
Bachelor of Science (Equine Management)

BACHELOR OF SCIENCE (EQUINE MANAGEMENT)

PROGRAMME SPECIFICATIONS

The rapid development of equine industry in Malaysia has demanded more experts in the field of equine science and equine management. Universiti Teknologi Malaysia (UTM) aspires to be the pioneer among higher learning institutions in Malaysia and in the South East Asia region to promote equine sports and equestrian activities among students as well as the public to develop interest and passion for the sports.

The curriculum structure for Bachelor of Science (Equine Management) has taken into consideration requirements and recommendations of various equine associations, equine establishments and especially the Malaysian Equine Council (MEM). The curriculum will mainly cover the basic theories of equine science and equine management whilst developing the students with practical skills, good communication, leadership quality as well as entrepreneurship.

Methods of teaching and learning is through lectures, tutorials, practical work, group discussions, individual presentations, group presentations and industrial training. The percentage of the study methods being delivered are 72% teaching courses, 18% practical, 6% industrial training, 4% of individual and group projects.

General Information

1. Awarding Institution	Universiti Teknologi Malaysia
2. Teaching Institution	Universiti Teknologi Malaysia
3. Programme Name	Bachelor of Science (Equine Management)
4. Final Award	Bachelor of Science (Equine Management)
5. Programme Code	SMBQ-03
6. Professional or Statutory Body of Accreditation	Malaysian Qualification Agency (MQA)
7. Language(s) of Instruction	English and Bahasa Melayu
8. Mode of Study (Conventional, distance learning, etc)	Conventional
9. Mode of operation (Franchise, self-govern, etc)	Self-governing
10. Study Scheme (Full Time/Part Time)	Full Time and Part Time
11. Study Duration	Minimum: 4 years Maximum: 6 years

Course Classification

No.	Classification	Credit Hours	Percentage
i.	General University Course	23	17.3%
ii.	Programme Core Course	70	52.6%
iii.	Programme Elective Course (Compulsory)	40	30.1%
	Total	133	100%
Total Credit Hours to Graduate		133 credit hours	

Programme Educational Objectives (PEO)

After having exposed to 3 to 5 years working experience, our graduates should become professionals who demonstrate the following competencies:

Code	Intended Educational Objectives
PEO1	Skilled and competent in equine science and equine management globally and are able to contribute to the development of the country's equine industry.
PEO2	Highly capable in project management specifically related to the equine industry and practice.
PEO3	Prominent leaders or members of equine teams while being creative, innovative, and are able to adapt to the equine industry.
PEO4	Proficient in communicating effectively within the equine industry network and socially responsible while being involved with high ethical standards.

Programme Learning Outcomes (PLO)

After having completed the programme, graduates should be able to demonstrate the following competencies:

Code	Intended Learning Outcomes
PLO1	Ability to understand and apply knowledge of equine science and

	equine management
PLO2	Ability to analyse and manage resources related to the field of equine
PLO3	Ability to solve problems creatively using knowledge and technical skills in equine science and equine management.
PLO4	Ability to communicate effectively in both written and verbal communication.
PLO5	Ability to think creatively and critically in solving problems related to equine field.
PLO6	Demonstrate confidence to act effectively individually or in a team.
PLO7	Demonstrate ability to practice lifelong learning.
PLO8	Ability to identify business opportunities and demonstrate entrepreneurship skills.
PLO9	Demonstrate responsible behaviour and good leadership skills.
PLO10	Demonstrate professionalism and good ethics.

Entry Requirements

The minimum qualifications for candidates who intend to do a Bachelor of Science (Equine Management) are as follows:

- 4) Minimum results based on **the Malaysian High School Certificate (STPM)** (results would be based on the general requirements as well as other conditions as the pre-requisites for the programme set by the university).

