

## **PROGRAMME STANDARDS FOR TRADITIONAL AND COMPLEMENTARY MEDICINE (T&CM)**

### **Introduction**

This document produced by the Malaysian Qualifications Agency (MQA) in collaboration with the Ministry of Health and the Traditional & Complementary Medicine (T&CM) Panel members, recommends standards that are in line with national and international practices. It is aimed at facilitating Higher Education Providers (HEPs) to attain minimum standards and to stimulate them to continuously improve their T&CM programmes in support of the national aspirations of making Malaysia the regional centre for excellence in education and health tourism.

These guidelines are designed to encourage diversity of approach within a framework that is compatible with national and global human resource requirements and the socio-economic needs of the T&CM community. It will be used as the standards in evaluating T&CM programmes and works as a benchmark or programme specification in institutional audit. The standards defines requirements for courses at Diploma and Degree levels in broad outlines, within which individual HEPs can creatively design their programme of study and appropriately allocate and use resources in accordance with their stated vision, mission, educational goals and learning outcomes. Critical thinking shall be an integral part of the learning process for all modalities. Respective institutions will be responsible to incorporate this aspect into the curriculum.

For the purpose of this document, T&CM is defined as follows:

### **Traditional Medicine**

Traditional medicine is the sum total of the knowledge, skills, and practices based on the theories, beliefs, and experiences indigenous to different cultures, whether explicable or not, used in the maintenance of health as well as in the prevention, diagnosis, improvement or treatment of the whole person.

### **Complementary Medicine**

System of healthcare with unique body of knowledge, information, techniques, skills, technology or practices that contribute to mainstream medicine to diagnose, treat, intervene, and prevent illnesses or to the maintenance of well being.

This Criteria and Standards are subdivided into the following areas:

1. Aims and Objectives
2. Learning Outcomes
3. Programme Design
4. Admission Criteria
5. Student Assessment
6. Academic Staff
7. Educational Resources
8. Continuous Improvement
9. Appendices

This document must be read in conjunction with the following publications and/or any other related future publications:

1. *The Malaysian Qualifications Framework*, Malaysian Qualifications Agency, 2007.
2. *Code of Practice for Programme Accreditation*, Malaysian Qualifications Agency, 2008.
3. *Code of Practice for Institutional Audit*, Malaysian Qualifications Agency, 2008.

## **AIMS AND OBJECTIVES**

### **Diploma**

The aims and objectives of a T&CM diploma programme are to:

1. train internationally recognised and competent traditional and complementary para-professionals therapists/practitioners with the knowledge and skills fundamental to the practice of T&CM;
2. instil knowledge, skills, values and attitudes of dedication to service, professional conduct consistent with a compassionate profession;
3. qualify T&CM graduates for entry into apprenticeship prior to registration as professional practitioners;
4. provide graduates who are eligible to be registered as professional T&CM practitioners; and
5. instil the habits of lifelong learning and further training through continuing T&CM education.

### **Bachelors**

The aims and objectives of a T&CM bachelor programme are to:

1. produce internationally recognised T&CM practitioners who are skilled, competent, compassionate in order to practise in a safe and ethical manner;
2. produce practitioners who are able to use problem-solving techniques and critical analysis in the management of patients;
3. equip graduates with the ability to use evidence-based knowledge in their practice;
4. qualify T&CM graduates for entry into apprenticeship prior to registration as professional practitioners;
5. provide graduates with the eligibility to be registered as professional T&CM practitioners; and
6. instil the habits of lifelong learning and continuing professional development.

## **LEARNING OUTCOMES**

### **Diploma**

At the end of the programme, graduates should be able to:

1. demonstrate knowledge and skills in relevant traditional and complementary therapies;
2. take an organised and problem-focused patient/client history;
3. relate patient/client history to the physical examination findings (where applicable);
4. assist in execution of the patient/client management plan;
5. demonstrate the ability of thinking critically and communicating effectively;
6. work in teams;
7. collaborate with other healthcare professionals;
8. assist in the management of the practice;
9. identify and appropriately refer adverse events, complications and emergencies;
10. participate in research related to T&CM;
11. adhere to ethical standards and code of practice relevant to the discipline; and
12. demonstrate skills required to undertake continuing self-development programme.

### **Bachelors**

At the end of the programme, graduates should be able to:

1. demonstrate knowledge and skills in relevant traditional and complementary therapies;
2. apply basic sciences in the practice of T&CM;
3. record, document, evaluate, and validate data and information;
4. use appropriate technology in their profession;
5. evaluate treatment outcomes and institute corrective actions, where necessary;
6. communicate effectively with patients, their family/caregiver and the community at large;

7. recognise medical emergencies and respond appropriately;
8. work in teams;
9. collaborate with other healthcare professionals;
10. adhere to ethical standards and code of practice relevant to the discipline;
11. undertake continuing self-development programme; and
12. participate and contribute to research related to T&CM.

## **PROGRAMME DESIGN**

The specific requirements for each level are as indicated below. However, as a general guide, the following should be considered:

1. as good practice, the diploma is taught over a minimum of 6 semesters full time and 9 semesters part time, and the bachelor over 6 semesters full time and 9 semesters part time;<sup>1</sup>
2. students with credit transfers and exemptions may do fewer semesters by virtue of the exemptions or transfer;
3. the indicated credits are the minimum benchmarks. Institutions may offer higher credits in accordance to the needs of the programmes and specialisation; and
4. the sample programme for the modalities are as provided for in the Appendices.

### **Diploma**

- Minimum 90 credits
- General Guide:
  - Theory & concepts – 40-50%
  - Practical training – 50-60%
 (Throughout the course, as required).
- Specific Guide – Theory to practical range of percentages:
  - Malay Massage – 40-60%
  - Traditional Chinese Medicine (TCM) – 60-40%
 (Acupuncture)

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<sup>1</sup> For Chiropractic, 8 semesters full time and 12 semesters part time plus 1 year of internship.

