**General Education**

**(Revised 2017)**

**General Education School of Social Technology**

**Suranaree University of Technology**

 **1. Total Credits**

 Credit Requirement 38 Credits

 **2. Section Structure**

2.1 Core General Education Courses 15 Credits

2.2 Language Courses 15 Credits

2.3 Elective General Education Courses 8 Credits

 **3. Courses in Section**

 **Credits (Lecture-Practice-independent study)**

**3.1 Core General Education Courses**  **15 Credits**

IST20 1001 Digital Literacy 2(2-0-4)

IST20 1002 Use of Application Programs for Learning 1(0-2-1)

IST20 1003 Life Skills 3(3-0-6)

IST20 1004 Citizenship and Global Citizens 3(3-0-6)

IST20 2001 Man, Society and Environment 3(3-0-6)

IST20 2002 Man, Economy and Development 3(3-0-6)

 **3.2 Language Courses 15 Credits**

IST30 1101 English for Communication 1 3(3-0-6)

IST30 1102 English for Communication 2 3(3-0-6)

IST30 1103 English for Academic Purposes 3(3-0-6)

IST30 1104 English for Specific Purposes 3(3-0-6)

IST30 1105English for Careers 3(3-0-6)

 **3.3 Elective General Education Courses**  **8 Credits**

**Student select subjects offered as followed:**

IST20 1502 Art Appreciation 2(2-0-4)

IST20 1503 Holistic Health 2(2-0-4)

IST20 1504 Law in Daily Life 2(2-0-4)

IST20 2501 Professional and Community Engagement 2(1-2-3)

IST20 2502 Pluri-Cultural Thai Studies 2(2-0-4)

IST20 2503 ASEAN Studies 2(2-0-4)

IST20 2504 Design Thinking 2(2-0-4)

IST20 2505 Love Yourself 2(2-0-4)

**4. Study Plan**

 Study Plan can be adapted based on students’ academic program as followed:

|  |  |  |  |
| --- | --- | --- | --- |
| **Courses** | **Semester 1** | **Semester 2** | **Semester 3** |
| **Core General Education**  |  |  | IST20 1001 Digital LiteracyIST20 1002 Use of Application Programs  for Learning |
| IST20 1004 Citizenship and Global Citizens | IST20 1003 Life Skills IST20 2001 Man, Society and Environment | IST20 2002 Man, Economy and Development |
| **Language**  | IST30 1101English for Communication 1IST30 1102English for Communication 2IST30 1103English for Academic PurposesIST30 1104English for Specific PurposesIST30 1105English for Careers | IST30 1101English for Communication 1IST30 1102English for Communication 2IST30 1103English for Academic PurposesIST30 1104English for Specific Purposes IST30 1105English for Careers  | IST30 1101English for Communication 1IST30 1102English for Communication 2IST30 1103English for Academic PurposesIST30 1104English for Specific PurposesIST30 1105English for Careers |
| **Elective General Education**  | IST20 1502 Art AppreciationIST20 2502 Pluri-Cultural Thai StudiesIST20 2503 ASEAN Studies IST20 2504 Design Thinking | IST20 1502 Art AppreciationIST20 2503 ASEAN Studies  | IST20 2502 Pluri-Cultural Thai StudiesIST20 2503 ASEAN Studies IST20 2505 Love yourself |

 Courses may modify the study plan. As students are required to complete the course

IST20 1503 Holistic Health

IST20 2501 Professional and Community Engagement

IST20 1504 Law in Daily Life

IST20 2502 Pluri-Cultural Thai Studies

**5. Course Description**

**5.1 Core General Education Courses 15 Credits**

**IST20** **1001 Digital Literacy 2(2-0-4)**

**Prerequisite :** None

 Selecting sources of information for research; using digital technology in information retrieval; collecting and evaluating information qualities; analyzing and synthesizing information; writing reports and referencing; security, effects, ethics, morals, and laws regarding media and digital technology using

**Course learning outcomes (CLOs)**

Having successfully completed this course, student must be able to :

