



**Universiti Tun Hussein Onn Malaysia
86400 Batu Pahat, Johor**



Academic Proforma 2020/2021

**Bachelor Degree in Vocational
Education (Multimedia
Creative) with honours
Faculty of Technical and Vocational
Education**

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Universiti Tun Hussein Onn Malaysia
September 2020

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Foreword from the Vice Chancellor

Assalammualaikum Warahmatullahi Wabarakatuh and Warm Greetings

Our utmost gratitude to Allah the Almighty, I am able to share and pen down a couple of words and advices to readers of this proforma especially to new students of Universiti Tun Hussein Onn Malaysia (UTHM) whom had just enrolled in this 2020/2021 Academic Session.

Congratulations and welcome to the new students and thank you for believing in UTHM for your continuing endeavour in the search of knowledge towards the success in your future career and life betterment.

For your information, University leadership continues to strive in the search of, designing, and adapting the effective and efficient approaches that would able to produce the highest impact towards making UTHM a top Higher Education Institution. The success in obtaining “QS STARS RATED FOR EXCELLENCE 2015 and UTHM was recognized as the Top 300 in the QS World University Ranking by Subject 2015 for Mechanical, Aeronautical and Manufacturing Engineering, have proven that UTHM continues creating excellence. These successes have convinced the University that these are due to the alignment of University's vision and mission which are continually strengthen and improve.

As the Vice Chancellor, I gave full confidence that UTHM is currently on the right track in the effort towards the success of the 10 Shifts identified in the Malaysia Education Blueprint (Higher Education). Based on the details outlined in the Malaysia Education Blueprint (Higher Education), UTHM is committed in producing human capital and disseminating knowledge to meet the needs of the industry and the community as well as to nurture creative and innovative human capital.

Last but not least, I believe that you will become graduates of the University that will successfully continue the University excellence tradition. When you graduated, you will become the member of society that will not only be able to apply the knowledge gained but also be able to contribute service and expertise for the importance and the needs of Religion, Race and Nation.

PROF. DATUK TS. DR. WAHID BIN RAZZALY

Vice-Chancellor
Universiti Tun Hussein Onn Malaysia

Foreword from the Deputy of Vice Chancellor (Academic and International)

Assalamualaikum Warahmatullahi Wabarakatuh and Warm Greetings

I would like to take this opportunity to express the utmost congratulations and well done to you as the new students whom have been successfully been selected to pursue studies at Universiti Tun Hussein Onn Malaysia for this 2020/2021 session.

I would also like to congratulate Centre for Academic Development and Training that has successfully produced the proforma which will be used as a guide for students in planning the studies beginning from the first semester until the end of the studies at this University.

Detailed planning which is effectively implemented at every semester as well as early preparation of students before attending lectures is very important in ensuring the readiness of learning process. Apart from that, the preparation for co-curriculum program also is important in shaping the personality and social development of students.

I hope that the publication of this proforma can be fully utilized by you in planning your studies at the University and you are capable of obtaining the best results as well as attaining excellent success.

Last but not least, I would like to wish "All the Best" and I pray that you will achieve excellent success in your studies at UTHM and thus can contribute as the human capital towards religion, race and nation development.

Thank you.

PROF. DR. ISMAIL BIN ABDUL RAHMAN

Deputy of Vice Chancellor
(Academic and International)
Universiti Tun Hussein Onn Malaysia

Foreword from the Dean of Faculty of Technical & Vocational Education

Assalamualaikum Warahmatullahi Wabarakatuh dan Greetings

As the starting point, I would like to congratulate all new students at the Faculty of Technical and Vocational Education (FPTV) UTHM for the 2020/2021 academic session. All of you are very fortunate to be selected to enter this University compare to many other candidates who have submitted an application to enter to this university, and still seeking for the opportunity to persue their studies. Therefore, you should be grateful and remember that being selected to this university is a great privilege that should not be wasted.

In order to accomplish the University's and FPTV missions which are to produce and train competitive professionals and future teachers of high ethical values, you will be guided by qualified, committed, and responsible academic staff. FPTV offers academic programmes based on four major areas in the field of civil, electrical and mechanical engineering as well as hotel-catering programme. Various educational knowledge skills that will practice in technical and vocational education institutions, nationally and internationaly. Soft skills and gereric skills will be part of the trainings to ensure that students are fully responsible to their learning and instill with the high ethical and good values. To enhance students' understanding and creativity, the faculty provides laboratories equipped with the latest equipment and assisted by well-trained technicians. Students will also have to undergo practical work in the field relevant to the current technical and vocational education needs.

Therefore, you must take this opportunity to work extremely hard in order to achieve the aspirations of not only your parents but also the community and the country. Systematic planning of teaching and learning will produce outstanding and dedicated graduates.

Thank you.

ASSOCIATE PROFESSOR TS. DR ABDUL RASID BIN ABDUL RAZZAQ

Dean

Faculty of Technical & Vocational Education

Universiti Tun Hussein Onn Malaysia



Vision

Towards a world class university in engineering, science and technology for sustainable development

Mission

UTHM is committed to generate and disseminate knowledge, to meet the needs of industry and community and nurturing creative and innovative human capital, based on tauhidic paradigm

University Education Philosophy

The education and training in this university is a continuous effort to lead in the market oriented academic programmes. These programmes are student-focused and are conducted through experiential learning in order to produce well trained human resource and professionals who are catalysts for a sustainable development

University Logo

The logo of Universiti Tun Hussein Onn Malaysia (UTHM) is the pride, identity and idealism of the members of UTHM community. UTHM logo displays a Proton, Book, Tiered Mortar Board, Book Rest and Shield.

The whole concept of the logo symbolises UTHM as an Institution of Higher Learning which supports the growth and development of knowledge at all levels in fields of Science and Technology.

Blue represents a close-knit circle of members of UTHM community which ensures the success and enhancement of its educational and research programmes and activities for the benefits of mankind.

Red symbolises the courage of UTHM in the exploration of new fields as the pioneer in science and technology applications, which reflects the spirit and self-esteem of the members of UTHM community.

Symbolism:

Red: Courage

Blue: Co-operation/Loyalty

Silver: Quality/Prestige

Book Rest: Repository of knowledge

Proton: Science and technology

Book: Knowledge

Mortar board: Levels of study

Shield: Confidence

Chancellor



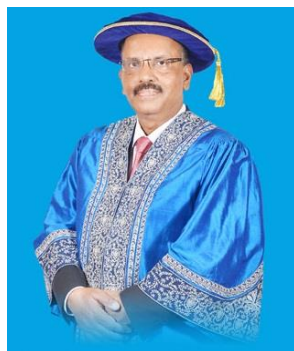
Duli Yang Maha Mulia Sultan Ibrahim Ibni Almarhum Sultan Iskandar
Sultan of Johor
D.K., D.K. (Pahang), SPMJ, SSIJ, S.M.N., S.P.M.T., S.M.P.K., P.I.S.

Pro Chancellor I



Duli Yang Amat Mulia Tunku Ismail Ibni Sultan Ibrahim
Tunku Mahkota of Johor (TMJ)
D.K., SPMJ, P.I.S

Pro Chancellor II



YBhg. Tan Sri Dr. Ali Hamsa
Chief Secretary to the Government of Malaysia

University Board of Directors

Chairman

Tan Sri (Dr.) Ir. Jamilus Bin Md Hussin
President/Chief Executive Officer
KLIA Premier Holdings Sdn. Bhd

Members

Professor Dr. Wahid Bin Razzaly
Vice-Chancellor
Universiti Tun Hussein Onn Malaysia

Tan Sri Dato' Sri Sufri Bin Hj Mohd Zin
Group Managing Director
TRC Synergy Berhad

Dato' Haji Nooh Bin Gadot
Advisor
Majlis Agama Islam Johor

Datuk Dr. Pang Chau Leong
Alumni Representative
Universiti Tun Hussein Onn Malaysia

Dato' Zainal Abidin Bin Mat Nor
Deputy Secretary of Public Asset Management Division
Ministry of Finance

Datuk Mat Noor Bin Nawi
Chairman
Exim Bank Berhad

Professor Dr. Mustafa Bin Mat Deris
Professor
Software Engineering Department
Faculty of Computer Science and Information Technology
Universiti Tun Hussein Onn Malaysia

YBrs. Associate Professor Dr. Arham Bin Abdullah
Director
Industrial Relation Division
Ministry of Education Malaysia

Mdm. Mazula Binti Sabudin
(Ministry of Higher Education Alternate Member)
Director of Student Enrollment Management Division
Department of Higher Education
Ministry of Higher Education Malaysia

Secretary

Mr. Abdul Halim bin Abdul Rahman
Registrar
Universiti Tun Hussein Onn Malaysia

Senate Members

Chairman

Professor Dr. Wahid Bin Razzaly
Vice-Chancellor

Members

Professor Dr. Ruzairi Abdul Rahim
Deputy Vice-Chancellor (Research And Innovation)

Associate Professor Dr. Asri Bin Selamat
Deputy Vice-Chancellor (Student Affairs And Alumni)

Professor Dr Azme Bin Khamis (Acting)
Deputy Vice-Chancellor (Academic & International)

Professor Dr. Ahmad Tarmizi Bin Abd Karim
Assistant Vice-Chancellor (Development, Facility Management And Ict)

Professor Dato' Dr. Abdul Razak Bin Hj. Omar
Assistant Vice-Chancellor (Community And Industrial Relations)

Professor Dr. Hj. Ismail Bin Abdul Rahman
Dean, Centre For Graduate Studies

Associate Professor Dr. Abdul Halid Bin Abdullah
Dean Faculty Of Civil And Environmental Engineering

Associate Professor Dr. Afandi Bin Ahmad
Dean Faculty Of Electrical And Electronic Engineering

Associate Professor Dr. Shahrudin Bin Mahzan@Mohd Zin
Dean Faculty Of Mechanical And Manufacturing Engineering

Dr. Mohd. Lizam Bin Mohd. Diah
Dean Faculty Of Technology Management And Business

Associate Professor Ts. Dr. Abdul Rasid Bin Abdul Razzaq
Dean Faculty Of Technical And Vocational Education

Associate Professor Dr. Nazri Bin Mohd Nawi
Dean Faculty Of Computer Science And Information Technology

Associate Professor Dr. Mohd. Kamarulzaki Bin Mustafa
Dean Faculty Of Science, Technology And Human Development

Associate Professor Dr. Ishak Bin Baba
Dean Faculty Of Engineering Technology

Associate Professor Dr. Mohamad Zaky Bin Noh
Dean Centre For Diploma Studies

Professor Dr. Azme Bin Khamis
Dean Centre For Academic Development And Training

Professor Dr. Rosman Bin Md Yusoff
Faculty Of Science, Technology And Human Development

Mdm Robijah Binti Kamarulzaman
Dekan Pusat Pengajian Bahasa

Professor Dr. Sulaiman Bin Hj Hasan
Faculty Of Mechanical And Manufacturing Engineering

Professor Dr. Yusri Bin Yusof
Director International Office

Professor Dr. Maizam Binti Alias
Faculty Of Technical And Vocational Education

Professor Dr. Jailani Bin Md. Yunos
Faculty Of Technical And Vocational Education

Professor Dr. Hj. Mustafa Bin Mat Deris
Faculty Of Computer Science And Information Technology

Professor Datin Dr. Maryati Binti Mohamed
Faculty Of Science, Technology And Human Development

Mr Abdul Halim Bin Abdul Rahman
Registrar

Mdm Azizah Binti Nasri
Acting Bursar

Mr Bharun Narosid Bin Mat Zin
Chief Librarian



Faculty Vision

To become a world class resource and referral centre on Technical and Vocational Education Training through research, continuous development as well as technological based teaching and learning processes, in line with the Philosophy of the National Education system to realize the Vision 2020.

Faculty Mission

To educate and train world class, competitive professional human capital in the various discipline, within the technical and vocational education, to explore, expand and apply knowledge and modern technologies, based on the concept of Tauhid.

Faculty Background

The Faculty of Technical and Vocational Education (FPTV) of the Universiti Tun Hussein Onn Malaysia (UTHM), was formally known as the Faculty of Technical Education (FTE). Our inception began in September 27th, 2000, as the Department of Technical and Vocational Education (DTVE) under the auspices of the Faculty of Engineering Technology, Kolej Universiti Teknologi Tun Hussein Onn (KUiTTHO).