- Natural Medicine – 40-60%
- Aromatherapy – 40-60%
- Reflexology – 40-60%
- Breakdown of Programme:
  - Basic Medical Sciences – 15-20%
  - Core – 60-70%  
(Humanities and Scientific Methods)
  - Electives – 2.5-7.5%
  - HEPs Compulsory subjects – 7.5%
- Student Placement – 5%

## Bachelors

- Minimum 120<sup>2</sup> credits
- Theory & concepts – 60%<sup>3</sup>
- Technical & skills – 40%<sup>4</sup>  
(Practical training throughout the course as required).
- Breakdown of Programme:
  - Basic Medical Sciences – 15-20%
  - Core – 60-70%  
(Humanities and Scientific Methods)
  - Electives – 2-7%
  - HEPs Compulsory subjects – 8%
  - Student Placement – 5%
- Breakdown of Chiropractic Programme:
  - Basic Sciences – 9%
  - Core (of which 45-55% is practical) – 74%
  - Humanities – 2%
  - Scientific Methods – 6%
  - Electives – 4%

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<sup>2</sup> For Chiropractic, minimum credit is 150

<sup>3</sup> For Chiropractic, theory and concept is 40%

<sup>4</sup> for Chiropractic, technical and skills is 60%

- HEPs Compulsory subjects – 5%

## ADMISSION CRITERIA

The specific requirement for each level are as indicated below. However, as a general guide, the following must be considered:

1. that the requirements given below are the minimum entry qualifications.
2. any exemptions provided for entry into a higher level must be on subject to subject basis and to a maximum of 30% or 1 year.

### Diploma

- Sijil Pelajaran Malaysia (SPM) or equivalent with 3 credits including pass in a Science subject and Mathematics; **OR**
- T&CM-recognised Certificate with 1 year relevant work experience.

### Bachelors

- Sijil Tinggi Persekolahan Malaysia (STPM) or equivalent in science stream with CGPA of 2.5<sup>5</sup>; **OR**
- STPM in non science stream with CGPA of 2.5<sup>6</sup> and above with credits in 2 science subjects at SPM level<sup>7</sup>; **OR**
- Diploma in T&CM or equivalent relevant Diploma with CGPA of 2.5<sup>8</sup> and above (subject exemptions can be granted up to maximum 30 credits); **OR**
- Diploma in T&CM or equivalent with CGPA of 2.00<sup>9</sup> and above with at least two years work experience in relevant discipline (subject exemption can be granted up to maximum 30 credits); **OR**
- Any Diploma from T&CM-recognised institutions; **OR**

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<sup>5</sup> For Chiropractic, CGPA is of 2.75.

<sup>6</sup> For Chiropractic, CGPA is of 2.75.

<sup>7</sup> For Ayurveda, students from disciplines other than science at entry level will be required to undertake prerequisite science subjects which will be made available by the HEP.

<sup>8</sup> For Chiropractic, CGPA is of 2.75.

<sup>9</sup> For Chiropractic, CGPA is of 2.25.

- Recognised degree holders in any discipline subject to the discretion of the institutions and the code of practice.

**AND**

- Evidence of English Proficiency for foreign students prior to entry.

**STUDENT ASSESSMENT**

The specific requirements for each level are as indicated below. However, as a general guide, the following must be considered:

1. each level, depending on the requirement of individual subjects/modules should incorporate both summative and formative assessments;
2. where such a combined mode is used, students are required to pass both. Pass is rated generally at 40%.<sup>10</sup> However, this may vary between institutions; and
3. the types of assessments indicated below are merely examples. HEPs are encouraged to use a variety of methods and tools appropriate for the learning outcomes and competencies.

**Diploma**

- Theory – 30-40%
- Skill/Practical – 60-70%
- Types of Assessment (candidates required to pass both):
  - Continuous – 60%
  - Final exam – 40%
- Assessment Modes (examples):
  - Theory – Multiple Choice Questions (MCQ), Short Essay Questions (SEQ), Mixed Essay Questions (MEQ)
  - Skill – Project presentations, Case Study, Problem-Based Learning (PBL), Objective Structured Practical Examination (OSPE)

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<sup>10</sup> For Chiropractic, pass is rated generally at 50%.

## Bachelor

- Theory – 50-60%<sup>11</sup>
- Skill/Practical – 40-50%<sup>12</sup>
- Types of Assessment (candidates required to pass both):
  - Continuous – 60%
  - Final exam – 40%
- Assessment Modes (example):
  - Theory – Multiple Choice Questions (MCQ), Short Essay Questions (SEQ), Mixed Essay Questions (MEQ)
  - Skill – Project presentations, Case Study, Problem-Based Learning (PBL), Objective Structured Practical Examination (OSPE)

## ACADEMIC STAFF

The specific requirements for each level are as indicated below. However, as a general guide, it is important to note that:

1. the academic leadership of the school/faculty/department must be a person with PhD in T&CM or Masters with at least 10 years of work experience in related field;
2. a faculty should have a minimum of 20% full time staff who form the core academic resource for the programme; and
3. sufficient support staff such as lab technicians and administrators should be provided.

## Diploma

Academic Teaching: The breakdowns for individual modalities are as follows:

1. **Acupuncture**
  - Recognised First Degree in related field with 2 years relevant work experience and/or related post-basic T&CM qualification with 5 years relevant work experience; **OR**

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<sup>11</sup> For Chiropractic, theory is 40%.

<sup>12</sup> For Chiropractic, skill/practical is 60%.

- Registered practitioners with 5 years relevant work experience for clinical modules.

## 2. **Naturopathy**

- Recognised First Degree in related field with 2 years relevant work experience and/or related or post-basic T&CM qualification with 5 years relevant work experience; **OR**
- Recognised Diploma in related fields and/or related or post-basic T&CM qualification with 5 years relevant work experience; **OR**
- Registered practitioners with 5 years relevant work experience for clinical modules.

## 3. **Malay Massage**

Registered practitioners with 5 years relevant work experience for clinical modules; **AND**

- **Theory** - Recognised First Degree in related field.
- **Practical Tutors** - SPM or equivalent and 5 years relevant work experience.
- **Assistant Practical Tutors** - 10 years relevant work experience.

