus

Lecture 1. The Traditional Coherent of Music,Dancing,Painting,Sculpture and Architecture, Traditional Music variations, influence, instruments, Different Dancing Traditions, Indian tradition and Influence, Appreciation of Dance.

Lecture 2. Chronology and period changes found in the painting Tradition, Theories,silpatexts, Gurukula, technology of Painting , subject of Painting, European influence and present situation.

Lecture 3. Sculpture variation, chronology, materials & tools Iconometry, Iconograohy,influence, Technology, Buddhist, Hindu format, Silpatexts.

Lecture 4. Architectural Chronology,Anuradhapura, Polonnaruwa,Yapahuwa, Kandy and Colonial era, after independence. City Planning, Materials, Technology, aesthetic appreciation and preservation.

Lecture 5. Religions and cultural beliefs, related rituals and ceremonies, Sociocultural significances, art and appreciation.

Lecture 6. Language as a media of cultural expression. Historical chronology of Sinhala and Tamil Languages, Literary works, periods and Significance.

Module Code	DE2230	Title	History and Development of Engineering			
Credits	2.0	Hours/ Week	Lectures	4 hours	Pre - requisites	None
GPA / NGPA	GPA		Lab/Tutorials	-		

Learning Outcomes

After completing this module, the students should be able to;

- appreciate key historical events that led to a quantum shift in advancement of Engineering and Technological Development
- understand how some engineering developments have been direct results of social needs and how other engineering developments that originated without the existence of a clear social need for them have had an immense impact on society.
- appreciate the importance of innovation for development and sustainability of engineering.

Outline Syllabus

- Ancient engineering practice: invention of wheel, structures in ancient Greece and Egypt, Roman road network, Sri Lankan stupas and extensive irrigation network.
- Industrial revolution and influence of energy: invention of the steam engine, cotton spinning and advancement in Iron making. Invention of internal combustion engine and electrical power generator.
- The effect of wars: first and second world wars. Development aeroplanes, airships, submarines and automobiles. Invention of synthetic rubber, radar, nuclear power and synthetic fuel.
- The space age: rapid advancement in rocketry, material science, electronics and computers, including light-weight materials, satellite radio and television, cell phone technology, GPS navigation system, solar energy.
- Influence of computer: automated control systems, rapid advancement in complex engineering designs, virtual prototype testing.
- The future scenario: artificial intelligence, renewable energy and inventions to come and the need to appreciate sustainable development with new innovations for the existence of mankind.

Module Code	DE2240	Title	Introduction to Psychology			
Credits	2.0	Hours/ Week	Lectures	2 hours	Pre - requisites	None
GPA / NGPA	GPA		Lab/Tutorials	-		

Learning Outcomes

At the end of this module the students should be able to,

- Demonstrate the ability to *explain* the basic principles and theories of human psychology and *apply* them in personal, organization and social issues to understand, predict and modify human behavior.
- Appreciate differences in individual mental processes and human behavior

Outline Syllabus

Goals of Psychology

Evolution of Psychology and its theories :

Work of Sigmund Freud, Carl Jung; Carl Rogers; William James, J.B. Watson, B.F. Skinner, Ivan Pavlov

Classical Conditioning, Operant Conditioning, Shaping

Models of Understanding Human Behavior:

Psychodynamic Model ; Behavioral Model; Genetic Model; Biological Model; Humanistic Model

Personality Development Introduction to Emotional Intelligence Building of Human Relationships Abnormal Behavior

Stress Management

Addiction

Basics of Counseling

<table>
<tr><td>Module Code</td><td>DE2251</td><td>Title</td><td colspan="4">Meditation</td></tr>
<tr><td>Credits</td><td>2.0</td><td>Hours/ Week</td><td>Lectures</td><td>2 hours</td><td rowspan="2">Pre - requisites</td><td rowspan="2">None</td></tr>
<tr><td>GPA / NGPA</td><td>GPA</td><td></td><td>Lab/Tutorials</td><td>-</td></tr>
<tr><td colspan="7"><u>Learning Outcomes</u>
Upon successful completion of this module, the student should be able to:
• Learning basic concepts of meditation
• Acquiring the skill of meditation as a technique of
(a) relaxation
(b) improving concentration ability and memory
(c) Stress management</td></tr>
<tr><td colspan="7"><u>Outline Syllabus</u>
• Postures -Sitting Meditation, Standing Meditation, Lying down Meditation
• Meditation - Concentration Meditation, Tranquility Meditation, “Anapana Sati” Meditation, “Metta” Meditation, “Walking Meditation, Other forms of Meditation
• Stress - Manifestation of stress, Symptoms of Stress, Management of Stress
• Meditation Practice</td></tr>
</table>

