

PENAMBAHBAIKAN HASIL PEMBELAJARAN DALAM STANDARD PROGRAM

STANDARD PROGRAM: SAINS MAKLUMAT

A. Objektif Pembelajaran Program (Programme Educational Objective, PEO)

TAHAP	MATLAMAT PROGRAM YANG DINYATAKAN DALAM STANDARD PROGRAM SEDIA ADA	PENAMBAHBAIKAN YANG DILULUSKAN
<i>Diploma (Level 4, MQF)</i>	<i>The programme aims to produce graduates who possess a command of Information Science knowledge and information handling skills needed to serve the information needs of users.</i>	<p><i>PEO 1: To produce information personnel having good knowledge, technical competency and problem solving with relevant numeracy and digital skills, in information governance and services.</i></p> <p><i>PEO 2: To produce information personnel having the capability to lead with communication and interpersonal skills while complying with ethical and professional practices in serving the information service industry.</i></p> <p><i>PEO 3: To produce information personnel who are motivated for self-improvement with entrepreneurial mind-set for career development.</i></p>
<i>Bachelor's Degree (Level 6, MQF)</i>	<i>The programme aims to produce graduates who possess a comprehensive Information Science knowledge and information handling skills needed to serve the information needs of users with the ability to plan, manage and offer information sources and services.</i>	<p><i>PEO 1: To produce information professionals having strong knowledge, technical and analytical competency and problem solving capability with relevant numeracy and digital skills in information governance and services in line with industry needs.</i></p> <p><i>PEO 2: To produce information personnel having the capability to assume leadership position with good communication and interpersonal skills while</i></p>

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		<p><i>upholding ethical and professional practices in driving the information service industry.</i></p> <p><i>PEO 3: To produce information personnel who are self-driven and life-long learners with entrepreneurial mind-set for career progression.</i></p>
<p><i>Master's Degree (Level 7, MQF)</i></p>	<p><i>The programme aims to produce graduates who possess advanced knowledge in Information Science with the ability to critically evaluate, analyse, synthesise and conduct research in Information Science.</i></p>	<p><i>PEO 1: To produce information professionals having advanced knowledge, technical and analytical competency and innovative problem solving capability with relevant numeracy and sophisticated digital skills in information governance and services.</i></p> <p><i>PEO 2: To produce information personnel having the capability to lead with accountability, equipped with good communication and interpersonal skills while upholding ethical and professional practices in transforming the information service industry.</i></p> <p><i>PEO 3: To produce information personnel with outstanding personality and life-long learners with entrepreneurial mind-set for a successful career.</i></p>
<p><i>PhD by Mixed Mode and Research (Level 8, MQF)</i></p>	<p><i>The programme aims to produce graduates with the ability to carry out advanced research in the field of Information Science with the aim of facilitating discovery and contributing to new knowledge and practice.</i></p>	<p><i>PEO 1: To produce information professionals having advanced contemporary knowledge, technical and analytical competency and creative problem solving capability with strong numeracy and sophisticated digital skills in information governance and services.</i></p> <p><i>PEO 2: To produce scholars, researchers and change agents having the capability to lead with</i></p>

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		<p><i>accountability, equipped with good communication and interpersonal skills while upholding ethical and professional practices in transforming the information service industry.</i></p> <p><i>PEO 3: To produce scholars, researchers and change agents having outstanding personality and are life-long learners with entrepreneurial mind-set adaptable to the fast changing technological environment.</i></p>