## 4. **Aromatherapy**

- Recognised Diploma in related field and/or related or post-basic T&CM qualification with 5 years relevant work experience; **OR**
- Registered practitioners with 5 years relevant work experience for clinical modules.

## 5. **Reflexology**

- Recognised Diploma in related field and/or related or post-basic T&CM qualification with 5 years relevant work experience; **OR**
- Registered practitioners with 5 years relevant work experience for clinical modules.

### **Other general requirements:**

Ratio of staff to students:

- Theory – 1:20
- Practical/Lab – 1:10
- Clinical – 1:8

### **Bachelors**

- Recognised First Degree in related field and/or related post-basic T&CM qualification with 5 years relevant work experience;<sup>13</sup>
- Ratio of staff to students:
  - Theory – 1:20
  - Practical/Lab – 1:10
  - Clinical – 1:8
- Minimum of 20% staff with relevant post-graduate qualifications; (Ratio of postgraduate to non post-graduate staff is 2:8)
- Maximum of 80% part time, including adjunct staff. (Ratio of full time to part time staff is 2:8)

## **EDUCATIONAL RESOURCES**

### **For all levels**

#### **1. Physical**

Skill/simulation laboratories sufficient to provide practical and hands-on training.

#### **2. Library Resources**

- a. Medical
- b. Basic Science
- c. Management
- d. IT

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<sup>13</sup> For Chiropractic, recognised First Degree and at least 3 years relevant work experience

### **3. Clinical**

T&CM recognised Centres providing general and specialised holistic health facilities<sup>14</sup>.

### **4. Access to other Community Service Centres (for training purposes)**

- a. Home for the elderly
- b. Hospice
- c. Centres for the physically and intellectually challenged
- d. Shelters for children, young girls and women
- e. Indigenous health centres
- f. Orphanage
- g. Sport events – for chiropractic programme

## **CONTINUOUS IMPROVEMENT**

### **For all levels**

The HEP is expected to provide evidence of ability to keep pace with changes in the field and requirements of stakeholders. These may be demonstrated by, but not limited to:

1. curriculum review at least once every 3 years;
2. appointment of External Examiners;
3. links with industry;
4. continuous review of practical training/industrial attachment practices and records;
5. periodic dialogue sessions with stakeholders;
6. active participation of academic staff at relevant local and international conferences, seminars and workshops;
7. presentations by invited speakers, local and/or international; and
8. organisation of academic and professional discourses (conferences, seminars and workshops).

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<sup>14</sup> For Chiropractic, clinical resources include T&CM recognised Centres, hospitals and others providing general and specialised holistic health facilities.

**Appendix 1**

Suggested Subjects at Diploma Level

**Programme Structure and Content for:****1. Diploma in Malay Massage**

Basic Medical Sciences (15-20%)	<b>Subject</b>	<b>Credit value</b>
	Human Anatomy	6
	Physiology	4
	Pathology	4
	<b>Total</b>	<b>14</b>
Core Malay Massage Sciences (40-50%)  Practical component (50-60%)	<b>Subject</b>	<b>Credit value</b>
	<b>Major</b>	
	Principles of Massage	10
	Massage Techniques	12
	Specialised Massage	3
	Children Massage	2
	Neuromuscular Therapy	10
	Midwifery Massage (Ante-natal & Post-natal)	4
	Traditional Exercise	4
	Massage Media	3
	<b>Total</b>	<b>48</b>
	<b>Minor</b>	
	Massage for Special Needs	4
	Communication Skills	2
	Traditional Nutrition	2
	Aroma Treatment	2
	Hygiene & Safety	2
	<b>Total</b>	<b>12</b>
<b>Attachment</b>		
Practical Training	<b>7</b>	
Humanities (15-20%)	<b>Subject</b>	<b>Credit value</b>
	Business Law	2
	Medical and Professional Ethics	2
	Management and Entrepreneurship	2
	<b>Total</b>	<b>6</b>
Scientific Methods (4-7%)	<b>Subject</b>	<b>Credit value</b>
	Case Presentation/Practicum	6
	Critical Thinking	1
	<b>Total</b>	<b>7</b>

Electives (2-5%)	Related to Massage Practice										
ICT and Information Management Skills	Incorporated into all components										
Public/Private HEP Compulsory Subjects	10% of total credits for Public HEP Compulsory Subjects for Private HEP <table border="1"> <thead> <tr> <th>Subject</th> <th>Credit value</th> </tr> </thead> <tbody> <tr> <td>Bahasa Kebangsaan A/B</td> <td>3</td> </tr> <tr> <td>Pengajian Malaysia</td> <td>3</td> </tr> <tr> <td>Pendidikan Islam/Pengajian Moral</td> <td>3</td> </tr> <tr> <td><b>Total</b></td> <td><b>9</b></td> </tr> </tbody> </table>	Subject	Credit value	Bahasa Kebangsaan A/B	3	Pengajian Malaysia	3	Pendidikan Islam/Pengajian Moral	3	<b>Total</b>	<b>9</b>
Subject	Credit value										
Bahasa Kebangsaan A/B	3										
Pengajian Malaysia	3										
Pendidikan Islam/Pengajian Moral	3										
<b>Total</b>	<b>9</b>										
Grand Total (excluding elective subjects)	<b>103 credits</b>										

## 2. Diploma in Traditional Chinese Medicine (Acupuncture)

Basic Medical Sciences (15-20%)	<b>Subject</b>	<b>Credit value</b>
	Human Anatomy	6
	Physiology	4
	Pathology	4
	<b>Total</b>	<b>14</b>
Core Acupuncture Sciences (40-50%)  Practical component (50-60%)	<b>Subject</b>	<b>Credit value</b>
	<b>Major</b>	
	Traditional Chinese Medicine (TCM) History	2
	Theories of TCM	6
	Acupuncture Meridians and Collaterals	3
	Acupuncture Points	4
	Technique of Acupuncture and Moxibustion	6
	Therapeutics of Acupuncture and Moxibustion	6
	Diagnostic Method of TCM	6
	Chinese Materia Medica	6
TCM Prescription	4	