University General Requirements:

- iv. Passed Malaysian Certificate Examination (SPM) or equivalent with a credit in Bahasa Melayu/Bahasa Malaysia or a credit in Bahasa Melayu/Bahasa Malaysia, July paper
- v. Passed MOEM Matriculation/UM Science Foundation with CGPA of at least 2.00
- vi. Obtained at least a Band 2 in Malaysia University English Test (MUET).

Special Requirements for the Programme

- Passed with a credit in Mathematics at SPM level or equivalent
- Obtained at least a Grade B- (CGPA 2.67) Biology at Matriculation/Foundation level
- Passed with at least Grade C+ (2.33) in Matriculation/Foundation in any TWO (2) the following subjects: Chemistry, Mathematics and Physics
- Not having any health problems that will prevent student from taking up practical work

- 5) Minimum requirements for **Matriculation Certificates (KPM) / Asasi Sains UM** (fulfil the general requirements set by the university as well as other conditions of the programme).

General University Requirements

- Passed Malaysian Certificate Examination (SPM) or equivalent with a credit in Bahasa Melayu/Bahasa Malaysia or a credit in Bahasa Melayu/Bahasa Malaysia, July paper
- Passed MOEM Matriculation/UM Science Foundation with CGPA of at least 2.00
- Obtained at least a Band 2 in Malaysia University English Test (MUET)

Special Requirements of the Programme:

- Passed with a credit in Mathematics at SPM level or equivalent
- Obtained at least a Grade B- (CGPA 2.67) Biology at Matriculation/Foundation level
- Passed with at least Grade C+ (2.33) in Matriculation/Foundation in any TWO (2) the following subjects: Chemistry, Mathematics and Physics
- Not having any health problems that will prevent student from taking up practical work

6) Minimum qualifications for students with **Certificates/Diplomas**

(fulfill the general requirements set by the university as well as specific requirements of the programme).

General University Requirements

- Passed Malaysian Certificate Examination (SPM) or equivalent with a credit in Bahasa Melayu/Bahasa Malaysia or a credit in Bahasa Melayu/Bahasa Malaysia, July paper
- Obtained a Diploma or equivalent qualification recognized by the Malaysian Government and approved by the Senate,

or

- Passed STPM examination in 2009 or before and obtained the following:
 - Grade C (CGPA 2.00) in General Paper; and
 - Grade C (CGPA 2.00) in TWO (2) other subjects

or

- Passed Matriculation Examination in 2009 or before and obtained at least CGPA 2.00
- Obtained at least a Band 2 in Malaysia University English Test (MUET)

Special Requirements of the Programme:

- Obtained a Diploma related to the applied course from UTM or equivalent with at least CGPA 2.50

or

- For those who obtained a CGPA 2.50 but have at least TWO (2) years working experience in related field are eligible to apply; and
- Passed with a credit in Mathematics at SPM level

or

- Obtained at least Grade C in any of Mathematics subjects

Note :-

Year of entry and duration of study will be based on the credit exemptions and credit transfer awarded by the university.

Specific Programme Requirements:

Passed fitness test and interview

and

Do not have any physical disability.

International Students

University Basic Entry Requirements:

The general minimum requirement for entry into a Bachelor's Degree Programme is as follows:

General Certificate of Education (GCE) 'A' Level, Diploma in the related field or other equivalent pre-university examinations;

or

Any other certificate that is recognized by Senat of the University equivalent to the above;

or

participate in the bridging program organized by the university

and

Score at least 5.5 in IELTS, 500 in TOEFL or 79 in IBT.

Award Requirements

To graduate, students must:

- Attain a total of not less than 133 credit hours with a minimum CGPA of 2.0.
- Professional Skill Certificate (PSC)
 1. How to Get Yourself Employed (HTGYE)
 2. ISO 9001: 2008 Quality Management System Requirement
 3. Occupational Safety and Health Awareness (OSHA)
 4. How to Manage Your Personal Finance (HTMYPF)
 5. Test of English Communication Skills for Graduating Students (TECS):
 - (i) TECS 1001 (Paper I – Oral Interaction)
 - (ii) TECS 1002 (Paper II - Writing)

CROSS-CAMPUS PROGRAMME

Students are given the opportunity to enrol in a few courses in participating universities. The grades and credits obtained during this period are transferable.

