

Computer Science

Introduction

In the new millennium and the global era, the role of information and automation in the various domains and activities of the business industry is becoming more important. The success of the activities is determined by how computer science can support managing the information. The information must be up-to-date, accurate and comprehensive to allow decision-makers to determine the enterprise's strategy. Furthermore, automation can facilitate human activity, accelerate the pace of work and make it more effective and efficient, while also increasing productivity in various activities. The development of communication and computer technology has made it possible to get information that is rapid, exact, and accurate. It also increases the application of automation in various fields such as industry, business, office affairs and the development of science and technology.

The Computer Science Program was founded in September 1987, under STMIK Bina Nusantara; it became one of the programs under the coordination of the Faculty of Computer Science, Bina Nusantara University in December 1998.

Computer Science Program at Bina Nusantara University emphasizes the processes, techniques, and tools that go into developing computer-based systems, with specialities in intelligent systems, software engineering, multimedia technology, database systems and network technology.

Vision

A world class study program by providing excellent educational experiences in Computer Science, which focuses on developing creative technology solutions, fostering and empowering the society in building and serving the nation.

Mission

The mission of Computer Science Department is to contribute to the global community through the provision of world-class education by:

- 1. Educating students to effectively apply their educational experiences in developing creative solutions in computer science, to solve real-world problems.
- 2. Preparing graduates to develop exemplary soft skills & technical skills required as computer science professionals, leaders, and entrepreneurs in global market.
- 3. Promoting high impact computer science research that contributes to the nation.
- 4. Fostering BINUSIAN as computer science lifelong learners through self-enrichment.
- 5. Empowering BINUSIAN to continuously improve society's quality of life through knowledge in computer science.

Program Objective

The objectives of the program are:

- 1. Graduates will become successful professionals in ICT fields;
- 2. Graduates will obtain employment in global companies or become entrepreneurs;
- 3. Graduates will obtain professional certification or continue their study to the postgraduate.



Student Outcomes

After completing the study, graduates are:

- 1. Able to analyze a complex computing problem and to apply principles of computing and other relevant disciplines to identify solutions;
- 2. Able to design, implement, and evaluate a computing-based solution to meet a given set of computing requirements in the context of computer science;
- 3. Able to communicate effectively in a variety of professional contexts;
- 4. Able to recognize professional responsibilities and make informed judgments in computing practice based on legal and ethical principles;
- 5. Able to function effectively as a member or leader of a team engaged in activities appropriate to computer science;
- 6. Able to apply computer science theory and software development fundamentals to produce computing-based solutions.

Prospective Career of the Graduates

After finishing the program, the graduate of the Computer Science Program could follow a career as:

- 1. Software Engineer/Developer
- 2. System Analyst/Developer
- 3. Web Engineer/Developer
- 4. Computer Network Specialist
- 5. Database Specialist
- 6. Artificial Intelligence Specialist
- 7. Data Scientist
- 8. IT Support/Consultant
- 9. Researcher
- 10. Multimedia Programmer
- 11. Lecturer/Trainer

Curriculum

The curriculum of the Computer Science Program has been developed in line with the National Curriculum. Also, the local content has been developed in line with the Computer Science Curriculum standard of ACM (Association for Computing Machinery), several local and foreign universities, and market trends, so that the graduates of the Computer Science Program are expected to be able to face competition at both a national and international level. Generally, the subjects of the curriculum 2020 are divided into the following groups of subjects:

US UNIVERSITY



Mathematics Group (Science)

The objective of this group is to provide an understanding of mathematics as one of the principal foundations of computer science. Another objective is to give an understanding of scientific methodology (data collection, hypothesis, research, analysis) in problem-solving.

Character Building Group (Professional Practices)

The objective of this group is to develop the personal strengths of the student and to provide him or her with a professional character, professionalism in their field, management skills, oral and written communication skills, understanding of business ethic, ability to work as a team, and to develop a "Binusian" Character.

Core Group

The objective of this group is to provide a grounding in Computer Science through practice as well as applied theory which is required by business both now and in the future. The subjects that are included in this group are programming, algorithm design and analysis, software engineering, database systems, computer graphics, multimedia technology, human and computer interaction, operation systems, computer architecture, and computer networks.

Concentration Subject (Stream)

The objective of this group is to allow students to obtain a deep understanding of a range of disciplines in computer science. The students are expected to develop their skills and master the techniques which will allow them to research both their thesis and/or to continue their studies.

The Concentration subjects (Stream) provide:

- Software Engineering: to explore the various methodologies and software engineering equipment.
- Intelligent Systems: to explore the various techniques of computer intelligence that can be applied to solving the problem.
- Database Technology: to explore the various technologies and database applications.
- Network Technology: to explore computer networking which consists of installation, administration, and computer networking management.
- Interactive Multimedia: to explore computer interactive multimedia applications, based on computer programming, design tools, and software engine.
- Internet of Things: to explore the various techniques and implementation of IoT.
- Digital Creative Technology: focuses on competencies development in the smart software application development field based on big data analytics to support business innovation through digital transformation in Industry 4.0 era (Digital Business Innovation and Transformation).

Entrepreneur and Employability Skill (Internship)

The objective of this group of subjects is to prepare students with professional experience, and work ethics and to experience the working environment. The students are expected to apply and practice their knowledge in the real working area such as industry, research lab, and also an entrepreneur startup. They are also expected to give reports on the result of the subjects.