	TCM Internal Medicine	6										
	Fundamental of Western Internal Medicine	4										
	<b>Total</b>	<b>62</b>										
	<b>Minor</b>											
	Technique of TCM 'Tuina' (Massage)	4										
	Therapeutics of TCM 'Tuina' (Massage)	4										
	Osteo-Traumatology of TCM	4										
	<b>Total</b>	<b>12</b>										
	<b>Attachment</b>											
	Practical Training	<b>7</b>										
Humanities (15-20%)	<table border="1"> <thead> <tr> <th>Subject</th> <th>Credit value</th> </tr> </thead> <tbody> <tr> <td>Business Law</td> <td>2</td> </tr> <tr> <td>Medical and Professional Ethics</td> <td>2</td> </tr> <tr> <td>Management and Entrepreneurship</td> <td>2</td> </tr> <tr> <td><b>Total</b></td> <td><b>6</b></td> </tr> </tbody> </table>	Subject	Credit value	Business Law	2	Medical and Professional Ethics	2	Management and Entrepreneurship	2	<b>Total</b>	<b>6</b>	
Subject	Credit value											
Business Law	2											
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Subject	Credit value											
Case Presentation/Practicum	4											
Critical Thinking	1											
<b>Total</b>	<b>5</b>											
Electives (2-5%)	Related to Acupuncture Practice											
ICT and Information Management Skills	Incorporated into all components											
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<b>Total</b>	<b>9</b>											
Grand total (excluding elective subjects)	<b>106 credits</b>											

### 3. Diploma in Natural Medicine

Basic Medical Sciences (15-20%)	<table border="1"> <thead> <tr> <th>Subject</th> <th>Credit value</th> </tr> </thead> <tbody> <tr> <td>Human Anatomy</td> <td>6</td> </tr> <tr> <td>Physiology</td> <td>4</td> </tr> <tr> <td>Pathology</td> <td>4</td> </tr> <tr> <td>Biochemistry</td> <td>3</td> </tr> <tr> <td>Microbiology</td> <td>3</td> </tr> <tr> <td><b>Total</b></td> <td><b>20</b></td> </tr> </tbody> </table>	Subject	Credit value	Human Anatomy	6	Physiology	4	Pathology	4	Biochemistry	3	Microbiology	3	<b>Total</b>	<b>20</b>																												
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Subject	Credit value										
Bahasa Kebangsaan A/B	3										
Pengajian Malaysia	3										
Pendidikan Islam/Pengajian Moral	3										
<b>Total</b>	<b>9</b>										
Grand total (excluding elective subjects)	<b>101 credits</b>										

#### 4. Diploma in Aromatherapy

Basic Medical Sciences (15-20%)	<table border="1"> <thead> <tr> <th>Subject</th> <th>Credit value</th> </tr> </thead> <tbody> <tr> <td>Human Anatomy</td> <td>6</td> </tr> <tr> <td>Physiology</td> <td>4</td> </tr> <tr> <td>Pathology</td> <td>4</td> </tr> <tr> <td><b>Total</b></td> <td><b>14</b></td> </tr> </tbody> </table>	Subject	Credit value	Human Anatomy	6	Physiology	4	Pathology	4	<b>Total</b>	<b>14</b>																				
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Case Presentation/Practicum	6																						
Critical Thinking	1																						
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Electives (2-5%)	Related to Aromatherapy Practice																						
ICT and Information Management Skills	Incorporated into all components																						
Public/Private HEP Compulsory Subjects	<p>10% of total credits for Public HEP</p> <p>Compulsory Subjects for Private HEP</p> <table border="1"> <thead> <tr> <th>Subject</th> <th>Credit value</th> </tr> </thead> <tbody> <tr> <td>Bahasa Kebangsaan A/B</td> <td>3</td> </tr> <tr> <td>Pengajian Malaysia</td> <td>3</td> </tr> <tr> <td>Pendidikan Islam/Pengajian Moral</td> <td>3</td> </tr> <tr> <td><b>Total</b></td> <td><b>9</b></td> </tr> </tbody> </table>	Subject	Credit value	Bahasa Kebangsaan A/B	3	Pengajian Malaysia	3	Pendidikan Islam/Pengajian Moral	3	<b>Total</b>	<b>9</b>												
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Bahasa Kebangsaan A/B	3																						
Pengajian Malaysia	3																						
Pendidikan Islam/Pengajian Moral	3																						
<b>Total</b>	<b>9</b>																						

Grand total (excluding elective subjects)	<b>115 Credits</b>
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## 5. Diploma in Reflexology

Basic Medical Sciences (15-20%)	<b>Subject</b>	<b>Credit value</b>
	Human Anatomy	6
	Physiology	4
	Pathology	4
	<b>Total</b>	<b>14</b>
Core Reflexology Sciences (40-50%)  Practical component (50-60%)	<b>Subject</b>	<b>Credit value</b>
	<b>Major</b>	
	History & Theory of Reflexology and other T&CM modalities	4
	Zone Therapy & Meridians	4
	Remedial Approach & Charts	4
	Holistic Approach To Mind, Body & Spirit	2
	Healing Ailments	6
	Relaxation Techniques	4
	Reflex Points & Techniques	10
	Other Techniques of Massages	5
	<b>Total</b>	<b>39</b>
	<b>Minor</b>	
	Practice Management	2
	Communication Skills	2
	Nutrition	2
	First Aids	2
	<b>Total</b>	<b>8</b>
<b>Attachment</b>		
Practical Training	7	
Humanities (15-20%)	<b>Subject</b>	<b>Credit value</b>
	Business Law	2
	Medical and Professional Ethics	2
	Management and Entrepreneurship	2
	<b>Total</b>	<b>6</b>