1. Search for knowledge from variety of sources for effective life-long self-learning and self-development
2. Holistically synthesise information reasonably and creatively
3. Use digital technology for information retrieval for accessing, gathering, analysing, synthesising and evaluate information resources so that it can be used in education, work and live in a knowledge-based society

**IST20** **1002 Use of Application Programs for Learning**  **1(0-2-1)**

**Prerequisite :** None

 Basics of computer programming; using application software for document management; presenting information; data management for calculation and creative database management; designing and developing a website for working in a daily life

**Course learning outcomes (CLOs)**

Having successfully completed this course, student must be able to :

1. Search for knowledge in digital technology by himself or herself
2. Develop critical thinking skill through computer programming
3. Apply digital technology for document management, information presentation and information processing for everyday’s work

**IST20 1003 Life Skills 3(3-0-6)**

**Prerequisite :** None

 Knowing and understanding self and others; rational thinking and analyzing; systems and holistic thinking; creative decision-making and problem-solving; self-directed learning in a context of lifelong learning; work-life balance; sufficiency in living; self-care; stress and emotion management; solutions to life issues

**Course learning outcomes (CLOs)**

Having successfully completed this course, student must be able to :

1. Develop personality to be disciplined and have a habit of paying attention to learning all things related to personal living and the change in society
2. Enhance their skills in information literacy, develop their thinking to distinguish reasonable from unreasonable information, have self-confidence based on logical thinking.
3. Enhance their skills for reading or listening to other people’s opinions in a polite and critical manner, judge the correctness without prejudice.

**IST20 1004 Citizenship and Global Citizens 3(3-0-6)**

**Prerequisite :** None

 Important characteristics of citizens; roles of Thai and global citizens; important concepts of international relations; international organizations; transboundary impacts; critique and lesson-learned from international phenomena

**Course learning outcomes (CLOs)**

Having successfully completed this course, student must be able to :

1. Describe and distinguish the three key civic attributes that drive democracy.
2. Analyze social phenomena and social problems at both the structural and individual levels.
3. Value and recognize the importance of identity diversity, culture and way of life.
4. Take lessons on world situations to understand various different situations and social contexts, realize their role in being a part of the creation of social justice or self-improvement as a global citizen.
5. Research, study and work as a team by means of polite communication with self-confidence, practice and learn to negotiate, negotiate with group members or others for work effectiveness.

**IST20 2001 Man, Society and Environment** **3(3-0-6)**

**Prerequisite :** None

 Conditions of being human; cultural diversity; social order; ecological system; natural resources and environment; utilization of natural resources; sustainable development

**Course learning outcomes (CLOs)**

Having successfully completed this course, student must be able to :

1. Understand the basic human traits, wisdom and cultural system of the settlement, creation of family institutions and social organization, as well as coexistence as a society based on cultural differences.
2. Understand the important role of life in ecosystems, environmental and social problems arising from the use of natural resources, as well as having the ability to analyze and solve problems based on scientific principals with the awareness of fairness to fellow human beings and the principles of sustainable development.
3. Behave with discipline, responsible and honest, have self-confidence in researching and discussing with others, as well as having a sufficiency economy thinking foundation in daily life that is friendly to fellow human beings and society

**IST20 2002 Man, Economy and Development 3(3-0-6)**

**Prerequisite :** None

 Economy and social development; trends of economic and social development; exclusive development; inclusive development; innovation-based development; creative economy; community engagement; social entrepreneurship

**Course learning outcomes (CLOs)**

Having successfully completed this course, student must be able to :

1. Analyze the relationship between the root cause of everyday problems and social problems in order to find ways of self and social behavior developments based on the sufficiency economy thinking foundation.
2. Be aware of economic and social developments that affect the creation of opportunities and social justice.
3. Having an entrepreneurship thinking foundation with a keen attitude for creating opportunities and innovation for society.
4. Students discuss economic, social and entrepreneurial issues, use information to make comprehensive and reasonable decisions based on the key concepts of the subject.