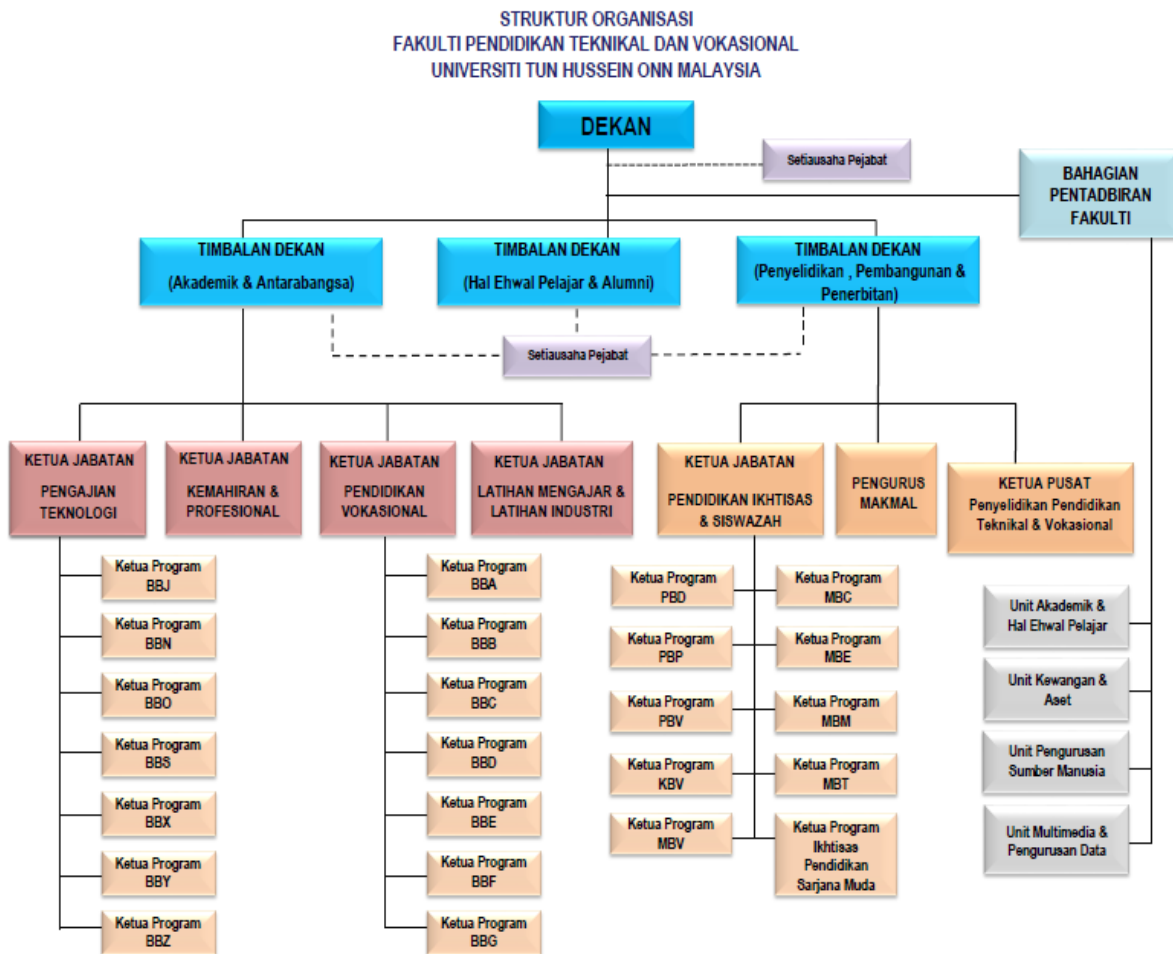
Our renowned excellences in Teachers Training in Technical and Vocational Education and Training (TT-TVET) niche areas is traceable back to the year 1993 when we started as one of the core departments of the Polytechnics Staff Training Centre (PSTC) that produced qualified polytechnics lecturers and instructors. PSTC was upgraded and renamed as Kolej Universiti Teknologi Tun Hussein Onn (KUiTTHO) on May 1998. On May 27th, 2000, the department was restructured and renamed as the Department of Technical and Vocational Education (DTVE) under the auspices of the Faculty of Engineering Technology, KUiTTHO. On May 1st, 2004, the department was upgraded as the Faculty of Technical Education with the dissolution of Department of Engineering Technology. The rebranding of the faculty to the present new name, is endorsed by the Ministry of Higher Education on June 23rd, 2011, to reflect our continuous and significant contributions to the rapid changes and transformation of the Technical and Vocational Education (TVET) Systems, both locally and abroad.

Today, FPTV has developed to become the major provider and referral centre of high quality TT-TVET programmes, researches and consultancies. Since 2002, UNESCO-UNEVOC Bonn entrusted the faculty to carry the role as UNESCO

-UNEVOC Associate Centre and ultimately in 2005, the faculty has become UNESCO-UNEVOC centre in Malaysia. FPTV does not stand alone in making reputation to its credentials. Collaborations and networking with regional and international organizations such as Southeast Asian Ministers of Education Organization Regional Centre for Vocational and Technical Education and Training (SEAMEO VOCTECH), Korea Research Institute for Vocational Education and Training (KRIVET), Colombo Plan Staff College for Technician Education Philippines (CPSC), The National Centre for Career and Technical Education USA (NCCTE), European Centre for the Development of Vocational Training (CEDEFOP) and others have been made as initiatives to upgrade the quality and credibility of technical and vocational education for the benefit of all.

FPTV is the professional faculty with niche in TT-TVET. The faculty offers a range of quality academically balanced and practical-oriented programmes to meet the changing needs of the teaching and training sectors of the economy. Our programmes of study are dynamics that leads the rapidly transformation of TVET both regional and worldwide. Our qualified and experienced academics and supporting staffs are dedicated to providing a high standard and *state-of-the-art* theoretical and practical knowledge in a stimulating and innovative learning atmosphere.

The faculty, consisted of five (5) departments and a research center that is led by a Dean and assisted by three (3) Deputy Deans. Organisation chart of FPTV is depicted the diagram overleaf.





UNESCO-UNEVOC International Centre
for Technical and Vocational Education and Training
Bonn, Germany

presents this


UNEVOC CENTRE AWARD

to

Universiti Tun Hussein Onn Malaysia

in recognition of being a UNEVOC Centre
dedicated to furthering UNESCO goals
in the area of technical and vocational education and training

Presented this 25th day of November 2007


L. Efison Munjanganga
Head
UNEVOC Networks, Bonn


Rupert Maclean
Director
UNESCO-UNEVOC International Centre, Bonn

Faculty Staff Directory

Administrative

Dean

Associate Prof. Ts Dr. Abdul Rasid Bin Abdul Razzaq

Ph.D (Town & Regional Planning) (UTM), Master of Tourism Planning (UTM), Bachelor of Business Management (UUM), Dip. (Maktab Perguruan Teknik, KL)

Deputy Dean (Academic & International)

Ts Dr. Mohd Hasril Bin Amiruddin

Ph.D (Technical & Vocational Education) (UKM), Master (Technology Education) (UPM), Bachelor (Technical & Vocational Education) (UTHM), Diploma (PSA)

Deputy Dean (Research, Development & Publication)

Associate Prof. Ts Dr. Badaruddin Bin Ibrahim

Ph.D (Colorado State Uni.), Master (Technical Education) (UTM), Bachelor (Mechanical Engineering) (ITTHO)

Deputy Dean Student Affairs & Alumni

Associate Prof. Ts Dr. Azman Bin Hasan

Ph.D (Technical & Vocational Education) (UTM), Master (Technical Education) (KUiTTHO), Bachelor (Civil Engineering) (ITTHO)

Office Secretary

Mrs. Mollyza Binti Abd Majid

Diploma (UiTM)

Office Secretary

Mrs. Zarina Binti Atan

Diploma (UiTM)

Senior Asst. Registrar

Miss Rohana binti Dollah

Sarjana Muda Pentadbiran Korporat (Setiausaha Syarikat)

Asst. Admin. Officer (Finance & Asset)

Mrs. Suzana Binti Ojudah

Bachelor (OUM), Diploma (UiTM)

Asst. Admin. Officer (Academic & Student Affairs)

Mrs. Norina Binti Alwee

Diploma (UiTM)

Senior Asst. IT Officer (Multimedi & Data Management)

Mrs. Farizah Binti Sudin

Diploma (Information Tech.) (UiTM)

Senior Clerk

Mr. Hazni Bin Md Harith

SPM (SM Dato Onn, Batu Pahat)

Senior Clerk

Mrs. Ruzehan Binti Md. Shah

Cert. (Kolej Komuniti Yayasan Pelajaran Johor), STPM (SM Tun Sardon), SPM (SM Tun Sardon)

Clerk

Mrs. Nor Afizah Binti Omar

STPM (SM (P) Temenggong Ibrahim), SPM (SM (P) Temenggong Ibrahim)

Clerk

Mrs. Hernany binti Abd Kadir

Certificate/Sijil Komunikasi (Institut Perdagangan Mara)

Clerk

Mr. Mohd Nazri bin Md Sapi @ Safri

SPM (Sek. Men. Keb. Munshi Sulaiman)

General Office Asst.

Mr. Haszizan Bin Hasbullah

SPM (Smk Pt Haji Hassan)

Professional Education Department

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Head of Professional Education Department

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Ph.D (Evaluation and Assessment) (UKM), Master (Technical & Vocational Education) (KUiTTHO), Bachelor (Civil Eng.) (KUiTTHO)

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Ph.D (Technology Management) (UTHM), Master (Environmental Management) (UKM), Bachelor (Arts) (UKM)

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Ph.D (Technology Education) (UTM), Master (Technology Education) (UTM), Bachelor (Mathematic) (UTM)

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Ph.D (Teaching & Curriculum) Master (Technical & Vocational Education) (UTHM), Bachelor (Technical & Vocational Education) (UTHM)

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Dr. Noorazman Bin Abd. Samad

Ph.D (Technical & Vocational Education) (UTHM), Master (Curriculum & Pedagogy) (UKM), Bachelor (Public Management) (UUM), Diploma (Edu. Management) (UM)

Ts. Dr. Yee Mei Heong

Ph.D (Technical & Vocational Education) (UTHM), Master (Technical & Vocational Education) (UTM), Bachelor (Technology with Education) (UTM)

Dr. Nur Syamimi Binti Mohd Razali

Ph.D (Education Technology) (UTM), Bachelor (Education & Science) (UTM).

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Ph.D (Education) (UTHM), Master (Technical & Vocational Education) (UKM), Bachelor (Technology Management) (UTHM).

Asst. Engineer

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Cert.of Elect. Communication (Politeknik Ungku Omar, Ipoh).

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Mrs. Noor Hayati Binti Mustafa

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Mr. Omar Bin Motaji

Cert.of Elect. Communication (Politeknik Ungku Omar, Ipoh).

Mr. Mansor Bin Mordi

Cert.of Elect. Communication (Politeknik Sultan Haji Ahmad Shah, Kuantan).

Mr. Yushadi Bin Muslim

Cert.of Elect. Communication (Politeknik Sultan Haji Ahmad Shah, Kuantan).

Mrs. Zanariah Binti Ahmad

Cert.of Elect. Communication (Politeknik Sultan Ahmad Shah).

Vocational Education Department

Academic staff

Head of Vocational Education Department

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Mr. Hairuddin Bin Harun

Master (Education) (UTM), Bachelor (Hospitality Management) (The Ohio State University)

Asst. Engineer

Mr. Khairul Fahmi Bin Haji Ali

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Mrs. Johanisah Binti Afandi

Cert.of Elect. Communication (Politeknik Kota Bharu).

Mr. Mohd Idrus Bin Abd Samad @ Sahmad

Dip. (Politeknik Johor Bharu), Cert.of Mech. Eng (Politeknik Port Dickson)

Mr. Aminuddin Bin Abas

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Mr. Mohamad Rafi Bin Rahhim

Cert.of Elec. Power (Politeknik Port Dickson)

Mr. Muhammad Muzammil Bin Noruddin

Dip. (Politeknik Merlimau), Cert.of Mech. Eng (Politeknik Merlimau).

Mr. Mohd Razali Bin Mohd Muksin

Cert. (Politeknik Sultan Salahudin Abdul Aziz Shah, Shah Alam).

Mr. Mohd Syah Hafiz Bin Masrol

Cert. (Electric & Electronic) (Politeknik Johor Bharu)

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Dip. (Electronic Computer), Cert. (Electric & Electronic Eng.) (Politeknik Johor Bharu)

Mrs. Manisah Binti Suriati @ Suriat

Dip. (Electronic), Cert. (Electric & Electronic Eng) (Politeknik Johor Bharu)

Mr. Khairul Nizam Bin Mohd Nazri

Cert. (Mechanical Eng.) (Politeknik Kota Melaka).

Mrs. Noor Fariza Binti Tubi

Dip. (Civil Engineering) (Politeknik Port Dickson), Cert. (Civil Eng.) (Politeknik Merlimau).

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Ts. Rosnee Binti Ahad

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Diploma (IT) (IPP)

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Diploma (Hotel Management) (UNITAR)

Ts. Mohd Fairuz Bin Marian

Master (Mechanical Engineering) (UTHM), Bachelor (Mechanical Engineering) (KUiTTTHO)

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Head of Teaching Practice and Industrial Training Department

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Diploma (Culinary Arrts) (UNITAR)

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Master (Food Servis Management) (UTM), Bachelor (Culinary Arrts) (UTM)

ACTIVE

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Head of ACTIVE

Associate Prof. Dr. Nor Lisa Binti Sulaiman

PhD (Education & Human Resource) (Colorado State University), Master (Education) (UTM), Bachelor (Electrical Engineering) (UTM), Cert. (PPD)

Programme Name

Bachelor Degree in Vocational Education (Multimedia Creative) with honours

Programme Aims

The program is designed to be in line with the vision and mission of the University. Through this program, graduates are expected to become part of the skilled worker which is capable in driving the growth of the country accordance with the aspirations of Vision 2020. This will be done with the course emphasizing new technologies, which also include theoretical and practical skills. In addition, this program will also expose students to a variety of activities that can increase the generic skills and personality.