Scientific Methods (4-7%)	<b>Subject</b>		<b>Credit value</b>	
	Case Presentation/Practicum		8	
	Critical Thinking		1	
	<b>Total</b>		<b>9</b>	
Electives (2-5%)	Related to Reflexology Practice			
ICT and Information Management Skills	Incorporated into all components			
Public/Private HEP Compulsory Subjects	10% of total credits for Public HEP			
	Compulsory Subjects for Private HEP			
	<b>Subject</b>		<b>Credit value</b>	
	Bahasa Kebangsaan A/B		3	
	Pengajian Malaysia		3	
Pendidikan Islam/Pengajian Moral		3		
<b>Total</b>		<b>9</b>		
Grand total (excluding elective subjects)	<b>92 Credits</b>			

## 6. Diploma in Islamic Medical Practice

Basic Medical Sciences (15-20%)	<b>Subject</b>		<b>Credit value</b>	
	Human Anatomy		6	
	Physiology		4	
	Pathology		4	
	Biochemistry		4	
	<b>Total</b>		<b>18</b>	
Core Islamic Medicine Sciences (40- 50%)	<b>Subject</b>		<b>Credit value</b>	
	<b>Major</b>			
	History of Medicine		4	
	Principles of Islamic Medicine		10	

Practical component (50-60%)	Self Preparedness (Practical)	5
	Disease Assessment	7
	Preventive Method for Disease	2
	Medium of Treatment	2
	Supernatural Entities ( <i>Makhluk Halus</i> )	7
	Understanding Sorcery ( <i>Sihir/Al-Ain</i> )	4
	Islamic Medicine Ethic	3
	Counseling	3
	<b>Total</b>	<b>47</b>
	<b>Minor</b>	
	Communication Skills	2
	Dietetics and Dietary Therapy	1
	Hygiene & Safety	1
<b>Total</b>	<b>4</b>	
<b>Attachment</b>		
Industrial training	7	
Humanities (15-20%)	<b>Subject</b>	<b>Credit value</b>
	Business Law	2
	Medical and Professional Ethics	2
	Management and Entrepreneurship	2
	<b>Total</b>	<b>6</b>
Scientific Methods (4-7%)	<b>Subject</b>	<b>Credit value</b>
	Case Presentation/Practicum	6
	Critical Thinking	1
	<b>Total</b>	<b>7</b>
Electives (2-5%)	Related/unrelated to Herbal Medicine	
ICT and Information Management Skills	Incorporated into all components	

Public/Private HEP Compulsory Subjects	<p>10% of total credits for Public HEP</p> <p>Compulsory Subjects for Private HEP</p> <table border="1"> <thead> <tr> <th><b>Subject</b></th> <th><b>Credit value</b></th> </tr> </thead> <tbody> <tr> <td>Bahasa Kebangsaan A/B</td> <td>3</td> </tr> <tr> <td>Pengajian Malaysia</td> <td>3</td> </tr> <tr> <td>Pendidikan Islam/Pengajian Moral</td> <td>3</td> </tr> <tr> <td><b>Total</b></td> <td><b>9</b></td> </tr> </tbody> </table>	<b>Subject</b>	<b>Credit value</b>	Bahasa Kebangsaan A/B	3	Pengajian Malaysia	3	Pendidikan Islam/Pengajian Moral	3	<b>Total</b>	<b>9</b>
<b>Subject</b>	<b>Credit value</b>										
Bahasa Kebangsaan A/B	3										
Pengajian Malaysia	3										
Pendidikan Islam/Pengajian Moral	3										
<b>Total</b>	<b>9</b>										
Grand total (excluding elective subjects)	<b>98 Credits</b>										

**Appendix 2**

Suggested Subjects at Bachelors Degree Level

**Programme Structure and Content for:****1. Bachelor in Traditional Chinese Medicine (Acupuncture)**

Basic Medical Sciences (15-20%)	<b>Subject</b>	<b>Credit value</b>
	Cell Biology and Response to Injury	2
	Human Anatomy and Comparative Anatomy	6
	Physiology, Biochemistry and Theory of Disease	6
	Microbiology and Hygiene	2
	Introduction to Comparative Therapeutics	2
	Pathology	2
	Psychology	2
	First Aids and Emergency Conditions	2
	Practical	6
	<b>Total</b>	<b>30</b>
Core Traditional Chinese Medicine Sciences (TCM) (55-60%)  Practical component (45-55%)	<b>Subject</b>	<b>Credit value</b>
	<b>Major</b>	
	TCM History	2
	Theories of TCM	6
	Acupuncture Meridians and Collaterals	2
	Acupuncture Points	6
	Technique of Acupuncture and Moxibustion	5
	Therapeutics of Acupuncture and Moxibustion	8
	Diagnostic Method of TCM	5
	Chinese Materia Medica	6
	TCM Prescription	4
	TCM Internal Medicine	6
	Acupuncture External Medicine	4
	Fundamental of Modern Diagnostics	5
	Fundamental of Western Internal Medicine	3
	<b>Total</b>	<b>62</b>
	<b>Minor</b>	
	Technique of TCM 'Tuina' (Massage)	4
	Therapeutics of TCM 'Tuina' (Massage)	4
	Acupuncture Orthopaedics	3
	Acupuncture Paediatrics	2
	Acupuncture Gynaecology	2
Acupuncture Ophthalmology	2	
Acupuncture Otorhinolaryngology	2	
Acupuncture Neurology	2	
<b>Total</b>	<b>21</b>	
<b>Attachment</b>		

	Industrial training	<b>14</b>
Humanities (15-20%)	<b>Subject</b>	<b>Credit value</b>
	Business Study and Laws	2
	Medical and Professional Ethics	2
	Management and Entrepreneurship	2
	<b>Total</b>	<b>6</b>
Scientific Methods (4-7%)	<b>Subject</b>	<b>Credit value</b>
	Project Paper	3
	Research Methodology Analysis	2
	Critical Thinking	1
	<b>Total</b>	<b>6</b>
Electives (2-5%)	<b>Subject</b>	<b>Credit value</b>
	Ancient Chinese Medicine	4
	Synopsis of Prescription of Golden Chamber	4
	TCM Traumatology	4
ICT and Information Management Skills	Incorporated into all components	
Public/Private HEP Compulsory Subjects	10% of total credits for Public HEP	
	Compulsory Subjects for Private HEP	
	<b>Subject</b>	<b>Credit value</b>
	Bahasa Kebangsaan A/B	3
	Pengajian Malaysia	3
	Pendidikan Islam/Pengajian Moral	3
	<b>Total</b>	<b>9</b>
Grand total (excluding elective subjects)	<b>148 Credits</b>	

