

## **Bachelor of Science (Hons) Logistics and International Shipping**

KPT/JPS(KA10759)04/15

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The programme is aim to produce professionals who are well equipped to analyze and solve problems in the operations of logistics and shipping. Nowadays, logistics and shipping have moved to a higher agenda in an organization in every industry and sector. Senior management has begun to see the transportation function as an important competitive tool because logistics costs represent such a significant proportion of total cost that it is possible to make major cost reduction through fundamentally re-engineering logistics processes. Proper logistical procedures can lead a company to reduce cost and achieve efficiency by receiving greater responsiveness and reliability from suppliers; reduced lead time; just-in-time delivery and value-added services as a ways of gaining market share and increasing profitability. The field is highly specialized and sought after in Malaysia and throughout the continent making it a very bright and highly sought after field.

This academic programme equips students and offers them an opportunity to venture into the fast-growing and dynamic field of transportation and logistics. Students will be exposed to an array of courses which will equip them with multiple skills to handle the increasingly complex and multidisciplinary nature of shipping and logistics issues. Students who enrolled in the programme will have to prepare themselves to undergo rigorous training to acquire technical skills in computing, systems design, statistical modeling, economic and project evaluation in order to comprehend the problems of designing, managing and operating complicated transportation and logistics systems. Relevant undergraduate subjects include operations research, transportation, computer science, information technology, mathematics, economics, and management. The major subjects would focus on shipping and maritime issues and also the complexity involved in the marine and logistics field.

Students are required to undergo a period of industrial placement in manufacturing/ service industries. This experience will prepare students to perform their final year project and enhance their future employability.

## **1.0 Careers Prospects**

The current shortage of technical expertise in the field of Supply Chain Management in Malaysia will be addressed through this course. The launch of the 4 corridors throughout Malaysia has enhanced the visibility of the need for recognized Logisticians.

A degree in Logistics and International Shipping is excellent preparation for careers in

- Manufacturing: Procurement, packing, distribution, materials management, supply-demand planner.
- Retailing: Customer services, tracing, inventory management.
- Logistics Services provider: Logistics solutions, supply chain, warehousing, mailing room, sea freight, repacking, Third Parties Logistics (3PL).
- FMCG (Fast moving consumer goods): Warehousing, inventory control, supply chain, sea freight, import / export documentation and procedure.
- E-commerce: Online business unit.
- Banking: Operations, credit card delivery.
- Consultancies: Advisor on logistics management.

## **2.0 Objectives of the Course of Study**

The main objectives of this undergraduate programme are:

- To provide graduates with sufficient knowledge related to logistics and international shipping industries.
- To equip graduates with theoretical concepts in management, marketing, laws, economics in relation to logistics and international shipping.
- To provide graduates who are able to analyze issues and problems, model and implement appropriate solutions at macro and micro level in logistics & shipping operations and management.
- To produce competent graduates who will be able to lead the organizations they work in to greater strengths by applying analytical methods to enhance organizational competitiveness and efficiency in logistics and international shipping industries.

## **3.0 Programme Learning Outcomes**

At the end of the course, students should be able to:

- Acquire basic knowledge in mathematics and computing.
- Apply knowledge of logistics and shipping-related tasks satisfactorily in the workplace.
- Apply their theoretical knowledge into practical applications.
- Demonstrate critical thinking, leadership skills, ethical working attitude, and professional competencies to support managerial decision making in logistics and shipping industries.
- Apply and synergize the fundamentals of statistical and operations research techniques in the logistics operations.
- Handle logistic related tasks that require technological competency such as computer and internet knowledge.
- Handle job with competence and experience.

## 4.0 Strengths of the Programme

Our strengths in this program include:

- All UTAR programmes are approved by the Ministry of Higher Education (MOHE).
- The programme is varied, both in content and delivery methods. Lectures, tutorials and field trips are used extensively, but, in addition, students will work in smaller groups to discuss case studies, prepare for assessments, and work on presentations.
- All subjects are taught by able and experienced people who have vast experience in their respective logistics field which is rarely found elsewhere.
- With the establishment of 4 corridors (economic transformation) by the government, the need and lack of quality logisticians make this program the most sought after currently and the future.
- Students are able apply for membership in logistics and shipping operations professional bodies / associations locally and internationally: Ex. Chartered Institute of Logistics and Transport (CILT), Malaysian Institute of Logistics (MIL).