**5.2 Language Courses 15 Credits**

**IST30 1101 English for Communication 1 3(3-0-6)**

**Prerequisite :** None

 Developing students’ abilities for effective communication in social settings; focusing on integrated skills with the primary emphasis on listening and speaking; developing Communication and language learning strategies; and promoting autonomous learning using various resources

**Course learning outcomes (CLOs)**

Having successfully completed this course, student must be able to :

1. Be responsible for attending class regularly and being on time for class
2. Understand etiquette and cross-cultural differences in communication
3. Communicate topics concerning self, family, past experience and society
4. Use basic communicative strategies appropriately
5. Develop teamwork skills for effective communication in society
6. Use proper information technology to develop autonomous language learning

**IST30 1102 English for Communication 2**   **3(3-0-6)**

**Prerequisite :** IST30 1101 English for Communication 1

 Further developing students’ abilities for effective communication in social and academic settings; focusing on integrated skills, particularly listening and speaking for academic purposes; further developing communication and language learning strategies; and reinforcing autonomous learning using various semi-academic materials from a variety of resources

**Course learning outcomes (CLOs)**

Having successfully completed this course, student must be able to :

1. Be responsible for attending class regularly and being on time for class
2. Understand etiquette and cross-cultural differences in communication
3. Communicate general and academic topics in the real world effectively
4. Use communicative strategies appropriately
5. Develop teamwork skills for effective communication in society
6. Use learning strategies and information technology to develop autonomous learning

**IST30 1103 English for Academic Purposes** **3(3-0-6)**

**Prerequisite** **:** IST30 1102 English for Communication 2

 Course content dealing with English for academic purposes for effective communication in an academic field of study; text-based activities involving integrated language skills with an emphasis on reading; exposure to both authentic and semi-authentic materials from both printed and audiovisual materials, as well as online resources

**Course learning outcomes (CLOs)**

Having successfully completed this course, student must be able to :

1. Be responsible for attending class regularly and being on time for class
2. Listen, read and understand the academic issues in the passages effectively
3. Use reading strategies for analyzing reading academic texts effectively
4. Develop teamwork skills for effective academic reading
5. Use information technology in searching for related academic texts

**IST30 1104 English for Specific Purposes** **3(3-0-6)**

**Prerequisite:** IST30 1103 English for Academic Purposes

 Further enhancement of students’ language skills and ability in science and technology content; exposure to authentic language in science and technology from both printed and audiovisual materials, as well as online resources; focus on text-based tasks involving integrated skills with an emphasis on reading and writing

**Course learning outcomes (CLOs)**

Having successfully completed this course, student must be able to :

1. Be responsible for attending class regularly and being on time for class
2. Read, analyze and discuss the specific issues in science and technology
3. Understand writing process and effectively apply information from various sources to critical writing
4. Develop teamwork skills for effective specific reading in science and technology
5. Use information technology in searching for related texts in science and technology

**IST30 1105 English for Careers** **3(3-0-6)**

**Prerequisite** **:** IST30 1104 English for Specific Purposes

 Developing English skills needed for employment preparation, covering such topics as job search, resumes, cover letters, and job interviews; effective communication skills in the workplace; skills needed in preparing for the Test of English for International Communication (TOEIC)

**Course learning outcomes (CLOs)**

Having successfully completed this course, student must be able to :

1. Be responsible for attending class regularly and being on time for class
2. Evaluate jobs that suit one’s qualifications
3. Analyze one’s strengths and weaknesses for a job interview
4. Understand work etiquette and cross-cultural differences in communication
5. Develop a good personality and demonstrate confidence during job interviews
6. Develop social skills for effective communication in the workplace
7. Use information technology in searching for jobs and seeking related information in preparation for job interviews
8. Use language skills in reading job advertisements and related information, writing a resume and communicating in work-related situations

**5.3 Elective General Education Courses 8 Credits**

**IST20** **1502 Art Appreciation 2(2-0-4)**

**Prerequisite :** None

 Definition of art; artists’ aspiration for art creation from various perspectives; values and aesthetic for soul; contexts of arts; visual culture towards art interpretation; roles and effects of arts in a society and world cultures through various perspectives; artwork creation valuable for self and others; arts and museums; public arts; music and art therapy; arts for sufficient life

**Course learning outcomes (CLOs)**

Having successfully completed this course, student must be able to :