Module Code	DE2270	Title	Sri Lankan Built Heritage			
Credits	2.0	Hours/ Week	Lectures	2 hours	Pre - requisites	None
GPA / NGPA	GPA		Lab/Tutorials	-		

Learning Outcomes

After completing this module, the students should be able to;

- Provide a background to study History of Sri Lankan architecture and Engineering with reference to social, cultural and religious contexts.
- Provide an understanding on principles of ancient and medieval period town & village planning and Engineering implications on them.
- Provide an understanding on evolution pattern in religious and secular architecture of Sri Lanka and contribution of engineering knowledge.

Outline Syllabus

- Architectural appreciation of ancient Sri Lankan building traditions.
- Society, Social Processes & Buildings.
- Cultural Evolution and its significance
- The folk traditions in the rural vernacular of Architecture in Sri Lanka and the impact of folk engineering knowledge.
- Effects of the geography and the climate on historical distribution of settlement patterns and use of engineering in expansion of them.
- Understanding of the traditional art, architecture and engineering as an important factor needed for the sustainability of Sri Lankan society.
- Sources of information available for the study of history of Sri Lankan Architecture and Engineering.
- The principles adopted in planning of towns and villages with special reference to use of traditional engineering skills.
- Detail study of the architecture of Image houses, Hindu shrines and Devalas and their engineering aspects.
- Sri Lankan hydraulic civilization.

Module Code	DE2281	Title	Nutrition and Health			
Credits	2.0	Hours/ Week	Lectures	2 hours	Pre - requisites	None
GPA / NGPA	GPA		Lab/Tutorials	-		

Learning Outcomes

Upon successful completion of this module, the student should be able to:

- Impart basic knowledge of nutrition necessary for effective promotion of health

Outline Syllabus

- Introduction to Nutrition. Nutrition importance of different types of foods.
- Principles of Nutrition. Special nutritional requirements (pregnancy & lactation).
- Growth & development, elderly.
- Nutritional deficiencies. Nutrition in different disease conditions.
- Assessment of nutritional status. Role of different organizations in nutrition- related issues.

Module Code	DE2291	Title	Photography			
Credits	2.0	Hours/ Week	Lectures	2 hours	Pre - requisites	None
GPA / NGPA	GPA		Lab/Tutorials	-		

Learning Outcomes

Upon successful completion of this module, the student should be able to:

- Understand the fundamentals of photography, image processing and their applications.

Outline Syllabus

- History and Introduction
- Nature of Light
- The Camera and its Components
- The Leans, Aperture and Shutter
- Capturing a Photograph
- Lighting
- Composition
- Processing Printing and Enlarging
- Divisions of Photography
- Special Techniques
- Digital Photography
- Publishing

Module Code	DE2340	Title	Public Administration			
Credits	2	Hours/ Week	Lectures	3 hours	Pre - requisites	None
			Lab/Tutorials	3 hours		

Learning Objectives

- This course is designed to provide an exposure to the theoretical knowledge of management and Administration of the public sector in general and the practical aspect of public administration in Sri Lanka in particular.

Outline Syllabus

- Introduction

  Definitions – Scope of Public Administration and the concept of new Public Management.

- Public Policy

  Policy making process and save models

- Bureaucracy "Its nature and role in Administration and Development"

- Administrative Organization

  Ministries, Department and their field organizations

- Office System

  Office environment, office procedure and Record Management

- Control and Accountancy

  Internal and external means of control their effectiveness

Module Code	DE2370	Title	Video Production			
Credits	2.0	Hours/ Week	Lectures	2 hours	Pre - requisites	None
GPA / NGPA	GPA		Lab/Tutorials	6 hours		

Learning Objectives

At the end of the course the students will be able understand and appreciate the work flow and the various activities that are involved in video production. Additionally the students will also get hand on experience in handing video production equipment (camera, lighting, editing equipment etc.) and aesthetic aspects of making a motion picture/documentary.