Course Structure

| Sem | Code | Course Name | SCU | Total |
|-----|--------------------|---|----------------------|-------------------|
| | CHAR6013001 | Character Building: Pancasila | 2 | |
| | MATH6025001 | Discrete Mathematics | 4 | |
| | MATH6030001 | Linear Algebra | 2 | |
| 4 | COMP6047001 | Algorithm and Programming** (AOL) | 4/2 | 20 |
| 1 | COMP6798001 | Program Design Methods* (AOL) | 2 | 20 |
| | LANG6027001 | Indonesian | 2 | |
| | STAT6171001 | Basic Statistics | 2 | |
| | Foreign Languag | e Courses | 0 | |
| | CHAR6014001 | Character Building: Kewarganegaraan | 2 | |
| | COMP6048001 | Data Structures*&** (AOL) | 4/2 | |
| | MATH6031001 | Calculus | 4 | |
| 2 | ENTR6509001 | Entrepreneurship: Ideation | 2 | 20 |
| | COMP6800001 | Human and Computer Interaction** (AOL) | 2/1 | |
| | MATH6183001 | Scientific Computing (AOL) | 2/1 | |
| | Foreign Languag | e Courses | 0 | |
| | CHAR6015001 | Character Building: Agama | 2 | |
| | COMP6049001 | Algorithm Design and Analysis* (AOL) | 4 | |
| | CPEN6247001 | Computer Networks (AOL) | 2/1 | |
| 3 | COMP6065001 | Artificial Intelligence** (AOL) | 4 | IT ² Y |
| 3 | SCIE6063001 | Computational Physics (AOL) | 2/1 | |
| | COMP6799001 | Database Technology** (AOL) | 2/1 | |
| | COMP6820001 | Object Oriented Programming*&** | 2 | |
| | Foreign Languag | e Courses | 0 | |
| | COMP6696001 | Research Methodology in Computer Science* (AOL) | 2 | |
| | COMP6100001 | Software Engineering** (AOL) | 4 | |
| | SCIE6062001 | Computational Biology | 2/1 | |
| | Streaming : Softv | ware Engineering | | |
| | COMP6106001 | Code Reengineering | 4 | |
| | COMP6114001 | Pattern Software Design | 2/2 | Ctrooming |
| 4 | COMP6884001 | Agile Software Development*&** | 4 | Streaming: 21 |
| 4 | Streaming : Intell | igent System | Minor / F MST: 17 | |
| | COMP6885001 | Natural Language Processing*&** | 2/2 | |
| | COMP6577001 | Machine Learning | 4 | |
| | COMP6822001 | Speech Recognition | 2/2 | |
| | Streaming : Inter | active Multimedia | | |
| | COMP8129001 | User Experience*8** | 2/2 | |
| | COMP6823001 | Multimedia Systems** | 2 | |



| Sem | Code | Course Name | scu | Total |
|-----|--|--|-----|-------------------|
| | COMP7094001 | Multimedia Programming Foundation* | 2/2 | |
| | COMP7128001 | Game Design | 2 | |
| | Streaming : Data | base Technology | | |
| | COMP6481001 | Database Design | 2/1 | |
| | COMP6579001 | Big Data Processing*&** | 2/2 | |
| | COMP6710001 | Distributed Cloud Computing | 2/1 | |
| | COMP6886001 | Data Analytics | 2 | |
| | Streaming : Netw | ork Technology | | |
| | COMP6824001 | Computer Security* | 2/2 | |
| | COMP6584001 | Network and System Programming*&** | 2/2 | |
| | COMP6827001 | Linux System Administration and Security | 2/2 | |
| | Streaming : Inter | net of Things (IoT) ¹ | | |
| | COMP6849031 | Embedded System | 2/2 | |
| | COMP6850031 | Multimedia & Mixed Reality | 2/1 | |
| | MOBI6072031 | Mobile programming | 2/1 | |
| | COMP6655031 | Cyber Security in IoT | 2 | |
| | Streaming : Digital Creative Technology ² | | | |
| | COMP6679004 | Web Programming** | 4 | |
| | COMP6677004 | Multimedia Systems | 2/2 | |
| | COMP6856004 | Popular Programming Technology** | 2 | |
| | General Courses | for Stream Digital Creative Technology | RS | ITY |
| | COMP6955004 | Database Design | 2 | |
| | Streaming: Mobi | le and Game Technology³ | | |
| | COMP6897051 | Game Design & Programming | 2/2 | |
| | COMP6898051 | User Experience | 2 | |
| | COMP6899051 | Machine Learning | 2 | |
| | COMP6900051 | Mobile Embedded Systems | 4 | |
| | Minor Program | | 8 | |
| | Free Elective | | 8 | |
| | Multidisciplinary | Stream | 8 | |
| | Foreign Languag | ge Courses | 0 | |
| | COMP6062001 | Compilation Techniques | 4 | |
| | COMP6697001 | Operating System (AOL) | 2 | |
| | ENTR6511001 | Entrepreneurship: Market Validation | 2 | Streaming: |
| 5 | Elective Courses | *** | | 18 Minor / FE: |
| | MOBI6059001 | Mobile Programming | 2 | 22 |
| | COMP6586001 | Embedded Systems | 2 | |
| | COMP6226001 | Competitive Programming* | 2 | |
| | | | | |



| Sem | Code | Course Name | SCU | Total |
|-----|---|--|-----|-------|
| | COMP6821001 | Web Programming | 2 | |
| | COSC6065001 | Network Security Fundamental | 2 | |
| | Streaming : Soft | ware Engineering | | |
| | COMP6122001 | Framework Layer Architecture | 2/2 | |
| | COMP6115001 | Object Oriented Analysis & Design* | 2/2 | |
| | Streaming : Intel | ligent System | | |
| | COMP7116001 | Computer Vision* | 2/2 | |
| | COMP6826001 | Deep Learning | 2/2 | |
| | Streaming : Inter | active Multimedia | | |
| | COMP6583001 | Computer Graphics | 2/2 | |
| | COMP7139001 | Game Programming* | 4 | |
| | Streaming : Data | base Technology | | |
| | COMP6590001 | Geographical Information System* | 2/2 | |
| | COMP6140001 | Data Mining | 2/2 | |
| | Streaming : Netw | vork Technology | | |
| | COMP6825001 | Introduction to Cloud Infrastructure | 2 | |
| | COMP7142001 | Popular Network Technology | 2/2 | |
| | COMP6113001 | Network Design | 2 | |
| - | Streaming : Internet of Things (IoT) ¹ | | | |
| | COMP6757031 | Computer Vision in Internet of Things | 2/2 | |
| | COMP6882031 | IoT Development and Architecture | 2/2 | ITY |
| | Elective Courses | for Stream Internet of Things (IoT) | | |
| | COMP6921031 | Web Development | 2 | |
| | COMP6922031 | Cloud Computing | 2 | |
| | Streaming : Digit | al Creative Technology ² | | |
| | COMP6678004 | Big Data Analytics for Business | 4 | |
| | MOBI6063004 | Mobile Application Programming** | 4 | |
| | COMP6680004 | Data Visualization* | 2 | |
| | Streaming: Mobi | le and Game Technology³ | | |
| | COMP6903051 | Computer Vision | 2/2 | |
| | COMP6905051 | Mobile and Game Development Capstone Project | 4 | |
| | General Courses | for stream Mobile and Game Technology | • | |
| | COMP6923051 | Hybrid Application Development | 2 | |
| | Minor Program | | 12 | |
| | Free Elective | | 12 | |
| | Multidisciplinary | Stream | 12 | |
| | Enrichment Prog | ram I | 20 | 20 |
| | Enrichment Prog | ram II | 20 | 20 |
| | | | | |



| Sem | Code | Course Name | SCU | Total | |
|-----|---------------------------|-------------|-----|-------|--|
| 8 | COMP6747001 | Pre-Thesis | 2 | | |
| | COMP6748001 | Thesis | 4 | 6 | |
| | COMP6861001 | Thesis | 6 | | |
| | TOTAL CREDITS 146 Credits | | | | |

^{*)} This course is delivered in English

- 1) Conducted for student mobility program in BINUS @Bandung
- 2) Conducted for student mobility program in BINUS @Malang
- 3) Conducted for student mobility program in BINUS @Semarang
- -) (AOL) Assurance of Learning Process System

Streaming/Minor/Free Electives/Multidisiplanary Stream:

- -) For 4th Semester: Students are required to choose Streaming/ Minor/ Free Electives/ Multidisiplanary Stream. For Free Electives, students are required to choose from the list of Free Electives in Appendix.
- -) For 5th Semester: Students are required to choose Streaming/ Minor/ Free Electives/ Multidisiplanary Stream same with previous semester. For Free Electives, students are required to choose from the list of Free Electives in Appendix.