1. Want to explore "art" in many forms.

2. Show the personality of an art admirer, both from a personal and group perspectives.

3. Show the personality of an art admirer and compare the characteristics of arts in different cultures.

4. Have skill in thinking and understanding of artistic elements, reason and creativity, living well, and appreciating the aesthetics

**IST20 1503 Holistic Health 2(2-0-4)**

**Prerequisite :** None

 Concepts regarding holistic health and health balance; weight control; sleep and relaxation; concentration and mental health; stress management; body strengthening; alternative healthcare

**Course learning outcomes (CLOs)**

Having successfully completed this course, student must be able to :

1. Have a concept of health management in accordance with the principles of holistic health, including physical, mental, social and spiritual aspects, within the Thai health context and service system appropriately.
2. Understand the development of a good quality of life, emphasizing on enhancing physical and mental health, including various life skills.
3. Apply knowledge for the development of personality, mind, emotion, and integrated self-health care, nutrition, immunization, hygiene, and physical performance development.

**IST20 1504 Law in Daily Life** **2(2-0-4)**

**Prerequisite :** None

 Basic principle of law; hierarchy of law; population registry law; useful law in daily life law concerning person; property, juristic act and contract; loan agreement; service contract; made-to-order contract; contract of sale; property rental contract; hire-purchase contract; surety ship agreement; mortgage contract; basic law of family and inheritance; consumer protection law; basic law of intellectual property

**Course learning outcomes: CLOs**

**Having successfully completed this course, student must be able to:**

1. Have skills to apply the principles of the law to develop student’s own behaviours as a disciplined citizen, with responsibility and honesty to society.
2. Have skills for learning the principles of the laws that are useful in developing student’s own quality life patterns.

**IST20 2501 Professional and Community Engagement 2(1-2-3)**

**Prerequisite :** None

 Projects and activities for building students’ working experiences with a community or a professional group that enhance life skills and respond to visions and objectives of a community or a professional group

**Course learning outcomes (CLOs)**

Having successfully completed this course, student must be able to :

1. Have skills to develop student’s own human capital through applying knowledge of innovation and entrepreneurship to appropriately solve community or professional problems.
2. Have skills for being a voluntary citizen and for the development of polite personality for working with a community or professional group.

**IST20 2502 Pluri-Cultural Thai Studies 2(2-0-4)**

**Prerequisite :**  None

 Understanding of Thai society and cultural systems; plurality in Thai economic and political development; significance of plural folk wisdoms; concept of sufficiency economy in global trends

**Course learning outcomes (CLOs)**

Having successfully completed this course, student must be able to :

1. Have knowledge and understanding of the pluralism of Thai society, culture and citizenship.
2. Be self-seeking and have analytical and critical skills with academic reasoning to understand the development and phenomena of Thai economy, society and politics.
3. Work as a team on student’s own learning and present the work with honesty and responsibility.
4. Show voluntary mind, public consciousness and thinking foundation of sufficiency economy philosophy through research work and presentations with a group process

**IST20 2503 ASEAN Studies 2(2-0-4)**

**Prerequisite :** None

 Origins and purposes of ASEAN community; unity based on a socio-cultural diversity; respects for rights, civic responsibility and human dignity under different types of governments in each ASEAN Member State; living together happily and peacefully with ASEAN friends; quality of life in education and working systems

**Course learning outcomes (CLOs)**

Having successfully completed this course, student must be able to :

1. Recognize the role of the global community in the social context of ASEAN and Thailand.
2. Have a positive attitude towards cultural diversity, religious concept and lifestyle of fellow society in ASEAN.
3. Be able to describe the key social factors affecting the conflict in ASEAN Member States.
4. Be able to research relevant information to describe the way of life, concepts of the ASEAN people and the ASEAN social contex, as well as being able to provide relevant examples to illustrate and link to such information.
5. Use language to communicate in the form of discussion, writing and presenting in front of the class, confidently answer classmates’ questions by being prepared to search for information outside the classroom, and have academic information to support their arguments.