B. Hasil Pembelajaran Program (Programme Learning Outcome, PLO)

TAHAP	HASIL PEMBELAJARAN YANG DINYATAKAN DALAM STANDARD PROGRAM SEDIA ADA	PENAMBAHBAIKAN YANG DILULUSKAN			
<p><i>Diploma (Level 4, MQF)</i></p>	<p><i>Upon completion of the programme, graduates should be able to:</i></p> <ul style="list-style-type: none"> <i>i. comprehend basic knowledge and skills of information science and related fields;</i> <i>ii. communicate effectively at all levels within the organisation and with the public;</i> <i>iii. identify issues and challenges in information science and related field;</i> <i>iv. comprehend knowledge of contemporary issues in information and communication technology (ICT) based management of information resources.</i> <i>v. display values, ethics, morality and professionalism in their fields;</i> <i>vi. perform effectively as an individual and in a group, with leadership, entrepreneurial and managerial skills;</i> <i>vii. apply technical competency and preservation of physical and intellectual content; and</i> <i>viii. apply lifelong learning and sustain the capacity to do so.</i> 	<table border="1"> <thead> <tr> <th data-bbox="1043 400 1688 432">LO</th> <th data-bbox="1688 400 2033 432">MQF Domain</th> </tr> </thead> </table>	LO	MQF Domain	
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		<p><i>Upon completion of the programme, graduates should be able to:</i></p>			
		<ul style="list-style-type: none"> <i>i. describe and relate concepts, theories and principles in information science and related fields;</i> 	<p><i>1. Knowledge & Understanding</i></p>		
		<ul style="list-style-type: none"> <i>ii. communicate with good interpersonal skills when engaging the various stakeholders in work related situations;</i> 	<p><i>4. Interpersonal Skills 5. Communication Skills</i></p>		
		<ul style="list-style-type: none"> <i>iii. perform technical skills with the use of relevant digital technology in managing information for efficient delivery of information governance and services;</i> 	<p><i>3. Practical Skills 6. Digital Skills</i></p>		
		<ul style="list-style-type: none"> <i>iv. comply to ethical and professional standards when dealing with information governance and services;</i> 	<p><i>11. Ethics & Professionalism</i></p>		
		<ul style="list-style-type: none"> <i>v. assume responsibility and leadership in relevant information governance and management contexts;</i> 	<p><i>8. Leadership, Autonomy & Responsibility</i></p>		
		<ul style="list-style-type: none"> <i>vi. apply appropriate numeracy skills and solve problems in improving information governance and services;</i> 	<p><i>2. Cognitive Skills 7. Numeracy Skills</i></p>		
		<ul style="list-style-type: none"> <i>vii. demonstrate basic entrepreneurial skills in performing relevant assigned tasks;</i> 	<p><i>10. Entrepreneurial Skills</i></p>		
<ul style="list-style-type: none"> <i>viii. apply information and knowledge for the enhancement of information governance and services; and</i> 	<p><i>1. Knowledge & Understanding 2. Cognitive Skills</i></p>				

