



# School of Engineering

[www.rp.edu.sg/seg](http://www.rp.edu.sg/seg)

Shape your future at RP School of Engineering (SEG) where you can master skills to transform your ideas into groundbreaking realities. Join us to pioneer new frontiers and make a lasting impact with your engineering expertise.

- Common Engineering Programme
- Diploma in Aerospace Engineering
- Diploma in Aviation Management
- Diploma in Business Process & Engineering Management
- Diploma in Electrical & Electronic Engineering
- Diploma in Engineering
- Diploma in Mobility & Robotic Systems
- Diploma in Supply Chain Management
- Diploma in Sustainable Built Environment



# Common Engineering Programme R42

Stay flexible and keep your options open as you explore infinite possibilities in engineering.

Unsure which engineering field to specialise in? The Common Engineering Programme is your ideal starting point. This programme allows you to explore your interests and gain a comprehensive understanding of the various engineering diplomas offered by the School of Engineering (SEG). Enjoy the flexibility of up to one year to make an informed decision on the specific diploma that best suits your passion and career goals.

- Probe deeper to discover your interest in various fields of engineering
- Gain foundational understanding through modules and activities
- Find out about the eight different engineering diplomas for a clearer picture of your options

## What you will learn

### General Modules

- Critical Thinking and Problem Solving Skills
- Designing Your Impact
- Designing Your Life (Future-Ready I)
- Designing Your Life (Personal Growth I)
- Effective Workplace Communication
- Innovation and Practice
- Singapore, the World and I

### Discipline Modules

#### Semester 1

You will take the following modules:

- Data Visualisation and Analysis for Engineering
- Engineering Design
- Engineering Mathematics
- Fundamentals of Unmanned Systems

At the end of Semester 1, you will opt for one of the following diplomas/clusters:

- Aerospace Engineering (R40)
- Aviation Management (R39)
- Business Process & Engineering Management (R11)

- Electrical & Electronic Engineering (R50)
- Engineering (R56)
- Mobility & Robotic Systems (R54)
- Supply Chain Management (R21)
- Sustainable Built Environment (R61)
- *Engineering Cluster*
- *Engineering Management Cluster*

#### Semester 2

If you choose to enter the **Engineering Cluster**, you will take the following modules:

- Electrical and Electronic Fundamentals
- Fundamentals of Industrial Internet of Things
- Principles of Mechanics
- Programming for Engineering

You will opt for one of the following **diplomas at the end of semester 2**:

- Aerospace Engineering
- Electrical & Electronic Engineering
- Engineering
- Mobility & Robotic Systems
- Sustainable Built Environment

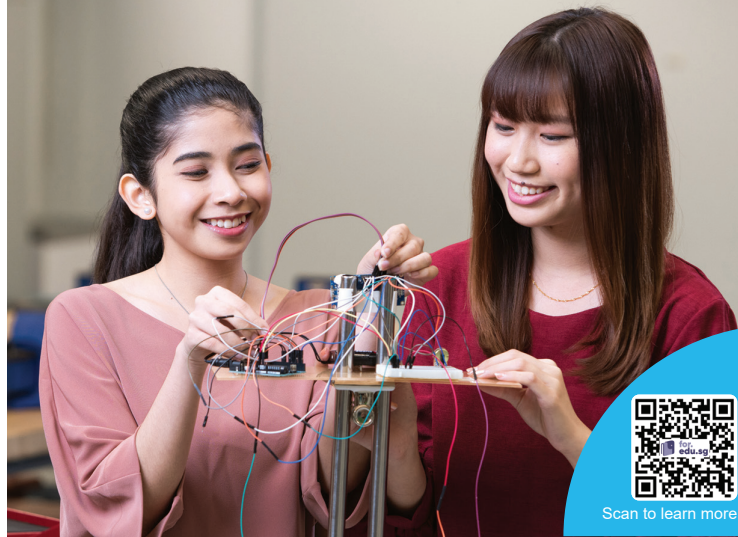
If you choose to enter the **Engineering Management Cluster**, you will take the following modules:

- Fundamentals of Industrial Internet of Things
- Operations Planning
- Programming for Engineering
- Statistical Methods for Engineering

You will opt for one of the following **diplomas at the end of semester 2**:

- Aviation Management
- Business Process & Engineering Management
- Engineering
- Supply Chain Management

After being placed in one of the SEG diploma programmes, you will study the modules specific to that programme.