**IST20 2504 Design Thinking 2(2-0-4)**

**Prerequisite :** None

Creative thinking; questioning and problem-solving; brainstorming and society need-based service design; prototyping; appropriate application of innovation; lesson-learned

**Course learning outcomes (CLOs)**

Having successfully completed this course, student must be able to :

1. Describe design thinking principles and processes.

2. Use design thinking processes in designing innovative projects.

**IST20 2505 Love yourself 2(2-0-4)**

**Prerequisite :** None

 Learning internal resources of self; understanding yourself and others; self-management skills of thinking and behaviors to coping problems; life planning with a sense of social justice; teamwork

**Course learning outcomes (CLOs)**

Having successfully completed this course, student must be able to :

1. Analyze and identify student’s own internal factors, including inspiration, motivation for self-worth and self-improvement.
2. Understand student’s own self and the society in which student lives, understand others and society such as family, community, and organization.
3. Explain self-management with a changing mindset, creative communication, problem facing and expressing appropriately.
4. Set life goals, balance life plans with social capital, and self-develop starting with changing student’s own mindset.
5. Work with others based on understanding of fundamentals, role, and teamwork communication that can lead to success or failure.

**6. Development of Expected Learning Outcomes (ELOs)**

**6.1 Ethics and Morals**

* + 1. **Expected ethics and morals are as followed:**
	1. Conducting themselves properly through disciplines, being responsible and honest; appreciating sufficiency economy as a foundation of life philosophy
	2. Being environmentally-friendly; being aware of environmental justice
	3. Understanding citizenship under a community they are living in

  **6.1.2 Pedagogical strategies used to develop ethics and morals are as followed:**

(1)Assigning the students to do short-term research, study their own problems or social problems; observing the students’ responsibilities through on-time hand-in, originality of ideas (non-plagiarism), integration of sufficiency economy-related ideas as solutions to the problems presented by the students

(2) Assigning the students to integrate ‘Sustainable Development’ into their research on environmental issues; taking into account their perceptions towards environmentally-friendly lifestyles

 (3) Carrying a discussion between the teacher and students by using comparative

case studies on citizenship via digital media

 **6.1.3 Evaluation strategies for ELOs in the field of ethics and morals are as followed:**

(1) Using a subjective test by means of a restricted response

 (2) Using an objective test by means of multiple choice questions (3) Observing the students’ behaviors in class (i.e. being on time and attentive)

 (4) Interacting with the students by asking the students to question and answer in class

 (5) Reading the students’ reflections and discussing with them a group and

Individually

**6.2 Knowledge**

 **6.2.1 Expected knowledge are as followed:**

(1) Understanding themselves, their families, societies and cultural differences

(2) Keeping up with global trends; appropriately conducting themselves in Thai society and a global community

(3) Equipping resilient skills for human capital development, lifelong learning, innovation and entrepreneurship, which align with the national strategy as well as Thailand 4.0

 **6.2.2 Pedagogical strategies used to develop knowledge are as followed:**

(1) Creating a student-centered learning environment

(2) Assigning the students to conduct a small project on various contemporary issues (e.g. self-study, family, society and culture)

(3) Assigning pre-class readings as to encourage the students to discuss, voice opinions and ask questions in class for an exchange of ideas between the teacher and students on contemporary issues (e.g. an effect of a development policy on self-improvement; innovation development and entrepreneurship); practicing them to appreciate differences of thoughts and perceptions

(4) Inviting a guest lecturer whose expertise is relevant to class lessons as to exchange his/her experiences with the students

(5) Using relevant case studies to compare and analyze social and cultural issues

 **6.2.3 Evaluation strategies for ELOs in the field of knowledge are as followed:**

(1) Using an objective and a subjective test to evaluate the students’ knowledge and understanding regarding class lessons

(2) Using Extended Response Questions

**6.3 Cognitive Skills**

**6.3.1 Expected cognitive skills are as followed:**

(1) Equipping lifelong learning skills for self-improvement and quality of life

(2) Equipping skills for holistic thinking on a foundation of logic and creativity

(3) Analyzing and making a decision through scientific processes

**6.3.2 Pedagogical strategies used to develop cognitive skills are as followed:**

(1) Reflecting themselves through real-world situations or case studies

(2) Using a seminar class style with an emphasis on causality and solutions to various problems by means of a group discussion