Outline Syllabus

Introduction to moving images, art of writing for screen / direction/production, camera techniques and camera handling, linear and non- linear editing, lighting techniques, introduction to documentary and television production.

Module Code	DE2381	Title	North Indian Classical Music			
Credits	2.0	Hours/ Week	Lectures	2 hours	Pre - requisites	None
GPA / NGPA	GPA		Lab/Tutorials	-		

Learning Objectives

- Give an introduction to Folk, Classical and Applied Music.
- Give an introduction to Ragas and Talas in North Indian Classical Music.
- Practice to sing and play music notations.
- Familiarizing with a musical instrument.

Outline Syllabus

Lectures - Accompanied by Tempura and Tabla.

- Fostering of the sense of pitch and rhythm used in Music, leading to the Classical idiom.
- An introduction to the history, utility and importance of North Indian Classical Music.
- An introduction to the elementary principles of North Indian Classical Music.
- Introduction to selected Ragas.
- Introduction to selected Talas.

Practical

(1).**Vocal - Accompanied by Harmonium**

- Vocal exercises (Paltas)
- Selected Ragas

(2).**Instrument - Accompanied by the selected instrument**

Module Code	DE2391	Title	Meditation & Stress Management			
Credits	2.0	Hours/ Week	Lectures	2 hours	Pre - requisites	None
GPA / NGPA	GPA		Lab/Tutorials	-		

Learning Outcomes

Upon successful completion of this module, the student should be able to:

- Learn the basic concepts of Meditation
- Learn the basic concepts of Stress Management
- Acquire the skill Meditation

Course Outline

Posture/	Sitting,Standing & Walking
Meditation/	Anapana Sati
	Metta
	Sakman
	Vipassana (Introduction only)
Coping With/	Noise, Straying Mind & Discomfort During Meditation
Stress/	Manifestation & Symptoms
	Type of Stressors
	Reaction to Stress
	Managing Stress
	Benefits of Managing Stress

Note 1: Assessment will be 100% CA

Note 2: Class size should be limited to 40 (Max)

Module Code	DE2410	Title	Astronomy and Cosmology			
Credits	2.0	Hours/ Week	Lectures	2.5 hours	Pre - requisites	None
GPA / NGPA	GPA		Lab/Tutorials	3 hours		

Learning Outcomes

- To help students broaden their way of thinking
- Understand the origin, evolution and the end of the Universe and Earth
- Understand where we are in the Universe
- Understanding the life on Earth and on other planets

Course Outline

1. Introduction

Historical mlestones: Galileo, Kepler, Copernicus, Newton, Einstein and Hawking

2 Cosmology

Structure of the Universe, its origin and end, Big-bang theory, expanding universe

3 Galaxies

Formation, and their dynamics

4 Stellar Evolution

Birth of a star and its life cycle, dwarf stars, neutron stars, and black holes

5 Solar system

Sun and eight planets, their dynamics, comparable sizes, and nature. Rocky dwarfs and gas giants. Solar wind and auroras

6 Comets and Asteroids

Nature of comets and asteroids. Their orbits, and dynamics, comparable sizes, and nature.

7 Life in the Universe

How life evolved on Earth. Drake Formula, extra-solar planets

Module Code	DE2450	Title	Intangible Heritage of Sri Lanka			
Credits	2.0	Hours/ Week	Lectures	2 hours	Pre - requisites	None
GPA / NGPA	GPA		Lab/Tutorials	-		

Learning Outcomes

After completing this module, the students should be able to;

- Explain the social phenomena around them through its interpretation in the prod-ucts of society and that which is recognized as society and culture.
- Identify the impact of customs, beliefs and traditions in Living Environment.
- Analyze the traditional technology and their impact on sustainable environment.

