

# COLLEGE OF FOUNDATION & DIPLOMA STUDIES (C.F.D.S)



*Creative, Innovative & Energetic.*

Wholly Owned Subsidiary of



# INTRODUCTION



Welcome to the College of Foundation and Diploma Studies (CFDS). CFDS was launched on the 1st of April 2011. The college consists of four (4) distinct departments. They are the Department of Science & Mathematics, Department of Computing, Department of Engineering and the Department of Language & Social Sciences. In addition, College of Business Management and Accounting (COBA) based at the Sultan Haji Ahmad Shah Campus, also offers a variety of foundation and diploma programmes.

The objective of CFDS is to prepare a pathway for students into various bachelor degree programmes offered in the university. Since June 2003, Universiti Tenaga Nasional has been accepting applicants with the Sijil Pelajaran Malaysia (SPM) qualification or its equivalent, into a one-year foundation programme or a two-and-a-half year's diploma programme. Students who complete the foundation or the diploma programme successfully will be able to further studies in the respective degree (Hons) programmes.

The foundation programmes provide a comprehensive and proper coverage of disciplines that equip students for entrance into UNITEN, and other universities in Malaysia.

The diploma programmes provide an alternative where students get to prepare their knowledge and skills, which are required later in the degree programme, in a detailed and specific manner. Additional in-depth subjects as well as technical hands-on practice are provided based on their respective fields.

In addition, the foundation and diploma programmes will also train students to be confident entrepreneurs and future leaders, as well as present them with opportunities to experience a well-balanced and holistic education in our college.

# PROGRAMMES OFFERED

## A. CFDS (PUTRAJAYA CAMPUS)



- Foundation in Electrical & Electronic Engineering
- Foundation in Electrical Power Engineering
- Foundation in Mechanical Engineering
- Foundation in Civil Engineering
- Foundation in Computer Science
- Foundation in Information Technology
- Diploma in Mechanical Engineering
- Diploma in Electrical Engineering
- Diploma in Computer Science
- Diploma in Corporate Management with Tahfiz (Part-Time/ Full-Time)

## B. FDS/COBA (SULTAN HAJI AHMAD SHAH CAMPUS – MUADZAM SHAH, PAHANG)



- Foundation in Accounting
- Foundation in Finance
- Foundation in Business Administration
- Diploma of Accountancy
- Diploma in Finance
- Diploma in Business Studies

## C. VALUE ADDED TO THE EXISTING PROGRAMME



- Preparatory Programme for Excellent Students (Local Scholars)
- Preparatory Programme for Overseas Universities (PPOU)
- Program Pensijilan Tahfiz Al-Quran JAKIM-UNITEN

# UNIVERSITY AWARDS

A showcase of UNITEN's Accolades.  
The continuous quest for national & global recognition of excellence



**The Brand Laureate 2010-2011**  
Best Brand in  
Tertiary Education  
(Engineering)



**Asia-Pacific Business  
Excellence Standard Award**  
APBEST Grand Award Winner of The Year  
And Best Education Services In The Asia-Pacific



**The Brand Laureate 2008-2009**  
Best Brand in Education  
(Engineering and ICT)



**Prime Minister's Award for  
Industry Excellence 2009**



**4th Business of The Year Award**  
Service Provider of The Year 2010

"A prestigious recognition of industrial excellence through continuous efforts and development in education"

# LABORATORY FACILITIES

The following are the dedicated laboratories for students CFDS:



- Network Lab
- Parallel Programming
- Image Processing
- Database Lab
- Electronic Design Lab
- Electrical/ Electronics Measurement Lab
- Microprocessor Applications Lab
- Industrial Automation Lab
- Digital Logic Design Lab
- Electrical Machines Lab
- Manufacturing Lab
- Fluid Mechanics Lab
- Computer Aided Design & Computer Lab
- Instrumentation & Measurement
- Mechanics of Materials Lab

For further details, please visit at: <http://www.uniten.edu.my/admission>

## Brighten Your Path To Success At UNITEN

Let us empower you in building your brighter future.