Programme Educational Objectives (PEO)

These are the PEOs for Bachelor Degree in Vocational Education (Creative Multimedia) with honours:

- PEO 1 : Knowledgeable and skilled in the field of vocational education (Creative Multimedia) in line with the needs of the national education industry.
- PEO 2 : Able to communicate effectively and have a high quality of professional leadership in line with the responsibilities given across the diversity of community background, personality, complexity of the educational process in the field of vocational education from primary to tertiary level.
- PEO 3 : Able to solve problems creatively and innovatively in the field of vocational education (Creative Multimedia) and always display, strengthen, appreciate the ethics and professional code of practice as well as the values of the teaching profession in educational practice.
- PEO 4 : Able and wise in strengthening positive and productive relationships with family and community as well as engaging in lifelong learning and contributing to life.
- PEO 5 : Skilled in applying technology to improve efficiency and training skills according to the needs of the country's vocational education.
- PEO 6 : Demonstrate high skills in entrepreneurial skills, the ability to enhance knowledge, talents and personalities gradually and continuously in the field of Creative Multimedia.

Programme Learning Outcomes (PLO)

These are the PEOs for Bachelor Degree in Vocational Education (Creative Multimedia) with honours:

- PLO 1 : Analyze and develop students' knowledge and understanding of (student learning) in certain subjects, across curriculum activities and programs to achieve the entire curriculum of educational institutions that will be provided services.
- PLO 2 : Apply various philosophies and effective practical skills to educational situations both in terms of different levels of education and educational settings.
- PLO 3 : Creative and innovative in promoting the use of the knowledge corpus in teaching profession and quality practice protocols in the educational environment as well as address the context of students' cultural diversity in a sensitive, effective and prudent manner to foster learning, and competent student talents and potential.
- PLO 4 : Meet the requirements of a professional teaching standard documented at all levels (schools, colleges, universities and other learning organizations).
- PLO 5 : Apply knowledge of interpersonal skills, communication skills and able to work collaboratively and independently to solve problems in different educational environments.
- PLO 6 : Exhibit and appropriately demonstrate professional leadership characteristics to the given responsibilities.
- PLO 7 : Prudently apply problem-solving skills and scientific skills as well as awareness of the role of research through mastery of knowledge and understanding in their evolving professional practice.
- PLO 8 : Reflect and learn from their own experiences in order to advance and drive their learning forward, for example, by using the theory of constructivism for universal benefit.
- PLO 9 : Practicing and demonstrating management, entrepreneurship and ICT skills as well as being responsive to changes in education as an academic and professional discipline.
- PLO 10 : Develop encyclopedic general knowledge and diverse individual talents and potential to the highest level consistently and incrementally.
- PLO 11 : Contribute to community development through professionals or voluntary organizations through active involvement in social responsibility
- PLO 12 : Exhibit and demonstrate research, creativity, innovation and design capabilities.

Curriculum Structure

Table 1: Summary of curriculum structure for the Bachelor Degree in Vocational Education (Multimedia Creative) with honours

Year	Semester	Subject Code	Subject	Credit	Total
1	I	UQI 10102	Islamic Studies	2	17
		UQI 10202	Moral Studies		
		UQU10103	Nationhood and Current Development of Malaysia	3	
		UQ* 1**02	Foreign Language	2	
		BBD 10202	Educational Psychology	2	
		BBP 10603	Mathematics 1	3	
		BBD 10803	information Technology in Education	3	
		BBD 10102	Philosophy of Education	2	
	II	UHB10102	English for Higher Education	2	17
		UQU10702	Appreciation, Ethics and Civilization	2	
		UQI11202	Philosophy and Current Issues	2	
		UQ* 1***1	Co-Curriculum I	1	
		BBP 10502	Creativity and Innovation in TVE	2	
		BBU 10203	Basic Graphic	3	
BBP 45302		Ethics in Computing	2		
BBP 15103		Computer Programming	3		
III	BBD10500	School Orientation Planning (2 weeks)	CA		
2	I	UHB20102	Essential Academic English	2	19
		BBD 10302	Pedagogy	2	
		BBD 20202	Educational Technology	2	
		BBD20603	Education Management	3	
		BBP 20202	Occupational Safety and Health	2	
		BBP40302	Entepreneurship	2	
		BBU 20202	Mathematic in Computer Communication	2	
		BBU 20403	Digital Graphic Design	3	
		BBU 40503	Multimedia Development 1		
		UQ* 1***1.	Co-Curriculum II	1	
		II	UHB30102	English for Technical Purposes	
	BBD20703		Measurement and Evaluation in Education	3	
	BBD 20802		Technical and Vocational Education and Planning	2	
	BBD 30302		Guidance and Caunseling	2	
	BBP 20402		Project Management	2	
	BBP 25203		Data Structure and Algorithm	3	

		BBU 30103	DigitalAudio Video Production	3	
3	I	BBP 30403	Research Methodology in TVE	3	17
		BBP 30103	Laboratory and Workshop Management	3	
		BBD 20403	Micro teaching	3	
		BBD 30402	Educational Data Reasoning	2	
		BBU 20103	Human Computer Interaction	3	
		BBU 10303	Basic Multimedia		
		BBU 30303	Technology Animation	3	
	II	UHB40102	English for Occupational Purposes	2	15
		BBD 30502	Sociology in Education	2	
		BBP 40102	Final Year Project 1	2	
		BBU 40203	Web Programming	3	
		BBU 20303	Multimedia Authoring	3	
		BBU 40603	Multimedia Development II		
		BBU 30203	3D Modeling	3	
4	I	BBP 40204	Final Year Project 2	4	14
		BBU 40303	Business in Multimedia	3	
		BBU 40104	Multimedia Production Project	4	
		BBU 30403	Computer Network	3	
	II	BBP40408	Teaching Training	8	8
	III	BBP 30404	Industrial Training	4	4
			Total credit		128

Note:

CA : Compulsory Attendance

Table 2: The list of elective courses for the Bachelor Degree in Vocational Education (Multimedia Creative) with honours

No	Code	Elective Course	Credit
1	BBP 15103	Computer Programming	3
2	BBU 10203	Basic Graphic	3
3	BBP 25203	Data Structure and Algorithms	3
4	BBP 20403	Digital Graphic Design	3
5	BBU 20202	Mathematics in Computer Communication	2
6	BBU 20103	Human Computer Interaction	3
7	BBU 20303	Multimedia Authoring	3
8	BBU 30103	Digital Video Audio Production	3
9	BBU 30203	3D Modelling	3
10	BBU 30303	Technology Animation	3
11	BBU 30403	Computer Networks	3
12	BBU 40104	Multimedia Production Project	4
13	BBU 40203	Web Programming	3
14	BBU 40303	Business in Multimedia	3
15	BBP 45302	Ethics In Computing	2
16	BBU 10303	Basic Multimedia	3
17	BBU 40503	Multimedia Development I	3
18	BBU 40603	Multimedia Development II	3

University Course Synopsis

UQ* 10602 French Language

Prerequisite Course: None

Synopsis

This course is designed for students to learn the basic of French. Students are exposed to the skills of listening, reading, speaking and writing with basic vocabulary, grammar and structure. Students are also exposed to the real daily situations which will help them to communicate using French.

References

1. Booth, Trudie Maria, (2008). French Verbs Tenses. McGraw-Hill. Call no.: [PC 2271, U66 2008].
2. Heminway, Annie, (2008). Complete French Grammar. McGraw-Hill. Call no.: [PC2112, H45 2008].
3. Price, Glanville, (2003). A Comprehensive French Grammar. Blackwell Publishing. Call no.: [PC2112. P74, 2003].
4. Hatier. (2002). Le Nouveau Bescherelle 12,000 French Verbs. English Edition. Paris: Librairie Hatier.
5. Hatier, (1995). Le Nouveau Bescherelle Complete Guide 12 000 French Verbs. Paris: Librairie Hatier.
6. Kaneman-Pougatch, Massia et al, (1997). Méthod de français: Café Crème 1. Paris: Hachette F.L.E.
7. Grégoir, Maïa et al, (1995). Grammaire Progressive du Français avec 500 exercices. Paris: CLE International.
8. Miquel, Claire Leroy et al, (1995). Vocabulaire Progressive du Français avec 250 exercices. Paris: CLE International.
9. Capelle, Guy et Gidon, Noëlle, (1995). Méthod de français: Le Nouvel Espaces 1. Paris: Hachette F.L.E.

10. French Dictionary (1999). The New Collins Robert 5th Edition. Paris: Harper Collins Publishers.

UQ*10902 Mandarin Language

Prerequisite Course: None

Synopsis

This course is designed for students to learn the basic of Mandarin. Students are exposed to the skills of listening, reading, speaking and writing with basic vocabulary, grammar and structure. Students are also exposed to the real daily situations which will help them to communicate using Mandarin Language.

References

1. Lim Hong Swan, Yeoh Li Cheng, (2010). *Mandarin Made Easy Through English*. Batu Pahat: Penerbit UTHM. [PL1129.E5 .L554 2009 a]
2. Liu Xun (2010). *New Practical Chinese Reader: Textbook*. China: Beijing Language and Culture University Press. [PL1129.E5 .L58 2010]
3. Kang Yuhua (2007). *Conversational Chinese 301:Vol. 2*. China:Beijing Language and Culture University Press. [PL1121.C5 .K364 2007]
4. Liping Jiang (2006). *Experiencing Chinese*. China: Higher Education Press. [PL1129.E5 .T59 2006]
5. Kang Yuhua (2005). *Conversational Chinese 301*. China: Beijing Language and Culture University Press. [PL1121.C5 .K36 2005]

UQ*11002 Malay Language

Prerequisite Course: None

Synopsis

This course is designed for students to learn the basic Malay language. Students are exposed to the skills of listening, reading, speaking, and writing with basic vocabulary, grammar and structure. Students are also exposed to the real daily situations which will help them to communicate using Malay language.

References

1. Ainun Mohd (2011). *Tesaurus Bahasa Melayu*.PTS Professional Publishing. [PL5123 .A364 2011]
2. Kamaruddin Saad (2009). *105 karangan bahasa melayu UPSR*. Minerva Publishing. [PL 5108 KAM 2009]
3. Nik Safiah Karim (2008). *Tatabahasa Dewan*. [DBP. PL5108 .T37 2008 r]
4. Asmah Hj. Omar (1993). *Susur Galur Bahasa Melayu*. [DBP: KL. PL5127 .A85 1993 N1]
5. Asmah Hj. Omar (1993). *Nahu Melayu Mutakhir*. [DBP: KL. PL5137 .A85 1993]
6. Asmah Hj. Omar (1985). *Kamus Ayat*. Eastview. [PL5091 .A85 1985 rd]

UQB11202 Arabic Language

Prerequisite Course: None

Synopsis

This course is designed for students to learn the basic of Arabic. Students are exposed to the skills of listening, reading, speaking and writing with basic vocabulary, grammar and structure. Students are also exposed to the real daily situations which will help them to communicate using Arabic.

References

1. Mohd Hisyam Abdul Rahim; Ahmad Sharifuddin Mustapha; Mohd Zain Mubarak (2008). *Bahasa Arab UMR 1312*. Batu Pahat: Penerbit UTHM. [PJ6115 .M445 2008 a]
2. Abu 'Amiir 'Izzat. (2008). *Kamus adik: bahasa Melayu-bahasa Inggeris-bahasa Arab*. Kuala Terengganu: Pustaka Darul Iman. [PJ6640 ABU 2008]
3. Ab. Halim Mohammed; Rabiyyah Hajimaming; Wan Muhammad Wan Sulong. (2007). *Bahasa Arab Permulaan*. Serdang: Penerbit UPM. [PJ6065 .A32 2007]
4. Abdullah, Mustaffa Siti Rohaya Sarnap Siti Sujinah Sarnap. (2006). *Cara mudah belajar Bahasa Arab*. Singapore: Jahabersa. [PJ6106 .A22 2006]
5. Mohd Hisyam bin Abdul Rahim. (2005). *Senang Berbahasa Arab*. Batu Pahat: Penerbit KUiTTTHO. [PJ6115 .M44 2005 a]
6. Mohd Azani Ghazali, Abdul Aziz Hassan @ Yahya. (2000). *Kamus ringkas Bahasa Melayu- Bahasa Arab*. Johor Bahru: Jahabersa. [PL5091.8 .A7 .M393 2000 rd]
7. Fuad Ni'mat. (1973). *Mulakhass qawa'id al-lughatul 'arabiyyah*. Damsyik: Darul

UQB10802 Japanese Language

Prerequisite Course: None

Synopsis

This course is designed for students to learn the basic Japanese language. Students are exposed to the skills of listening, reading, speaking, and writing with basic vocabulary, grammar and structure. Students are also exposed to the real daily situations which will help them to communicate using Japanese language.

References

1. Surie, Network (2010). *AE Minna no Nihongo 1-2 Elementary: Translation and Grammatical Notes*, Tokyo: 3A Corporation. [PL539.3 .M57 2010]
2. Surie, Network (2010). *AE Minna no Nihongo 1-1 Elementary: Main Textbook*, Tokyo: 3A Corporation. [TK7885.7 .V44 2000r]
3. Surie, Network (2009). *AE Minna no Nihongo 1-1 Elementary: Translation and Grammatical Notes*, Tokyo: 3A Corporation. [PL539.3 .M567 2009]
4. Surie, Network (2009). *AE Minna no Nihongo 1-2 Elementary: Main Textbook*, Tokyo: 3A Corporation. [PL539.3 .M569 2009]
5. Rosmahalil Azrol Abdullah, (2008) : *Bahasa Jepun (UMJ 1312): Learning Module (2nd Edition)*, Batu Pahat. Penerbit UTHM. [PL539.3 .R67 2008a].
6. Surie Network, (2000). *Minna no Nihongo: Kaite Oboeru*, Tokyo: 3A Corporation. [PL539.3 .M56 2000]
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8. Surie Network, (1998). *Minna no Nihongo: Main Textbook - Shokyu 1*, Tokyo: 3A Corporation. [PL539.3 .M574 1998]
9. Yoshida, Masatoshi Nakamura, Yoshikatsu, (1996). *Kodansha's Furigana English-Japanese dictionary: the essential dictionary for all students of Japanese*, Tokyo: Kodansha International. [PL679. Y67 2006rd]
10. The AOTS, (1977). *Shin Nihongo no Kiso: Japanese Kana Workbook*, Tokyo: 3A Corporation. [PL539.3 .S54 1977]

UQB10702 German Language

Prerequisite Course: None

Synopsis

This course is designed for students to learn the basic German language. Students are exposed to the skills of listening, reading, speaking, and writing with basic vocabulary, grammar and structure. Students are also exposed to the real daily situations which will help them to communicate using German language.