Outline Syllabus

- Traditional systems of food Technology and preservation.
- Traditional systems adopted in Agriculture.
- Customs and beliefs in Agriculture and food preservation.
- Mural painting Traditions of Sri Lanka.
- Traditional Technology used in preparation of surfaces and mural paintings.
- Vastu shastra – planning and construction of Domestic Buildings.
- Sri Lankan concepts in Garden designing.
- Traditional dances and their impact on Sri Lankan Society.

Module Code	DE2460	Title	Western Classical Music			
Credits	2.0	Hours/ Week	Lectures	2 hours	Pre - requisites	None
GPA / NGPA	GPA		Lab/Tutorials	3 hours		

Learning Outcomes

1. Give an introduction to Western European Classical music and Applied Music.
2. Give an introduction to Masterworks and repertoire from Western Classical Music.
3. Give and introduction to sing and play western music notations.
4. Familiarizing with a musical instrument used in Western Classical Music.

Outline Syllabus

Lectures — Accompanied by live performances & Audio/video presentations

1. Fostering of the sense of pitch and rhythm used in Music, leading to the Classical idiom.

2. An introduction to the history, utility and importance of Western Classical Music.

3. An introduction to the elementary principles of Western Classical Music.

4. introduction to selected Genres & Forms & Masterworks (compositions) of Western Classical Music

Prarticals (Lab)

1. Vocal - Accompanied by a Keyboard instrument (Piano/ Electric keyboard) Vocal exercises Selected Repertoire from the Western Classical Periods

2. Instrument - selected instruments as appropriate (The Recorder/ Electric keyboard) Technical exercises Selected Repertoire from the Western Classical Periods

Module Code	DE2470	Title	Life Skills for Engineers			
Credits	2.0	Hours/ Week	Lectures	2 hours	Pre - requisites	None
GPA / NGPA	GPA		Lab/Tutorials	3 hours		

Learning Objectives

This course aims to equip engineering students of essential life skills to be successful in life and career as engineers, using a framework developed for engineering success at 4 different levels; personal, academic, industry and global. The course is intended to cover skills relating to personal management, interpersonal relationships, mentorlng and leadership.

Learning Outcomes

- Personalize a framework of personal, academic, industry and global success
- Develop the attitudes and mindset for lifelong learning, personal management and professional development.
- Develop awareness and emotional intelligence towards being professional in attitude and behavior as an engineer
- Ability to communicate effectively, with the engineering team and with the community at large
- Ability to function effectively as an individual and in multidisciplinary and multicultural teams, as a team leader or manager as well as an effective team member
- Capacity for creativity and innovation

Outline Syllabus

Assessment

- Completion of Surveys and Personal Goal Setting Activities - 40%
- Group Assignment on Humanitarian Project - 60%

Week	Emphasis	Assessment
1	Introduction to Engineering Success (2 hours) Engineering Success defined Growth explained (what is P3?}-Biomedical and environmental examples	Survey completed on Personal Success – Humanitarian Project Assignment given and explained. This will be the main piece of assessment for the subject.
2	In order to understand others we need to understand ourselves first. Confidence and self-belief grow from self-awareness. Awareness of underlying beliefs/filters/attitudes in self and audience -helps in our listening and seeing things we would otherwise miss out due to our biases,	360 degree survey given
3	Communication skills for Engineers (2 hours) Active listening is the basis of understanding a person's point of view. Active listening is a core competency in effective communication The ability to receive feedback without being defensive and knowing how to give constructive feedback without sounding judgmental or critical is essential towards self-development and for progress in team environments.	
4	Drive and Motivation (2 hours) Developing a personal vision and personal core values A personal vision empowers individuals and helps maximize opportunities towards growth and sustainability. Core values	Survey completed on Academic Success -