*Compared with other main competitors*

The main competitors for this program include:

- IPTAs – Universiti Utara Malaysia (UUM): Bac.of Business Management (Logistics & Transport) (Hons)
- IPTSs –UCSI University: BA (Hons) in Logistics Management – Malaysia University of Science and Technology (MUST):
  - BSc (Hons) in Transportation & Logistics with Entrepreneurship
  - BSc (Hons) in Supply Chain Management with Business Management

It should be noted though that these programs focus more on transport and logistics. However, UTAR's program is more unique and current as it encompasses the entire logistics structure including the very important element which is shipping and airport management. The program does not only cover logistics like other institutes but also includes the entire logistics scope that is shipping, airport management, and also statistical subjects that will equip our students with in depth knowledge of the industry. Hence, this programme will be recognised in the industry of logistics and shipping.

## 5.0 Vision of UTAR

The vision of UTAR is to be a premier university aspiring to achieve excellence in the advancement and dissemination of knowledge and expertise, emphasizing nurturing and holistic development of the individual towards nation building.

## 6.0 Mission of UTAR

- To be a leading university offering education of the highest standard in all significant fields aimed at fully developing the individual and better serving the nation. UTAR shall pursue a rigorous academic approach towards producing disciplined graduates critical in their thinking and dedicated to the quest of continuous learning and the pursuit of excellence.
- Committed to the advancement of knowledge. UTAR shall collaborate with international universities, research institutions, and industries in pushing the frontiers of the humanities and embarking on scientific discoveries, medical breakthroughs and technological innovations.
- Dedicated to inculcating among the UTAR community high moral values, appreciation of the rich diversity in a multiethnic society and an abiding concern for the betterment of all humankind.

## 7.0 The programme aims, objectives, and learning outcomes are in line with the university's vision and mission

| UTAR's Vision   | UTAR's Mission   | Programme Aims and Objectives   |
|---|--|---|
| To be a premier university aspiring to achieve excellence in the advancement and dissemination of knowledge and expertise | To be a leading university offering education of the highest standard in all significant fields aimed at fully developing the individual at better serving the nation. UTAR shall pursue a rigorous academic approach towards producing disciplined graduates critical in their thinking and dedicated to the quest of continuous learning and the pursuit of excellence | <ul style="list-style-type: none"><li>♦ To produce professionals who are well equipped to analyze and solve problems in the operations of logistics and shipping.</li><li>♦ To provide graduates with sufficient knowledge related to logistics and international shipping industries.</li><li>♦ To provide graduates who are able to analyze issues and problems, model and implement appropriate solutions at macro and micro level in logistics &amp; shipping operations and management.</li><li>♦ To produce competent graduates who will be able to lead the organizations they work in to greater strengths by</li></ul> |

| UTAR's Vision  | UTAR's Mission  | Programme Aims and Objectives  |
|--|---|--|
|  |   | <p>applying analytical methods to enhance organizational competitiveness and efficiency in logistics and international shipping industries.</p>  |
| <p>To be a premier university aspiring to achieve excellence in the advancement and dissemination of knowledge and expertise</p> | <p>Committed to the advancement of knowledge. UTAR shall collaborate with international universities, research institutions, and industries in pushing the frontiers of the humanities and embarking on scientific discoveries, medical breakthroughs and technological innovations</p> | <ul style="list-style-type: none"> <li>♦ To provide graduates with sufficient knowledge related to logistics and international shipping industries.</li> <li>♦ To equip graduates with theoretical concepts in management, marketing, laws, economics in relation to logistics and international shipping.</li> </ul>  |
| <p>Emphasising nurturing and holistic development of the individual towards nation building</p>                                  | <p>Dedicated to inculcating among the UTAR's community high moral values, appreciation of the rich diversity in a multiethnic society and an abiding concern for the betterment of all humankind.</p>   | <ul style="list-style-type: none"> <li>♦ To produce professionals who are well equipped to analyze and solve problems in the operations of logistics and shipping.</li> <li>♦ To provide graduates who are able to analyze issues and problems, model and implement appropriate solutions at macro and micro level in logistics &amp; shipping operations and management.</li> </ul> |