Foreign Language Courses:

Students will take foreign language courses according to BINUS University English proficiency test results. See foreign language courses appendix for the details. Students must pass with a minimum Grade of C.

Pre-thesis (2 SCU) & Thesis (4 SCU) can be taken in the 6th and/or 7th semester by the students who meet the requirements from the Study Program/Program

Appendix Foreign Language Courses

| Foreign Language Courses | | |
|--------------------------|-------------------------------|---|
| ENGL6253001 | English for Frontrunners | 0 |
| ENGL6254001 | English for Independent Users | 0 |
| ENGL6255001 | English for Professionals | 0 |
| JAPN6190001 | Basic Japanese Language* | 0 |
| CHIN6163001 | Basic Chinese Language* | 0 |

^{*)} This course is optional for students

- 1. Students with Binus University English Proficiency Test score less than 437 are required to take English for Frontrunners and English for Independent Users.
- 2. Students with Binus University English Proficiency Test score less than 520 are required to take English for Independent Users and English for Professionals.
- Students with Binus University English Proficiency Test score equal to or greater than 520 are required to take
 English for Professionals. Additionally, students may choose to take either Basic Japanese Language or Basic
 Chinese Language.
- 4. Students are required to pass the foreign language courses before they take enrichment.
- 5. Students can see the requirements to pass the foreign language courses at BINUSMAYA Beelingua.

^{**)} Global Learning System course

^{***)} Students will choose 1 course (2 credits) from the list of elective courses. The elective courses are available for students who choose stream in Binus Greater Jakarta or Minor Program or Free Electives or Multidisciplinary Stream



Minor Scheme

| Minor Progra | m | Semester 4 | Semester 5 |
|-----------------|-------------------------|------------|------------|
| Minor @ Binu | s Kemanggisan | | |
| Digital Ecosys | tem | - | - |
| Human Capita | I in Digital Workplace | V | ٧ |
| Sustainable D | evelopment | V | V |
| Cross Cultural | Communication | V | V |
| Interactive & L | Jsers Experience Design | V | V |
| Data Analytics | | V | ٧ |
| Robotic Proce | ss Automation | V | ٧ |
| Event Busines | s and Entertainment | V | ٧ |
| Creative Digita | al Storytelling | V | ٧ |
| Digital Banking | 9 | V | ٧ |
| Blockchain Te | chnology and Business | V | ٧ |
| Minor @ Binu | s Alam Sutera | | |
| Digital Transfo | rmation | V | ٧ |
| Minor @ Binu | s Bekasi | | |
| Virtual Service | Experience | - | - |
| Culinary | | V | ٧ |
| Minor @ Binu | s Malang | | |
| Digital Techno | preneur | V | ٧ |
| Minor @ Binu | s Bandung | | |
| DesignPreneu | | V | ٧ |
| Minor @ Binu | s Semarang | | VFD |
| Metaverse in E | Business | V | V |
| Content Creat | on | V | ٧ |

1. Minor Program: Human Capital in Digital Workplace

Fundamental Courses

| | Course | SCU |
|-------------|------------------------------------|-----|
| PSYC6174027 | Psychology in The Workplace | 4 |
| MGMT6349005 | Digital Workplace Strategy | 4 |
| ISYS6551003 | Digital Workplace and Technology | 4 |
| LAWS6157028 | Legal Aspects in Digital Workplace | 4 |
| PSYC6175027 | Human Resources Development | 4 |
| | Total SCU | 20 |

2. Minor Program: Sustainable Development

Fundamental Courses

| i unuamentai co | 11363 | |
|-----------------|---|-----|
| | Course | SCU |
| ISYE6154011 | Sustainable Design and Manufacture | 4 |
| CPEN6217010 | Digital for Sustainable Development | 4 |
| ARCH6119014 | Introduction to Sustainable Development | 2 |
| | Total SCU | 10 |



Supporting Courses

| | Course | SCU |
|-------------|---|-----|
| ISYE6155011 | Occupational, Health, Safety, and Administration in Engineering | 2 |
| DSGN6835008 | Engineering Material | 4 |
| CIVL6118013 | Engineering Economic | 4 |
| | Total SCU | 10 |

3. Minor Program: Cross Cultural Communication

Fundamental Courses

| | Course | SCU |
|-------------|--|-----|
| CHIN6132026 | Chinese Conversation in Daily Activities | 4 |
| COMM6502019 | Communication in Diversity | 2 |
| BUSS6170025 | Asian Business Ethics | 4 |
| | Total SCU | 10 |

Supporting Courses

| Course | | |
|--|---------------------------|----|
| CHIN6134026 Chinese Conversation in Business Communication | | 4 |
| LAWS6158028 | Private International Law | 2 |
| INTR6135029 | Comparative Politics | 4 |
| | Total SCU | 10 |

4. Minor Program: Interactive & Users Experience Design

Fundamental Courses

| | Course | I INII\/E | SCU |
|-------------|---------------------------------------|-----------|-----|
| ISYS6553003 | User-Centered Research and Evaluation | OIALAT | 4 |
| PSYC6176027 | Psychology and User Experience | | 4 |
| DSIN6003007 | Fundamental of Interface Design | | 2 |
| | | Total SCU | 10 |

Supporting Courses

| | Course | SCU |
|-------------|-------------------------------------|-----|
| ISYS6554003 | Core Principles: Interactive Design | 4 |
| DSGN6837007 | Digital Design Production | 4 |
| ISYS6556003 | Information Architecture | 2 |
| | Total SCU | 10 |

5. Minor Program: Data Analytics

Fundamental Courses

| i unuamentai Co | uises | |
|-----------------|---|-----|
| | Course | SCU |
| ISYS6680003 | Introduction to Data Analytics | 2 |
| ISYS6681003 | Data Management & Descriptive Analytics | 4 |
| STAT6198049 | Statistical for Decision Making | 4 |
| | Total SCU | 10 |