<http://www.uniten.edu.my/cfds/Pages/Introduction.aspx>



# CAREER PROSPECTS

## A. DIPLOMA IN MECHANICAL ENGINEERING *(JPT/BPP(N/521/4/0053)05/18)* OR DIPLOMA IN ELECTRICAL ENGINEERING *(JPT/BPP(N/522/4/0034)05/18)*

- Technician
- Assistant Engineer
- Technical Executive

## B. DIPLOMA IN COMPUTER SCIENCE *(JPT/BPP(N/481/4/0112)03/22)*

- Junior Programmer
- Maintenance Programmer
- Technician

## C. DIPLOMA IN ACCOUNTANCY *(JPT/BPP(N/344/4/0063)03/22)*

- Entrepreneur
- Junior Accountant
- Account Supervisor
- Real Estate
- Tax Agent

## D. DIPLOMA IN FINANCE *(JPT/BPP(N/343/4/0026)03/22)*

- Entrepreneur
- Junior Financial Analyst
- Financial Controller Assistant
- Investment Agent
- Stock Broker

## E. DIPLOMA IN BUSINESS STUDIES *(JPT/BPP(N/340/4/0094)03/22)*

- Entrepreneur
- Management Trainee
- Junior Human Resource Executive
- Recruiter
- Public Relation Representative

## F. DIPLOMA IN CORPORATE MANAGEMENT WITH TAHFIZ *(JPT/BPP(N/345/4/0959)09/21)*

- Corporate Management & Administration
- Business Administration
- Education
- Assistant Islamic Affairs Officer
- Assistant Finance Officer

# COURSE CONTENT

## FOUNDATION PROGRAMME:

A. FOUNDATION IN ELECTRICAL & ELECTRONICS ENGINEERING *(JPT/BPP(R/010/3/0148)06/18)*

B. FOUNDATION IN ELECTRICAL POWER ENGINEERING *(JPT/BPP(R/010/3/0149)06/18)*

C. FOUNDATION IN MECHANICAL ENGINEERING *(JPT/BPP(R/010/3/0150)06/18)*

D. FOUNDATION IN CIVIL ENGINEERING *(JPT/BPP(R/010/3/0147)06/18)*

- Introductory Calculus and Analytic Geometry
- Physics I
- Physics Laboratory I
- Foundation English
- Computing Skills
- Chemistry I
- Chemistry Laboratory I
- Calculus and Analytic Geometry I
- Physics II
- Physics Laboratory II
- Chemistry II
- Calculus and Analytic Geometry II
- Physics III
- English for Academic Purposes
- Moral Study for Foundation/ Islamic Study for Foundation
- Kor UNITEN
- Malaysian Culture for International Student
- Writing Skills

E. FOUNDATION IN COMPUTER SCIENCE *(JPT/BPP(R/010/3/0168)11/18)*

- Introduction to Computing
- Calculus for Computer Science I
- Psychology of Thinking
- Foundation English I
- Physics I
- Physics Laboratory I
- Islamic/ Moral Studies (Malaysian Student)
- Malaysian Culture for International Student
- Writing skills
- Introduction to Problem Solving and Basic Computers
- Calculus for Computer Science II
- Personal Productivity with Information Technology
- Fundamentals of Data and Information
- Physics II for Computer Science
- Kor UNITEN
- English for Academic Purposes

## F. FOUNDATION IN INFORMATION TECHNOLOGY *(JPT/BPP(R/010/3/0167)11/18)*

- Introduction to Computing
- College Algebra
- Islamic/ Moral Studies
- Malaysian Culture for International Student
- Foundation English I
- Psychology of Thinking
- Personal Productivity with Information Technology
- Business Mathematics
- English for Academic Purposes
- Introduction to Business
- Kor UNITEN
- Introduction to Physics
- Introduction to Problem Solving and Basic Computer
- Introduction to Malaysian Constitution
- Fundamentals of Data and Information
- Writing Skills