The programme is open to undergraduates who have undergone a minimum of two semesters of their studies with the following conditions:

- (i) The total number of credits allowed to be taken is between twelve (12) and eighteen (18) credits only.
- (ii) The student should hold a minimum CGPA of 3.50 and Band 4 MUET at the time of application.
- (iii) The student is not a residence of or originated from the state where the university that he/she intends to attend is located.

The student will not be charged tuition fees by the participating university but shall pay the regular tuition fees at UTM. However, should the participating university provide accommodation, the student will need to pay accommodation fees.

PROFESSIONAL SKILLS CERTIFICATE (PSC)

Students are given a chance to enrol in certificate programmes offered by the Centres of Excellence in the University and the School of Professional and Continuing Education (SPACE) during semester breaks

1. How to Get Yourself Employed (HTGYE)
2. ISO 9001: 2008 Quality Management System Requirement (ISO)
3. Occupational Safety and Health Awareness (OSHA)
4. How to Manage Your Personal Finance (HTMYPF)
5. Test of English Communication Skills for Graduating Students (TECS):
 - (i) TECS 1001 (Paper I – Oral Interaction)
 - (ii) TECS 1002 (Paper II - Writing)

COURSE MENU

YEAR 1 (SEMESTER 1)			
Code	Courses	Credit	Pre-Req
SMBQ 1013	Introduction to Equine Science and Industry	3	
SPPR 2922	Physical Strength and Conditioning	2	
SMBQ 1023	Introduction to Management	3	
SMBQ 1093	Basic Horse Handling	3	
SMBQ 1282	Practical Experience in Equine Farm Management I	2	
UHAS	Malaysian Dynamics (Local)		

1172		2	
ULAM 1012	Malay Language Communication 2 (International)		
ULAB 1122	English for Academic Communication	2	
TOTAL CREDIT HOURS		17	

YEAR 1 (SEMESTER 2)			
Code	Courses	Credit	Pre-Req
SMBQ 1102	Sports Psychology	2	
SMBQ 1112	Foundation of Equine Performance	2	
SMBQ 1203	Equine Anatomy and Physiology	3	
SMBQ 1033	Farm and Stable Management	3	
SMBQ 1292	Practical Experience in Equine Farm Management II	2	
UHAK 1012	Graduate Success Attributes	2	
UICI 1012	Islamic and Asian Civilization (TITAS) - Local	2	
UHAK 1022	Malaysian Studies (International)		
TOTAL CREDIT HOURS		16	

YEAR 2 (SEMESTER 1)			
Code	Courses	Credit	Pre-Req
SMBQ 2122	Horse Riding I: Endurance	2	
SMBQ 2213	Basic Equine Healthcare and Diseases	3	
SMBQ 2043	Commercial Equine Facilities Design and Management	3	
SMBQ 2302	Practical Experience in Equine Farm Management III	2	
UICL 2**2	Elective of Knowledge Enhancement	2	
UHAK 2**2	Elective of Soft Skills		
ULAB 2122	Advanced Academic English Skills	2	ULAB 1122
UKQ* 2**2	Co-curriculum and Service Learning	2	
SPPR 4842	Training Method	2	
TOTAL CREDIT HOURS		18	

YEAR 2 (SEMESTER 2)			
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Code	Courses	Credit	Pre-Req
SMBQ 2053	Equine Business Management	3	
SMBQ 2062	Principles of Risk Management	2	
SMBQ 2133	Horse Behaviour and Training	3	
SMBQ 2142	Horse Riding II: Dressage	2	
SMBQ 2223	Equine Disease Management	3	
SMBQ 2312	Practical Experience in Equine Farm Management IV	2	
UICL 2302	Sciences and Technology Thinking	2	
TOTAL CREDIT HOURS		17	