References

1. Astrid Henschel, (2006). *German Verb Tenses*. New York: McGraw-Hill. [PF3301. H46 2006]
2. Gabriele Kopp, Siegfried Büttner, (2004). *Planet 1: Deutsch für Jugendliche: Kursbuch*. Ismaning: Germany: Hueber Verlag. [PF3129. K664 2004]
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5. Robert Di Donato (2004). *Deutsch, Na Klar!* Boston: McGraw-Hill. [PF3112.

UQB 11102 Spanish Language

Prerequisite Course: None

Synopsis

This course is designed for students to learn the basic Japanese language. Students are exposed to the skills of listening, reading, speaking, and writing with basic vocabulary, grammar and structure. Students are also exposed to the real daily situations which will help them to communicate using Japanese language.

References

1. Nurul Sabrina Zan, (2010). *Hola! Hablo español* First Edition Batu Pahat: Penerbit UTHM. [PC4445 .N72 2010a]
2. Salina Husain, (2005). *Vamos a aprender español lengua extranjera* Batu Pahat: Penerbit UTHM. [PC4121 .S24 2005a]
3. Bey, Vivienne (2004). *Spanish verbs drills*. Mc. Graw Hill. [PC4271 .B49 2004]
4. Terrell, Tracy D. (2003). *Dos mundos*. Mc. Graw Hill. [PC4129.E5 .D67 2003]
5. O'Connor, Niobe (2002). *Caminos 1*. Nelson Thornes. [PC4121 .O36 2002]
6. Vox modern Spanish and English dictionary: English-Spanish/Spanish-English (1986) National Textbook. Co. XX(131882.1)

UQB11302 Javanese Language

Prerequisite Course: None

Synopsis

This course is designed for students to learn the basic Javanese language. Students are exposed to the skills of listening, reading, speaking, and writing with basic vocabulary, grammar and structure. Students are also exposed to the real daily situations which will help them to communicate using Javanese language.

References

1. Purwanto, Eko (2011). *Pepah Bahasa Jawi. Cara mudah belajar cepat dan tuntas bahasa Jawa*. Diva press. XX(131748.1)
2. Majendra, Maheswara (2010). *Kamus lengkap Indonesia-Jawa, Jawa-Indonesia/ Majendra Maheswara*. Pustaka Mahardika. XX(131732.1)
3. Budhi Santosa, Iman. (2010). *Nguri-uri paribasan Jawi = Melestarikan peribahasa Jawa*. Intan Pariwara. XX(131751.1)
4. Yrama, Widya (2008). *Cara belajar membaca dan menulis huruf jawa, jilid 1*. Yrama Widya. Publication info:, 2008 XX(131738.1)
5. Yrama, Widya (2008). *Cara belajar membaca dan menulis huruf jawa, jilid*

UHB 10102 English for Higher Education

Prerequisite Course(s): None

Synopsis

This course exposes students to English language learning in higher education and enhances their study skills. Students have opportunities to learn about using technological affordance in listening to lectures, note taking, library and internet research, conducting academic group discussions, preparing and delivering presentations and writing academic report. The course also provides opportunities for student to acquire learning skills that facilitate the transition to tertiary education. Aspects of English language oral and written skills that are most relevant to students in their academic work will be reinforced.

References

1. Agosti, M. (2008). *Information Access through Search Engines and Digital Libraries*. Berlin : Springer Science & Business Media. Z699. I534 2008.
2. Galanes, G.J. (2013). *Effective group discussion: Theory and Practice* (14th edition). New York : Mc Graw Hill. HM736. G34 2013.
3. Lim, P.L. (2014). *Listening and notetaking skills 2* (4th edition). Boston: National Geograohic Learning. PE1128. L55 2014
4. Wong, L. (2012). *Essential study skills* (7th edition). Boston, MA: Wadsworth Cengage Learning. LB1049. W66 2012.
5. Zhang, F. (2012). *Computer enhanced and mobile assisted language learning: Emerging issues and trends*. Hershey, PA: Information Science Reference. P53.28. C65 2012.

UHB 20102 Essential Academic English

Prerequisite Course: English for Higher Education

Synopsis:

This course enhances student's English language skills, emphasising listening and reading skills necessary for academic contexts. The course provides opportunities for student to learn the strategies to help them understand information from documentaries, lectures and paper presentations and develop analytical listening to differentiate between facts and opinions. This course also provides opportunities for students to develop skill to critically respond to academic materials such as journal articles.

References:

1. Bowen, E. (2010). *Listening In: Broadcasts, Speeches, and Interviews*. Edinburgh: Edinburgh University Press.
2. Fairbairn, G.J (2011). *Reading, Writing and Reasoning: A guide for students*. Maidenhead: Open University Press. LB2395. F34 2011
3. Shipside, S (2007). *Effective communication: Get your message across and learn how to listen*. London : Dorling Kindersley. HF5718. S4 2007.
4. Smith, L.C (2005). *Exploring content 1: Reading for Academic Success*. White Plains, NY: Longman. PE1122. S64 2004
5. Kaur, H.(2005). *Explore MUET*. Kuala Lumpur: Fajar Bakti Sdn. Bhd.
6. Koh, S.L. (2005). *MUET Moments: Malaysia University English Test*. Selangor: Pearson. PE1128 .K63 2005
7. Richards,C. (2009). *Longman Text MUET : A Strategic Approach*. Petaling Jaya: Pearson Malaysia. PE1128 .K97 2009

UHB 30102 English for Technical Purposes

Pre-requisite Course(s): UHB 20102 Essential Academic English

Synopsis

This course aims to prepare students with the skills to write reports and express ideas or opinions competently. Students will be equipped with persuasive strategies that can be applied to write technical reports. The course will also enable them to practice these techniques by drafting and collaborating to produce assigned tasks. The students also expected to orally present their proposals and written report before an audience or panel of examiners.

References

1. Chandra, S. (2013). *Research methodology*. Oxford U.K. : Alpha Science Int. Ltd. H62. C42 2013.
2. Newby, P. (2014). *Research methods for education*. Abingdon: Routledge. LB1028. N48 2014.
3. Sekaran, U. (2013). *Research methods for business: A Skill Building Approach*. Chichester. HD30.4. S44 2013
4. Joan van Emden, L. (2004). *Presentation skills for students*. New York: Palgrave Macmillan.

UHB 40102 English for Occupational Purposes

Prerequisite Course(s): UHB 30102 English for Technical Purposes

Synopsis

This course employs a task-based learning approach and focuses on developing student's delivery of speech in oral interactions and job interviews and presentations. Particular emphasis will be given to promote mastery of self-directed learning, teamwork, research, oral presentations, reasoning and creativity. This course also enable students to acquire knowledge and skills necessary for conducting and participating in meetings, which includes writing meeting documents and event proposals based on specific themes. Students will also be exposed to interview techniques.

References

1. Haynes, Marion. F (2009). Meeting Skills for Leaders: Make Meetings More Productive. Rochester, NY: Axzo Press. HD30.3. H39 2009.
2. Peberdy, Duncan (2009). Brilliant Meetings: What to know, say and do to have fewer, better meetings. Harlow: Prentice Hill. HF5734.5. P42 2009
3. Wendleton, Kate. (2014). Mastering the Job Interview: And Winning the Money Game. Boston: Cengage Learning. HF5549.5. I6. W46 2014.
4. Wrathall, Jeff (2011). Event Management: Theory and Practice. North Ryde, N.S.W: McGraw-Hill. GT3405. W72 2011.

UQI 10702 Appreciation, Ethics and Civilization

Prerequisite Course(s): None

Synopsis

Students should be exposed civilizations and its values as it is the basis for learning of science, technology and engineering. This course is a compulsory course stipulated by the Ministry of Higher Education and UTHM to fulfil MQA requirement.

References

1. Mohd Taib Osman (1997). Islam In The Malay World. Kuala Lumpur: Dewan Bahasa Dan Pustaka. DS36.86.M63 1997
2. Al-Attas, Syed Muhammad Naquib (2011). Historical Fact and Fiction. Kuala Lumpur, Malaysia: UTM Press. BP50.S93 2011 N.S.W: McGraw-Hill. GT3405. W72 2011.
3. Barbara A. West (2009). Encyclopedia of the Peoples of Asia and Oceania (2 Vols.). New York: Facts of Life Inc. GN625.W47 2009 v.2
4. Andrew Gordon (2003). A Modern History of Japan: From Tokugawa Times to the Present. New York: Oxford University Press. DS881.9.G67 2003
5. John Keay (2010) 2nd. Edition. India: A History, From the Earliest Civilisations to the Boom of the Twenty-First Century. New York: Grove Press. PS374.N65 2000

UQI 11202 Philosophy and Current Issues

Prerequisite Course(s): None

Synopsis

This course focuses on the conceptual and practicality of the ethnic relation in the Malaysian context. The discussions comprise of fundamental concepts of ethnic relation and the history of the construction of a plural society, constitution as the core of the societal life, relationship between development and the ethnicity in the aspects of economy, politics and social based on the government and society top-down and bottom-up approaches.

Students

References

1. Shamsul Amri Baharuddin. (2012). Modul Hubungan Etnik g Edisi Dua. Bangi: Institut Kajian Etnik. Universiti Kebangsaan Malaysia.
2. [DS595 .M62 2007].
3. Dworkin, A.G. (1999). The minority report: An introduction to racial, ethnic and gender relations. Fort Worth: Harcourt Barce College Pub. [E184.A1 .M56 1999].
5. Holst, F. (2012). Ethnicization and identity construction in Malaysia. New York: Routledge. [DS595 .H64 2012 v. 12].
6. Wan Hashim Wan Teh. (2011). Hubungan Etnik di Malaysia. Kuala Lumpur: ITNM. [DS595.W36 2011].
7. Zaid Ahmad. (2010). Hubungan Etnik di Malaysia. Oxford Fajar: Shah Alam. [DS595 .H822010].

UQ* 101 Cocurriculum 1 & 2**

Prerequisite Course(s): None

Synopsis

This course is offered in various forms of activity options for students of Bachelor and Diploma level. Eight of the activities offered are Public Speaking, Entrepreneurship, Sports, Community Service, Volunteerism, Leadership, Culture and Innovation.

References

1. Ab. Alim Abd Rahim (2004). Pengurusan gerak kerja kokurikulum. Shah Alam : Penerbit Fajar Bakti. No. Panggilan : LB3605 .A44 2004.
2. Abu Bakar Nordin dan Ikhsan Othman (2008). Falsafah pendidikan dan kurikulum. Perak: Quantum Books. No. Panggilan : LB1570 .A22 2008.
3. Saifullizam Puteh (2006). Pengurusan Kokurikulum: Modul Pengajaran. Batu Pahat: Universiti Tun Hussein Onn Malaysia. No Panggilan : LB3605 .S24 2006 a.
4. Mohd Sofian Omar Fauzee, Aminuddin Yusof dan Borhan Yusof (2002). Kokurikulum : peranan dan implikasi. Kuala Lumpur : Utusan Pub.. No panggilan : LB3605 .M76 2002.
5. Mok, Soon Sang (2008). Pengurusan Kokurikulum dan Pendidikan Sukan. Puchong : Penerbitan Multimedia. No panggilan : LB3605 .M64 2008.

UQI10102 Islamic Studies

Prerequisite Course(s): None

Synopsis

This course explains about Islamic concept as ad-deen. It discusses the study of al-Quran and al-Hadith, Sunnism, schools of Islamic theology, development of schools of Fiqh, principles of muamalat, Islamic Criminal Law, Islamic work ethics, issues in Islamic family law and current issues.

References

1. Harun Din (Dr.) (2001), *Manusia Dan Islam*, cetakan pertama, Kuala Lumpur: Dewan Bahasa dan Pustaka. [BP174. M36 1990]
2. Mustafa Abdul Rahman (1998), *Hadith 40*, Kuala Lumpur: Dewan Pustaka Fajar.[BP135. A2 M87 1998]
3. Ismail Haji Ali, (1995), *Pengertian dan Pegangan Iktikad yang benar: Ahli Sunnah Wal Jamaah*: Kuala Lumpur: Penerbitan al-Hidayah. [BP166.78. P46 1995]
4. Paizah Haji Ismail (1991), *Undang-undang Jenayah Islam*, Kuala Lumpur: Dewan Pustaka Islam, Angkatan Belia Islam Malaysia. [BP144. P35 1991]
5. Mustafa Haji Daud (1989), *Institusi Kekeluargaan Islam*, Kuala Lumpur: Dewan Pustaka dan Bahasa. [BP188.3. F3.M87 1989]

UQI 10202 Moral Studies

Prerequisite: None

Prerequisite Course(s): None

Synopsis

This course explains on concepts of moral, aspects of moral and its importance in daily lives, Western moral theories and moral values of great religions of the world, moral values in work and current moral issues.