## 2. Bachelor in Traditional Chinese Medicine

Basic Sciences (15-20%)	<b>Subject</b>	<b>Credit value</b>
	Cell Biology and Response to Injury	2
	Human Anatomy and Comparative Anatomy	6
	Physiology, Biochemistry and Theory of Disease	6
	Microbiology and Hygiene	2
	Introduction to Comparative Therapeutics	2
	Pathology	2
	Psychology	2
	First Aids and Emergency Conditions	2
	Practical	6
<b>Total</b>	<b>30</b>	
Core Traditional Chinese Medicine Sciences (55-60%)  Practical component (45-55%)	<b>Subject</b>	<b>Credit value</b>
	<b>Major</b>	
	Chinese Medicine History	2
	Theories of Chinese Medicine	4
	Acupuncture and Moxibustion I	4
	Acupuncture and Moxibustion II	4
	Diagnostic of CM	5
	CM Materia Medica	6
	Prescription of CM	6
	CM Internal Medicine I	5
	CM Internal Medicine II	5
	CM External Medicine	5
	Basic of Modern Diagnostics	3
	Allopathic Internal Medicine	3
	Treatise on Febrile Disease Caused by Cold	4
	Exogenous Febrile Diseases	4
	<b>Total</b>	<b>60</b>
	<b>Minor</b>	
	Yellow Emperor's Classic	4
	Synopsis of Prescription of Golden Chamber	4
CM Traumatology	4	
CM Tuinalogy	4	
<b>Total</b>	<b>16</b>	
<b>Attachment</b>		
Practical Training	<b>14</b>	
Humanities (15-20%)	<b>Subject</b>	<b>Credit value</b>
	Business Study and Laws	2
	Medical and Professional Ethics	2
	Management and Entrepreneurship	2
<b>Total</b>	<b>6</b>	

Scientific Methods (4-7%)	<b>Subject</b>	<b>Credit value</b>
	Project Paper	3
	Research Methodology Analysis	2
	Critical Thinking	1
	<b>Total</b>	<b>6</b>
Electives (2-5%)	<b>Subject</b>	<b>Credit value</b>
	Ancient Medical Chinese Literature	4
	Philosophy of CM (Different Academy School of CM)	4
	TCM Subspecialities (Paediatric, Gynaecology, Ophthalmology, Otorhinolaryngology)	4
ICT and Information Management Skills	Incorporated into all components	
Public/Private HEP Compulsory Subjects	10% of total credits for Public HEP	
	Compulsory Subjects for Private HEP	
	<b>Subject</b>	<b>Credit value</b>
	Bahasa Kebangsaan A/B	3
	Pengajian Malaysia	3
	Pendidikan Islam/Pengajian Moral	3
<b>Total</b>	<b>9</b>	
Grand total (excluding elective subjects)	<b>141 Credits</b>	

### 3. Bachelor in Complementary Medicine (Natural Medicine)

Basic Sciences (15-20%)	<b>Subject</b>	<b>Credit value</b>
	Cell Biology and Response To Injury	2
	Human Anatomy and Comparative Anatomy	6
	Physiology, Biochemistry and Theory of Disease	6
	Microbiology and Hygiene	2
	Introduction to Comparative Therapeutics	2

	Pathology	2
	Psychology	2
	First Aids and Emergency Conditions	2
	Practical	6
	<b>Total</b>	<b>30</b>
Core Natural Medicine Sciences (55-60%)  Practical component (45-55%)	<b>Subject</b>	<b>Credit value</b>
	<b>Major</b>	
	Philosophy, Concept and Principal of Natural Healthcare and Medicine	4
	Energy, Mind and Body Dynamic	4
	Human Nutrition	4
	Nutritional Disease	4
	Nutrition in Health	4
	Comparative Pathophysiological and Disease State	6
	Clinical Naturopathy Diagnosis I	3
	Clinical Naturopathy Diagnosis II	6
	Naturopathy Treatment Modality I	3
	Naturopathy Treatment Modality II	6
	Naturopathy Practice	6
	<b>Total</b>	<b>50</b>
	<b>Minor</b>	
	Allied Alternative Medicine System	3
	Patients Relationship, Ethics and Medicolegal Issues	4
	Naturopathy Case Study on Major Health Problems (Diabetes Mellitus, Hypertension, Cardiovascular Disease)	8
	<b>Total</b>	<b>15</b>
<b>Attachment</b>		
Practical Training	<b>14</b>	
Humanities (15-20%)	<b>Subject</b>	<b>Credit value</b>
	Business Study and Laws	2
	Medical and Professional Ethics	2
	Management and Entrepreneurship	2
	<b>Total</b>	<b>6</b>
Scientific Methods (4-7%)	<b>Subject</b>	<b>Credit value</b>
	Project Paper	3
	Research Methodology Analysis	2
	Critical Thinking	1
	Natural Healthcare Medicine Research	4
	<b>Total</b>	<b>10</b>