Scan to learn more



"Through this course, I was introduced to various engineering disciplines which led me to make a well-informed choice on which SEG diploma I should pursue."

**JUSTICA TAN WAN LING**, 2018 Graduate



# Diploma in Aerospace Engineering R40

Your runway to becoming a Licensed Aircraft Engineer.

Get a flying start in the aerospace sector with this diploma approved by the Civil Aviation Authority of Singapore. Gain hands-on experience by training on an actual aircraft in our hangar, mastering aircraft maintenance and building a firm foundation of global aviation regulations. Begin your journey toward becoming a Licensed Aircraft Engineer.

- Gain a solid foundation in aircraft structural maintenance and in engine maintenance and repair
- Understand the complexities of aerospace engineering and safety protocols
- Undergo a 20-week Industry Immersion Programme with an optional extension of 16 weeks with aerospace companies such as Pratt & Whitney, StandardAero, ST Engineering Aerospace, UTC Aerospace Systems, and Turbine Overhaul Services or deepen your knowledge through a 24-week Aerospace Engineering Skills Training



Scan to learn more

## What you will learn

### General Modules

- Critical Thinking and Problem Solving Skills
- Designing Your Impact
- Designing Your Life (Future-Ready I)
- Designing Your Life (Future-Ready II)
- Designing Your Life (Personal Growth I)
- Designing Your Life (Personal Growth II)
- Effective Workplace Communication
- Innovation and Practice
- Singapore, the World and I

### Discipline Modules

- Aerodynamics and Propulsion
- Aircraft Inspection
- Airframe Structures and Engine Systems
- Aviation Legislation and Human Factors
- Aviation Maintenance Practices
- Data Visualisation and Analysis for Engineering
- Digital Techniques and Electronic Instrument Systems
- Digital Techniques and Electronic Instrument Systems II
- Electrical and Electronic Fundamentals
- Electrical and Electronic Fundamentals II
- Engineering Design
- Engineering Materials
- Engineering Mathematics
- Fundamentals of Industrial Internet of Things
- Fundamentals of Unmanned Systems
- Principles of Mechanics
- Programming for Engineering
- Thermofluids

## Elective Modules

Customise your learning pathways by selecting **ONE** of the following options:

**Option A:** Select Elective modules totalling 12 Modular Credits (MCs) from the list of modules in the Minor programmes that are applicable to the Diploma and/or from the modules listed below:

- Aircraft Hardware
- Operations Planning
- Statistical Methods for Engineering

**Option B:** Select a Minor Programme

**Option C:** Select a CET-based Certificate programme and/or Elective module(s) from the list of modules in the Minor programmes that are applicable to the Diploma (only for eligible students)

## Industry Orientation Programme Modules

### Option 1: One-Semester Industry Immersion Programme

- Project

And select one module from the list below:

- Aerospace Engineering Skills Training
- Corporate Innovation Immersion Programme
- Entrepreneurial Immersion Programme
- Industry Immersion Programme

### Option 2: Two-Semester Industry Immersion Programme

- Industry Immersion Programme or Industry Immersion Programme (Special Programme)
- Industry Immersion Programme II

## Career Opportunities

With a solid foundation in technical skills, you are poised to take up a comprehensive range of careers in the aviation industry. You can pursue opportunities in roles such as:

- Aircraft Avionics System Specialist
- Airframe and Engine Inspector
- Assistant Engineer
- Fleet Management Planner
- Licensed Aircraft Engineer
- Material/Production Planner
- Non-Destructive Testing Inspector
- Quality Control Inspector
- Technical Support Personnel
- Workshop Engineer



"RP kickstarted my journey into the technical aerospace world, honing my skills as a team player and boosting my confidence in public-speaking. Most importantly, I will always cherish my polytechnic life."

**ANJANA MAHESH KUMAR**, 2019 Graduate



# Diploma in Aviation Management R39

Achieve your aspirations in the air transport sector.

Soar to new heights in the aviation industry! Attain specialist and management skills sought by international airlines and airports. Experience the thrill of flying in the DA40 Aircraft Flight Simulators and hone your air traffic management skills when you role-play as an air traffic controller in the Virtual Aerodrome Laboratory.