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		ix. <i>commit to principles of lifelong learning together with positive attitude in carrying out tasks.</i>	9. <i>Personal Skills</i>																	
Bachelor's Degree (Level 6, MQF)	<p><i>Upon completion of the programme, graduates should be able to:</i></p> <ul style="list-style-type: none"> <i>i. comprehend knowledge and skills in information science and related fields;</i> <i>ii. communicate effectively at all levels within the organisation and with the public;</i> <i>iii. use the systems approach to design and evaluate the operational performance of information systems;</i> <i>iv. incorporate social, cultural, environmental and global responsibilities and ethics of professional information managers, as well as the need for sustainable development;</i> <i>v. display values, ethics, morality and professionalism in their field;</i> <i>vi. perform effectively as an individual and in a group, with leadership, entrepreneurial and managerial skills;</i> <i>vii. apply technical competency in preservation of physical and intellectual content;</i> <i>viii. analyse and evaluate information and knowledge for the enhancement of information management services;</i> <i>ix. comprehend knowledge of contemporary issues in information and communication</i> 	<table border="1"> <thead> <tr> <th data-bbox="1043 504 1693 536">LO</th> <th data-bbox="1693 504 2029 536">MQF Domain</th> </tr> </thead> <tbody> <tr> <td data-bbox="1043 536 1693 608"><i>Upon completion of the programme, graduates should be able to:</i></td> <td data-bbox="1693 536 2029 608"></td> </tr> <tr> <td data-bbox="1043 608 1693 711"><i>i. discuss and compare concepts, theories and principles in information science and related fields;</i></td> <td data-bbox="1693 608 2029 711">1. <i>Knowledge & Understanding</i></td> </tr> <tr> <td data-bbox="1043 711 1693 847"><i>ii. communicate effectively with good interpersonal skills when engaging the various stakeholders in work and society related situations;</i></td> <td data-bbox="1693 711 2029 847">4. <i>Interpersonal Skills</i> 5. <i>Communication Skills</i></td> </tr> <tr> <td data-bbox="1043 847 1693 983"><i>iii. perform technical skills with effective use of relevant digital technology in managing information for efficient delivery of information governance and services;</i></td> <td data-bbox="1693 847 2029 983">3. <i>Practical Skills</i> 6. <i>Digital Skills</i></td> </tr> <tr> <td data-bbox="1043 983 1693 1086"><i>iv. uphold ethical and professional standards when dealing with information governance and services;</i></td> <td data-bbox="1693 983 2029 1086">11. <i>Ethics & Professionalism</i></td> </tr> <tr> <td data-bbox="1043 1086 1693 1190"><i>v. assume responsibility and leadership with autonomy in relevant information governance and management contexts;</i></td> <td data-bbox="1693 1086 2029 1190">8. <i>Leadership, Autonomy & Responsibility</i></td> </tr> <tr> <td data-bbox="1043 1190 1693 1326"><i>vi. apply analytical skills including appropriate numeracy skills and solve problems in improving information governance and services;</i></td> <td data-bbox="1693 1190 2029 1326">2. <i>Cognitive Skills</i> 7. <i>Numeracy Skills</i></td> </tr> <tr> <td data-bbox="1043 1326 1693 1396"><i>vii. demonstrate entrepreneurial mid-set in performing relevant assigned tasks;</i></td> <td data-bbox="1693 1326 2029 1396">10. <i>Entrepreneurial Skills</i></td> </tr> </tbody> </table>	LO	MQF Domain	<i>Upon completion of the programme, graduates should be able to:</i>		<i>i. discuss and compare concepts, theories and principles in information science and related fields;</i>	1. <i>Knowledge & Understanding</i>	<i>ii. communicate effectively with good interpersonal skills when engaging the various stakeholders in work and society related situations;</i>	4. <i>Interpersonal Skills</i> 5. <i>Communication Skills</i>	<i>iii. perform technical skills with effective use of relevant digital technology in managing information for efficient delivery of information governance and services;</i>	3. <i>Practical Skills</i> 6. <i>Digital Skills</i>	<i>iv. uphold ethical and professional standards when dealing with information governance and services;</i>	11. <i>Ethics & Professionalism</i>	<i>v. assume responsibility and leadership with autonomy in relevant information governance and management contexts;</i>	8. <i>Leadership, Autonomy & Responsibility</i>	<i>vi. apply analytical skills including appropriate numeracy skills and solve problems in improving information governance and services;</i>	2. <i>Cognitive Skills</i> 7. <i>Numeracy Skills</i>	<i>vii. demonstrate entrepreneurial mid-set in performing relevant assigned tasks;</i>	10. <i>Entrepreneurial Skills</i>