YEAR 3 (SEMESTER 1)			
Code	Courses	Credit	Pre-Req
SMBQ 3243	Equine Nutrition	3	
SMBQ 3233	Equine Lameness and Conditioning	3	
SMBQ 3152	Horse Riding III: Jumping	2	
SMBQ 3322	Practical Experience in Equine Farm Management V	2	
SMBQ 3073	Event and Competition Management	3	
UHAK 1032	Introduction to Entrepreneurship	2	
TOTAL CREDIT HOURS		15	

YEAR 3 (SEMESTER 2)			
Code	Courses	Credit	Pre-Req
SMBQ 3302	Research Methodology	2	
SMBQ 3183	Equestrian Motion Analysis	3	
SMBQ 3263	Equine Quarantine	3	
SMBQ 3332	Practical Experience in Equine Farm Management VI	2	
ULAB 3162	English for Professional Purposes	2	ULAB 2122
ULA* 1112	Elective Foreigner Language	2	
TOTAL CREDIT HOURS		14	

SHORT SEMESTER

Code	Courses	Credit	Pre-Req
SMBU 4368	Industrial Training	8	
TOTAL CREDIT HOURS		8	

YEAR 4 (SEMESTER 1)			
Code	Courses	Credit	Pre-Req
SMBQ 4163	Riding Instructor Training	3	
SMBQ 4173	Equine Evaluation and Selection	3	
SMBQ 4193	Equine for Disabled	3	
SMBQ 4082	Equine Seminar	2	
SMBQ 4342	Practical Experience in Equine Farm Management VII	2	
SMBU 4102	Undergraduate Project I	2	
TOTAL CREDIT HOURS		15	

YEAR 4 (SEMESTER 2)			
Code	Courses	Credit	Pre-Req
SMBQ 4253	Equine Therapy and Rehabilitation	3	
SMBQ 4273	Equine Reproduction and Breeding Technologies	3	
SMBQ 4352	Practical Experience in Equine Farm Management VIII	2	
SMBU 4114	Undergraduate Project II	4	
UKQE 3001	Extracurricular Experiential Learning (ExCEL)	1	
TOTAL CREDIT HOURS		13	

Elective of Generic Skill Courses

Code	Courses	Credit	Pre-req
UHAK 2012	Leadership in Organization	2	
UHAK 2022	Critical and Creative Thinking	2	
UHAK 2032	The Human Side of Knowledge Management	2	
UHAK 2042	Development and Global Issues	2	
UHAK	Guidance and Counselling	2	

2052			
UHAK 2062	Psychology of Adjustment	2	
UHAK 2072	Fundamental of Intellectual Property	2	
UHAK 2082	Law of Entrepreneur	2	
UHAK 2092	Entrepreneurship and Enterprise Development	2	
UHAK 2102	Social Entrepreneurship	2	
UHAK 2112	Engineering Communication	2	
UHAK 2122	Human Communication	2	
UHAK 2132	Professional Ethic	2	

Elective of Knowledge Enhancement Courses

Code	Courses	Credit	Pre-req
UICL 2012	Al-Qur'an and Human Civilization	2	
UICL 2032	Life institution and Sustainable Development	2	
UICL 2042	Future Study	2	
UICL 2052	Family Law	2	
UICL 2062	World Science	2	
UICL 2072	Sustainable Economy	2	
UICL 2082	Practices and Concept of Halal Management	2	
UICL 2092	Philosophy of Islamic Art	2	
UICL 2102	Islam and Health	2	
UICL 2132	Islamic Entrepreneurship	2	

Elective of Language Skills Courses

Code	Courses	Credit	Pre-req
ULAA 1112	Arabic Language	2	
ULAJ 1112	Japanese Language 1	2	
ULAC 1112	Mandarin Language 1	2	

ULAF 1112	France Language	2	
ULAN 1112	Persian Language	2	

Total Credits Earned: 133

GRADUATION CHECKLIST

To graduate, students must pass all the stated courses in this checklist. It is the responsibility of the students to ensure that all courses are taken and passed. Students who do not complete any of the course are not allowed to graduate.

