

Department of Information Management

Chang Gung University

Course map for 2018 commencing students

Required Courses

University Compulsory (28)

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|-----------------------------------------------------------------------------------------------------------------------------------|-----------------------|
| Foreign Language(6) | General Education(22) |
| *General Education program comprises five categories : Humanities, Philosophy, Social Science, Natural Science, and Life Science. | |

Department Compulsory (55)

Management Foundation (18)

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|----------------------------|---------------------|---------------------------|
| 1R(3) Calculus | 1R(3) Accounting | 1R(3) Statistics (I) |
| 1R(3) Statistics (II) | 2R(3) Economics | 2R(3) Management |

Information Foundation Courses (13)

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|--------------------------------------------------------|-------------------------------------|--------------------------------------|
| 1R(3) Introduction to Computer Science | 1R(3) Computer Programming (I) | 1R(3) Computer Programming (II) |
| 1R(1) Scientific English for Information Management | 2R(3) Data Structures | |

Professional Core Courses (18)

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|-----------------------------------------|------------------------------------------|-------------------------------------------|
| 2R(3) Computer Networks | 2R(3) Database Management | 2R(3) Web Applications Development (I) |
| 3R(3) Management Information Systems | 3R(3) Systems Analysis & Design (I) | 3R(3) Information Ethics and CyberLaw |

Service Learning (0)

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| 2R(0) Community Services |
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Project (6)

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| 3R(3) Senior Project (I) | 4R(3) Senior Project (II) |
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Elective Courses (at least 45 credits)

Data Science Field

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|-----------------------------------------------|
| 1E(3) |
| Introduction to Big Data |
| 2E(3) |
| Hadoop Overview and Architecture |
| 2E(3) |
| Big Data Case Analysis in Industries |
| 3E(3) |
| Big Data Analytical Methods |
| 3E(3) |
| High Performance Big Data database |
| 4E(3) |
| Application of Semantics Analysis |
| 4E(3) |
| Big Data Processing and Analytical Techniques |
| 4E(3) |
| Practical Project (I) in Big Data |
| 4E(3) |
| Practical Project (II) in Big Data |

Information Management Field

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|----------------------------------------------------|
| 2E(2) |
| Communication and Presentation Skills |
| 2E(3) |
| Introduction to Design |
| 2E(3) |
| Marketing Management |
| 2E(3) |
| Production and Operations Management |
| 2E(3) |
| Applied Statistics |
| 3E(3) |
| Electronic Commerce |
| 3E(3) |
| Internet Marketing |
| 3E(3) |
| Financial Management |
| 3E(3) |
| Accounting Information System |
| 3E(3) |
| Management Science |
| 4E(2) |
| Practice in Healthcare Information Management (I) |
| 4E(2) |
| Practice in Healthcare Information Management (II) |
| 4E(3) |
| Project Management |
| 4E(3) |
| Customer Relationship Management |
| 4E(3) |
| Knowledge Management |
| 4E(3) |
| Enterprise Resource Planning |

Information Technology Field

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|----------------------------------------------------|
| 1E(3) |
| Cross-Platform Application Programming |
| 1E(3) |
| C Language Programming |
| 2E(3) |
| Object-Oriented Programming |
| 2E(3) |
| Java Web Component Development |
| 2E(3) |
| Mobile Device Application Programming |
| 3E(3) |
| Java Business Component Management and Development |
| 3E(3) |
| Web Applications Development (II) |
| 3E(3) |
| Windows Programming |
| 3E(3) |
| Database Programming |
| 3E(3) |
| Operating System |
| 3E(3) |
| Systems Analysis & Design (II) |

Information Security Field

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|--------------------------------------------------------|
| 2E(3) |
| Introduction to Information Security |
| 3E(3) |
| Fundamental Mathematics of Information Security |
| 3E(1) |
| Information Security Experiments |
| 3E(1) |
| Medical Information System Security |
| 4E(3) |
| Network Security |
| 4E(3) |
| Information System Auditing and Management |
| 4E(3) |
| Network Attack and Defense Techniques and Applications |
| 4E(3) |
| Digital Forensics |

Internet of Things Field

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|-------------------------------------------------------------|
| 2E(2) |
| Introduction to Industrial Applications in Intelligent Life |
| 2E(3) |
| Introduction to Internet of Things |
| 3E(3) |
| Logistics and Supply Chain Management |
| 3E(3) |
| Information Systems for Internet of Things |
| 3E(3) |
| Cloud Computing |
| 4E(3) |
| Case Study on IoT Industrial Creative Applications |
| 4E(3) |
| Systems Design for Supply Chain Management |
| 4E(3) |
| Norms of Logistics Information Security |

Practice Filed

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| 2E(1) |
| Information Management Project (I) |
| 3E(1) |
| Information Management Project (II) |
| 3E(1) |
| Internship |
| 3E(1) |
| Information Management Colloquia |
| 4E(1) |
| Workplace Ethics and Employment Attitude |
| 4E(2) |
| Internship |
| 4E(3) |
| Industry Practice Project |

Robotic Applications Field

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| 2E(3) |
| Introduction to Intelligent Robotics |
| 2E(3) |
| Project of Maker in IT Application |
| 2E(3) |
| Intelligent Robotics and Applications |
| 2E(3) |
| Open Source Technologies and Applications |
| 3E(3) |
| Programming of Interactive Robotics |
| 3E(3) |
| Practical Projects of Intelligent Robotics |

Grade (1-4)

R: Required Course
E: Elective Course

Credit (s)

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| 2 R (3) |
| Course Title |