Supporting Courses

| | Course | SCU |
|-------------|--|-----|
| ISYS6682003 | Application of Predictive Analytics to Business Data | 4 |
| ISYS6683003 | Prescriptive Analytics and Optimization | 4 |
| MKTG6312005 | Digitalization of Markets and Consumption | 2 |
| | Total SCU | 10 |

6. Minor Program: Robotic Process Automation

Fundamental Courses

| | Course | SCU |
|-------------|----------------------------------|-----|
| COMP6857001 | Basic Programming for Automation | 2 |
| COMP6858001 | RPA Concept & Design | 2 |
| ISYS6684003 | RPA Developer Fundamental | 4 |
| ISYS6687003 | Business Process Improvement | 2 |
| | Total SCU | 10 |

Supporting Courses

| | Course | SCU |
|-------------|------------------------------------|-----|
| ISYS6685003 | RPA Developer Advance | 4 |
| ISYS6686003 | RPA Business Analytics Fundamental | 4 |
| COMP6859001 | Intelligence Automation | 2 |
| C | Total SCU | 10 |

7. Minor Program: Event Business and Entertainment

| Fundamental Cou | rses | |
|-----------------|--|-----|
| | Course | SCU |
| HTMN6151021 | Event Marketing Management | 2 |
| HTMN6152021 | Catering Management | 4 |
| TRSM6232022 | MICE (Meeting, Incentive, Convention, Exhibition) Management | 4 |
| | Total SCU | 10 |

| | Course | | SCU |
|-------------|--|-----------|-----|
| TRSM6233022 | Event Sponsorship and Funding | | 2 |
| TRSM6234022 | Sport and Entertainment Event Management | | 4 |
| TRSM6235022 | Festival & Cultural Event | | 4 |
| | | Total SCU | 10 |



8. Minor Program: Creative Digital Storytelling

Fundamental Courses

| | Course | SCU |
|-------------|---------------------------------------|-----|
| ENGL6274024 | Approaches in Multimodal Storytelling | 2 |
| DSIN6033007 | Visual Storytelling | 2 |
| ENGL6275024 | Storytelling for Business | 2 |
| FILM6118009 | Script Development & Pitching | 4 |
| | Total SCU | 10 |

Supporting Courses

| | Course | SCU |
|-------------|---|-----|
| ENGL6276024 | Cultures, Language, and Arts Production | 4 |
| JAPN6212025 | Anime and Manga as Storytelling | 2 |
| ENGL6277024 | Music as Medium for Storytelling | 4 |
| | Total SCU | 10 |

9. Minor Program: Digital Banking

Fundamental Courses

| | Course | | SCU |
|-------------|--|-----------|-----|
| ISYS6824003 | Technology Innovation in Banking | | 2 |
| FINC6217020 | Bank Risk Management in the Digital Era | | 4 |
| FINC6218020 | Digital Finance and The Role of Central Bank | | 4 |
| | 141 | Total SCU | 10 |

| Supporting Course | | |
|-------------------|--|-----|
| | Course | scu |
| MGMT6510005 | Business Process Management in Banking and Finance | 4 |
| ISYS6825003 | Data Analytics in Banking and Finance | 4 |
| MGMT6511005 | Digital Leadership | 2 |
| | Total SCU | 10 |

10. Minor Program: Blockchain Technology and Business

Fundamental Courses

| | Course | SCU |
|-------------|---------------------------------------|-----|
| ISYS6826003 | Introduction to Blockchain Technology | 4 |
| ISYS6827003 | Blockchain Economy & Business | 4 |
| DTSC6016001 | Basic Blockchain Programming | 2 |
| | Total SCU | 10 |

| | Course | SCU |
|-------------|---|-----|
| ISYS6828003 | Blockchain Architecture Design and Implementation | 4 |
| DTSC6017001 | Advanced Blockchain Programming | 2 |
| DTSC6018001 | Prototyping Blockchain Project | 4 |
| | Total SCU | 10 |



11. Minor Program: Digital Transformation

Fundamental Courses

| | Course | SCU |
|-------------|---|-----|
| ISYS6559003 | Business Models and Technology Innovation | 4 |
| ISYS6557003 | Business Data Management | 4 |
| MGMT6484005 | Digital Strategy | 2 |
| | Total SCU | 10 |

Supporting Courses

| | Course | SCU |
|-------------|---|-----|
| ISYS6695003 | Digital Marketing Analysis | 4 |
| STAT6200049 | Practical Statistics for Digital Business | 4 |
| ISYS6560003 | Success Factor for Leading Digital Transformation | 2 |
| | Total SCU | 10 |

12. Minor Program: Culinary

Fundamental Courses

| | Course | SCU |
|-------------|------------------------------|-----|
| HTMN6108021 | Food and Beverage Management | 2 |
| HTMN6008021 | Kitchen Operation | 4 |
| HTMN6128021 | Pastry and Bakery Operation | 4 |
| | Total SCU | 10 |

SCU for HTMN6008021, HTMN6128021 are practical

Supporting Courses

| | Course | SCU |
|-------------|----------------------|-----|
| HTMN6155021 | Indonesian Cuisine | 4 |
| HTMN6125021 | Restaurant Operation | 4 |
| HTMN6154021 | Culinary Tourism | 2 |
| | Total SCU | 10 |

SCU for HTMN6155021, HTMN6125021 are practical

13. Minor Program: Digital Technopreneur

Fundamental Courses

| | Course | SCU |
|-------------|-------------------------------|-----|
| ENTR6528002 | The Entrepreneurial Innovator | 4 |
| DSGN6839006 | Interactive Design | 4 |
| COMM6504018 | Digital Branding | 2 |
| | Total SCU | 10 |

| | Course | SCU |
|-------------|----------------------------|-----|
| ENPR6196002 | Market Intelligence | 2 |
| COMP6687004 | User Experience Design | 4 |
| DSGN6844023 | Prototyping Digital Future | 4 |
| | Total SCU | 10 |



14. Minor Program: Designpreneur

Fundamental Courses

| | Course | SCU |
|-------------|--------------------------------|-----|
| ENTR6525032 | Fundamental of Designpreneur | 4 |
| COMP6688031 | UI/UX Development | 4 |
| DSGN6797034 | Surface Packaging Design | 4 |
| ENTR6526032 | Hospitality and Service Design | 4 |
| DSGN6843033 | Project Design | 4 |
| | Total SCU | 20 |

15. Minor Program: Metaverse in Business

Fundamental Courses

| andamental Coal | | |
|-----------------|-------------------|-----|
| | Course | SCU |
| ISYS6777052 | Business Model | 2 |
| COMP6889051 | Virtual Reality | 4 |
| COMP6890051 | Augmented reality | 4 |
| | Total SCU | 10 |