Electives (2-5%)	Related/unrelated to Natural Medicine practice										
ICT and Information Management Skills	Incorporated into all components										
Public/Private HEP Compulsory Subjects	10% of total credits for Public HEP Compulsory Subjects for Private HEP <table border="1"> <thead> <tr> <th>Subject</th> <th>Credit value</th> </tr> </thead> <tbody> <tr> <td>Bahasa Kebangsaan A/B</td> <td>3</td> </tr> <tr> <td>Pengajian Malaysia</td> <td>3</td> </tr> <tr> <td>Pendidikan Islam/Pengajian Moral</td> <td>3</td> </tr> <tr> <td><b>Total</b></td> <td><b>9</b></td> </tr> </tbody> </table>	Subject	Credit value	Bahasa Kebangsaan A/B	3	Pengajian Malaysia	3	Pendidikan Islam/Pengajian Moral	3	<b>Total</b>	<b>9</b>
Subject	Credit value										
Bahasa Kebangsaan A/B	3										
Pengajian Malaysia	3										
Pendidikan Islam/Pengajian Moral	3										
<b>Total</b>	<b>9</b>										
Grand total (excluding elective subjects)	<b>134 Credits</b>										

#### 4. Bachelor of Homeopathy

Basic Sciences (15-20%)	<b>Subject</b>	<b>Credit value</b>
	Cell Biology and Response to Injury	2
	Human Anatomy and Comparative Anatomy	6
	Physiology, Biochemistry and Theory of Disease	6
	Microbiology and Hygiene	2
	Introduction to Comparative Therapeutics	2
	Pathology	2
	Psychology	2
	First Aids and Emergency Conditions	2
	Practical	6
	<b>Total</b>	<b>30</b>
Core Homeopathic Medicine Sciences (55-60%)	<b>Subject</b>	<b>Credit value</b>
	<b>Major</b>	
	Organon of Homeopathic Medicine	15
	Homeopathic Materia Medica	20
	Comparative Study of Materia Medica	4
	Homeopathic Pharmacy	4

Practical component (45-55%)	Study of Diseases and Patients	4
	Case Management and Homeotherapeutics	18
	Repertorization of Disease	4
	<b>Total</b>	<b>69</b>
	<b>Attachment</b>	
	Practical Training	<b>14</b>
Humanities (15-20%)	<b>Subject</b>	<b>Credit value</b>
	Business Study and Laws	2
	Medical and Professional Ethics	2
	Management and Entrepreneurship	2
	<b>Total</b>	<b>6</b>
Scientific Methods (4-7%)	<b>Subject</b>	<b>Credit value</b>
	Project Paper	3
	Research Methodology Analysis	2
	Critical Thinking	1
	<b>Total</b>	<b>6</b>
Electives (2-5%)	Related to Homeopathy (Human/Animal/Plant)	
ICT and Information Management Skills	Incorporated into all components	
Public/Private HEP Compulsory Subjects	10% of total credits for Public HEP	
	Compulsory Subjects for Private HEP	
	<b>Subject</b>	<b>Credit value</b>
	Bahasa Kebangsaan A/B	3
	Pengajian Malaysia	3
	Pendidikan Islam/Pengajian Moral	3
<b>Total</b>	<b>9</b>	
Grand total (excluding elective subjects)	<b>134 Credits</b>	

## 5. Bachelor in Malay Medicine

Basic Medical Sciences (15-20%)	<b>Subject</b>	<b>Credit value</b>
	Cell Biology and Response to Injury	2
	Human Anatomy and Comparative Anatomy	6
	Physiology, Biochemistry and Theory of Disease	6
	Microbiology and Hygiene	2
	Introduction to Comparative Therapeutics	2
	Pathology	2
	Psychology	2
	First Aids and Emergency Conditions	2
	Practical	6
	<b>Total</b>	<b>30</b>
Core Malay Medicine Sciences (40- 50%)  Practical component (50-60%)	<b>Subject</b>	<b>Credit value</b>
	<b>Major</b>	
	History and Theory of Malay Medicine	4
	Principles of Malay Medicine Diagnostic	4
	Principles of Malay Medicine Treatment	4
	Assessment of Disease	4
	Principles of Spiritual Healing	3
	Principles of Herbal Medicine	4
	Herbal Medicine Materia Medica	4
	Traditional Therapeutics Technique	6
	Herbal Medicine Clinical Skills	6
	Phytochemistry	3
	Phytomedicines	3
	Massage Techniques	6
	Cupping (Bekam) Techniques	6
	Preventive Techniques in Malay Medicine	4
	Comparative Diagnosis	4
	<b>Total</b>	<b>65</b>
	<b>Minor</b>	
	Comparative Study of Traditional and Ethnic Medicine	2
	Principles of Malay Exercise	2
	Technique of Malay Exercise	2
	Principles of Islamic Medicine Relevant to Malay Medicine	2
	Communication Skills	2
	Diatetics and Dietary Therapy	2
	Hygiene & Safety	2
	Traditional and Culture Literature	2
	<b>Total</b>	<b>16</b>
<b>Attachment</b>		

	Practical Training and Self Development	<b>14</b>
Humanities (15-20%)	<b>Subject</b>	<b>Credit value</b>
	Business Study and Laws	2
	Medical and Professional Ethics	2
	Management and Entrepreneurship	2
	<b>Total</b>	<b>6</b>
Scientific Methods (4-7%)	<b>Subject</b>	<b>Credit value</b>
	Research Methodology Analysis	2
	Project Paper	3
	Critical Thinking	1
	<b>Total</b>	<b>6</b>
Electives (2-5%)	Related/unrelated to Herbal Medicine	
ICT and Information Management Skills	Incorporated into all components	
Public/Private HEP Compulsory Subjects	10% of total credits for Public HEP	
	Compulsory Subjects for Private HEP	
	<b>Subject</b>	<b>Credit value</b>
	Bahasa Kebangsaan A/B	3
	Pengajian Malaysia	3
Pendidikan Islam/Pengajian Moral	3	
<b>Total</b>	<b>9</b>	
Grand total (excluding elective subjects)	<b>146 Credits</b>	

## 6. Bachelor of Ayurvedic Medicine

Basic Medical Sciences (15-20%)	<b>Subject</b>	<b>Credit value</b>
	Cell Biology and Response To Injury	2
	Human Anatomy and Comparative Anatomy	6