No.	Code	Course	Credit Earned (Jkd)	Credit Count-Ed (Jkk)	Tick (✓) If Passed
Equine Management Courses					
1	SMBQ 1013	Introduction to Equine Science and Industry	3	3	
2	SPPR 2922	Physical Strength and Conditioning	2	2	
3	SMBQ 1023	Introduction to Management	3	3	
4	SMBQ 1093	Basic Horse Handling	3	3	
5	SMBQ 1282	Practical Experience in Equine Farm Management I	2	2	
6	UHAS 1172	Malaysian Dynamics (Local)	2	2	
7	ULAM 1012	Malay Language Communication 2 (International)			
8	ULAB 1122	English for Academic Communication	2	2	
9	SMBQ 1102	Sports Psychology	2	2	
10	SMBQ 1112	Foundation of Equine Performance	2	2	
11	SMBQ 1203	Equine Anatomy and Physiology	3	3	
12	SMBQ 1033	Farm and Stable Management	3	3	
13	SMBQ 1292	Practical Experience in Equine Farm Management II	2	2	

14	UHAK 1012	Graduate Success Attributes	2	2	
15	UICI 1012	Islamic and Asian Civilization (TITAS) – Local	2	2	
16	UHAK 1022	Malaysian Studies (International)			
17	SMBQ 2122	Horse Riding I: Endurance	2	2	
18	SMBQ 2213	Basic Equine Healthcare and Diseases	3	3	
19	SMBQ 2043	Commercial Equine Facilities Design and Management	3	3	
20	SMBQ 2302	Practical Experience in Equine Farm Management III	2	2	
21	UICL 2**2	Elective of Knowledge Enhancement	2	2	
22	UHAK 2**2	Elective of Soft Skills			
23	ULAB 2122	Advanced Academic English Skills	2	2	
25	UKQ* 2**2	Co-curriculum and Service Learning	2	2	
27	SPPR 4842	Training Method	2	2	
28	SMBQ 2053	Equine Business Management	3	3	
29	SMBQ 2062	Principles of Risk Management	2	2	
30	SMBQ 2133	Horse Behaviour and Training	3	3	
31	SMBQ 2142	Horse Riding II: Dressage	2	2	
32	SMBQ 2223	Equine Disease Management	3	3	
33	SMBQ 2312	Practical Experience in Equine Farm Management IV	2	2	
34	UICL 2302	Sciences and Technology Thinking	2	2	
35	SMBQ 3243	Equine Nutrition	3	3	
36	SMBQ 3233	Equine Lameness and Conditioning	3	3	
37	SMBQ 3152	Horse Riding III: Jumping	2	2	
38	SMBQ 3322	Practical Experience in Equine Farm Management	2	2	

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39	SMBQ 3073	Event and Competition Management	3	3	
40	UHAK 1032	Introduction to Entrepreneurship	2	2	
41	SMBQ 3302	Research Methodology	2	2	
42	SMBQ 3183	Equestrian Motion Analysis	3	3	
43	SMBQ 3263	Equine Quarantine	3	3	
44	SMBQ 3332	Practical Experience in Equine Farm Management VI	2	2	
45	ULAB 3162	English for Professional Purposes	2	2	
46	ULA* 1112	Elective Foreigner Language	2	2	
47	SMBU 4368	Industrial Training	8	HL	
48	SMBQ 4163	Riding Instructor Training	3	3	
49	SMBQ 4173	Equine Evaluation and Selection	3	3	
50	SMBQ 4193	Equine for Disabled	3	3	
51	SMBQ 4082	Equine Seminar	2	2	
52	SMBQ 4342	Practical Experience in Equine Farm Management VII	2	2	
53	SMBU 4102	Undergraduate Project I	2	2	
54	SMBQ 4253	Equine Therapy and Rehabilitation	3	3	
55	SMBQ 4273	Equine Reproduction and Breeding Technologies	3	3	
56	SMBQ 4352	Practical Experience in Equine Farm Management VIII	2	2	
57	SMBU 4114	Undergraduate Project II	4	4	
58	UKQE 3001	Extracurricular Experiential Learning (ExCEL)	1	1	
TOTAL CREDIT TO GRADUATE			133	125	
Other Compulsory Courses					