	strengthen the vision and gives stability in the face of adversity. Motivations of different individuals and personalities - helps in learning motivational types, the key in learning to motivate self and others towards successful outcomes.	
5	Art of Connecting with your audience -Pi (2 hours) Connecting with your audience-Ability to build trust, especially important in negotiation skills with clients and other stakeholders. Appreciating and equipping to handle cultural diversity - Engineers are global citizens working with diverse cultures and with many different cultural values and worldviews, Appropriate intercultural and social skills-Helps to connect with culturally different people.	
6	Art of Connecting with your audience -P2 (2 hours) Confidence building- Developing personal confidence is a key to marketing your personal brand and the products you stand by. Confidence is a key attribute in engaging clients, communities and other professionals across wide ranging disciplines	
7	Mentoring (2 hours) The art and science of mentoring using the P3 GROWTHS model (what, why, how) Skill of Mentoring.	
8	Team leadership- Part 1 (2 hours) 4 Stages of Leading teams Conflict Resolution Social intelligence	Survey completed on Industry Success -
9	Team leadership- Part 2 (2 hours) Developing Leadership Culture Developing a community of best practice Citizenship and fairness/justice	
10	Partnerships and Networking (2 hours) Persuasion and Negotiation skills Business etiquette	
11	Innovation and Empowerment (2 hours) Innovation and Creativity Development	Survey completed on Global Success -
12	leaving a legacy (2 hours) Entrepreneurship	
13	Student presentations (2 hours)	Students will be evaluated on the humanitarian project conducted and will be questioned on the different stages overed in the module to test their experience and knowledge gained.
14	Student presentations (2 hours)	Students will be evaluated on the humanitarian project conducted

<table>
<tr><td>Module Code</td><td>DE2480</td><td>Title</td><td colspan="4">Human Rights</td></tr>
<tr><td>Credits</td><td>2.0</td><td>Hours/ Week</td><td>Lectures</td><td>2 hours</td><td rowspan="2">Pre - requisites</td><td rowspan="2">None</td></tr>
<tr><td>GPA / NGPA</td><td>GPA</td><td></td><td>Lab/Tutorials</td><td>-</td></tr>
<tr><td colspan="7"><u>Learning Outcomes</u>
After completing this module, the students should be able to;
• Understand the concepts and theories of human rights
• Apply their knowledge of human rights law to contemporary events, and provide evaluations of those events from a human rights perspective</td></tr>
<tr><td colspan="7"><u>Outline Syllabus</u>
• Human Rights: Introduction to Human Rights, International human rights instruments, International and HR mechanism, Engineering ethics and Human Rights.
• Legal System in Sri Lanka: Introduction to the legal system the Constitution and Fundamental Rights, Right to Remedy and Remedial Mechanism
• Rights Based Approach: Introduction to Right Based Approach (RBA), RBA as mitigation strategy
• Application of Human Rights in Engineering: HRE in Disaster Management, HRE in Post Conflict Era, HRE in Sustainable Development</td></tr>
</table>

Module Code	DE2490	Title	Tai Chi Exercises for Health and Fitness			
Credits	2.0	Hours/ Week	Lectures	1 hours	Pre - requisites	None
GPA / NGPA	GPA		Lab/Tutorials	2 hours		

Learning Outcomes

Upon the successful completion of this module, the student will be able to:

- Explain the basic principles of Tai Chi and apply the principles in daily activities
- Execute fundamental techniques and demonstrate a short form of Chen style Tai Chi
- Use Tai Chi as a gentle exercise for
    - Improving health and fitness
    - Relaxation, stress management and improving mental focus
- Appreciate the aesthetic value of the art, Tai Chi

Outline Syllabus

Lectures

- Introduction to Tai Chi, etiquette and terminology
- Brief history of Tai Chi: Origin, evolution and styles
- Principles and theories of Tai Chi
- Health benefits and current research studies on Tai Chi

Practical Sessions

- Chen style Tai Chi warm up routine
- Postures, breathing and body dynamics of Tai Chi
- 'Silk reeling' (Chan Si Gong) exercises to improve lower body strength, balance, coordination and concentration
- 'Qi-gong' – energy cultivation exercises for healing and boosting internal energy (Qi)
- Simplified Chen style Tai Chi routine of 9 kinetic movements for beginners (Lao Jia 9-Form)
- Tai chi push hands training (Tui Shou) to improve awareness
- Applications of basic Tai Chi movements

Module Code	DE2510	Title	Responsible Citizenship			
Credits	2.0	Hours/ Week	Lectures	2 hours	Pre - requisites	None
GPA / NGPA	GPA		Lab/Tutorials	-		