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<p><i>Master's Degree (Level 7, MQF)</i></p>	<p><i>Upon completion of the programme, graduates should be able to:</i></p> <p>i. <i>demonstrate advanced knowledge in information science and related fields;</i></p> <p>ii. <i>demonstrate leadership qualities through communicating and working effectively with peers and stakeholders;</i></p> <p>iii. <i>apply practical skills in information science;</i></p> <p>iv. <i>relate ideas to societal issues in information science;</i></p> <p>v. <i>conduct research and adhere to legal, ethical and professional codes of practice;</i></p> <p>vi. <i>apply values, ethics, morality and professionalism in the pursuit of their goals;</i></p> <p>vii. <i>incorporate social, cultural, environmental and global responsibilities and ethics of professional information managers, as well as the need for sustainable development;</i></p>	<table border="1"> <thead> <tr> <th data-bbox="1043 676 1682 711">LO</th> <th data-bbox="1682 676 2029 711">MQF Domain</th> </tr> </thead> <tbody> <tr> <td data-bbox="1043 711 1682 783"> <p><i>Upon completion of the programme, graduates should be able to:</i></p> </td> <td data-bbox="1682 711 2029 783"></td> </tr> <tr> <td data-bbox="1043 783 1682 919"> <p>i. <i>critically analyse concepts and theories, as well as contemporary issues and challenges in information science and related fields;</i></p> </td> <td data-bbox="1682 783 2029 919"> <p>1. <i>Knowledge & Understanding</i></p> </td> </tr> <tr> <td data-bbox="1043 919 1682 1054"> <p>ii. <i>articulate contemporary issues coherently in information science and related fields while engaging stakeholders with good interpersonal skills;</i></p> </td> <td data-bbox="1682 919 2029 1054"> <p>4. <i>Interpersonal Skills</i> 5. <i>Communication Skills</i></p> </td> </tr> <tr> <td data-bbox="1043 1054 1682 1158"> <p>iii. <i>display sophisticated digital literacy in utilizing cutting edge analytical tools and applications in performing tasks;</i></p> </td> <td data-bbox="1682 1054 2029 1158"> <p>3. <i>Practical Skills</i> 6. <i>Digital Skills</i></p> </td> </tr> <tr> <td data-bbox="1043 1158 1682 1262"> <p>iv. <i>uphold ethical and professional conduct when dealing with information science-related issues;</i></p> </td> <td data-bbox="1682 1158 2029 1262"> <p>11. <i>Ethics & Professionalism</i></p> </td> </tr> <tr> <td data-bbox="1043 1262 1682 1361"> <p>v. <i>assume responsibility and leadership with autonomy in sustainable management of information services;</i></p> </td> <td data-bbox="1682 1262 2029 1361"> <p>8. <i>Leadership, Autonomy & Responsibility</i></p> </td> </tr> </tbody> </table>	LO	MQF Domain	<p><i>Upon completion of the programme, graduates should be able to:</i></p>		<p>i. <i>critically analyse concepts and theories, as well as contemporary issues and challenges in information science and related fields;</i></p>	<p>1. <i>Knowledge & Understanding</i></p>	<p>ii. <i>articulate contemporary issues coherently in information science and related fields while engaging stakeholders with good interpersonal skills;</i></p>	<p>4. <i>Interpersonal Skills</i> 5. <i>Communication Skills</i></p>	<p>iii. <i>display sophisticated digital literacy in utilizing cutting edge analytical tools and applications in performing tasks;</i></p>	<p>3. <i>Practical Skills</i> 6. <i>Digital Skills</i></p>	<p>iv. <i>uphold ethical and professional conduct when dealing with information science-related issues;</i></p>	<p>11. <i>Ethics & Professionalism</i></p>	<p>v. <i>assume responsibility and leadership with autonomy in sustainable management of information services;</i></p>	<p>8. <i>Leadership, Autonomy & Responsibility</i></p>	
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	<ul style="list-style-type: none"> viii. generate solutions to problems using scientific and critical thinking skills; ix. acquire competency in the preservation of physical and intellectual content; x. formulate and express ideas effectively in written and verbal forms; xi. prepare, publish and present technical material to a diverse audience; and xii. manage and advocate information for lifelong learning. 	<ul style="list-style-type: none"> vi. develop business solutions with analytical and appropriate numeracy skills in improving information governance and services; 	<ul style="list-style-type: none"> 2. Cognitive Skills 7. Numeracy Skills 										
		<ul style="list-style-type: none"> vii. show entrepreneurial mind set with creativity in delivery of information governance and services; 	<ul style="list-style-type: none"> 10. Entrepreneurial Skills 										