- Master a spectrum of skills, from flight operations and air traffic control to terminal management and ground services
- Gain knowledge about aircraft systems, airport operations and aviation safety
- Experience being an air transport professional through our 20-week Industry Immersion Programme with an optional extension of 16 weeks with world-class organisations such as Changi Airport Group, dnata, Jetstar Asia, SATS, and Singapore Airlines



Scan to learn more

## What you will learn

### General Modules

- Critical Thinking and Problem Solving Skills
- Designing Your Impact
- Designing Your Life (Future-Ready I)
- Designing Your Life (Future-Ready II)
- Designing Your Life (Personal Growth I)
- Designing Your Life (Personal Growth II)
- Effective Workplace Communication
- Innovation and Practice
- Singapore, the World and I

### Discipline Modules

- Airline Operations
- Airport Management
- Airport Planning and Design
- Airside Operations and Air Traffic Management
- Data Visualisation and Analysis for Engineering
- Distribution and Transportation
- Engineering Cost Decisions
- Engineering Design
- Engineering Mathematics
- Flight Operations Management
- Fundamentals of Industrial Internet of Things
- Fundamentals of Unmanned Systems
- General Aircraft Systems
- Human Factors and Aviation Safety
- Operations Planning
- Programming for Engineering
- Statistical Methods for Engineering
- Warehousing and Storage

## Elective Modules

Customise your learning pathways by selecting **ONE** of the following options:

**Option A:** Select Elective modules totalling 12 Modular Credits (MCs) from the list of modules in the Minor programmes that are applicable to the Diploma and/or from the modules listed below:

- Electrical and Electronic Fundamentals
- Principles of Mechanics

**Option B:** Select a Minor Programme

**Option C:** Select a CET-based Certificate programme and/or Elective module(s) from the list of modules in the Minor programmes that are applicable to the Diploma (only for eligible students)

## Industry Orientation Programme Modules

### Option 1: One-Semester Industry Immersion Programme

- Project

And select one module from the list below:

- Corporate Innovation Immersion Programme
- Entrepreneurial Immersion Programme
- Industry Immersion Programme

### Option 2: Two-Semester Industry Immersion Programme

- Industry Immersion Programme or Industry Immersion Programme (Special Programme)
- Industry Immersion Programme II

## Career Opportunities

You will be well-positioned to pursue exciting careers in the air transport sector such as:

- Air Operations Centre Manager
- Air Traffic Control Officer
- Airline Flight Controller
- Airside Duty Manager
- Airside Officer
- Cabin Crew
- Customer Services Officer
- Duty Terminal Manager
- Ground Services Officer
- Passenger Services Officer
- Pilot



"I've always dreamed of being a pilot, and the Diploma in Aviation Management has truly played a pivotal role in my life. The practical knowledge and skillsets that I've acquired, as well as the learning environment, have been instrumental in fuelling my passion. Through my internship, I earned my Private Pilot Licence from the Singapore Youth Flying Club."

JENSEN LIM WEI HAN, 2022 Graduate



# Diploma in Business Process & Engineering Management

R11

Transform data into smart decisions to drive business success and operations excellence.

Become the driving force behind business operations across multiple sectors. Develop the expertise to design, improve, optimise, and manage company processes and resources. You will gain practical experience on data-driven decision-making process, human factors applications, process optimisation, and modelling to enhance efficiency, improve productivity, and boost profitability for businesses. Be prepared for diverse careers, excelling in business process and operations management roles across various industries. Unlock your potential and drive business success!

- Develop competencies in management of business processes, project, quality, and resources; business process automation, cost analysis, lean, and operations planning to achieve business strategic goals
- Achieve industry-relevant certifications such as Certified AutoCAD Professional and UiPath Academic Diploma in RPA Citizen Developer
- Learn from well-known organisations such as IKEA, McKinsey, NESTLE, OCBC, PSA, Rolls-Royce, Seagate, Select Group, and Zenxin Agri-Organic through industry collaboration initiatives and Immersion Programme

## What you will learn

### General Modules

- Critical Thinking and Problem Solving Skills
- Designing Your Impact
- Designing Your Life (Future-Ready I)
- Designing Your Life (Future-Ready II)
- Designing Your Life (Personal Growth I)
- Designing Your Life (Personal Growth II)
- Effective Workplace Communication
- Innovation and Practice
- Singapore, the World and I

### Discipline Modules

- Business Process Management
- Data Visualisation and Analysis for Engineering
- Distribution and Transportation
- Engineering Cost Decisions
- Engineering Design
- Engineering Mathematics
- Fundamentals of Industrial Internet of Things
- Fundamentals of Unmanned Systems
- Human Factors Engineering
- Inventory Management
- Lean and Six Sigma
- Operations Planning
- Production Planning and Facilities Layout
- Programming for Engineering
- Project Management
- Quality and Reliability Engineering
- Statistical Methods for Engineering
- Systems Modelling and Decision Analytics