References

1. Mohd Nasir Omar. (2010). *Falsafah Akhlak*, Penerbit Universiti Kebangsaan Malaysia, Bangi. [BJ1291 .M524 2010].
2. Hussain Othman. (2009). *Wacana Asasi Agama dan Sains*. Batu Pahat: Penerbit UTHM. [BL 240.3 H87 2009^a].
3. Hussain Othman, S.M. Dawilah Al-Edrus, Berhannudin M. Salleh & Abdullah Sulaiman. (2009). *PBL Untuk Pembangunan Komuniti Lestari*.Batu Pahat: Penerbit UTHM. [LB 1027.42 P76 2009^a].
4. Eow Boon Hin. (2002). *Moral Education*. Longman. [LC268 .E48 2008].
5. Ahmad Khamis. (1999). *Etika Untuk Institusi Pengajian Tinggi*. Kuala Lumpur: Kumpulan Budiman. [LC315.M3 .A35 1999].

UQI 10302 Islamic and Asian Civilisations

Prerequisite Course(s): None

Synopsis

This course discusses on the civilization, its development, interaction between civilizations, the Islamic civilization, Islam in Malay civilization; contemporary civilization issues and the principles of Islam Hadhari.

References

1. Saifullah Mohd Sawi (2009), *Sejarah dan tamadun Islam di Asia Tenggara*, Shah Alam. Karisma Publications, [BP63.A785 .S24 2009]
2. Sazelin Arif, (2007), *Tamadun Islam dan tamadun Asia*, Shah Alam, Selangor: McGraw Hill. [BP190.5 .T35 2007]
3. Abu al-Fida al Hafiz Ismail ibn Kathir ; penterjemah Zaidah Mohd Nor ... [et al.],
4. (2005), *Sejarah tamadun Islam Ibn Kathir*, Kuala Lumpur : Dewan Bahasa dan Pustaka. [DS36.85.I32 2005 v.1]
5. Mohd Liki Hamid, (2003), *Pengajian tamadun Islam*, Bentong : PTS Publications and Distributors. [DS36.85 .P46 2003]
6. Lok, Chong Hoe, (1998), *Tamadun Cina : falsafah, pandangan hidup dan aspek-aspek kesenian*, Kuala Lumpur : Pusat pembangunan dan Pendidikan Komuniti (CEDC) dan Sekretariat Falsafah dan Sains Islam. Universiti Sains Malaysia. [DS721 .L64 1998]
7. Rajakrishnan Ramasamy, M Rajantheran, (1994), *Pengantar tamadun India*, Kuala Lumpur : Penerbit Fajar Bakti. [DS425 .R34 1994]

UQU 10103 Nationhood and Recent Development in Malaysia

Prerequisite Course(s): None

Synopsis

This course will provide students a fundamental concept, the processes of formation and development of Malaysia. The topics covered include the concept of state, Malacca Kingdom, implication of imperialism and colonization, spirit of patriotism and nationalism, independence and formation of Malaysia. Besides, students will also be exposed to the constitution of Malaysia, Malaysian Government System, Economic and Social Development Policy as the main policy in the national development. At the end of the course students will able to appreciate the roles and responsibilities of a good citizen to the country.

References

1. Zahrul Akmal Damin, Fauziah Ani, Lutfan Jaes, Khairunesa Isa, Siti Sarawati Johar, Harliana Halim, Khairul Azman Mohd Suhaimy, Shamsaadal Sholeh Saad, Ku Hasnan Ku Halim dan Mohd Akbal Abdullah (2009). *Kenegaraan & Pembangunan Malaysia*. Batu Pahat: Penerbit UTHM.
2. Ruslan Zainudin, Mohd Mahadee Ismail & Zaini Othman. (2005). *Kenegaraan Malaysia*. Shah Alam: Fajar Bakti. [JQ715 .R87 2005].
3. Nazaruddin Mohd Jali, Ma'rof Redzuan, Asnarulkhadi Abu Samah & Ismail Mohd Rashid. (2005). *Pengajian Malaysia*. Petaling Jaya: Prentice Hall. [DS596.6 .P46 2001 N2].
4. Mohd Ashraf Ibrahim. (2004). *Gagasan Bangsa Malayan yang Bersatu 1945-57*. Bangi: Penerbit UKM. [DS597 .M37 2004].

Noor Aziah Mohd Awal. (2003). Pengenalan kepada Sistem Perundangan di Malaysia. Petaling Jaya: International Law Book Services. [KPG68 .N66 2003

Faculty Course Synopsis

BBP 10102 Philosophy Education

Prerequisite Course(s): None

Synopsis

This course focuses on understanding of philosophy: general philosophy, what is philosophy, what is education. Branches of philosophy: the concept and function, metaphysics, epistemology, axiology, and logic. Mainstreams of western philosophies: idealism, realism, pragmatism, existentialism. Western educational philosophy: essentialism, perennials, progressivism, reconstructionist. The philosophy of Islamic education: policy and objectives, scope and field of Islamic education, Islamic education curriculum. The National Education Philosophy (FPN): the descriptions of FPN, a brief history of the formation of FPN, the elements and the role of FPN, the National Education Philosophy (FPK): the concepts, values in FPK, the importance of the application of values in the education system, the implications FPK for the country's education system, the development of policy and the national education system. Teacher Education Philosophy (FPG): insights on education, the development of teacher education and training, the ethics of teaching profession through FPG. Teachers and the Environmental Education: teaching scenario in Malaysia, professionalism: the concept and needs, ethics and responsibility of teachers, motivation, job satisfaction and teacher performance.

References

1. Abd Rahim Abd Rashid (2003). Falsafah Budaya Dalam Pendidikan. Kuala Lumpur: Penerbit Universiti Malaya.. No. Panggilan : LA132 .F34 2003
2. Abu Bakar Nordin dan Ikhsan Othman (2008). Falsafah pendidikan dan kurikulum. Perak: Quantum Books. No. Panggilan : LB1570 .A22 2008
3. Abdul Fatah Hasan (2001). Pengenalan Falsafah Pendidikan. . Kuala Lumpur: PTS Publications & Distributors Sdn. Bhd. No. Panggilan : LA21 .A32 2001
4. Sufean Hussin (2004). Pendidikan di Malaysia: sejarah, sistem dan falsafah. Kuala Lumpur: Dewan Bahasa dan Pustaka. No.Panggilan : LA1236 .S93 2004
5. Abdul Rahman Arof & Zakaria Kasa (1995). Falsafah dan Konsep Pendidikan. . Kuala Lumpur: Fajar Bakti. No. Panggilan : LB19 .A72 1995.

BBD 20202 Educational Technology

Prerequisite Course(s): None

Synopsis

This course focuses on Introduction to educational technology: the definition of "technology" and "education", educational technology and teaching technology. Design and teaching model: learning theory, teaching model, Dick & Carey model, ADDIE model, ASSURE model, teaching design, teaching strategy, motivational aspect (ARCS), 9 learning stages (Gagne). The effectiveness and selection of teaching

materials: The use of tools in Teaching, the selection of teaching materials. Spacing: showroom, presentation tool, presentation strategy. Visuals are not impressions: natural objects, models, photos and graphics. Visual Impressions: slides, movies, multimedia systems. Photography: Original format, digital format, presentation from a computer. Audio media: audio and audio audio, analog and digital audio concepts, audio use as teaching materials, examples of audio use in education. Video Use in Education: Basic video concept, camera handling, script writing, video role in education, the benefits of video use in education, classroom use of video use. Computer In Education: the primary role of a computer, a computer in teaching and learning a computer in management and management. Learning education through web and tele trial: definition of learning through the web, web usage as a teaching medium, computer video search telesidang. Resource center: School Resource Center, Teacher Activity Center, Electronic Resource Center. Telecommunication systems: applications in education, educational communication functions, Current Communication Technology in Education.

References

1. Heinich, R., Molenda M., Russell, J.D., & Smaldino, S.E. (2002). *Instructional Media and Technologies for Learning: 7th Edition*. New Jersey: Merrill Prentice Hall. No panggilan: LB1028.3 .H44 2002.
2. Smaldino, Sharon E. (2005). *Instructional technology and media for learning*. New Jersey: Pearson. No panggilan: LB1028.3 .I57 2005.
3. Januszewski, Alan (2008). *Educational technology : a definition with commentary*. Mahwah, NJ : L. Erlbaum Associates. No panggilan: LB1028.3 .J36 2008.
4. Kemp, J.E. & Smellie, D.C (1994). *Planning, Producing and Using Instructional Technologies: 7th Edition*. New York: Harper Collins College Publishers. No panggilan:
5. Zol Azlan Hamidin (2000). *Strategi Pengajaran : Pendekatan sains teknologi masyarakat*. Selangor : Pearson. No

BBD 10302 Pedagogy

Prerequisite Course(s): None

Synopsis

This course focuses on the understanding of teaching and learning: definition of teaching, the differences between pedagogy and andragogy, teaching as an art and science, and reflection on teaching and learning insight. Teacher: Who teacher, the role of teachers, teacher personality, ethics of teaching profession, teachers and the community. Brief description on Models of Teaching: The Sim, Glaser, Taba, Suchmen, Systems Approach, Classroom Teaching, Laboratory and workshop Teaching Models. Teaching approaches: the teacher-centered, student-centered, content, tools & teaching materials-centered, inductive and deductive teaching. Science Process Skills Education, Technical and Vocational Education: the scientific method, science process skills, manipulative skills, thinking skills, reflective skills, behaviorism, objectivism and constructivism, Learning Skills: reading and communication, concept mapping, using journal and portfolio, develop teaching modules, individual learning , Teaching methods: selecting teaching methods, the diversity of teaching methods, The lectures, practical methods, demonstration workshops , project method, problem-based teaching methods, teaching computerized,

andragogy teaching, simulation methods, interactive methods (discussions, brainstorming, buzz group) , schools and sites visits, teaching strategies and collaborative techniques in vocational teaching and training. Teaching skills: proficiency in questioning and answering skills, set induction skills, closing skills, strengthening skills, practices in learning outcomes, various stimulus skills, skillful in selecting media and teaching aids. Instructional design: effective teaching, teaching planning definition, curriculum and syllabus, Determining specification for teaching schedules, Planning semester teaching, teaching planning weekly, daily lesson plan, teaching assessment: assessment through reflections, supervision, clinical supervision, teaching assessment instruments, peer-assessment.

References

1. Barell, John (2007) Problem-Based Learning: An Inquiry Approach. Corwin Press, Thousand Oaks. No ISBN:141295004X, 9781412950046.
2. Joel Spring, (2006). Pedagogies of globalization: the rise of the educational security state. Mahway, NJ: L. Erlbaum. No.Panggilan: LC71 .S67 2006.
3. Shahabuddin Hashim, Rohizani Yaakub dan Mohd. Zohir Ahmad (2003). Pedagogi: Strategi dan Teknik Mengajar Dengan Berkesan. Pahang: PTS Publications. No.Panggilan LB1775.2 .S52 2003.
4. Mok Soon Sang (2002). Pedagogi: Untuk Kursus Diploma Perguruan Semester 3, Kuala Lumpur: Kumpulan Budiman. No.Panggilan: LB1025.3 .M65 2002.
5. Abd Aziz Abd Talib (2000). Pedagogi Bahasa Melayu: Prinsip, Kaedah dan Teknik. Kuala Lumpur: Utusan Publications and Distributors. No.Panggilan: PL5105 .A29 2000 n.5.

BBD 10202 Psychology Education

Prerequisite Course(s): None

Synopsis

This course focuses on the Introduction to Psychology and Educational Psychology: What is psychology?, What is educational psychology?. Why study psychology, understanding the basic concepts of psychology, fields of psychology. Human nature: the meaning of human needs, various kinds of needs, motivation and relevance to the needs, behavior problems that arise when the requirements are not met, the potential, strength and human weakness. Theories of development: the notion of growth, meanings of development, development theory, the implications of the concept of growth and development of teaching and learning in the classroom, growth theory, the implications of the growth and development of teaching and learning in the classroom. Individual differences: understanding individual differences, aspects of individual differences, the factors that cause individual differences in terms of cognitive, social, emotional and psychomotor effects of individual differences on schooling progress of students, teachers face the problem of how individual differences of students in school. Personality: the difference between the personality, character and traits, the classification of personality, factors that influence personality and learning style. Self-Concept: Ideas about self-concept, types of self-concept, the factors that cause a negative self-concept, self-defense tricks, how teachers help children form a positive self-concept, behavior problems and behavior modification. Behavioral psychology: understanding developmental tasks, the main features of the development task, the task of development in Havighurst, the problems in the achievement of developmental tasks, how teachers help children cope and achieve developmental tasks in accordance with the ranking, behavioral modification. Teaching and Learning: the definition of teaching, teaching models, a definition of learning, types of learning, learning styles, learning style model, the relationship between teaching and learning styles, learning process: the willingness, motivation, perception and responsiveness, memory and forgetting, transfer of learning, learning styles, learning styles implications

in the teaching and learning process. Learning theories: cognitive learning theory, behaviorism learning theory, social learning theory, learning theory humanist. Thinking: the concept and process of thinking, reflective thinking, relationships with educational psychology and teaching supplies.