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<p>PhD by Mixed Mode and Research (Level 8, MQF)</p>	<p>Upon completion of the programme, graduates should be able to:</p> <ul style="list-style-type: none"> i. demonstrate a systematic comprehension and in-depth understanding of the discipline; ii. demonstrate a mastery of research methods related to the field of information science and other related fields; iii. critically analyse, evaluate and synthesise new and complex ideas; iv. show scholarly capabilities to generate, design, implement and adopt the integral part of the research process; v. demonstrate behaviour that is consistent with codes of professional ethics, legal requirements and responsibility; 	<table border="1" style="width: 100%; border-collapse: collapse;"> <thead> <tr> <th data-bbox="1043 879 1682 919" style="text-align: center;">LO</th> <th data-bbox="1682 879 2040 919" style="text-align: center;">MQF Domain</th> </tr> </thead> <tbody> <tr> <td data-bbox="1043 919 1682 983"> <p>Upon completion of the programme, graduates should be able to:</p> </td> <td data-bbox="1682 919 2040 983"></td> </tr> <tr> <td data-bbox="1043 983 1682 1126"> <ul style="list-style-type: none"> i. critically evaluate existing concepts and theories in information governance and services to identify gaps in the body of knowledge; </td> <td data-bbox="1682 983 2040 1126"> <ul style="list-style-type: none"> 1. Knowledge & Understanding </td> </tr> <tr> <td data-bbox="1043 1126 1682 1262"> <ul style="list-style-type: none"> ii. design or construct effective theoretical research framework and methodology leading to breakthroughs in information governance and services; </td> <td data-bbox="1682 1126 2040 1262"> <ul style="list-style-type: none"> 2. Cognitive Skills 3. Practical Skills </td> </tr> <tr> <td data-bbox="1043 1262 1682 1394"> <ul style="list-style-type: none"> iii. display sophisticated digital and numeracy skills in utilizing cutting edge data analytical tools and software in research activities; </td> <td data-bbox="1682 1262 2040 1394"> <ul style="list-style-type: none"> 6. Digital Skills 7. Numeracy Skills </td> </tr> </tbody> </table>	LO	MQF Domain	<p>Upon completion of the programme, graduates should be able to:</p>		<ul style="list-style-type: none"> i. critically evaluate existing concepts and theories in information governance and services to identify gaps in the body of knowledge; 	<ul style="list-style-type: none"> 1. Knowledge & Understanding 	<ul style="list-style-type: none"> ii. design or construct effective theoretical research framework and methodology leading to breakthroughs in information governance and services; 	<ul style="list-style-type: none"> 2. Cognitive Skills 3. Practical Skills 	<ul style="list-style-type: none"> iii. display sophisticated digital and numeracy skills in utilizing cutting edge data analytical tools and software in research activities; 	<ul style="list-style-type: none"> 6. Digital Skills 7. Numeracy Skills 	
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	<ul style="list-style-type: none"> vi. <i>apply values, ethics, morality and professionalism in the pursuit of their goals;</i> vii. <i>communicate with peers, scholarly communities and society at large through the preparation, publication and presentation of scholarly materials;</i> viii. <i>promote technological, social and cultural progress in a knowledge based society in both the academic and professional contexts; display leadership qualities through communicating and working effectively with peers and stakeholders;</i> ix. <i>contribute to original research that broadens the boundary of knowledge through an in-depth study, which has been presented and defended according to international standards, including writing in refereed publications;</i> x. <i>generate solutions to problems using scientific and critical thinking skills; and</i> xi. <i>manage and advocate information for lifelong learning.</i> 	<ul style="list-style-type: none"> iv. <i>uphold legal, ethical and professional conduct when conducting independent research;</i> 	<ul style="list-style-type: none"> 11. <i>Ethics & Professionalism</i>
		<ul style="list-style-type: none"> v. <i>articulate research proposal and empirical findings in a precise and logical manner while engaging peers, scholarly communities and the community with good interpersonal skills;</i> 	<ul style="list-style-type: none"> 4. <i>Interpersonal Skills</i> 5. <i>Communication Skills</i>
		<ul style="list-style-type: none"> vi. <i>assume responsibility and leadership with autonomy in delivering governance and information services;</i> 	<ul style="list-style-type: none"> 8. <i>Leadership, Autonomy & Responsibility</i>
		<ul style="list-style-type: none"> vii. <i>interpret research findings and generate solutions using scientific and critical thinking skills and entrepreneurial mind-set; and</i> 	<ul style="list-style-type: none"> 2. <i>Cognitive Skills</i> 10. <i>Entrepreneurial Skills</i>
		<ul style="list-style-type: none"> viii. <i>commit to principles of lifelong learning together with dynamic and effective personal management skills in carrying out research for self-improvement and successful career.</i> 	<ul style="list-style-type: none"> 9. <i>Personal Skills</i>