### Elective Modules

Customise your learning pathways by selecting **ONE** of the following options:

**Option A:** Select Elective modules totalling 12 Modular Credits (MCs) from the list of modules in the Minor programmes that are applicable to the Diploma and/or from the modules listed below:

- Electrical and Electronic Fundamentals
- Principles of Mechanics

**Option B:** Select a Minor Programme

**Option C:** Select a CET-based Certificate programme and/or Elective module(s) from the list of modules in the Minor programmes that are applicable to the Diploma (only for eligible students)

### Industry Orientation Programme Modules

**Option 1: One-Semester Industry Immersion Programme**

- Project

And select one module from the list below:

- Corporate Innovation Immersion Programme
- Entrepreneurial Immersion Programme
- Industry Immersion Programme

**Option 2: Two-Semester Industry Immersion Programme**

- Industry Immersion Programme or Industry Immersion Programme (Special Programme)
- Industry Immersion Programme II

### Career Opportunities

You can seek fulfilling careers across a wide spectrum of industries and government agencies in roles such as:

- Business/Planning Executive
- Business Process Analyst
- Demand/Material/Production Planner
- Industrial Engineering Specialist
- Logistics/Supply Chain/Procurement Executive
- Operations Executive
- Productivity/Operations Excellence Team Lead
- Project Manager
- Quality Technologist
- Safety/Facilities Officer
- Any other roles related to Business Process/Operations Management



Scan to learn more



"At RP, I was given many opportunities. Guided by helpful lecturers and enriched by hands-on learning experiences, I found my passion for the maritime industry. The emphasis on productivity and forward-thinking has prepared me well, enabling me to add value in any job."

MUHAMMAD IMRAN B MD ZIN, 2015 Graduate

# Diploma in Electrical & Electronic Engineering R50

Make your mark as a problem-solver in the technical realm.

Spark your enthusiasm for all things electrical and electronic and get wired for a bright future! Gain a broad education that gives you flexibility across a range of key growth areas, from communications to microelectronics.

- Gain a broad-based foundation in electrical and electronics applications across specialities such as communications and microelectronics
- Participate in R&D projects with industry-leading companies and gain valuable industry experience
- Embark on a 20-week Industry Immersion Programme with an optional extension of 16 weeks with companies such as GlobalFoundries, Micron Semiconductor Asia, Panasonic, Rohde & Schwarz Asia, Sennheiser, Signify, and Singtel



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## What you will learn

### General Modules

- Critical Thinking and Problem Solving Skills
- Designing Your Impact
- Designing Your Life (Future-Ready I)
- Designing Your Life (Future-Ready II)
- Designing Your Life (Personal Growth I)
- Designing Your Life (Personal Growth II)
- Effective Workplace Communication
- Innovation and Practice
- Singapore, the World and I

### Discipline Modules

- Circuit Analysis and Control
- Data Visualisation and Analysis for Engineering
- Digital Electronics
- Electrical and Electronic Fundamentals
- Engineering Design
- Engineering Mathematics
- Fundamentals of Industrial Internet of Things
- Fundamentals of Unmanned Systems
- Principles of Mechanics
- Programming for Engineering

### Major Modules

#### Major in Communications

- Artificial Intelligence in Engineering
- Communication Systems
- Data Communications
- Electronic Design and Development
- Electronic Devices and Circuits
- Embedded Systems
- Microcontroller Systems
- Mobile Communications

#### Major in Microelectronics

- Artificial Intelligence in Engineering
- Electronic and Semiconductor Materials
- Electronic Design and Development
- Electronic Devices and Circuits
- Measurement Techniques and Failure Analysis
- Microcontroller Systems
- Thin Film Technology
- Wafer Fabrication and Packaging

### Elective Modules

Customise your learning pathways by selecting **ONE** of the following options:

**Option A:** Select Elective modules totalling 12 Modular Credits (MCs) from the list of modules in the Minor programmes that are applicable to the Diploma and/or from the modules listed below:

- Integrated Circuit Design and Layout
- Statistical Methods for Engineering
- Operations Planning

**Option B:** Select a Minor Programme

**Option C:** Select a CET-based Certificate programme and/or Elective module(s) from the list of modules in the Minor programmes that are applicable to the Diploma (only for eligible students)

### Industry Orientation Programme Modules

#### Option 1: One-Semester Industry Immersion Programme

- Project

And select one module from the list below:

- Corporate Innovation Immersion Programme
- Entrepreneurial Immersion Programme
- Industry Immersion Programme

#### Option 2: Two-Semester Industry Immersion Programme

- Industry Immersion Programme or Industry Immersion Programme (Special Programme)
- Industry Immersion Programme II

### Career Opportunities

You can look forward to excellent career prospects across a wide range of communications and microelectronics industries in roles such as:

- Assistant Equipment Engineer
- Assistant Facility Engineer
- Assistant Integration Engineer
- Assistant Process Engineer
- Assistant Product Engineer
- Assistant Quality Engineer



"During my time in RP, I was given many opportunities to grow and discover myself. The Diploma in Electrical & Electronic Engineering equipped me with the relevant knowledge and skills for my career in the semiconductor industry. Entering the workforce, I don't find myself lost in a fast-paced working environment as RP has equipped me with the skills to think critically and enjoy learning at the same time."

**MOHAMMED RAZI KARAPPAMVEETIL RASHEED**, 2021 Graduate



# Diploma in Engineering

R56

Explore your career options: choose to become a visionary design engineer, a strategic project manager, or a sustainability technology expert!

Build a solid foundation in design, programming, data analysis, and the industrial internet of things. Master the various fields of knowledge by choosing from one of these three majors: Innovation & Design, Project Management or Sustainable Technology, each preparing you for high-demand jobs in the engineering field. Enhance your expertise by adding a minor in areas such as business or entrepreneurship.

- **Broad-Based Foundation:** Gain essential skills in design, programming, data analysis, and industrial internet of things
- **Customise Your Studies:** Choose from three major options in the areas of Innovation & Design, Project Management or Sustainable Technology
- **Additional Minor Options:** Add on to your skills and expertise by pursuing minor programmes such as business or entrepreneurship

## What you will learn

### General Modules

- Critical Thinking and Problem Solving Skills
- Designing Your Impact
- Designing Your Life (Future-Ready I)
- Designing Your Life (Future-Ready II)
- Designing Your Life (Personal Growth I)
- Designing Your Life (Personal Growth II)
- Effective Workplace Communication
- Innovation and Practice
- Singapore, the World and I

### Discipline Modules

- Data Visualisation and Analysis for Engineering
- Engineering Design
- Engineering Mathematics
- Fundamentals of Industrial Internet of Things
- Fundamentals of Unmanned Systems
- Programming for Engineering

### Major Modules

#### Major in Project Management

- Engineering Cost Decisions
- Innovation and Design Thinking
- Lean and Six Sigma
- Operations Planning
- Procurement and Supplier Development
- Project Management
- Statistical Methods for Engineering
- Technologies for Integrated Digital Delivery

#### Major in Innovation & Design

- Computer Aided Design
- Digital Electronics
- Electrical and Electronic Fundamentals
- Electronic Design and Development
- Innovation and Design Thinking
- Mechatronic Systems and Design
- Principles of Mechanics
- Product Design and Prototyping

#### Major in Sustainable Technology

- Building Information Modelling
- Electrical and Electronic Fundamentals

- Energy Management and Sustainability
- Environmental Management and Assessment
- Green Building Technology and Design
- Principles of Mechanics
- Resource Management and Circular Economy
- Smart Facilities Management

### Elective Modules

Customise your learning pathways by selecting a **minimum of 16** Modular Credits (MCs) from this list:

- Artificial Intelligence in Engineering
- Automation Systems
- Business Process Management
- Circuit Analysis and Control
- Distribution and Transportation
- Electrical and Electronic Fundamentals
- Electronic Devices and Circuits
- Engineering Materials
- Human Factors Engineering
- Inventory Management
- IT for Supply Chain Management
- Microcontroller Systems
- Operations Planning
- Principles of Mechanics
- Sensor Systems
- Statistical Methods for Engineering
- Supply Chain Management

**AND select ONE of the following options (up to 12 MCs):**

**Option A:** Select the remaining Elective modules from the list of modules in the Minor programmes that are applicable to the Diploma

**Option B:** Select a Minor Programme

**Option C:** Select a CET-based Certificate programme and/or Elective module(s) from the list of modules in the Minor programmes that are applicable to the Diploma (only for eligible students)



Scan to learn more

## Industry Orientation Programme Modules

### Option 1: One-Semester Industry Immersion Programme

- Project

And select one module from the list below:

- Corporate Innovation Immersion Programme
- Entrepreneurial Immersion Programme
- Industry Immersion Programme