Supporting Courses

| | Course | SCU |
|-------------|------------------|-----|
| ISYS6778052 | Data Analytics | 2 |
| DSGN6981053 | Design Thinking | 4 |
| DSGN6980053 | Interface Design | 4 |
| | Total SCU | 10 |

16. Minor Program: Content Creation

Fundamental Courses

| | Course | SCU |
|-------------|--------------------------|-----|
| FILM6105009 | Filmmaking Fundamental | 4 |
| MKTG6392055 | Digital marketing | 4 |
| DSIN6042053 | Photography for Creators | 2 |
| | Total SCU | 10 |

| | Course | | SCU |
|-------------|---|-----------|-----|
| DSGN6990053 | Creative Storytelling | | 4 |
| DSIN6043053 | Strategic Influence | | 2 |
| DSIN6041053 | Introduction to Visual Communication Design | | 4 |
| | | Total SCU | 10 |



Multidisciplinary Stream Scheme

| Multidisciplinary Stream | Semester 4 | Semester 5 |
|--|------------|------------|
| Stream @Greater Jakarta | | |
| Japanese Language & Business Culture | V | V |
| English as Foreign Language Learning | V | V |
| English for Business Professionals | V | V |
| English for Specific Academic Purposes | V | V |
| Corporate Communication | - | - |
| Strategic Digital Production | - | - |

1. Multidisciplinary Stream: Japanese Language & Business Culture

Stream Courses

| | Course | | SCU | |
|-------------|---|--|-----|--|
| JAPN6032025 | Japanese Work Ethics (Bijinesu Mana-) | | 2 | |
| JAPN6117025 | Intermediate Japanese (Chuukyuu Bunpou) | | 4 | |
| JAPN6118025 | Text Analysis (Chuukyuu Dokkai) | | 4 | |
| JAPN6203025 | Intermediate Listening Comprehension (Chuukyuu Choukai) | | 4 | |
| JAPN6202025 | Japanese in Translation II (Nihongo Honyaku II) | | 4 | |
| JAPN6165025 | Advanced Linguistics (Gengogaku II) | | 2 | |
| Total SCU | | | | |

2. Multidisciplinary Stream: English as Foreign Language Learning

Stream Courses

| otroam oodroo | | |
|---------------|---|-----|
| Course | | SCU |
| EDUC6051024 | English Language Learning Fundamentals | 4 |
| EDUC8003024 | English for Specific Purposes: Second Language Learning | 2 |
| EDUC6053024 | Print & Digital Literacy | 2 |
| EDUC6054024 | Classroom Communication and Learning | 4 |
| EDUC6055024 | Teaching BIPA | 2 |
| EDUC6056024 | Current Issues in Foreign Language Learning | 2 |
| EDUC6057024 | Language Testing | 4 |
| | Total SCU | 20 |

3. Multidisciplinary Stream: English for Business Professionals

Stream Courses

| | Course | SCU |
|-------------|---|-----|
| ENGL6154024 | English for Business Communications | 4 |
| ENGL6258024 | English for Global Leadership | 2 |
| ENGL6169024 | English for Professionals | 2 |
| MKTG6112024 | Language Innovations in Marketing and Advertising | 2 |
| COMM6506024 | Current Issues in Business Communications | 2 |
| ENGL6244024 | Social Media Broadcasting | 4 |
| ENGL6245024 | Business Rhetoric | 4 |
| | Total SCU | 20 |



4. Multidisciplinary Stream: English for Specific Academic Purposes

Stream Courses

| | Course | | SCU |
|-------------|--|-----------|-----|
| ENGL6259024 | Reading Skills for Academic Study | | 4 |
| ENGL6260024 | Text Analysis for Paper Writing | | 4 |
| ENGL6261024 | Style and Rhetoric | | 4 |
| ENGL6262024 | Presentation Skills | | 4 |
| ENGL6263024 | Advanced Seminar and Poster Presentation | | 4 |
| | | Total SCU | 20 |

Appendix: Free Electives (4th Semester & 5th Semester)

| No | Course Owner Department | Course Code | Course Name | SCU | Semester |
|----|---|---|---|-----|----------|
| 1 | Business Management | MGMT6365005 | Current Issue in Service Business and Technology | 2 | 4 |
| 2 | Business Management | MGMT6401005 | Digital Supply Chain Management | 2 | 4 |
| 3 | Business Management | MKTG6324005 | Retail Marketing Management | 2 | 5 |
| 4 | Global Business Marketing | MKTG6321005 | Marketing Data Analytics | 4 | 4 |
| 5 | Global Business Marketing | MKTG6237005 | Global Strategic Marketing: Asia Pasific Perspective | 4 | 5 |
| 6 | International Business Management | BUSS6223005 | Trade in Asia | 2 | 5 |
| 7 | International Business Management | MGMT6357005 | Multinational Corporation Management | 4 | 5 |
| 8 | International Business Management | MGMT6458005 | Global Supply Chain Management | 2 | 4 |
| 9 | Management | BUSS6109005 | Business Development | 4 | 4 |
| 10 | Management | Management ISYS6744005 E-Business Strategy and Implementation | | 4 | 4 |
| 11 | Management | ISYS6079005 | E-Business System | 4 | 4 |
| 12 | Management | MGMT6196005 | Project Management | 4 | 4 |
| 13 | Management | MGMT6297005 | Operations Management | 4 | 5 |
| 14 | Management | MGMT6341005 | Strategic Management | 4 | 4 |
| 15 | Management | MGMT6374005 | Analysis on E-Business Investment | 4 | 4 |
| 16 | Hotel Management | HTMN6001021 | Introduction to Hospitality | 4 | 5 |
| 17 | Hotel Management | HTMN6147021 | Hospitality Management | 4 | 5 |
| 18 | Marketing Communication | COMM6533019 | Creative Program Design | 2/2 | 5 |
| 19 | Marketing Communication | COMM6541019 | Digital Corporate Communication | 2/2 | 5 |
| 20 | Marketing Communication | COMM6624019 | Digital Creative Content | 2/2 | 5 |
| 21 | Tourism | BUSS6137022 | Tourism E-Business | 4 | 5 |
| 22 | Tourism | TRSM6142022 | Event Management | 4 | 5 |
| 23 | Tourism | TRSM6212022 | Indonesian Culture | 4 | 5 |
| 24 | Civil Engineering | CIVL6080013 | Construction Methods & Heavy Equipment | 2 | 5 |
| 25 | Compensation COMPSO45013 Computer Application | | Computer Applications in Construction Management | 2 | 5 |
| 26 | Computer Engineering | CPEN6126010 | Cross Platform Application Development | 4 | 5 |