References

1. Sahizan Hasan, Tsai Chen Chien dan Saw Hooi Chin. (2004). Intrapersonal dan Interpersonal Untuk Remaja. Bentong: Publications and Distributors. No. Panggilan: BF637.C45 .S52 2003.
2. Mohamed Hatta Shaharom. (2003). Psikologi dan Kaunseling Remaja. Bentong Publications and Distributors. No. Panggilan: HV1421 .M42 2003.
3. Noraini Ahmad. (2003). Kaunseling Remaja. Selangor: Utusan Publication and Distributors Sdn. Bhd. No. Panggilan: BF637.C6 N67 2003.
4. Corbin, Barry. (2008). Unleashing the potential of thr teenage brain: 10 powerful ideas. Thousand Oaks, CA: Corwin Press. No. Panggilan: LB1060 .C68 2008.
5. Metcalf, Linda. (2008). Counseling Toward Solutions : A Practical Solution-Focused Program for Working With Students, Teachers and Parents. 2nd ed. San Francisco, CA: Jossey-Bass. No. Panggilan: LB1027.5 .M47 2008.

BBD 20403 Micro Teaching

Prerequisite Course(s): BBD20102 Pedagogy

Synopsis

This course focuses on micro-teaching. Curriculum Analysis, Planning, Teachings Aids / Tools, Documentation, Micro Teaching Theory and Practice (Specialization). Induction Skills, Teaching Skills, Skills in closing / ending the teaching sessions, and reflecting skills.

References

1. Zol Azlan Hamidin (2000). Strategi Pengajaran : Pendekatan sains teknologi masyarakat. Selangor : Pearson. No panggilan: LB1532.M3 .Z64 2000.
2. Castaeda, Carmelita Rosie (2004). Teaching and Learning in Divers Classrooms, New York: Routledger Flamer. No panggilan: LC1099.3 .C37 2004.
3. Siow Heng Loke (2005). Pedagogi Merentas Kurikulum. Kuala Lumpur:Universiti Malaya. No panggilan:LB1025.3 .P42 2005.
4. Walker, Melaine (2006). Higher Education Pedagogies: A capabilities approach. New York: Open University Press. No panggilan: LB2322.2 .W34 2006.
5. Spring, Joel (2006). Pedagogies of Globalization:Tthe rise of the educational security state. Mahway, NJ: Erlbaum. No panggilan: LC71 .S67 2006

BBD 20703 Measurement and Evaluation in Education

Prerequisite Course(s): None

Synopsis

This course focuses on the concept of testing, measurement, evaluation and assessment. Its covers type of evaluation; classification of test; characteristics of test; item skill level; development of objective and subjective item; planning of test; scoring

scheme; administration of test; analysis and interpretation of the question; basic statistical evaluation; current issues of educational evaluation.

References

1. Bhasah Abu Bakar (2003). Asas Pengukuran Bilik Darjah. Tanjung Malim: Quantum Books Perak.
2. Mohd Isha Awang (2005). Pengujian, Pengukuran dan Penilaian. Sintok: Azizi Publicist.
3. Kubiszyn, T dan Borich (2007). Educational Testing And Measurement: Classroom Application and Practice. 8th ed. Hoboken, NJ : John Wiley. No. Panggilan: LB3051.K82 2007.
4. Anderson, Lorin W. (2003). Classroom Assessment: Enhancing the Quality of Teacher Decision New Jersey: Lawrence Erlbaum Associates. No. Panggilan: LB3051 .A52 2003.
5. Linn, R and Gronlund, N. E (2000). Measurement and Assessment in Teaching. 8th ed. New Jersey: Prentice Hall. No. Panggilan: LB3051 .L54 2000.

BBD 30302 Guidance and Counseling

Prerequisite Course(s): None

Synopsis

This course focuses on the basic concept of guidance and counseling: What is counseling, the development of guidance and counseling services in Malaysian schools. The philosophy of guidance and counseling services: the need for rational guidance and counseling services in the context of national education philosophy and technical and vocational education for the school and the community and the country. The qualities of a counselor: acceptance and warmth, do not punish (non-judgmental), the authenticity, accuracy (specificity). Procedure counseling processes: provide sessions, building relationships, exploring the problem, identify the cause of the problem, seeking and discussing alternatives for action, and ending the session. Basic counseling skills: listening, empathy: to understand the emotions and feelings, reflecting, explaining and paraphrasing, questioning and confronting, formulating and roll, counseling theories: comparison of western and Islamic counseling, psychoanalytic theory, the theory of convergence of the client (Client -Centered Therapy), Alfred Adler's theory, theory of behavior, theory of reality. Counseling services in schools: individual inventory, providing information, guidance / counseling groups, individual counseling, placement, drug use prevention, consultation and referral sources, subject areas: education counseling, career guidance, personal and social counseling. The use of tests in the guidance: the selection and administration of the tests, the validity of the tests, reliability tests, advantages and limitations in the use of the test, a sample-exam tests such as intelligence, aptitude test (talent and inclination), interest test, personality test. Ethics Counseling: Counseling ethical concepts, ethical counseling in Malaysia by Malaysia Counselor Association (PERKAMA).

References

1. Ainon Mohd dan Abdullah Hassan (2002). Guru Sebagai Pendorong Dalam Bilik Darjah. Bentong, Pahang: PTS Publication & Distributors.
2. Jensen, Eric. (2008). Brain-Based Learning. 2nd Ed. Thousand Oaks, CA : Corwin. No Panggilan: LB1060 .J46 2008

3. Parsons, R.D. Hinson, S.L & Sardo-Brown, D. (2001). Educational Psychology: A Practitioner-Research Model of Teaching. Victoria : Thomson Learning. No Panggilan: LB1051 .P37 2001
4. Saedah Siraj, Zainun Ishak dan Tunku Mohani Tunku Mokhtar. (1996). Motivasi Dalam Pendidikan: Siri Pengajian dan Pendidikan Utusan. Kuala Lumpur: Utusan Malaysia Publication & Distributors.
5. Santrock, John, W. (2011). Educational Psychology. New York: McGraw Hill. No Panggilan: LB1051 .S26 2011

BBD 30402 Educational Data Reasoning

Prerequisite Course(s): None

Synopsis

This course focuses on the basics statistics: measuring nominal, ordinal and interval, descriptive statistics: mean, median and mode, standard deviation, population and sampling, distributions: normal, skewed, graphs and charts. Application statistics: an introduction to test significant, probability and significance, the general procedure is a significant test, chi-square test, Mann-Whitney U, correlation, statistical software: interface design and data input, data manipulation, data display: table, histogram, graphs, pie charts, commentary and interpretation of data: data, analyze data, formulate findings, the findings justify.

References

1. Latifah Mohd. Nor(2005). Statistics Made Simple (2nd Ed.). Kuala Lumpur: International
2. Islamic University. No. Panggilan: HA29 .L37 2005.
3. Marija,J.N.(2002).SPSS 11.0 Guide to Data Analysis: SPSS Inc..New Jersey:Prentice Hall.
4. Huck,S.(2000).Reading Statistics and Research. Needham Heights: Allyn and Bacon. No. Panggilan: QA276 .H82 2008.
5. Levin,J.,Fox,J.(2007).Elementary Statistics in Social Research. Needham Heights:Allyn And Bacon. No Panggilan: HA29 .L494 2007.
6. Mohd.Salleh Abudan Zaidatun Tasir.(2001). Pengenalan Kepada Analisis Data Berkomputer SPSS10.1 for Windows. Kuala Lumpur:Venton Pub. No. Panggilan: HA32 .M64 2001

BBD 30502 Sociology in Educational

Prerequisite Course(s): None

Synopsis

This course exposes students to the Introduction to Sociology, Definition of sociology, sociology as a discipline and its importance, development sociology. Prominent sociologist and its contribution: Auguste Comte, Herbert Spenser, Durkheim, Spenser, Lester. Theories of Sociology, theory of functionalism, conflict theory, interactionism theory. Sociology in the context of Malaysia's education system, the sociological role of Technical Education. Sociology as a means of social control. Cultural dissemination tools, Tools and ideological unity of the State, social stratification tool, Education System as Social Institutions. Structure and organization of educational institutions. Educational institutions and the community. Interaction in the education system. Community Services. And the difference equation. Differences and similarities in

education. Education as a national ideology developer, Technical Education and Social Mobility. Factors of social mobility, the Technical Education and social impact on the socio-economic status, Social Effects of Technical Education Achievement. Environmental factors, socioeconomic status, values and culture of the school, Aspirations school, peer group and social opportunities, education system in Malaysia. The historical perspectives and development of education in Malaysia. State education system evolution patterns before and after the British occupation: the vernacular Chinese, Indian and English. National education policy, development of technical and vocational education, university education, Technical Education and National Development, Role of technical education in the national aspiration. Development of Technical Education in Malaysia, System of Higher Education, higher education functions, theory approach to higher education, Reform and Planning In the education system, dynamics change, perspectives change, strategies for school changes. Roles played by sociologists in education and changes in educational policies. Reform as a natural progression in education, liberalization and corporatization of liberalization and corporatization of education, education administration system: central, state and district levels.

References

1. Ellen Brantlinger(2003). Dividing classes: how the middle class negotiates and rationalizes school advantage. London: RoutledgeFalmer. No. Panggilan: LC205 .B72 2003.
2. Jeanne H. Ballantine & Joan Z. Spade (2004), Schools and society : A sociological approach to education, 2nd ed. Belmont, CA: Wadsworth/Thomson. No Panggilan: LC191 .S33 2004.
3. Walter Feinberg, Jonas F. Soltis (2004), School and society. 4th ed. New York: Teachers College Press. No Panggilan: LC191 .F44 2004.
4. Alex Moore (2006). Schooling, society and curriculum. London: Taylor and Francis. No Panggilan: LC191.8.G7 .S33 2006.
5. Alan R. Sadovnik (2007). Sociology of education: A critical reader. New York: Routledge. No. Panggilan: LC191.2 .S52 2007.

BBD 20802 Technical Vocational Education and Planning

Prerequisite Course(s): None

Synopsis

This course provides knowledge and concept in human resource management, development and organise in strengthen the human capital for organization. TVET planning including training and development involved by training provider, partnership between government and private also how the concept of workplace training applied. This course will provide an overview of how management concepts and training are needed in strengthening the role of TVET.

References

1. Chris Brewster, Elizabeth Houldsworth, Paul Sparrow and Guy Vernon (2016). International Human Resource Management. Fourth edition. eBook ISBN97818439844184
2. DECenzo, David A.(2013). Human Resource Management. Singapore:John Wiley. (H5549.D42.2013)
3. Nocolescu, Ovidiu (2016). Challenges, performance and tendencies in organization. New Jersey: World Scientific. .(HD31 .C49 2016)

4. Noe, Raymond (2013). Employee Training and Development. New York : McGraw-Hill/Irwin.[HF5549.5.T7 .N63 2013]
5. Phillips, Jean M (2014). Human Resource Management. Mason, Ohio: South-Western. [HF5549.P444 2014]

BBP 10803 Information Technology in Education

Prerequisite Course(s): None

Synopsis

Introduction to Information Technology; Information Age, Principles of Information Technology, Function And Benefits Information Technology, Multimedia Super Corridor (MSC), Cyber Law, Computer Software; Software, Software Applications, Software Type Basic, Word Processing; Basic Word Processor, Supporting Reading, type format and graphics, Listing Mel And Penggunannya, Publishing Desk, construction Test E-Form, Performance Electronics; Introduction, Multimedia Presentation, Construction Slides, Spreadsheet; Introduction, Features Basic Spreadsheet, Spreadsheet Integration in Teaching and Learning, Database; Type Database, usu- Organization, Servers, Features Basic Database, Editing Software: Adobe Photoshop; Introduction to Photoshop Interface, Functionality Each icon, Basic use of Adobe Photoshop, Basic Concept And Production Text, Basic Concepts Using Layer, Basic Concepts Using Channels and History, Basic Use Filter, Internet; Definitions, Basic Internet, Computer Internet, Basic Internet service, use of the Internet in Education, Communication Data; Key Elements of Communication, Signal Type, Transmission Mode, Trend Data, Shipping Rates, Issues and Opportunities of Information Technology; Professionalism, Ethics and Society, Issues Safety and Control Computer Systems, Health and Ergonomics, Opportunities in IT, Information Technology and the Future.

References

1. Abdul Razak Hamdan, Yazrina Yahya, Muhd Shanudin Zakaria dan Mohd Zamri Murah.2000. Teknologi Maklumat. Kuala Lumpur:McGraw Hill T58.5 .T44 .A22 2000
2. Stallings, W. and Van Slyke,R.2001. Business Data Communications. Upper Sydel River, New Jersey: Prentice Hall. Edisi ke 4. HF5548.2 .S83 1994
3. Panko, R. R. 2001. Business Data Communications and Networking. Upper Sydel River, New Jersey: Prentice Hall. Edisi ke 3. HD30.37 .P36 2001
4. Stamper, D.A. 2001. Local Area Networks. Upper Sydel River, New Jersey: Prentice Hall. Edisi ke 3. TK5105.7 .S73 2001 N1
5. Stephen Doyle (2001). Information and communication technology : vocational A level. UK: Stanley Thornes.