## 8.0 Study Scheme for the Programme

### Bachelor of Science (Hons) Logistics and International Shipping

| Year 1                    |                                 |           |                           |  |           |                           |   |          |
|---------------------------|---------------------------------|-----------|---------------------------|--|-----------|---------------------------|---|----------|
| Trimester I               |                                 |           | Trimester II              |  |           | Trimester III             |   |          |
| Code                      | Unit                            | Credit    | Code                      | Unit   | Credit    | Code                      | Unit  | Credit   |
| UALE1063                  | English for Science             | 3         | LANGXXX3                  | National Language or Other Language                | 3         | MPWE02                    | MPW Elective II                             | 3        |
| UBMM1013                  | Mnangement Principles           | 3         | UBAF1043                  | Business Accounting                                | 3         | UALL1063                  | Oral Communication and Interpersonal Skills | 3        |
| UCCD1003                  | Programming Concepts and Design | 3         | UBTM1013                  | Principles of Marketing                            | 3         | USCC10X2                  | Co-Curricular Units                         | 2        |
| UCCM2233                  | Statistics                      | 3         | UCCM2243                  | Applied Statistics                                 | 3         |                           |   |          |
| UDPL1003                  | Calculus                        | 3         | UDPL1043                  | Introduction to Operations Research                | 3         |                           |   |          |
| UDPL1013                  | Linear Algebra                  | 3         | UDPL1113                  | Introduction to Logistics and Distribution Systems | 3         |                           |   |          |
| <b>TOTAL CREDIT VALUE</b> |                                 | <b>18</b> | <b>TOTAL CREDIT VALUE</b> |  | <b>18</b> | <b>TOTAL CREDIT VALUE</b> |   | <b>8</b> |

\*For Malaysian only; \*\*For Non-Malaysian only

\*\*\* Students who are exempted from taking MQA compulsory subjects, MPW2113 Bahasa Kebangsaan (A) / MPW2123 Bahasa Kebangsaan (B), are required to take any one of the following language subjects such as UALB1003 Introduction to German Language, UALJ2013 Introduction to Japanese, UALF1003 Introduction to French, UALC1003 Introduction to Chinese Language I, UALT1003 Introduction to Thai Language or UALM1003 Introduction to Tamil Language.

| Year 2                    |   |           |                           |  |           |                           |                     |          |
|---------------------------|---|-----------|---------------------------|--|-----------|---------------------------|---------------------|----------|
| Trimester I               |   |           | Trimester II              |  |           | Trimester III             |                     |          |
| Code                      | Unit                                    | Credit    | Code                      | Unit   | Credit    | Code                      | Unit                | Credit   |
| UDPL1123                  | Logistics Information Systems           | 3         | MPW2133                   | Pengajian Malaysia                           | 3         | UDPL2006                  | Industrial Training | 6        |
| UDPL2033                  | Sample survey and sampling techniques   | 3         | UDPL2133                  | International Maritime Logistics and Control | 3         |                           |                     |          |
|                           |   |           | UDPS2323                  | Warehousing and Inventory Control            | 3         |                           |                     |          |
| UDPL2043                  | Project scheduling and network modeling | 3         | UDPS2333                  | Transport Planning and Demand Analysis       | 3         |                           |                     |          |
| UDPL2213                  | Shipping Organization and Management    | 3         | UDPL2343                  | Seaport Management                           | 3         |                           |                     |          |
| UDPL2313                  | Airport Management                      | 3         | UDPL2413                  | International and Domestic Law of Carriage   | 3         |                           |                     |          |
| <b>TOTAL CREDIT VALUE</b> |   | <b>15</b> | <b>TOTAL CREDIT VALUE</b> |  | <b>18</b> | <b>TOTAL CREDIT VALUE</b> |                     | <b>6</b> |

| Year 3                    |  |           |                           |  |           |                           |   |          |
|---------------------------|--|-----------|---------------------------|--|-----------|---------------------------|---|----------|
| Trimester I               |  |           | Trimester II              |  |           | Trimester III             |   |          |
| Code                      | Unit   | Credit    | Code                      | Unit   | Credit    | Code                      | Unit  | Credit   |
| UBMB3013                  | International Business                         | 3         | UBFF3243                  | International Finance                          | 3         | BLIFE01                   | Elective                                    | 3        |
| UBMB2013                  | Operations Management                          | 3         | UBTD2033                  | Logistics Management                           | 3         | UBMM1011                  | Sun Zi's Art of War and Business Strategies | 1        |
| UBMB3013                  | Strategic Management                           | 3         | UDPL3186                  | Research Project                               | 3         | UDPL3186                  | Research Project                            | 3        |
| UDPL2353                  | Export and Import Procedures and Documentation | 3         | UDPL3233                  | International Shipping and Maritime Operations | 3         |                           |   |          |
| UDPL2423                  | Maritime Economics and Policy                  | 3         | UDPL3233                  | Trends and Issues in International Shipping    | 3         |                           |   |          |
| UDPL3133                  | Queuing Model and Simulation                   | 3         |                           |  |           |                           |   |          |
| <b>TOTAL CREDIT VALUE</b> |  | <b>18</b> | <b>TOTAL CREDIT VALUE</b> |  | <b>15</b> | <b>TOTAL CREDIT VALUE</b> |   | <b>6</b> |

**TOTAL ACADEMIC CREDITS = 121**  
**CO-CURRICULUM CREDIT = 2**  
**TOTAL CREDITS =123**

**BLIFE01Core Group - Choose 1 unit**

UBAI 2013- Managing Information Systems  
 UBMM2013 - Human Resource Management  
 UBMM3023 - Organisational Development  
 UCCD3003 - Electronic Commerce



## 9.0 Is this Programme for me?

Yes, if you are someone who is self-motivated, able to work under pressure in order to meet any due-date. In addition, you should have high determination and you are an independent person who can work with less supervision. For example, you may need to handle customer enquiries on the shipment status, to make decision whether to hold the shipment or to proceed it by batches, to arrange temporary or additional manpower to meet the due date etc. The task is usually critical and quick in responding is indispensable in this industry. Nevertheless, the return is high in this field as more experience you gain throughout this career, the better prospect you will expect to have.