Professional Skills Certificate (PSC) (UTMSPACE/ School)			
1	GLL 1001	How to Get Your Self Employed	
2	GLL 1029	ISO 9001:2008 Quality Management System Requirement	
3	GLL 1040	Occupational Safety, Health and Environment	
4	GLL 1041	How to Manage Your Personal Finance	
Test of English Communication Skill (TECS) (Language Academy, Faculty of Social Sciences and Humanities)			
1	TECS 1001	Oral Interaction	
2	TECS 1002	Writing	

COURSE SYNOPSIS

CORE COURSES

SMBQ 1013 Introduction to Equine Science And Industry

This course in general acts as an introduction to the students to get an overview of the equine sports and industry. Students will learn the economic aspect of equine as well as the different entities that define the equine industries as a whole. Students will be able to evaluate and analyse domestic equine industry in terms of its impact and economic performance

SMBQ 1033 Farm and Stable Management

Management of horse stable requires particular skills and understanding. The horse is a complex animal whose psychology is vital to its effective husbandry. The routine of this husbandry is vital, as is the understanding of different methods. The basic principles of horse care are fundamental and underpin the requirements of whichever area of the horse industry the student finds employment.

SMBQ 1093 Basic Horse Handling

This course is an introduction to the basic skills necessary for daily care and maintenance of the horse. Topics include safety, stall care, feeding and basic nutrition, handling and restraint, vices, common cause and treatment of lameness, equine emergencies and first aid, bandaging, basic medications, and trailer safety. Preventative health care, deworming and vaccination programs, and dental and farrier care are introduced.

SMBQ 1023 Introduction to Management

The aim of this course is to provide a general introduction in management to students whose field of study is not management, but whose careers are likely to have a significant managerial component. Students will be able to understand the concepts and language of management and to be aware of the relationships among all management disciplines. This course aims to provide you with an overview of the role of management thereby giving you an appreciation of the key issues associated with achieving purposeful activity within organisations.

SMBQ 1102 Sports Psychology

This course aims to prepare students with the knowledge in sports psychology in relation to the equine industry. This course exposes the students on how psychological factors affect performance and how participation in equine sports and exercise affect psychological and physical factors. In addition, students are also able to discuss the instruction and training of psychological skills for performance improvement when applied or working with athletes, coaches, and parents regarding injury, rehabilitation, communication, team building, and career transitions.

SMBQ 1112 Foundation of Equine Performance

The aim of this course is to further previous knowledge gained in other courses and recognise the qualities needed in a competition horse. This course also aims to develop an understanding on the foundation of equine performance in order to produce and sustain performance horses at a competitive level.

SMBQ 1203 Equine Anatomy & Physiology

This module aims for students to understand and clearly define the anatomical features of the horse and develop the ability to identify the anatomy structures of the musculoskeletal system. Students will develop the ability to identify anatomical features and relate its structure to function. This module also aims to build the knowledge and understanding of the mechanisms of energy metabolism and means of monitoring performance. An in-depth understanding of equine physiology is vital when training horses to a high level whilst minimising the risk of injury.

SMBQ 2043 Commercial Equine Facilities Design and Management

This course focuses on the design and construction of various types of private and commercial equine facilities. Topics include property layout, construction options, equipment, hay production and pasture management, water and waste management, zoning requirements, environmental impact of stables, legal obligations, contracts and liability, and economics and business management of facilities.

SMBQ 2053 Equine Business Management

This course aims to address the types of organisation that require commercial managers within the Equine sector and the responsibilities that are fundamental to the role of a commercial manager. The course addresses the complexity of the equine market and the influence this will have on the strategic aims of a business or the entry to market of new business. The course also addresses the relevance of sustainability within a commercial context.