(3) Using in-class and out-of-class assignments to encourage interactions between the students, their peers and the teacher

**6.3.3 Evaluation strategies for ELOs in the field of cognitive skills are as followed:**

(1) Evaluating the students’ report

(2) Evaluating tests or assignments given to the students as critical thinking exercises

(3) Evaluating the students’ abilities in asking questions and researching for answers by themselves

**6.4 Interpersonal Skills and Responsibility**

**6.4.1 Expected interpersonal skills and responsibility are as followed:**

(1) Having voluntary hearts and public minds as Thai and global citizens

(2) Enjoying life and aesthetics

(3) Experiencing working with a community and a professional group as to develop an understanding about their own community and a professional group that matches their interests through first-hand experiences

(4) Conducting themselves as gentle individuals with great personalities and interpersonal skills; believing in themselves; being both great leaders and followers while capable of working as a team

**6.4.2 Pedagogical strategies used to develop interpersonal skills and responsibility are as followed:**

(1) Carrying out activities with an emphasis on interpersonal communication and an exchange of ideas

(2) Carrying out group discussions

(3) Assigning group projects and in-class presentations

**6.4.3 Evaluation strategies for ELOs in the field of interpersonal skills and responsibility**

**are as followed:**

(1) Evaluating the students’ in-class behaviors and expressions while they are taking parts in the activities

(2) Observing the students’ participation in class discussions

(3) Evaluating reflections/ opinions received from their teammates and classmates

**6.5 Numerical, Communication and Information Technology Skills**

**6.5.1 Expected numerical, communication and information technology skills are**

**as followed:**

(1) Being able to use digital technology to retrieve, accumulate, analyze, synthesize and assess information to do research and enjoy life in the innovation age

(2) Equipping language skills for communication, researching and working

 **6.5.2 Pedagogical strategies used to develop numerical, communication and information technology skills are as followed:**

(1) Encouraging the students to communicate and use languages properly in each social context whether using Thai or foreign languages as a medium of communication

(2) Assigning the students to present their work by using proper formats and technology; motivating them to see the importance and advantages of information technology in presenting and retrieving information

(3) Assigning work relevant to critical thinking processes on a foundation of mathematics and logic

 **6.5.3 Evaluation strategies for ELOs in the field of numerical, communication and information technology skills are as followed:**

(1) Evaluating communication skills used in class and during the students’ presentations

(2) Evaluating accuracy in using information technology to research, retrieve information and document academic work by means of correct methodology

(3) Evaluating tests and writing assignments relevant to critical thinking processes on a foundation of mathematics and logic