BBD 20603 Educational Management

Prerequisite Course(s): None

Synopsis

This course focuses on the concepts, principles and theories of management education in Malaysia: concepts of management, principles and theories of education management, educational management practices. Introduction of management education: history of education in Malaysia, the role of Institut Aminuddin Baki in the management and administration of the school. Administration of the public education system: the administrative system of public education and its rationale, role and contribution to teaching and learning in schools, private education administration

system: the administrative system of private education and the rationale, role and contribution to teaching and learning in schools. The organization and administrative structure: the concept of organization, school organization, the administrative hierarchy and relationship with the school organization, administration and management of schools: office, curriculum and co-curriculum and school finance., Vision Education: unity, perkhidmatanpenyayang, empowerment, knowledge culture, science, caring school , budayacemerlang, skills as a manager and administrators in education: responsibility, tasks and role of the headmaster, accountability and leadership styles of headmaster, skills and competencies of headmastersas administrators and managers. Reflection: effectiveness and challenges in the management and administration of education in Malaysia: issues management and administration of education: past, present and future.

References

1. Hoy,W.K.& Miskel,C.G.(2008).Educational Administration:Teory,Research and Practice.8th.Edition.Boston: McGraw-Hill. No Panggilan: LB2805 .H69 2008.
2. Lunnenburg,F.C. & Ornstein,A.C.(2004).Educational Administration:Concept and Practices. 4th.Edition.Belmont, CA : Thomson Learning. Call no: LB2805 .L86 2004.
3. Robbins,S. & Decenzo, D.(2004). Fundamentals of Management-Essential Concept And Applications.4th.Edition.Upper Saddle River: NJ: Pearson Education. Call no: HD31 .R63 2004
4. Carayannis,E.G.(2001).Strategic Management of Technological Learning. Boca Raton, FL: CRC Press. Call no: HD58.82 .C37 2001 n.1.
5. Ahmad Kilani Mohamed (2003).Pengurusan Pendidikan Di Sekolah:Huraian Menurut Perspektif Islam.Skudai:PenerbitUTM. Call no: LB2831.8 .A35 2003.

BBP 10603 Mathematics I

Prerequisite course (s): none

Synopsis

This course introduces students to mathematical knowledge needed in the technology field. The topics discussed are Cartesian Coordinate: Distance between two points, slopes and line equations. Perpendicular distance from a point to a line and bisect of two lines. Quadratic equations: Quadratic equations with single variable, properties of the quadratic equations. Inequalities: solving inequalities, partial fractions. Trigonometry: trigonometric identities, addition and subtraction formulas, double-angle formulas and factor formulas, general solution of trigonometric equation. Solution of system of linear equation: Determinants and cofactor, inverse matrices, Cramer's rule, Gauss elimination method. Complex numbers: polar form, Euler's form, De Moivre's theorem, nth root of complex numbers. Vectors: operations including dot product and cross product in 2 and 3 dimensions. Planes and lines equation. Conic section: circle, parabola, ellipse, hyperbola.

References

1. Nafisah@Kamariah Md Kamaruddin & Norhaidah Mohd Asrah (2006). Modul Pengajaran: Algebra. UTHM.
2. R. N. Aufmann, V. C. Barker & R. D. Nation (2005), College Algebra and Trigonometry. 5th. Ed. Houghton Mifflin Company, New York. No. Panggilan: QA154.3 .A93 2005.
3. Dwyer, David & Gruenwald, Mark (2000). Algebra for College Students, 2nd. Ed. Pacific Grove, CA : Brooks/Cole. No. Panggilan: QA152.2 .D89 2000.

4. R. Larson et. al. (2008) Algebra and Trigonometry: A graphical Approach, Houghton Mifflin Company, New York. No. Panggilan: QA154.3 .L37 2008.
5. Stewart, J., Redlin, L. and Watson, S. (2004). College Algebra, 4th Ed. Belmont, CA : Brooks/Cole. No. Panggilan: QA152 .S73 2004.

BBP 10502 Creativity and Innovation in TVE

Prerequisite Course(s): None

Synopsis

This course focuses on developing a creative person who will eventually think strategically, creatively and critically. The knowledge and skills acquired throughout the course will later be applied by the students in solving problems and making decisions in the future. In this course, students will be exposed to various creativity and problem solving techniques. Some of the skills to be covered throughout the course are problem solving, techniques in creativity and techniques in innovation. Students will also be participating in exhibition and competition.

References

1. Bernacki, E. 2002. Wow! That's a Great Idea!. Singapore : Prentice Hall.
2. De Bono, E. (2003). Serious Creativity 1 : Lateral Thinking Tools, Techniques and Application. Singapore : Allscript Books.
3. De Bono, E. (2003). Serious Creativity 2 : Lateral Thinking Tools, Techniques and Application. Singapore : Allscript Books.
4. Ceserani, J. & Greatwood, P. 1995. Innovation and Creativity. London : Kogan Page.
5. Ceserani, J. & Greatwood, P. 2001. Innovation and Creativity. New Delhi : Creast Publishing House.
6. Clegg, B. & Birch, P. 2002. Crash Course in Creativity. London : Kogan Page.
7. De Bono, E. 1998. Edward De Bono Supermind Pack: Expand Your Thinking Power with Strategic & Mental Exercise. DK Publishing Incorporated.
8. Lumsdaine, E., Lumsdaine, M. & Shelnut, J. W. 1999. Creative Problem Solving and Engineering Design. USA: McGraw-Hill.

BBP 40302 Entrepreneurship

Prerequisite Course(s): None

Synopsis

This course exposes students to the basic aspects of entrepreneurship. This course includes four modules, namely fostering an entrepreneurial culture, opportunities and business plans, practical entrepreneurship and entrepreneurial activity report presentation.

References

1. Kementerian Pengajian Tinggi (2007) 'Asas Pembudayaan Keusahawanan'. Penerbit UUM;.
2. Marc J. Dollinger. – 3rd ed. (2003), 'Entrepreneurship; Strategic and Resources'. Prentice Hall Pearson Malaysia Sdn. Bhd.
3. UiTM Entrepreneurship Study Group (2004), 'Fundamentals of Entrepreneurship' Prentice Hall Pearson Malaysia Sdn. Bhd.
4. Carol Yip (2007) 'Smart Money-User' Kanyin Publication.

5. Agensi Kaunseling and Pengurusan Kredit (2009) 'Money Sense-Getting Smart with Your Money. 2nd Edition
6. Agensi Kaunseling and Pengurusan Kredit (2009) 'Celik Wang-Pengurusan Wang secara Bijak

BBP 20202 Occupational Safety and Health (OSH)

Prerequisite Course(s): None

Synopsis

This course introduces students to the knowledge and skills in occupational safety and health (OSH) in the workplace. The scope of study includes the management of Health, Safety and Environment: Introduction to OSH, OSHA, 1994 (Act 514), FMA 1967, EQA 1974, the safety management system and occupational health, safety culture, health and the environment; Management and Risk Assessment: introduction to risk management, risk assessment techniques, HIRARC; Physical injury and Controls: introduction to physical injury, construction works, electrical, mechanical, and that involves chemicals; Health hazards: an introduction to health and hygiene, the dangers of chemical, physical, biological, and hygiene; Accident Investigation and Reporting: identification, accident investigation, the cause of the incident, incident analysis and data collection methods.

References

1. *Occupational Safety and Health Act and Regulations*. MDC Publishers Printer Sdn. Bhd. 2001. Nombor panggilan: KPG1390.M34 2001 rw N2.
2. *Factories and Machinery Act & Regulations*. MDC Publishers Printer Sdn. Bhd. 2001. Nombor panggilan: KPG1390.A31967 .A4 2001 rw N1.
3. Ismail Bahari (2006). *Pengurusan Keselamatan dan Kesihatan Pekerjaan*. Edisi ke-2. McGraw Hill Education (Malaysia). Nombor panggilan: T55.I85 2006.
4. Davies, V. J. & Tomasin K. (2006). *Construction Safety Handbook*. 2nd ed. London: Thomas Telford. Nombor panggilan: TH443.R43 2006.
5. Anton, Thomas J. (2009). *Occupational Safety and Health Management*. 3rd ed. New York: McGraw-Hill. Nombor panggilan: T55.A57 1989.

BBP 30403 Research Methodology in TVE

Prerequisite Course(s): None

Synopsis

This course focuses on the basics of Research. Why carry out research in education? Research in technical and vocational education. Scientific methods in research. Determining the best criteria in research. Ethics in research. Preparing a research proposal. How to write research proposal? How to write a research proposal content. How to determine research problems, motivation in research, understanding the field of research, objective of research, literature, concept, model or theory. Review the findings of previous studies, review past studies methods, research methods, survey design, survey instruments and data analysis.

References

1. *Methods in educational research : from theory to practice / Marguerite G. Ladico, Dean T. Spaulding and Katherine H. Voegtly by Lodico, Marguerite LB1028 .L62 2006*

2. Educational research / K. Swarna Jyothi ; editor Digumarti Bhaskara Rao LB1028 .J96 2007
3. Educational research in practice : making sense of methodology /edited by Joanna Swann and John Pratt LB1028 .E38 2003
4. Understanding and Evaluating qualitative educational research / editor, Marilyn Lichtman LB1028 .U52 2011
5. Introduction to educational research / Craig A. Mertler, C.M. Charles LB1028 .M46 2008

BBP 20402 Project Management

Prerequisite Course(s): None

Synopsis

This course is to equip students with the knowledge and project management skills to enhance teaching and learning in providing human capital development at par with global technological developments. This course exposes students to the planning and control cycle in project management, project plan development, project plan execution, monitoring project progress, project control, integration costs, scheduling information and the findings and make a report and briefing.

References

1. James P. L. (2008). Fundamental of Project Management. 2nd. Edition. O'Reilly Media, Inc. HD69.P75 .L485 2007
2. Sunny Baker, Kim Baker, & G. Michale (2008). The Complete Idiot's Guide to Project Management, 3rd. Edition. O'Reilly Media, Inc. HD69 T54 .B34 1992
3. Scott. B. (2008). Making Things Happen: Mastering Project Management. 1st. Edition. O'Reilly Media, Inc. BF774 .B37 2007

BBP 30103 Laboratory and Workshop Management

Prerequisite Course(s): None

Synopsis

This course will introduce pre service instructors in the field of Technical Education to management perspective. Introduction to Industry Management; introduction, definitions of management, approach to management, total quality management (TQM), legislation under the act, Lab and Workshop Safety; Review of health, early detection of disease at work, industry safety of act, OSHA Regulations Act 1996 and 1997, Safety measures, installation; The design and layout of the plant, contract specifications, Industrial Organization, Management; Functions and objectives of management, personnel management, staff management, Disciplining staff, handling plant, Inspection and air pollution, preparation of equipment and materials; Identification, preparation of equipment and materials, workshops, laboratories and field, storage of chemicals, environmental safety, Organization and Management Workshop; The meaning and purpose of the organization, scope of the organization and management workshops, workshop layout according to the needs and safety, storage and handling; Storage of materials and equipment, equipment and material concepts, techniques of quantitative management, operation, maintenance; Maintenance management, maintenance categories, implementation of maintenance, asset management; Procurement procedures (see related circulars), asset management procedures and disposal procedures.

References

1. C.Ray Asfahl (2003) Industrial Safety and Health Management (5th Edition) :Amazon. T55 .A83 2004
2. Kamal Halili Hassan (2001) Undang-undang Keselamatan Industri di Malaysia.Kuala Lumpur : Dewan Bahasa dan Pustaka. HD7262.5.M3 .K35 2001
3. Manuele, Fred A (2003) On The practice of Safety 3rd Edition : Hoboken John Wilet. T55 .M36 2003
4. Mohamad Khan Jamal Khan (200 5) Keselamatan dan Kesihatan Pekerjaan dalam Organisasi. Petaling Jaya : Prentice Hall/Pearson. T55 .M53 2005
5. Aldershot : Ashgate (2004) Teaming up : Components of Safety Under High Risk : Industrial Safety Congress.

BBP 40102 Final Year Project 1

Prerequisite Course(s): BBP30403 RESEARCH METHODOLOGY

Synopsis

This module consist of:

Introduction: Introduction, background of study, statemment of problem, purpose of study, objective of study, question of study,concept framework of study,importance of study, scope of study, limitation of study, operasional definition, summary.

Literature: Introduction, related literature (concept/theory/model), related research (Related findings of previous studies) and summary.

Methodology: introduction, design of study, chronological study of product development (analyze project need, design selection, analysis and modification, testing and evaluation, design spesification, material selection, tool and material for the project, installation process), and summary

Presentation: Assessment and reflection of prposal report Degree Project 1, verbal feedback about Degree Project 1 from supervisor/assessor, feedback about instrumens from supervisor/ assessor.

References

1. Module Implementation Final Year Project (university and Faculty).
2. University Academic Regulations
3. University Thesis Writing Guide

BBP 40204 Final Year Project 2

Prerequisite Course(s): BBP40102 Final Year Project 1

Synopsis

Chapter 1: Introduction (Introduction, Background of study, Statemment of problem, Purpose of study, Objective of study, Question of study, Concept framework of study, Importance of study, Scope of study, Limitation of study, operasional definition, summary.

Chapter 2: Literature Review (Introduction, Related literature (concept/theory/model), Related research (Related findings of previous studies), Summary). Chapter 3: Methodology (Introduction, Design of study/project, chronological study of product development (analyze project need, design selection, analysis and modification, testing and evaluation, Population /respondent/ design spesification, Material selection (material for the casing, the material for the operations), Research instrument / Equipment and Materials Used (Project development and costs), Installation Process, Analysis item / process testing, Expectations Finding, Summary. Chapter 4: Analysis

Engineering / Product / research (Introduction, Research finding, Material design analysis (Implementation of components and materials testing), Product design analysis (Implementation and testing) and Summary. Chapter 5: Discussion, Conclusion and Recommendation (Introduction, Discussion (Materials design and product design), Conclusion, Recommendation (Proposed findings and further study recommendations) and Summary. Assessment and Reflection Research Report (Degree Project II), (Verbal feedback from supervisor and assessor and Feedback from supervisor and assessor through assessment instruments Degree Project II.