| No | Course Owner Department | Course Code | Course Name | SCU | Semester |
|----|--|--|---|-----|----------|
| 27 | Computer Engineering | CPEN6220010 | Computer Networks & Information Security | 4/1 | 5 |
| 28 | Computer Engineering | Computer Engineering CPEN6225010 Telco Network & Switching System | | 2 | 5 |
| 29 | Computer Engineering | CPEN6232010 | Cloud Technology Practice | 2 | 5 |
| 30 | Food Technology | CPEN6235015 | IoT in Food Industry | 2 | 5 |
| 31 | Food Technology | FOOD6073015 | Current Issues in Food Technology | 2 | 5 |
| 32 | Industrial Engineering | ISYE6041011 | Engineering Economy | 2 | 4 |
| 33 | Industrial Engineering | ISYE6113011 | Leadership & Organizational Behavior | 2 | 5 |
| 34 | Industrial Engineering | ISYE6181011 | System Engineering & Analysis | 2 | 4 |
| 35 | Business Law | LAWS6017028 | Intellectual Property Rights | 4 | 5 |
| 36 | Business Law | LAWS6052028 | Bankruptcy Law | 2 | 5 |
| 37 | Business Law | LAWS6110028 | Cyber Law | 2 | 5 |
| 38 | Business Law | LAWS6167028 | Legal Philosophy & Professional Ethics | 2 | 5 |
| 39 | Business Law | LAWS6171028 | Business Competition & Consumer Protection Law | 2 | 5 |
| 40 | Business Law | LAWS6176028 | Tax Law | 2 | 5 |
| 41 | Chinese Literature | Chinese Literature CHIN6157026 Chinese Business for Etiquette (Beginner) | | 4 | 5 |
| 42 | Chinese Literature CHIN6159026 Chinese Character Writing | | 2 | 5 | |
| 43 | English Literature | ENGL6169024 | English for Professionals | 2 | 5 |
| 44 | English Literature | ENGL6244024 | Social Media Broadcasting | 4 | 5 |
| 45 | English Literature | SOCS6021024 | Social and Digital Media Writing | 2 | 5 |
| 46 | International Relations | INTR6162029 | Multiculturalism and Digital Society | 2 | 4 |
| 47 | International Relations | INTR6180029 | Introduction to International Media | 2 | 5 |
| 48 | International Relations | INTR6158029 | Indonesia's Defense and Security Policy | 2 | 4 |
| 49 | International Relations | INTR6178029 | Introduction to International Political Economy | 2 | 5 |
| 50 | Japanese Literature | JAPN6036025 | Japanese Tourism (Nihon Kankou) | 2 | 5 |
| 51 | Japanese Literature | JAPN6104025 | Japanese Industry and Technology | 2 | 5 |
| 52 | Japanese Literature | JAPN6111025 | Introductory Japanese I | 4 | 5 |
| 53 | Japanese Literature | JAPN6148025 | Japanese Letter I (Kanji I) | 2 | 5 |
| 54 | Primary Teacher Education | EDUC6018030 | Micro Teaching | 4 | 5 |
| 55 | Primary Teacher EDUC6041030 | | Current Issues in Primary Education | 2 | 5 |
| 56 | Primary Teacher Education | EDUC6073030 | ICT for Distance Learning | 4 | 5 |
| 57 | Psychology | PSYC6124027 | Psychology of Early Childhood Education | 4 | 5 |
| 58 | Psychology | PSYC6125027 | Psychology of Special Needs Education | 4 | 5 |
| 59 | Psychology | PSYC6130027 | Human Performance Technology | 4 | 5 |
| 60 | Psychology | PSYC6191027 | E-Learning Psychology | 4 | 5 |



| No | Course Owner Department | Course Code | Course Name | SCU | Semester |
|----|------------------------------------|-------------------------------|--|-----|--------------|
| 61 | Psychology | PSYC6215027 | Leadership and Organizational Behaviour | 4 | 5 |
| 62 | Finance | FINC6010020 | International Finance | 2 | 5 |
| 63 | Finance | FINC6189020 | Introduction to Financial Market and Fin-Tech | 2 | 5 |
| 64 | Cyber Security | COMP6542001 | Computer Security Fundamental | 2 | 5 |
| 65 | Data Science | DTSC6005001 | Data Mining and Visualization | 2/1 | 4 |
| 66 | Computer Science | COMP6590001 | Geographical Information System | 2/2 | 5 |
| 67 | Computer Science | COMP6823001 | Multimedia Systems | 2 | 4 |
| 68 | Computer Science | COMP7128001 | Game Design | 2 | 4 |
| 69 | Computer Science | COMP8129001 | User Experience | 2/2 | 4 |
| 70 | Computer Science | COMP6821001 | Web Programming | 2 | 5 |
| 71 | Computer Science | COMP7116001 | Computer Vision | 2/2 | 5 |
| 72 | Mobile Application & Technology | MOBI6070001 | Embedded System and Internet of Things | 3 | 5 |
| 73 | Data Science | DTSC6006001 | Machine Learning | 2/1 | 5 |
| 74 | Mobile Application & Technology | MOBI6059001 | Mobile Programming | 2 | 5 |
| 75 | Game Application and Technology | GAME6085001 | Object Oriented Game Programming | 2 | 5 |
| 76 | Cyber Security | COMP6549001 Software Security | | 2 | 4 |
| 77 | Mobile Application & Technology | MOBI6068001 | Web Design | 2 | 5 |
| 78 | Animation | DSGN6689007 | Concept Art & Production Design | 2 | 5 |
| 79 | Creative Advertising | DSGN6732007 Photography | | 4 | 1 4 / |
| 80 | Creative Advertising | DSGN6671007 | Creative Writing for Commercials | 4 | 4 |
| 81 | Film | FILM6026009 | History of Indonesian Cinema | 2 | 4 |
| 82 | Film | FILM6059009 | Global Cinema | 4 | 5 |
| 83 | Interior Design | DSGN6612008 | Design Trend | 2 | 5 |
| 84 | New Media | DSGN6743007 | Digital Graphic Reproduction | 4 | 5 |
| 85 | Business Information Technology | ISYS6574003 | Information Retrieval | 4 | 4 |
| 86 | Business Information Technology | ISYS6577003 | Machine Learning & Foundations | 2 | 4 |
| 87 | Business Information Technology | ISYS6579003 | Knowledge-Based AI: Cognitive Systems | 4 | 5 |
| 88 | Business Information Technology | ISYS6606003 | Smart Application | 2 | 4 |
| 89 | Information Systems | BUSS6043003 | Introduction to E-Business | 4 | 4 |
| 90 | Information Systems | ISYS6203003 | Mobile Application Development | 2/2 | 4 |
| 91 | Information Systems | ISYS6016003 | Social Media Fundamental | 2 | 4 |
| 92 | Information Systems | ISYS6196003 | Business Analytics | 2 | 5 |
| 93 | Information Systems | ISYS6199003 | Data & Text Mining | 4 | 5 |
| 94 | Information Systems | ISYS6202003 | Social Informatics | 4 | 5 |
| 95 | Information Systems | ISYS6210003 | Data Visualization | 2 | 4 |
| 96 | Information Systems | ISYS6285003 | Digital and New Media | 2 | 4 |



| No | Course Owner Department | Course Code | Course Name | SCU | Semester |
|-----|----------------------------|-------------|--------------------------------|-----|----------|
| 97 | Information Systems | ISYS6289003 | Collaborative Computing | 4 | 5 |
| 98 | Information Systems | ISYS6402003 | Business Analytics | 2/2 | 5 |
| 99 | Information Systems | ISYS6594003 | Coding for Finance | 2 | 4 |
| 100 | Information Systems | ISYS8066003 | Business Process Management | 4 | 5 |

Enrichment Program I (6th Semester) & Enrichment Program II (7th Semester):

-) Student will take one of enrichment program tracks (off campus). See enrichment appendix for the tracks detail.