SMBQ 2062 Principles of Risk Management

This course aims to prepare students the knowledge in risk management for equine industry. This course exposes the students with the principles of risk management, risk management strategies, identifying the risks, assessing the risks, and managing the risk that will occur in various parties such as riders, staffs, horse, equipment, facilities and managing the incidents. Students are also able to discuss about the issues related to managing the risk in equine industry.

SMBQ 2122 Horse Riding I Endurance

This course focuses on the knowledge and development of basic skills pertaining to Endurance riding. Students will acquire knowledge and understanding which covers the aspect of the horse as well as the rider on the subject of Endurance riding. Students will then develop the ability and skills required to be able to conduct Endurance riding with a sound base of knowledge to reflect equine performance.

SMBQ 2133 Horse Behaviour and Training

This course focuses on understanding and determining the horse behaviour. Students will acquire the knowledge and skills to identify and observe the horse behaviour to ensure well-being and soundness of the horse. Modern day management of horses often result in equine behavioural problems and these problems have a wide impact on equine welfare. Developing an understanding of innate equine behaviour and methods of behavioural training could vastly improve equine welfare for the horses concerned. This module aims to develop application of training techniques as a solution to given behavioural problems. This will be achieved through developing an understanding of a range of training methods and behavioural modification techniques.

SMBQ 2142 Horse Riding Ii Dressage

This course focuses on the knowledge and development of basic skills pertaining to Dressage. Students will acquire knowledge and understanding which covers the aspect of the horse as well as the rider on the subject of Dressage. Students will develop the skills required to be able to conduct Dressage with a sound base of knowledge to reflect equine performance.

SMBQ 2213 Basic Equine Healthcare and Disease

This course aims to equip the students with the knowledge of basic equine healthcare that covers the fundamental aspects such as physical condition of the horse, routine care, feeding and exercise. Students will learn management practices and routine preventive care of horses which will contribute to equine healthcare and welfare.

SMBQ 2223 Equine Disease Management

This course aims to equip the student with the knowledge of equine diseases and health management of horses. Students will be more knowledgeable and proficient at recognizing and managing some of the major health problems associated with equine. The emphasis of this course will be on preventive maintenance and necessary managerial practices needed to keep the equine health and welfare.

SMBQ 3073 Event and Competition Management

The main aim of this course is to enable the learner to identify and evaluate the factors that affect the demand for recreational facilities and special events, considering social and environmental concerns with a long-term strategic view. In addition, the on-going processes involved in facility management are emphasised whilst considering organisational constraints. Also, the aim is to provide learners with the skills necessary to plan, manage, deliver and evaluate an event.

SMBQ 3152 Horse Riding Iii Show Jumping

This course focuses on the knowledge and development of basic skills pertaining

to Show Jumping. Students will acquire knowledge and understanding which covers the aspect of the horse as well as the rider on the subject of Show Jumping. Students will develop the skills required to be able to conduct show jumping with a sound base of knowledge to reflect equine performance.

SMBQ 3183 Equestrian Motion Analysis

This course is to develop students understanding of biomechanical factors influencing the athletic horse. The specific aims are to understand the relationship between equine anatomy, movement and performance; and to develop understanding and practical skills in the methodologies for measuring biomechanical parameters. Students will also be able to do an analysis to evaluate equine performance within biomechanical parameters.

SMBQ 3243 Equine Nutrition

The module aims are to build on knowledge gained within the horse management module, to develop knowledge of nutritional requirements in a wide variety of horses, recognise the significance of poor ration formulation within the industry and the environmental management of arable crops.

SMBQ 3233 Equine Lameness & Conditioning

This course aims to expose the students to the principles of clinical evaluation and interpretation of lameness disorders of the fore-and hind limbs of horses. Students will gain knowledge on methods used in large-animal radiography and the latest techniques for managing and treating equine lameness. Anatomy and pathology of some areas of the musculoskeletal system are also introduced.