Learning Outcomes

After completing this module, the students should be able to;

- Appreciate that social actions can have a huge impact on the lives of people
- acknowledge, respect and engage communities and cultures for long term benefit of all
- identify the impact of their actions to the sustainable development
- understand interdependency and be socially responsible

Outline Syllabus

- Me: Identify and culture
    1. Self-confidence
    2. Self-awareness
    3. Understand how identities and cultures are formed, are expressed, change and are connected
    4. Value different perspectives

- Me and You: Intercultural Dialogue
    1. Understand dialogue, how and when it can be used
    2. Ability to support, learn and share through dialogue

- We: Local and global commitments
    1. Understand concept of community and connections between local and global community
    2. Ability to identify key stakeholders in the community
    3. Ability to identify a social development issue to address in the community
    4. Motivation to act toward sustainable development
- Planning social action
    1. Skills in project planning and management

- Delivering social action
    1. Experience implementing social action

Module Code	DE2520	Title	Sustainable Concepts in Natural & Built Environment			
Credits	2.0	Hours/ Week	Lectures	2 hours	Pre - requisites	None
GPA / NGPA	GPA		Lab/Tutorials	-		

Learning Outcomes

After completing this module, the students should be able to;

- Perceive the sustainability of Natural Systems and process. And its implications to the manmade environment and technology.
- Comment on the appreciation of environmental issues in human intervention, to the nature

Outline Syllabus

- Environmental issues generated by people (Human behaviors, Human trends/styles/and fashions, Traditions related to nature)
- Human responsiveness to the environment (Bio-geo factors, Comfort measures, Outdoor human activities/naturalism)
- Indigenous methods for sustainable living (Social systems, Customs and be-lives related to the nature/ vernacular methods)
- Global trends and concepts in sustainable living (Green concepts, Hanover principle, Vernacular technology)
- Environmental psychology (Human ecology, Space cognizance)
- Field visits and reviews

Module Code	DE2530	Title	Philosophy of science			
Credits	2.0	Hours/ Week	Lectures	3 hours	Pre - requisites	None
GPA / NGPA	GPA		Lab/Tutorials	-		

Learning Outcomes

At the end of this module the student should be able to

- Articulate concepts of philosophy of science, using appropriate examples
- Apply these concepts to engineering attitudes and practice

Outline Syllabus

- Introduction.
- Experience & Observation
- Theory & Facts
- Induction Falsification
- Cyclic Problem solving
- Falsification in Engineering
- Paradigms
- Scientific revolutions
- Engineering models & approaches
- Against method
- New philosophies of science

<table>
<tr><td>Module Code</td><td>DE2540</td><td>Title</td><td colspan="4">Yoga Practice</td></tr>
<tr><td>Credits</td><td>2.0</td><td>Hours/ Week</td><td>Lectures</td><td>2 hours</td><td rowspan="2">Pre - requisites</td><td rowspan="2">None</td></tr>
<tr><td>GPA / NGPA</td><td>GPA</td><td></td><td>Lab/Tutorials</td><td>2 / 1</td></tr>
<tr><td colspan="7"><u>Learning Outcomes</u>
At the end of the module the students will be able to :
1. Recognize the importance of yoga practice
2. Demonstrate the proficiency in yoga asanas and breathing techniques
3. Understand the mind and body coordination</td></tr>
<tr><td colspan="7"><u>Outline Syllabus</u>
1. Yoga Asanas (16h) : Introduction to yoga asanas, benefits of practicing yoga asanas, asanas with breathing, yoga practice as an alternative medicine.
2. Mind Management (4h) : Basics of mind management, mind management techniques, stress relieve and stress management through yoga.
3. Breathing Exercise (4h) : Methods of breathing exercises, and it benefits, the coordination among breath, thought, and action.</td></tr>
</table>

Module Code	DE2550	Title	Digital Photography			
Credits	2.0	Hours/ Week	Lectures	2 hours	Pre - requisites	None
GPA / NGPA	GPA		Lab/Tutorials	1 hours		

Learning Outcomes

Upon successful completion of this module, the student should be able to :

- Understand the fundamentals of photography
- Understand functionality of major components of a digital camera
- Understand basics of image processing
- Take photographs using a digital camera and apply basic level of image processing to photographs using computer software.
- Understand ethics and laws related to digital photography and publishing.