Enrichment Track Scheme

| Trook | | | Se | meste | r 6 | | | | | | Seme | ster 7 | | | |
|-------|----------|----|----|-------|-----|----|-----|----|----|----|------|--------|----|----|-----|
| Track | IN | RS | EN | CD | SA | IS | etc | IN | RS | EN | CD | SA | IS | FS | etc |
| 1 | ٧ | | | | | | | ٧ | | | | | | | |
| 2 | | ٧ | | | | | | | ٧ | | | | | | |
| 3 | | | ٧ | | | | | | | ٧ | | | | | |
| 4 | | | | ٧ | | | | ٧ | | | | | | | |
| 5 | | | | ٧ | | | | | | | ٧ | | | | |
| 6 | | | | > | | | | | | | | ٧ | | | |
| 7 | | | | ٧ | | | | | | | | | ٧ | | |
| 8 | | | | | ٧ | | | ٧ | | | | | | | |
| 9 | | | | 1 | ٧ | | | | | | ٧ | | | | |
| 10 | | | 3 | | ٧ | | | | | | | ٧ | | | |
| 11 | 1 | | | | ٧ | | | | | | | | ٧ | | |
| 12 | | 72 | | | V | | | | | | | | | ٧ | |
| 13 |) | | | | | | ٧ | ٧ | | | | | | | |
| 14 | | | | | | | V | | | | V_ | | | | |
| 15 | | | | | | | V | | U | | V | V | | | Y |
| 16 | | | | | | | V | |) | - | | - | V | | |
| 17 | V | | | | | | | | | | | | | ٧ | |
| 18 | | ٧ | | | | | | | | | | | | ٧ | |
| 19 | | | | | | ٧ | | ٧ | | | | | | | |
| 20 | | | | | | ٧ | | | | | ٧ | | | | |
| 21 | | | | | | V | | | | | | ٧ | | | |

Note:

IN: InternshipSA: Study AbroadRS: ResearchFS: Further Study

EN : Entrepreneurship IS : Certified Specific Independent Study CD : Community Development etc : Study Program Special Purposes

Description:

- 1. Students will take only one track in each Enrichment Program.
- 2. Students who failed in Enrichment Program I can retake according to the table above.
- 3. As for Enrichment Program II, students who failed should retake the same track, except Certified Specific Independent Study.
- 4. For those who failed in the Certified Study Abroad track will retake the courses from the home campus.



Certified Internship Track

| Code | Course Name | SCU | Total |
|----------------|---|-----|-------|
| Enrichment Pro | | | |
| COMP6426001 | Industrial Experience in Information Technology | 8 | |
| COMP6762001 | Information Technology Practice in Industrial Experience | 8 | 20 |
| COMP6514001 | EES in Information Technology Industry | 4 | |
| Enrichment Pro | | | |
| COMP6429001 | Professional Experience in Information Technology | 8 | |
| COMP6763001 | Information Technology Practice in Professional Experience | 8 | 20 |
| COMP6430001 | Professional Development in Information Technology Industry | 4 | |

Certified Entrepreneurship Track

| Certified Entrepreneurship Track | | | | | |
|----------------------------------|--|---|----|--|--|
| Code | Course Name SCU | | | | |
| Enrichment Pro | gram I | | | | |
| ENTR6943001 | New Venture Initiation in Computer Science | 8 | 20 | | |
| ENTR6945001 | Computer Science Product Development Process | | 20 | | |
| ENTR6947001 | ENTR6947001 EES in New Computer Science Business I | | | | |
| Enrichment Pro | Enrichment Program II | | | | |
| ENTR6944001 | Computer Science Product Launching | 8 | 00 | | |
| ENTR6946001 | Computer Science Business Development | | 20 | | |
| ENTR6948001 | EES in New Computer Science Business II | 4 | | | |

| E111110540001 | LEO III New Computer Colonice Business II | | | |
|-----------------------|--|-----|-------|--|
| Certified Resea | ERS | ITY | | |
| Code | Course Name | SCU | Total | |
| Enrichment Pro | gram I | | | |
| RSCH6565001 | Research Experience I in Computer Science | 8 | | |
| RSCH6567001 | Scientific Writing I in Computer Science | 8 | 20 | |
| RSCH6569001 | Global EES I (Team Work, Communication, Problem Solving & Decision Making) in Computer Science | 4 | | |
| Enrichment Program II | | | | |
| RSCH6566001 | Research Experience II in Computer Science | 8 | | |
| RSCH6568001 | Scientific Writing II in Computer Science | 8 | 20 | |
| RSCH6570001 | Global EES II (Self-Management, Planning & Organizing, Initiative & Enterprise) | 4 | | |

Certified Community Development Track

| Code | de Course Name | | Total |
|----------------------|--|---|-------|
| Enrichment Program I | | | |
| CMDV6159001 | Community Outreach Project Implementation | 8 | 20 |
| CMDV6343001 | /6343001 Community Outreach IT Project Design 8 | | 20 |
| CMDV6208001 | Employability and Entrepreneurial Skills in Computer Science Community | 4 | |



| Code | Course Name | SCU | Total |
|-----------------------|--|-----|-------|
| Enrichment Program II | | | |
| CMDV6184001 | Community Development Project Implementation | 8 | |
| CMDV6344001 | MDV6344001 Community Development IT Project Design 8 | | 20 |
| CMDV6193001 | Employability and Entrepreneurial Skills in Computer Science Community Development | 4 | |