## G. FOUNDATION IN ACCOUNTING *(JPT/BPP(R/010/3/0165)08/18)*

- Introductory Financial Accounting I
- Basic Computing
- Quantitative Analysis
- Foundation English I
- Islam/ Moral & Human Development 1
- Introductory Financial Accounting II
- Business Mathematics
- Introduction to Costing
- Principles of Microeconomics
- Foundation English II
- Academic Study Skills
- Introduction to Business Management
- Principles of Finance
- Principles of Macroeconomics
- Creative Thinking & Logic Skills
- Kor UNITEN
- Malay Language & Culture for Foreign Students

## H. FOUNDATION IN FINANCE *(JPT/BPP(R/010/3/0164)08/18)*

- Business Accounting
- Business Computing I
- Quantitative Analysis
- Foundation English I
- Islam/ Moral & Human Development 1
- Introduction to Costing
- Business Mathematics
- Principles of Microeconomics
- Business Computing II
- Foundation English II
- Academic Study Skills
- Introduction to Business Management
- Principles of Macroeconomics
- Principles of Finance
- Creative Thinking & Logic Skills
- Kor UNITEN
- Malay Language & Culture for Foreign Students



## I. FOUNDATION IN BUSINESS ADMINISTRATION *(JPT/BPP(R/010/03/0166)08/18)*

- Business Accounting
- Business Computing I
- Quantitative Analysis
- Foundation English I
- Islam/ Moral & Human Development 1
- Introduction to Costing
- Business Mathematics
- Principles of Microeconomics
- Business Computing II
- Foundation English II
- Academic Study Skills
- Introduction to Business Management
- Principles of Macroeconomics
- Principles of Finance
- Creative Thinking & Logic Skills
- Kor UNITEN
- Malay Language & Culture for Foreign Students

## DIPLOMA PROGRAMME:

### A. DIPLOMA IN MECHANICAL ENGINEERING *(JPT/BPP(N/521/4/0053)05/18)*

- Programming I
- Business Communication
- Islamic/ Moral Studies
- Mathematics 1
- Physics for Engineering
- Chemistry for Engineering
- Mathematics 2
- Manufacturing Processes
- Engineering Graphics and CAE
- Mechanics I: Statics
- Kepimpinan dan Keusahawanan
- Electrical Measurement Lab
- Circuit Theory I
- Mathematics 3
- Manufacturing Process Laboratory
- Thermodynamics
- Mechanics II: Dynamics
- Thermo fluids Laboratory
- Plant Engineering
- Mechanics of Fluids
- Mechanics of Materials Lab
- Mechanics of Materials
- Engineering Materials
- Industrial Training
- Malaysian Studies
- Machine Design
- Instrumentation and Control Lab
- Instrumentation and Control
- Project

## B. DIPLOMA IN ELECTRICAL ENGINEERING *(JPT/BPP(N/522/4/0034)05/18)*

- Business Communication
- Mathematics I
- Physics for Engineering
- Programming 1
- Islamic/ Moral Studies
- Circuit Theory I
- Chemistry for Engineering
- Mathematics II
- Kepimpinan dan Keusahawanan
- Mechanics I: Static
- Electrical Measurement Lab
- Circuit Theory II
- Digital Logic
- Digital Logic Lab
- Electronics
- Electronics Lab
- Mathematics III
- Engr. Graphics & Computer Application
- Industrial Automation
- Thermodynamic
- Introduction to Microcontrollers
- Microcontroller & Interfacing Lab
- Electrical Machinery
- Industrial Training
- Power Electronics
- Electrical Power Engineering Lab
- Power System
- Electrical Engineering Practice
- Malaysian Studies
- Project

## C. DIPLOMA IN COMPUTER SCIENCE *(JPT/BPP(N/481/4/0112)03/22)*

- Algebra and Calculus
- Statistic for Computer Science
- Business Communication
- Kepimpinan dan Keusahawanan
- Malaysian Studies
- Islamic/ Moral Studies
- IT Communication
- PC Maintenance and Troubleshooting
- Programming 1
- Introduction to Programming and Problem Solving Techniques
- Web Programming
- System Analysis and Design
- Discrete Structures
- System Administration
- Fundamentals of Software Engineering
- Computer Organisation
- Programming 2
- Multimedia Technologies
- Data Communication and Computer Networks
- Data Structures and Algorithms
- Database Systems
- Industrial Training
- Object-oriented Programming
- Fundamentals of Operating Systems
- Project
- Technical Elective