### Option 2: Two-Semester Industry Immersion Programme

- Industry Immersion Programme or Industry Immersion Programme (Special Programme)
- Industry Immersion Programme II

## Career Opportunities

You can look forward to excellent career prospects across a wide range of digital and electronics industries in roles such as:

- Assistant Design Engineer (Innovation & Design)
- Assistant Facilities Engineer (Sustainable Technology)
- Assistant Product Engineer (Innovation & Design)
- Assistant Project Engineer (Project Management)
- Assistant Sustainable Product Engineer (Sustainable Technology)
- Project Executive/Coordinator (Project Management)
- Sales Engineer/Executive
- Scheduler/Planner (Project Management)
- Any other roles related to Project Management, Engineering Design and Sustainable Technology



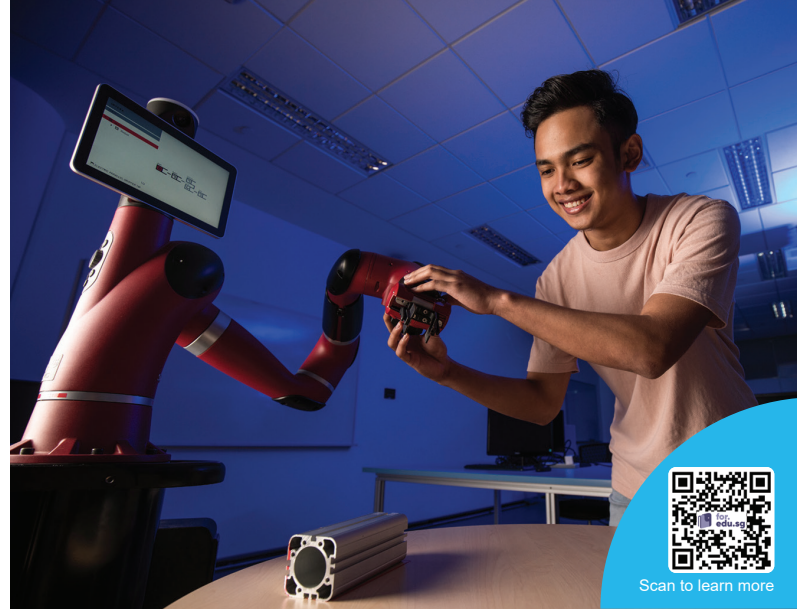
"My diploma provided me with the foundation I needed in 3D designing, which has been instrumental in shaping my journey to become a mechanical designer today. Furthermore, passionate lecturers greatly influenced and inspired me to go beyond my comfort zones and think outside the box when facing challenges."

ANG YONG SHENG AXAL, 2020 Graduate

# Diploma in Mobility & Robotic Systems R54

Equip yourself with in-depth training for dynamic roles in transportation and automation/robotic systems.

Gain extensive knowledge and skills in mobility and robotic systems through the Diploma in Mobility & Robotic Systems. Explore key areas such as intelligent mobility systems and robotic platforms for transporting people and cargo. This programme prepares you for in-demand functional roles within the dynamic and technology-intensive transportation and automation industry sectors.



- Pick up extensive knowledge and essential hands-on skills in intelligent mobility/transportation and automation/robotic systems
- Prepare to undertake in-demand functional roles within the dynamic and technology-intensive transportation and automation industry sectors
- Undergo a 20-week Industry Immersion Programme with an optional extension of 16 weeks, with leading companies in the areas of essential services such as land transportation, intelligent systems and emerging technologies

## What you will learn

### General Modules

- Critical Thinking and Problem Solving Skills
- Designing Your Impact
- Designing Your Life (Future-Ready I)
- Designing Your Life (Future-Ready II)
- Designing Your Life (Personal Growth I)
- Designing Your Life (Personal Growth II)
- Effective Workplace Communication
- Innovation and Practice
- Singapore, the World and I

### Discipline Modules

- Artificial Intelligence in Engineering
- Automation Systems
- Data Visualisation and Analysis for Engineering
- Digital Electronics
- Electrical and Electronic Fundamentals
- Emerging Technologies and Applications in Mobility Systems
- Engineering Design
- Engineering Materials
- Engineering Mathematics
- Fundamentals of Industrial Internet of Things
- Fundamentals of Unmanned Systems
- Principles of Mechanics
- Programming for Engineering
- Project Management
- Rail Operations Management and Maintenance
- Robotics Systems
- Sensor Systems
- Transportation Planning and Design