| Certified Study Abroad Track | | | |
|---|-------------------------------------|-----|-------|
| Code | Course Name | SCU | Total |
| Elective courses list for study abroad* | | | |
| Enrichment Pro | gram I | | |
| GLOB6005001 | Elective Course for Study Abroad 1 | 4 | |
| GLOB6006001 | Elective Course for Study Abroad 2 | 4 | |
| GLOB6007001 | Elective Course for Study Abroad 3 | 4 | |
| GLOB6008001 | Elective Course for Study Abroad 4 | 4 | |
| GLOB6009001 | Elective Course for Study Abroad 5 | 2 | |
| GLOB6010001 | Elective Course for Study Abroad 6 | 2 | 20 |
| GLOB6011001 | Elective Course for Study Abroad 7 | 2 | |
| GLOB6012001 | Elective Course for Study Abroad 8 | 2 | |
| GLOB6013001 | Elective Course for Study Abroad 9 | 2 | |
| GLOB6014001 | Elective Course for Study Abroad 10 | 2 | |
| GLOB6015001 | Elective Course for Study Abroad 11 | 2 | |
| GLOB6016001 | Elective Course for Study Abroad 12 | 2 | |
| GLOB6251001 | Elective Course for Study Abroad 29 | 44 | |
| Enrichment Pro | gram II | IVI | R |
| GLOB6017001 | Elective Course for Study Abroad 13 | 4 | |
| GLOB6018001 | Elective Course for Study Abroad 14 | 4 | |
| GLOB6019001 | Elective Course for Study Abroad 15 | 4 | |
| GLOB6020001 | Elective Course for Study Abroad 16 | 4 | |
| GLOB6021001 | Elective Course for Study Abroad 17 | 2 | |
| GLOB6022001 | Elective Course for Study Abroad 18 | 2 | 20 |
| GLOB6023001 | Elective Course for Study Abroad 19 | 2 | 20 |
| GLOB6024001 | Elective Course for Study Abroad 20 | 2 | |
| GLOB6025001 | Elective Course for Study Abroad 21 | 2 | |
| GLOB6026001 | Elective Course for Study Abroad 22 | 2 | |
| GLOB6027001 | Elective Course for Study Abroad 23 | 2 | |
| GLOB6028001 | Elective Course for Study Abroad 24 | 2 | |
| GLOB6253001 | Elective Course for Study Abroad 31 | 4 | |

^{*)} Transferred courses will be transferred based on credit transfer policies on study program with total of 20 credits.



Certified Specific Independent Study

| Code | Course Name | SCU | Total |
|---|---|-----|-------|
| Elective courses list for certified specific independent study* | | | |
| CSIS6001001 | Course Certification | 3 | |
| CSIS6002001 | Technical Skill Enrichment | 4 | |
| CSIS6003001 | Industrial Project | 9 | |
| CSIS6004001 | Soft Skill Enrichment | 4 | |
| CSIS6005001 | Elective Course for Specific Independent Study 1 | 8 | |
| CSIS6006001 | Elective Course for Specific Independent Study 2 | 8 | |
| CSIS6007001 | Elective Course for Specific Independent Study 3 | 6 | |
| CSIS6008001 | Elective Course for Specific Independent Study 4 | 6 | |
| CSIS6009001 | Elective Course for Specific Independent Study 5 | 6 | |
| CSIS6010001 | Elective Course for Specific Independent Study 6 | 5 | |
| CSIS6011001 | Elective Course for Specific Independent Study 7 | 5 | |
| CSIS6012001 | Elective Course for Specific Independent Study 8 | 5 | |
| CSIS6013001 | Elective Course for Specific Independent Study 9 | 5 | |
| CSIS6014001 | Elective Course for Specific Independent Study 10 | 4 | |
| CSIS6015001 | Elective Course for Specific Independent Study 11 | 4 | |
| CSIS6016001 | Elective Course for Specific Independent Study 12 | 4 | |
| CSIS6017001 | Elective Course for Specific Independent Study 13 | 4 | |
| CSIS6018001 | Elective Course for Specific Independent Study 14 | 4 | 20 |
| CSIS6019001 | Elective Course for Specific Independent Study 15 | 3 | |
| CSIS6020001 | Elective Course for Specific Independent Study 16 | 3 | |
| CSIS6021001 | Elective Course for Specific Independent Study 17 | 3 | =RS |
| CSIS6022001 | Elective Course for Specific Independent Study 18 | 3 | |
| CSIS6023001 | Elective Course for Specific Independent Study 19 | 3 | |
| CSIS6024001 | Elective Course for Specific Independent Study 20 | 3 | |
| CSIS6025001 | Elective Course for Specific Independent Study 21 | 2 | |
| CSIS6026001 | Elective Course for Specific Independent Study 22 | 2 | |
| CSIS6027001 | Elective Course for Specific Independent Study 23 | 2 | |
| CSIS6028001 | Elective Course for Specific Independent Study 24 | 2 | |
| CSIS6029001 | Elective Course for Specific Independent Study 25 | 2 | |
| CSIS6030001 | Elective Course for Specific Independent Study 26 | 2 | |
| CSIS6031001 | Elective Course for Specific Independent Study 27 | 2 | |
| CSIS6032001 | Elective Course for Specific Independent Study 28 | 2 | |
| CSIS6033001 | Elective Course for Specific Independent Study 29 | 1 | |
| CSIS6034001 | Elective Course for Specific Independent Study 30 | 1 | |
| CSIS6035001 | Elective Course for Specific Independent Study 31 | 1 | |
| CSIS6036001 | Elective Course for Specific Independent Study 32 | 1 | |

^{*)} For students who take BINUS certified specific independent study courses, they should take the first 4 courses on the list above (20 credits). Meanwhile, electives courses 1 to 32 are transferred courses for students who take certified specific independent study outside BINUS University. Transferred courses will be transferred based on credit transfer policies on study program with total of 20 credits.



Further Study Track

| Code | Course Name | | Total |
|-----------------------|---|---|-------|
| Enrichment Program II | | | |
| COMP6815001 | IT Disaster Recovery | 4 | |
| COMP6816001 | Wireless and Cloud Computing Technologies | 4 | 20 |
| COMP6817001 | Internet Tools and Services | 4 | 20 |
| COMP6818001 | Cyber Risk Management | 4 | |
| COMP6819001 | Knowledge Engineering | 4 | |

Student should pass all of these quality controlled courses as listed below:

| No. | Course Code | Course Name | Minimal Grade |
|-----|-------------|-------------------------------------|---------------|
| 1. | CHAR6013001 | Character Building: Pancasila | В |
| 2. | ENTR6511001 | Entrepreneurship: Market Validation | С |
| 3. | COMP6047001 | Algorithm and Programming* | С |
| 4. | COMP6048001 | Data Structures* | С |
| 5. | COMP6798001 | Program Design Methods* | С |
| 6. | COMP6100001 | Software Engineering* | С |
| 7. | COMP6799001 | Database Technology | С |
| 8. | COMP6697001 | Operating System | С |

*) Tutorial & Multipaper