## D. DIPLOMA IN ACCOUNTANCY *(JPT/BPP(N/344/4/0063)03/22)*

- English for Business
- Islamic/ Moral Studies
- Principles of Finance
- Info. Tech. & Accounting Application I
- Business Mathematics
- Financial Accounting I
- Public Speaking and Presentation
- Business Law
- Business Statistics
- Computerised Accounting
- Malaysian Studies
- Intermediate Financial Accounting
- Principles of Management
- Business Communication
- Financial Accounting II
- Company Accounts I
- Cost Accounting
- Kepimpinan dan Keusahawanan
- Management Science
- Financial Management
- Taxation I
- Principles of Macroeconomics
- Accounting Theory
- Management Accounting
- Taxation II
- Investment Analysis
- Company Accounts II
- Principle of Microeconomics
- Auditing
- Industrial Training

## E. DIPLOMA IN FINANCE *(JPT/BPP(N/343/4/0026)03/22)*

- Islamic/ Moral Studies
- Principles of Finance
- Business Computing Skill
- Mathematics of Finance
- Principles of Financial Accounting
- Public Speaking and Presentation Skills
- Business Law
- Business Statistics
- Introduction to Managerial Accounting
- Principles of Marketing
- Financial Management
- Principles of Management
- Business Communication
- Malaysian Studies
- Company Law
- Principles of Microeconomics
- Corporate Finance
- Investment Analysis
- Financial Statement Analysis
- Financial Services & Institutions
- Principles of Macroeconomics
- Organisational Behaviour
- Management Science
- Financial Derivatives
- International Finance
- Islamic Financial & Capital Market
- Business Ethics
- Kepimpinan dan Keusahawanan
- Industrial Training

## F. DIPLOMA IN BUSINESS STUDIES *(JPT/BPP(N/340/4/0094)03/22)*

- Islamic/ Moral Studies
- Principles of Finance
- Business Computing Skill
- Business Mathematics
- Principles of Accounting
- Public Speaking and Presentation Skills
- Business Law
- Business Statistics
- Management Information System
- Principles of Marketing
- Principles of Financial Accounting
- Principles of Management
- Business Communication
- Malaysian Studies
- Company Law
- Principles of Microeconomics
- Kepimpinan dan Keusahawanan
- Management Science
- Marketing Management
- Basics of Entrepreneurship
- Principle of Macroeconomics
- Organisational Behaviour
- Consumer & Buyer Behaviour
- International Business
- Financial Management
- Human Resource Management
- Business Ethics
- Social Skills
- Industrial Training

## G. DIPLOMA IN CORPORATE MANAGEMENT WITH TAHFIZ (PART-TIME/ FULL-TIME)

*(JPT/BPP(N/345/4/0959)09/21)*

- Hifz Al-Quran
- Malaysian Studies
- Fiqh Ibadah
- Principal of Management
- Business Communication
- Bahasa Arab
- Usul Fiqh
- Principles of Financial
- Tajwid
- Tafsir Ayat Ahkam
- Basic Information Technology
- Business Accounting
- Business Law
- Aqidah Islamiyah
- Usul Tafsir
- Mustolah Hadith
- Fiqh Muamalat
- Kepimpinan dan Keusahawanan
- Qawaid Fiqhiyyah
- Corporate Communications Management
- Principles of Marketing
- Ulum al-Quran
- Akhlak dan Tasawuf
- Introduction to Malaysian Economy
- Corporate Management
- Introduction to Social Psychology
- Islamic Financial System
- Management of Dakwah

**UNIVERSITI  
TENAGA  
NASIONAL**



*The National Energy University*



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