SMBQ 3263 Equine Quarantine

This course aims to equip the student with the knowledge of equine quarantine which covers the aspect of legal requirements and the whole procedure and process of quarantine in Malaysia. This course touches on the management of horses which contribute to equine healthcare and welfare.

SMBQ 3302 Research Methodology

This course introduces undergraduate students in education as an informal training in handling research. Basically, this course describes the nature of educational research and also introduces the steps in the research process. Relevant topics in this course include identification of research problems, ethical issues in conducting a research, the definition of research and importance of research in the field of education. This course also covers important characteristics of research mainly the research problems, questions and objectives, hypothesis testing and implementing a research, literature review, research design, sampling methods, research instruments (qualitative and quantitative), collecting and data administration, data analysis (qualitative and quantitative) including descriptive and inferential statistics. This course also provides students with necessary information and suggestions on how to put a research report together in a correct and efficient manner.

SMBQ 4082 Equine Seminar

This course will equip students with the knowledge and skills to write papers and

articles related to organizing seminars on current issues in the field of equine science and equine management. The course contents cover the aspects of producing writing seminar papers or academic articles, poster presentation, present papers and discuss current issues in the field of equine in Malaysia and internationally.

SMBQ 4163 Riding Instructor Training

This module is designed to aid the students who wish to take an instructional role in the industry. Students will gain knowledge on the coaching perspective, how to organise, conduct, demonstrate and evaluate performance of the rider and the horse. Students will be able to do an assessment and provide solutions during their class lessons.

SMBQ 4173 Equine Evaluation & Selection

This course aims to provide students with knowledge from the functional aspect of performance and anatomy, breed standards in the equine industry, components of judging various breeds and judging various disciplines. This course also provides the ability for students to assess equines' market value, understanding the market value, factors that drive a horse's price and various horse price-ranges for better purchase decision. This course also provides the students with behavioural observation techniques, effective measuring techniques, interpretation of behavioural monitoring, developing potentials, training programmes and specialist training equipment. Students will also acquire knowledge for veterinary and farriery procedures, practice examination for purchase, identify the causes and treatment of lameness, hoof structure and function.

SMBQ 4193 Equine for Disabled

This course aims to provide students with the knowledge, concepts, principles and theories involved in equine for disabled. There are several common disabilities that can get benefit from the equine treatment such as Cerebral Palsy, Down Syndrome, Brain Injury, Seizure Disorders, Autism, Autistic Spectrum Disorders, learning disabilities.

SMBQ 4253 Equine Therapy and Rehabilitation

The modern horse is subject to a wide range of uses which can potentially cause physiological stress and strain on the horse, particularly the musculoskeletal system. This course aims to build on existing knowledge and give students an understanding of the types of susceptibilities that the horse may be subjected to and of the therapeutic and rehabilitation techniques currently practised.

SMBQ 4273 Equine Reproduction and Breeding Technologies

This course provides an introduction to the anatomy and physiology of reproduction in the mare and the stallion. The course also aims to develop the ability to care for a range of breeds and young stock and to allow the students to develop an understanding of the principles of breeding management.

SMBQ 4368 Industrial Training

This course opens opportunities for students to experience practical training in any institution or industry related to the field of equine. Students have the opportunity to practice the knowledge they have learned in real-life situations and at the same

time learn more about the knowledge, skills, management and technology of the industry. In addition to providing a record of daily work in the industry, at the end of the course, students should prepare a written report and reflect on the training industries that have been implemented.

SMBQ *2 Practical Experiences in Equine Farm Management (I-VIII)**

This course is open to opportunities for students to experience practical training in equine farm or stable management. Students have the opportunity to practice the knowledge they have learned in real-life situations and at the same time learn more about the knowledge, skills, management of the farm and stable. In addition to providing a record of daily work in the industry, at the end of the course, students should prepare a written report and reflect on the industries that have been implemented.

FACULTY OF ENGINEERING

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