	Physiology and Biochemistry and Theory of Disease	6
	Microbiology and Hygiene	2
	Introduction to Comparative Therapeutics	2
	Pathology	2
	Psychology	2
	First Aids and Emergency Conditions	2
	Introduction to Experimental Pharmacology	2
	Practical	6
	<b>Total</b>	<b>32</b>
Core Ayurvedic Medicine (55-60%)  Practical component (45-55%)	<b>Subject</b>	<b>Credit value</b>
	Sanskrit Language	4
	Ayurvedic Concept of Sharir-rachana (Anatomy)	3
	Ayurvedic Concept of Sharir-kriya (Physiology)	3
	Ayurvedic Concept of Nidana (Pathology)	3
	Ayurvedic Concept of Swasthavritta (Daily/Seasonal Regime)	3
	History and Structure of Ayurveda (Theory & Origin, Sanskrit (Padarthavijnana)	3
	Principles of Ayurveda (Concept & Philosophy)	2
	Principles of Kayachikitsa I (Ayurvedic Internal Medicine)	6
	Principles of Kayachikitsa II (Ayurvedic Internal Medicine)	4
	Principles of Shalyachikitsa (Surgery)	3
	Principles of Prasuthitantra (Antenatal and Postnatal Care)	2
	Principles of Balachikitsa (Ayurvedic Paediatric)	2
	Principles of Shalakyatantra (Ayurvedic ENT Ayurvedic EYE and Dentistry)	3
	Principles of Shodhana I (Detoxification Treatment)	4
	Principles of Shodhana II (External Treatment)	3
	Ayurveda Materia Medica – Dravyaguna	6
	Agad Tantra – Toxicology & Forensic Medicine	2
	Rasayana & Vajikarana (Geriatrics and Rejuvenation)	4
	Comparative Study of Ayurvedic Diagnostics	3
	Allopathic Internal medicine	3
<b>Total</b>	<b>66</b>	
	<b>Attachment</b>	
	Practical Training and Self Development	14
Humanities (15-20%)	<b>Subject</b>	<b>Credit value</b>
	Business Study and Laws	2
	Medical and Professional Ethics	2
	Management and Entrepreneurship	2
	<b>Total</b>	<b>6</b>

Scientific Methods (4-7%)	<b>Subject</b>	<b>Credit value</b>
	Research Methodology Analysis	3
	Project Paper	3
	Critical Thinking	2
	<b>Total</b>	<b>8</b>
Elective – Anyone subject (2-5%)	Related to/unrelated to Ayurvedic Medicine practice	
ICT and Information Management Skills	Incorporated into all components	
Public/Private HEP Compulsory Subjects	10% from credit hours for Public HEP	
	Compulsory Subjects for Private HEP	
	<b>Subject</b>	<b>Credit value</b>
	Bahasa Kebangsaan A/B	3
	Pengajian Malaysia	3
Pendidikan Islam/Pengajian Moral	3	
<b>Total</b>	<b>9</b>	
Grand total (exclude elective subject)	<b>135 Credits</b>	

## 7. Bachelor of Chiropractic

Basic Sciences (9%)	<b>Course</b>	<b>Credits</b>
	Biodiversity & Utilisation of Biological Resources	2
	General Chemistry & Biochemistry	2
	Statistics for Biomedical Scientists	1
	Limb and Trunk Anatomy	4
	Central Nervous System	2
	Health Informatics	1
	Complementary Medicine	2
	<b>Total</b>	<b>14</b>

Core Chiropractic Sciences (74%)  Practical comprises (45- 55%)	<b>Course</b>	<b>Credits</b>
	Introduction to Chiropractic Practice	4
	Musculoskeletal System	2
	Head and Visceral Anatomy	4
	Biomechanics (for Chiropractic)	4
	Chiropractic Practice 2	3
	Clinical Nutrition (for Chiropractic)	4
	Radiography (for Chiropractic)	4
	Pathology (for Chiropractic)	3
	Chiropractic Practice 3	3
	Microbiology, Parasitology and Immunology (for Chiropractic)	3
	Physical Conditioning for Health, Fitness and Sport	4
	Exercise and Aging	2
	Chiropractic Assessment and Diagnosis 1	5
	Chiropractic Practice 4	3
	Genetics, Reproduction and Female Healthcare	2
	Clinical Health Management in Chiropractic Care	5
	Exercise and Physiology (for Chiropractic)	2
	Radiological Positioning in Clinical Practice	2
	Chiropractic Assessment and Diagnosis 2	5
	Chiropractic Practice 5	3
	Infectious Disease Outbreaks	1
	Integrated Assessment and Diagnosis in Chiropractic Practice	4
	Radiation Protection in Clinical Practice	2
	Chiropractic Practice 6	3
	Junior Clinic	4
	Integrated Clinical Sciences 1	3
	Clinical Chiropractic 1	2
	Diagnosis and Management 1	2
	Chiropractic Clinical Practicum 1	7
	Clinical Conference 1	3
	Diagnostic Imaging 1	2
	Integrated Clinical Sciences 2	3
Diagnosis and Management 2	2	
Chiropractic Clinical Practicum 2	7	
Clinical Conference 2	3	
<b>Total</b>	<b>115</b>	
Humanities (2%)	<b>Course</b>	<b>Credits</b>
	Ethics, Law and Professional Regulation (for Chiropractic)	2
	Practice and Business Management (for Chiropractors)	2
	<b>Total</b>	<b>4</b>

Scientific Methods (6%)	<b>Course</b>	<b>Credits</b>
	Research Methods	2
	Research Project	3
	Critical Thinking in Chiropractic Clinical Practice	4
	<b>Total</b>	<b>9</b>
Electives (2%)	<b>Course</b>	<b>Credits</b>
	Community Health	3
	Toxicology	1
	<b>Total</b>	<b>4</b>
ICT and Information Management Skills	Incorporated into all components	
IPTS Compulsory / IPTA Act (5%)	10% from credit hours for IPTA IPTS Compulsory	
	<b>Course</b>	<b>Credits</b>
	Pengajian Malaysia	3
	Pendidikan Moral	3
	Bahasa Malaysia	3
	<b>Total</b>	<b>9</b>
<b>GRAND TOTAL</b>	<b>155 credits</b>	