### Elective Modules

Customise your learning pathways by selecting **ONE** of the following options:

**Option A:** Select Elective modules totalling 12 Modular Credits (MCs) from the list of modules in the Minor programmes that are applicable to the Diploma and/or from the modules listed below:

- Operations Planning
- Statistical Methods for Engineering

**Option B:** Select a Minor Programme

**Option C:** Select a CET-based Certificate programme and/or Elective module(s) from the list of modules in applicable Minor Programmes (only for eligible students)

### Industry Orientation Programme Modules

**Option 1: One-Semester Industry Immersion Programme**

- Project

And select one module from the list below:

- Corporate Innovation Immersion Programme
- Entrepreneurial Immersion Programme
- Industry Immersion Programme

**Option 2: Two-Semester Industry Immersion Programme**

- Industry Immersion Programme or Industry Immersion Programme (Special Programme)
- Industry Immersion Programme II

### Career Opportunities

You will unlock a world of unlimited career opportunities in the dynamic fields of intelligent systems, smart automation systems and urban land transport solutions with roles such as:

- Assistant Engineer (Electrical/Facilities/ Equipment Integration/Maintenance/ Mechanical/Process/Quality/Product/ Rail Operations)
- Assistant Train Station Manager
- Automation and Robotics Assistant Engineer
- System Assistant Engineer
- Urban Transport Operators (Rail and Bus)/ Technical Specialist



"During my time at RP, I developed valuable problem-solving skills and gained a practical understanding of our transport system. The knowledge and experience gained from my studies, along with the strong industry collaboration by the Diploma, enabled me to secure a successful internship with SMRT. This eventually helped me land my current job with SMRT."

**NUR AMIRA NATASYA**, 2019 Graduate



# Diploma in Supply Chain Management R21

Join the dots in a connected global marketplace with a firm understanding of the supply chain.

Discover what it takes to be a supply chain management specialist and why it is the backbone of business success! In this course, you will explore the complexities of every aspect of a supply chain from procurement, supply and demand planning to distribution and logistics operations. Gain skills and knowledge on processes and practicalities behind the movement of goods, information and finances along the supply chain. Understand how suppliers, manufacturers, distributors, and retailers come together to drive international trade moving forward.

- Develop a solid understanding of supply and demand planning, procurement, specialised verticals of logistics operations and advanced supply chain technologies
- Attain a well-rounded education that builds technical capabilities, instils specialised knowledge and provides exposure to concepts related to Supply Chain Management
- Undergo Industry Immersion Programme with companies such as Bollore, DHL, LF Logistics, Schenker, Schneider Electric, ST Logistics, and Toll Group



## What you will learn

### General Modules

- Critical Thinking and Problem Solving Skills
- Designing Your Impact
- Designing Your Life (Future-Ready I)
- Designing Your Life (Future-Ready II)
- Designing Your Life (Personal Growth I)
- Designing Your Life (Personal Growth II)
- Effective Workplace Communication
- Innovation and Practice
- Singapore, the World and I

### Discipline Modules

- Cold Chain and Pharmaceutical Supply Chain
- Data Visualisation and Analysis for Engineering
- Distribution and Transportation
- Engineering Cost Decisions
- Engineering Design
- Engineering Mathematics
- Fundamentals of Industrial Internet of Things
- Fundamentals of Unmanned Systems
- Inventory Management
- IT for Supply Chain Management
- Lean and Six Sigma
- Operations Planning
- Procurement and Supplier Development
- Programming for Engineering
- Project Management
- Statistical Methods for Engineering
- Supply Chain Management
- Warehousing and Storage

## Elective Modules

Customise your learning pathways by selecting **ONE** of the following options:

**Option A:** Select Elective modules totalling 12 Modular Credits (MCs) from the list of modules in the Minor programmes that are applicable to the Diploma and/or from the modules listed below:

- Electrical and Electronic Fundamentals
- Principles of Mechanics

**Option B:** Select a Minor Programme

**Option C:** Select a CET-based Certificate programme and/or Elective module(s) from the list of modules in the Minor programmes that are applicable to the Diploma (only for eligible students)

## Industry Orientation Programme Modules

**Option 1: One-Semester Industry Immersion Programme**

- Project

And select one module from the list below:

- Corporate Innovation Immersion Programme
- Entrepreneurial Immersion Programme
- Industry Immersion Programme