**7. Curriculum Mapping for General Education Program (Revised Curriculum A.D. 2017)**

• Major Responsibilities ⭘ Minor Responsibilities

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| **Curriculum Mapping** | 1. **Ethics and Morals** | 2. **Knowledge** | 3. **Cognitive Skills** | 4. **Interpersonal Skills and Responsibility** | 5. **Numerical, Communication and Information Technology Skills** |
| 1.1 | 1.2 | 1.3 | 2.1 | 2.2 | 2.3 | 3.1 | 3.2 | 3.3 | 4.1 | 4.2 | 4.3 | 4.4 | 5.1 | 5.2 |
| **1. Core General Education Courses**  |  |
| IST20 1001 | Digital Literacy | ⭘ |  |  | ⭘ | ⭘ |  | • | • | ⭘ |  | ⭘ |  | ⭘ | • |  |
| IST20 1002 |  Use of Application Programs for Learning | ⭘ |  |  | ⭘ | ⭘ |  | • | • | ⭘ |  | ⭘ |  | ⭘ | • |  |
| IST20 1003 | Life Skills | • |  |  | ⭘ | ⭘ |  | • | • | ⭘ |  |  |  | • |  |  |
| IST20 1004 | Citizenship and Global Citizens |  |  | • | • | • |  | ⭘ |  |  | • |  |  | ⭘ |  | ⭘ |
| IST20 2001 | Man, Society and Environment | ⭘ | • |  | • | ⭘ |  | ⭘ |  | • |  |  |  | • |  | ⭘ |
| IST20 2002 | Man, Economy and Development | • | ⭘ | ⭘ | ⭘ | • | • | ⭘ | • |  |  |  |  | ⭘ |  | ⭘ |
| **2. Language Courses** |  |
| IST30 1101 | English for Communication 1 | • |  |  | • |  |  | ⭘ | • |  |  | ⭘ |  | • | ⭘ | • |
| IST30 1102 | English for Communication 2 | • |  |  | • |  |  | ⭘ | • |  |  | ⭘ |  | • | ⭘ | • |
| IST30 1103 | English for Academic Purposes | • |  |  | • |  |  | ⭘ | • |  |  | ⭘ |  | • | ⭘ | • |
| IST30 1104 | English for Specific Purposes | • |  |  | • |  |  | ⭘ | • |  |  | ⭘ |  | • | ⭘ | • |
| IST30 1105 | English for Careers | • |  |  | • |  |  | ⭘ | • |  |  | ⭘ |  | • | ⭘ | • |
| **3. Elective General Education Courses** |  |
| IST20 1502 | Art Appreciation |  |  |  | • |  |  | ⭘ | ⭘ |  | ⭘ | • |  | • | ⭘ |  |
| IST20 1503 | Holistic Health  | • |  |  | • | • |  | • | ⭘ | ⭘ |  | • |  | • | ⭘ |  |
| IST20 1504 | Law in Daily Life | • |  | ⭘ | • | ⭘ |  | • | ⭘ |  | • | • |  | ⭘ |  | ⭘ |
| IST20 2501 | Professional and Community Engagement | ⭘ | ⭘ | • | • |  | • | • | ⭘ |  | • | ⭘ | • | • |  | ⭘ |
| IST20 2502 | Pluri-Cultural Thai Studies | ⭘ |  | • | • | • |  | • | ⭘ |  | • |  |  |  |  | ⭘ |
| IST20 2503 | ASEAN Studies |  |  | • | • | • |  | • | ⭘ |  | ⭘ | • |  | ⭘ |  | ⭘ |
| IST20 2504 | Design Thinking | ⭘ | • |  |  | ⭘ | • | ⭘ | • |  | ⭘ | • |  | • |  | ⭘ |
| IST20 2505 | Love yourself  | • |  |  | • | ⭘ |  | • | ⭘ | • |  | • |  | • |  | ⭘ |
| **Curriculum Mapping** | **•** | **•** | **•** | **•** | **•** | **•** | **•** | **•** | **•** | **•** | **•** | **•** | **•** | **•** | **•** |

**8. Expected Learning Outcomes of General Education**

**Suranaree University of Technology**

**8.1 Ethics and Morals**

1. Conducting themselves properly through disciplines, being responsible and honest; appreciating sufficiency economy as a foundation of life philosophy
2. Being environmentally-friendly; being aware of environmental justice
3. Understanding citizenship under a community they are living in

**8.2 Knowledge**

(1) Understanding themselves, their families, societies and cultural differences

(2) Keeping up with global trends; appropriately conducting themselves in Thai society and a global community

(3) Equipping resilient skills for human capital development, lifelong learning, innovation and entrepreneurship, which align with the national strategy as well as Thailand 4.0

**8.3 Cognitive Skills**

(1) Equipping lifelong learning skills for self-improvement and quality of life

(2) Equipping skills for holistic thinking on a foundation of logic and creativity

(3) Analyzing and making a decision through scientific processes

**8.4 Interpersonal Skills and Responsibility**

(1) Having voluntary hearts and public minds as Thai and global citizens

(2) Enjoying life and aesthetics

(3) Experiencing working with a community and a professional group as to develop an understanding about their own community and a professional group that matches their interests through first-hand experiences

(4) Conducting themselves as gentle individuals with great personalities and interpersonal skills; believing in themselves; being both great leaders and followers while capable of working as a team

**8.5 Numerical, Communication and Information Technology Skills**

(1) Being able to use digital technology to retrieve, accumulate, analyze, synthesize and assess information to do research and enjoy life in the innovation age

(2) Equipping language skills for communication, researching and working