The students should be analytical and critical, with the ability to size up situations. The need to radically alter the way of thinking through “thinking out of the box” is much practiced and sought after.

## 10.0 Entry Requirement

The entry requirements currently for the Logistics program are as follows. Please be noted that students with other relevant or different progression routes will also be considered.

Sijil Tinggi Persekolahan Malaysia (STPM) with minimum Principal Passes in Two (2) subjects (preferably including Mathematics) and credit in SPM Mathematics.

*Or* “A” Levels with minimum passes in Two (2) of the relevant subjects (including Mathematics) and credit in SPM Mathematics.

*Or* South Australian Matriculation (SAM) with TER (*Tertiary Entrance Rank*) 70, and Grade B in two (2) of the relevant subjects (including Mathematics).

*Or* Canadian Pre-University (CPU) with an average of 70% in two (2) of the relevant subjects, (including Mathematics).

*Or* Unified Examination Certificate (UEC) with an average of Grade B in six (6) of the relevant subjects (including Mathematics).

*Or* Matriculation Certificate, Ministry of Education, Malaysia with CGPA 2.5 or above.

*Or* Foundation in Science, Universiti Tunku Abdul Rahman (UTAR) with minimum CGPA 2.00.

*Or* Diploma qualification, Tunku Abdul Rahman College (KTAR) with minimum CGPA 2.00.

*Or* Foundation qualification from other Institutions of Higher Learning with minimum CGPA 2.00.

*Or* Diploma qualification from other Institutions of Higher Learning with minimum CGPA 2.

*Or* Other equivalent qualifications recognized by the Malaysian Government.

## 11.0 Comments by External Examiners / Industry Advisors / Collaborators / Visitors on the Programme

"The course curriculum is tailored made based on the latest industry requirements"

Dr Teo Bee Yap, industry advisor of B.Sc. (Hons) Logistics and International Shipping & Executive Director Skynet Worldwide (M) Sdn Bhd.

"Logistics education is almost invisible in the general public, but it is definitely indispensable in any developing and/ or developed countries. The modules of B.Sc. (*Logistics & International Shipping*) of UTAR are well developed, and are relevant to practical means in the industry"

Chang Kah Loon, industry advisor of B.Sc. (Hons) Logistics and International Shipping & President of The Society of Logisticians Malaysia (LogM)  
(Pertubuhan Pakar Logistik Malaysia)

"Well balanced logistics programme which focuses on the laying the foundations of principles and yet prepares for the work place."

External examiner of B.Sc. (Hons) Logistics and International Shipping & Fellow of The Society of Logisticians, Malaysia, Chief Editor of The Journal of Logistics and Sustainable Transport, Director, Economics Executive Programme, Department of Economics, Deputy Director, Singapore Centre for Applied and Policy Economics, National University of Singapore.

## 12.0 Student's Testimonial / Success Story to Share

"Through this course I had learnt about many skills and knowledge which will help in my future career. All these skills and knowledge had increased my competency. Other than that, the subject that I learnt is practical and prepared me to be involved in the wide field of logistic career." Ng Peng Sheng

"This program had provided us with up-to-date and in-depth knowledge of shipping and logistics. Through this course, we had been exposed to various theoretical concepts in management, marketing, accounting, law, finance and other related fields which greatly equipped us with a wide knowledge regarding shipping and logistics within a general broad perspective of international transport and trade, and with the skills that necessary to be performed in our future working environment." Andreen Lee Ann Qi

"在我还没接触到这个科系时，我觉得它这是培养蓝领工人的科系。。当我参与这个由拉曼大学所推出的物流与运输管理科系让我发觉物流与运输管理是一项很神圣的东西,几乎每个领域都需要这方面的人才。。。拉曼大学录取不同背景的讲师灌输他们的经验与知识给我们.在这个科系了它让我学会了很过不同领域的东西例如：marketing, accounting, finance , management and so on. 它让我们有机会接触这领域的佼佼者(Industry Advisor, field trip)让我改变一生。。谢谢。” Wong Jun Fatt