**Option 2: Two-Semester Industry Immersion Programme**

- Industry Immersion Programme or Industry Immersion Programme (Special Programme)
- Industry Immersion Programme II

## Career Opportunities

Look forward to building dynamic careers at all levels of the supply chain across a wide range of industries. You will be in a good position to pursue careers such as:

- Executive (Logistics & Operations)
- Fulfilment Executive
- Inventory and Warehouse Executive
- Logistics Solution Analyst
- Marketing and Customer Service Executive
- Operations Controller
- Procurement Executive
- Product Development Executive
- Regional Trade Executive
- Supply Chain Executive
- Supply Chain Management Trainee
- Trade Executive



"The insightful and practical modules taught in RP have helped solidify my foundation as I start my journey in the supply chain industry. The knowledge and skill I acquired have greatly empowered me, and I'm fully confident of succeeding in the complex and challenging field of supply chain management."

**TAN KAI ZHEN TAMMY**, 2019 Graduate

# Diploma in Sustainable Built Environment R61

Transform the future with smart, sustainable building and architectural technologies.

Be at the cutting edge of digital and smart technologies for the Built Environment (BE)! Pick up skills that will allow you to design or manage buildings with features like Jewel Changi Airport's glass grid shell roof, HSBC Rain Vortex and Canopy Park. This diploma will ensure you are ready to take on various engineering positions in the exciting BE and Architecture, Engineering & Construction (AEC) industry.

- Acquire expertise in the latest digital and smart technologies for the BE and AEC industry
- Achieve industry-relevant certifications such as Revit Architecture Certified User and/or Certified Professional and Digital Delivery Management (DDM) Tier 4 Provisional Accreditation
- Experience working with companies like the Building and Construction Authority (BCA), Capitaland Limited, Carrier Singapore, Daikin Airconditioning, Housing and Development Board (HDB), SATS Ltd, and more through a 20-week Industry Immersion Programme



Scan to learn more

## What you will learn

### General Modules

- Critical Thinking and Problem Solving Skills
- Designing Your Impact
- Designing Your Life (Future-Ready I)
- Designing Your Life (Future-Ready II)
- Designing Your Life (Personal Growth I)
- Designing Your Life (Personal Growth II)
- Effective Workplace Communication
- Innovation and Practice
- Singapore, the World and I

### Discipline Modules

- Building Air-Conditioning and Mechanical Ventilation
- Building Electrical Systems
- Building Information Modelling
- Data Visualisation and Analysis for Engineering
- Design and Modelling for Building Services
- Electrical and Electronic Fundamentals
- Energy Management and Sustainability
- Engineering Design
- Engineering Mathematics
- Fundamentals of Industrial Internet of Things
- Fundamentals of Unmanned Systems
- Green Building Technology and Design
- Intelligent Systems for Building
- Principle of Mechanics
- Programming for Engineering
- Project Management
- Smart Facilities Management
- Technologies for Integrated Digital Delivery

### Elective Modules

Customise your learning pathways by selecting **ONE** of the following options:

**Option A:** Select Elective modules totalling 12 Modular Credits (MCs) from the list of modules in the Minor programmes that are applicable to the Diploma and/or from the modules listed below:

- Operations Planning
- Statistical Methods for Engineering

**Option B:** Select a Minor Programme

**Option C:** Select a CET-based Certificate programme and/or Elective module(s) from the list of modules in the Minor programmes that are applicable to the Diploma (only for eligible students)

### Industry Orientation Programme Modules

**Option 1: One-Semester Industry Immersion Programme**

- Project

And select one module from the list below:

- Corporate Innovation Immersion Programme
- Entrepreneurial Immersion Programme
- Industry Immersion Programme

**Option 2: Two-Semester Industry Immersion Programme**

- Industry Immersion Programme or Industry Immersion Programme (Special Programme)
- Industry Immersion Programme II

### Career Opportunities

You are well-placed to take on various engineering positions in Built Environment Industry such as:

- Assistant Engineer (Mechanical/Electrical)
- Assistant Engineer (Sustainable Design)
- BIM Modeller/Coordinator
- Facilities Executive Assistant
- Specialist in BIM and Digital Delivery



"Getting licensed through my Diploma in Sustainable Built Environment allowed me to fly the drone legally, competently and safely. With drone technology gaining traction in the built environment sector, being equipped with Class A Unmanned Aircraft Pilot License (UAPL) from RP has provided me with the relevant theoretical knowledge and practical skills to be even more industry-ready."

DANISH ISFAHAN BIN KAMIS, 2024 Graduate