Outline Syllabus

- Introduction to Photography
- Exposure (Aperture ,Shutter and ISO Speed)
- Composition and lighting techniques
- Digital camera and its components
- Camera accessories
- Image sensors and other electronic components of a camera
- Image storage devices and imagefile formats
- Understanding different automatic modes of a digital camera
- Proper handling of a camera and capturing photographs using a camera
- Using image processing tools for performing post capture refinements
- Photography genres
- Post processing techniques (HDR , Panorama and focus stacking)
- Printing and publishing
- Privacy and copyright laws and ethics related to photography
- Appreciating photographs

<table>
<tr><td>Module Code</td><td>DE2560</td><td>Title</td><td colspan="4">Introduction to Demography</td></tr>
<tr><td rowspan="2">Credits</td><td rowspan="2">2.0</td><td rowspan="2">Hours/ Week</td><td>Lectures</td><td>2 hours</td><td rowspan="2">Pre - requisites</td><td rowspan="2">None</td></tr>
<tr><td>GPA / NGPA</td><td>GPA</td><td>Lab/Tutorials</td><td>1 hours</td></tr>
<tr><td colspan="7"><u>Learning Outcomes</u>
After completing this module, the students should be able to :
• Identify demographic information that would need to understand the history of population growth, changes in human population size and composition and future trends.
• Understand basic measurements of population and methods of demographic data collection
• Use precise demographic data efficiently for study and research purposes</td></tr>
<tr><td colspan="7"><u>Outline Syllabus</u>

• Introduction to basics of demography
• Demographic transition theory and its components
• History of population growth, global variations in population size and growth
• Fertility: introduction: trends: issues
• Mortality trends: introduction: trends: issues
• Migration trends: introduction: trends: issues
• Sources of demographic data</td></tr>
</table>

Module Code	DE2570	Title	Ethics in Society			
Credits	2.0	Hours/ Week	Lectures	1.5 hours	Pre - requisites	None
GPA / NGPA	GPA		Lab/Tutorials	1.5 hours		

Learning Outcomes

After completing this module, the students should be able to :

- Recognise morals, values & ethics in society and explicate on their issues.
- Critically assess alternative approaches to nature.
- Investigate the ethical obligations and ethical ideals present in the relationship between employers and employees.
- Develop an awareness of ethical challenges in their everyday lives.
- Address a moral issue or moral problem found in a certain profession and provide a resolution for that problem.

Outline Syllabus

- Introduction.
- Values and Ethics in Society.
- Environmental Ethics.
- Business Ethics.
- Ethical Leadership.
- Communication Ethics.
- Professional Ethics.
- Ethics in Research and Development.

Module	DE2580	**Module**	Sinhala as a Second Language			
Credits	2		**Lectures**	2	**Pre –**	
GPA/NGPA	GPA	**Hours/Week**	**Lab/Assignments**			

Learning Outcomes

After completing this module, the students should be able to;

1. Identify the letters in the Sinhala alphabet
2. Write simple words and language structures
3. Express oneself using simple language structures
4. Give self-introductions and introduce a thing or a person to others
5. Describe people and places
6. Relate everyday events and experiences
7. Explain simple procedures
8. Identify and practice politeness markers
9. Express opinions politely
10. Recall and restate memorable events

Outline Syllabus

1. The Sinhala alphabet and phonetics
2. Classification of nouns
3. Classification terms – singular-plural split, gender, time split
4. Synonyms, opposite words, honorific terms, prepositions and conjunctions
5. Transitive and intransitive verbs, active voice and passive voice
6. Spelling and punctuation, dialects of Sinhala
7. Asking and responding to simple questions
8. Telling the time and describing places
9. Describing a picture or an object
10. Writing simple essays
11. Describing oneself and one's goals in life
12. Building up a story with given instructions
13. Narrating memorable incidents from the past
14. Listening comprehension
15. Presentations on given topics

Module	DE2590	**Module**	Tamil Sinhala as a Second Language			
Credits	2		**Lectures**	2	**Pre –**	
GPA/NGPA	GPA	**Hours/Week**	**Lab/Assignments**			

Learning Outcomes

After completing this module, the students should be able to;

1. Identify the letters in the Tamil alphabet
2. Write simple words and language structures
3. Express oneself using simple language structures
4. Give self-introductions and introduce a thing or a person to others
5. Describe people and places
6. Relate everyday events and experiences
7. Explain simple procedures
8. Identify and practice politeness markers
9. Express opinions politely

Outline Syllabus

1. The Tamil alphabet and phonetics
2. Classification of nouns
3. Classification terms – singular-plural split, gender, time split
4. Synonyms, opposite words, honorific terms, prepositions and conjunctions
5. Transitive and intransitive verbs, active voice and passive voice
6. Spelling and punctuation, dialects of Tamil
7. Asking and responding to simple questions
8. Telling the time and describing places
9. Describing a picture or an object
10. Writing simple essays
11. Describing oneself and one's goals in life
12. Building up a story with given instructions
13. Narrating memorable incidents from the past
14. Listening comprehension
15. Presentations on given topics

Module	DE2610	Modu	Japanese as a Foreign Language			
Credits	2	Hours/ Week	Lectures	2	Pre - requisit	None
GPA/NGPA	GPA		Lab/Assignments			

Learning Outcomes

After completing this module, the students should be able to;

1. Perform a simple self-introduction in Japanese.
2. Count up to 100 and express date and time in Japanese.
3. Listen and comprehend simple Japanese expressions used in daily life.
4. Convert simple Japanese sentences into English.
5. Write and read hiragana characters.
6. Make simple sentences using basic grammar.
7. Identify katakana characters and simple kanji characters.
8. Develop student awareness of the general social and cultural background of Japan.

Outline Syllabus

The module provides a systematic approach to acquiring basic grammar and vocabulary in the elementary level skills of listening, speaking, reading and writing.

- **Grammar**

1. Hiragana (46 characters), Katakana (46 characters), kanji (25 characters)
2. Formal style present sentences and past sentences.
3. Verb conjugations, Adjective conjugations, Question sentences using 'nan', 'nani', 'doko', 'itsu', 'dare', 'donna', 'dore' and 'dooshite',
4. Particles: 'no', 'de', 'ni', 'e', 'ga', 'o', 'wa', 'mo', 'ka', 'to', 'kara', 'made', 'ne' and 'yo'
5. Conjunctions: 'ga', 'kara', 'demo', 'sorekara', 'soshite' and 'dakara'
6. Adverbs: 'amari', 'chotto', 'ichiban', 'mada', 'moo', 'totemo', 'zenzen', 'sukoshi', 'tokidoki', 'yoku', 'taitei'
7. Invitation sentences using 'mashoo', 'mashooka' and 'masenka'
8. Describing the location of people and objects using '-ni-ga-imasu/arimasu'
9. Expressing opinions 'to omou'
10. Reporting speech 'to iu'

- **Topics**

1. Greetings.
2. Numbers (0-100), telling date, day and time.
3. Self-Introduction: Stating Name, Age, Nationality etc., Countries/Majors/Family, Occupations.
4. At the Restaurant
5. Making Requests
6. Introducing people
7. A day in one's life

Module	DE2620	**Module**	Effective Communication			
Credits	2.0		**Lectures**	2.0	**Pre –**	None
GPA/NGPA	GPA	**Hours/Week**	**Lab/Assignments**	None	**requisites**	

Learning Outcomes

After completing this module, the students should be able to;

LO 1 – Show confidence and clarity in public speaking

LO 2 – Inspire the audience

LO 3 – Manage to effectively communicate the message to the audience

LO 4 – Construct and deliver the speech with appropriate use of content, language, visual aids, and time constraints.

Outline Syllabus

- Ways to research the topic
- Understanding the audience
- Beginning to speak before an audience
- Organizing a speech: designing a speech outline
- How to get to the point
- Learn “how to say it”
- How to make the body speak
- How to change the vocal variety
- Get comfortable with visual aids
- How to persuade with power
- How to inspire the audience
- The entertaining speaker