References

1. Module Implementation Final Year Project (university and Faculty).
2. University Academic Regulations
3. University Thesis Writing Guide

BBD 10500 School Orientation Planning

Prerequisite Course(s): None

Synopsis

School History : administration , building , department , public relations . School : school location , school plans , infrastructure and school facilities . Vision and mission of the school : the vision , mission , charter , pledge , song , badge . School's administrative organization : organizational , administrative , academic organization , curricular organization . School activities : academic , co-curricular activities , activities hem , Textbook Loan Scheme , projects of excellence , ICT , special program . School and community : Parents and Teachers Association (PIBG) , school council consensus , the board of management of the school , the teachers council / council school principals , National Union of Teaching Profession (NUTP) .

References

1. David Hopkins. (2008). A teacher's guide to classroom research. Maidenhead: Open University Press. No. Panggilan: LB1028.24 .H66 2008
2. Zol Azlan Hamidin (2000). Strategi Pengajaran : pendekatan sains teknologi masyarakat. Selangor: Pearson. No. Panggilan: LB1532.M3 .Z64 2000
3. James Nolan, Jr. , Linda A. Hoover. (2011). Teacher supervision and evaluation: theory into practice. Hoboken, NJ: John Wiley. No. Panggilan: LB2838 .N64 2011
4. James Raths and Amy C. McAninch. (2003). Teacher beliefs and classroom performance: the impact of teacher education. Greenwich, CT: Information Age Publishing. No. Panggilan: LB1775.2 .T43 2003
5. John C.Daresh. (2002). Teachers mentoring teachers: a practical approach to helping new and experienced staff. Thousand Oaks, CA: Corwin Press. No ISBN: 0761945768, 9780761945765.

BBP 40408 Teaching Training

Prerequisite Course(s): Pedagogy (BBD10302), Micro Teaching (BBD20403)

Synopsis

This course focuses on Teaching Preparation: writing teaching schedule, annual teaching plan, weekly teaching plan, daily lesson plan. Implementation of teaching plans: Teaching: pre-teaching skills, induction set skills, presentation skills, questioning skills and assessments, teaching using teaching aids, classroom control, cover. Reflection: oral feedback from instructors / supervisors, supervisor / supervisor

feedback through evaluation instruments, teaching, reflection writing in teaching planning books. Routine work: management and administration, job examinations / student assignments, continuous assessment, lab management and workshops, other instructional tasks, preparation of teaching training portfolios.

References

1. Emmer, Edmund T (2015) Handbook of classroom management, New York : Routledge, Taylor & Francis Group [LB3013 .H36 2015]
2. Lyons, Gordon (2014) Classroom management: creating positive learning environments, South Melbourne: Cengage Learning [LB3013. L96 2014]
3. Senior, Lynn (2017) A teacher's guide to 14-19 policy and practice. New York, NY: Routledge [LC1047.G7. S46 2017]
4. Weinstein, Carol Simon (2015) Middle and secondary classroom management: lessons from research and practice, New York, NY: McGraw-Hill Education [LB3013. W44 2015]
5. FPTV Practical Teaching Guide 2020

BBP 30404 Industrial Training

Prerequisite Course(s): Students need to complete the all related core courses

Synopsis

This course focuses on the planning. Throughout planning Period of Industrial Training. Monthly Planning. Weekly planning. Project planning. Daily Duties. Briefing Supervisors. Implementation Assignment. Communication. Log book. The scope of the project. Task Completion. Learning. Reflection. Studies Organization. Organisational structure. Communication Channels. Climate Organization. Current development of Organization. Practices and Work Procedure. Report Writing. Writing format. Presentation. Documents Attachment and Presentation Materials.

References

1. *Panduan Latihan Industri Universiti*
2. *Panduan Latihan Industri Fakulti*
3. *Peraturan Akademik Universiti*

BBP 15103 Computer Programming

Prerequisite Course(s): None

Synopsis

This course will expose students to the introduction of the computer, history of computer development, computer types, hardware and computer architecture, computer software, introduction to programming concepts, programming languages, C programming, Algorithms and Problem Solving; problem-solving methodology, algorithms, pseudo code, Variables; introduction to variables, the declaration of variables, data types, constants, giving value to a constant, Input Output Operations and Expression; the function of scanf (), the function of printf (), programming examples, basic arithmetic operators, arithmetic expressions, declarative statements, relational operators, logical operators, increment and decrement operators, Control Structure conditional and repetition; the if statement, switch and break statements, for statements, while statements, do-while statement, continue statement, break statement in the loop, nested loops, Functions, and Modular Programming; C standard library functions, modular programming, prototypes function, function calls, Arrays; introduction to array & definition, one-dimensional arrays, two-dimensional arrays, Characters and Strings; basic character and string, declare a string, referring string, character manipulation functions, functions input and output character string, string manipulation functions, an array of strings.

References

1. Goyal, A. K. (2008). The C programming language. Oxford : Alpha Science. No panggilan: QA76.73.C15 .G69 2008
2. Johnston, B. (2008). C++ programming today. Upper Saddle River, NJ : Pearson. No panggilan: QA76.73.C153 .J63 2008
3. King, K. N. (2008). C programming : a modern approach. New York : W. W. Norton. No panggilan: QA76.73.C15 .K56 2008
4. Malik, D. S. (2011). C++ programming : from problem analysis to program design. Boston, MA : Course Technology. No panggilan: QA76.73.C153 .M345 2011
5. Scholl, J. (2009). C++ programming : from problem analysis to program design : lab manual. Boston, MA : Course Technology. No panggilan: QA76.73.C153.S36 2009

BBU 10203 Basic Graphic

Prerequisite Course(s): None

Synopsis

In this course, students will be introduced to Graphics in Education; how graphics can assist education?, Graphics applications, Application Technology, Basic Elements of Graphic Design; point, line, surface, volume, Basic Principles of Graphic Design; axis, symmetry, hierarchy, datum, rhythm, repetition, transformation, unity, proportion and scale, Arrangement in Graphic Design; centralized arrangement, linear arrangement, radius arrangement, clustered arrangement, grid arrangement, Shape, Space and Texture; shape, size, color, texture, space types, Basic Theory of Coloring; color dimensional, color wheel, tone color, color value, color chrome, Basic Technique of Sketches, Smear and Lettering; the properties and characteristics of the line, drawing techniques, shading techniques, types of lettering, the distance between letters, words

and lines of verse, application sketches, shading and lettering in graphic design, Graphic Design process; instructional design, design analysis, development of conceptual ideas, "typography" layout design, illustration and symbols, the draft , cleaning and storage, Photography; principles and concepts of photography, the rules in photography, the technique of taking pictures, the application of basic photographic techniques in graphics.

References

1. Arntson, A. E. (2007) Graphic design basics. United States : Thomson/Wadsworth. No panggilan: NC1000 .A76 2007.
2. Eismann, K., Duggan, S. & Grey, T. (2011) Real world digital photography Berkeley, CA : Peachpit Press. No panggilan: TR267 .E37 2011
3. Graham, L. (2002) Basics of design : layout and typography for beginners. Albany : Delmar. No panggilan: Z246 .G72 2002.
4. McKenzie, J. & Overturf, D. (2010) Artificial lighting for photography. Clifton Park : Cengage Learning. No panggilan: TR590 .M53 2010
5. Peterson, B.L. (2003) Design basics : for creative results. Cincinnati, OH : How Design Books. No panggilan: NC845 .P47 2003

BBU 20403 Digital Graphic Design

Prerequisite Course(s): BBU 20103 Basic of Graphic

Synopsis

This course emphasizes on the Introduction to Digital Graphics; history of digital graphics, basic of digital graphics, the exchange of basic graphics to digital graphics, Principles of Graphic Design; construction of primitive graphics, graphic design portfolio analysis, graphics design portfolio assessment, transformation of primitive graphics to digital graphics, Bitmap Image With Adobe Photoshop / Image Ready; composite digital capture (digital camera or scanner), digital editing, clipping, lighting model or illumination and the concept of shadow, Designer Tools For Photoshop; workstation, cue version, layer management, color management, drawing, filters for special effects, storage and export files, Studio Adobe Illustrator; selection tools, painting tools, design tools, object reconstruction, the use of transparent, gradients and patterns, format types, Importance of Visualization and Graphics Simulation; technology in communication graphics, geometric modeling, the importance and use of visualization in education.

References

1. Dayley, L. D & Dayley, B. (2010) Photoshop CS5 bible. Indianapolis, IN : Wiley. No panggilan: T385 .D39 2010
2. Fitzgerald, M. (2008) Photoshop cs3 restoration and retouching bible. Indianapolis, IN : Wiley Pub. No panggilan: T385 .F58 2008
3. Glidden, R. (1997). Graphics programming with Direct3D : techniques and concepts. Reading, Massachusetts : Addison-Wesley. No panggilan: T385 .G54 1997
4. Hartman, A. and Sholar, K. (2008). Exploring Illustrator CS3: Design Exploration. Clifton Park, NY : Thomson Delmar Learning. No panggilan: T385 .H46 2008
5. Richard, M. L. (2008). Graphics concepts for computer-aided design. Upper Saddle River, NJ : Pearson. No panggilan: T353 .L834 2008

BBU 20202 Mathematics in Computer Communication

Prerequisite Course(s): None

Synopsis

This course exposes students to the Numbering System; types and properties of algebraic numbers, complex numbers inequalities, linear and quadratic equations, Relationship and functions; types of relationships, a digraph and matrix of relations, equivalence relations and the box, single function, the function of a whole, the function composite and inverse, the types of functions, Graph Theory; shaking hands theorem, the type of graph, crossing and connectivity, the sequence of degrees, isomorphism, representation matrices, Eulerian and Hamiltonian graphs, trees, Counting; tips on handling, permutations, combinations, binomial theorem , natural relations, Logical; truth table, conditional statements, tautology and conflict, equality, logic rule, the validity of arguments, Matrix and Vector; determinant, Cramer's rule, the system of equations, vector algebra, Set; power set, operations and the identities of sets, set of computer representation.

References

1. Epp, S. S. (2004) Discrete mathematics with applications. Belmont, CA : Brooks/Cole. No panggilan: QA39.3 .E66 2004
2. Gossett, E. (2009) Discrete mathematics with proof. Hoboken, NJ : John Wiley & Sons. No panggilan: QA39.3 .G67 2009
3. Haggard, G., Schlipf, J. & Whitesides, S. (2006) Discrete mathematics for computer science. Belmont, CA : Thomson. No panggilan: QA39.2 .H33 2006
4. Johnsonbaugh, R. (2009) Discrete mathematics. Upper Saddle River, NJ : Pearson. No panggilan: QA39.2 .J63 2009
5. Kaul, H. & Mulder, H. M. (2011) Advances in interdisciplinary applied discrete mathematics. Singapore ; Hackensack, N.J. : World Scientific Pub. Co. No panggilan: QA76.9.M35 .A38 2011

BBU 20103 Human - Computer Interaction

Prerequisite Course(s): None

Synopsis

This course will expose students to the Introduction to Human and Computer; human versus computer, human versus human, human capacity, Human and Computer Interaction: interactivity, interaction paradigms, design process of interactive system, usability of interactive systems, Style User Interface Style And Support; style of interaction, principles of good design, labeling, conceptual model, user-centered design (UCD), initial and continuing focus on users, design integration, initial and continuing test on users, repeat design, Prototyping and Visualization Techniques; prototype, task analysis, task analysis in the design, Usability Assessment; cognitive task analysis, protocol thinking, heuristic evaluation, elements of the checklist, testing, interviews, questionnaires, observation, Web Usability; web design paradigm, web usability, web accessibility.

References

1. Bedny, G.Z. & Karwowski, W. (2011) Human-computer interaction and operators' performance : optimizing work design with activity theory. Boca

- Raton, FL : CRC Press. No panggilan: QA76.9.H85 .H86 2011
2. McKay, E. (2008) The human-dimensions of human-computer interaction : balancing the HCI equation. Amsterdam ; Washington, DC : IOS Press. No panggilan: QA76.9.H85 .M34 2008
 3. Sears, A. & Jacko, J. A. (2009) Human-computer interaction : design issues, solutions and applications. Boca Raton, FL : CRC Press. No panggilan: QA76.9.H85 .H858 2009
 4. Sears, A. & Jacko, J. A. (2009) Human-computer interaction : development process. Boca Raton, FL : CRC Press. No panggilan: QA76.9.H85 .H854 2009
 5. Smith-Atakan, S. (2006) Human-computer interaction. London : Thomson. No panggilan: QA76.9.H85 .S64 2006

BBU 30103 Digital Video Audio Production

Prerequisite Course(s): None

Synopsis

This course will expose students to the Introduction to Audio and its Applications; the introduction of audio and its applications, advantages and disadvantages of audio in education, audio technology, the importance of audio, audio guide, the basic concepts of audio, analog audio and digital audio, Hardware In Audio System; basic needs of an audio system, conversion process of analog audio to digital audio, audio support equipment, Digital Audio Sampling, Quality and Compression: audio sampling, factors affecting the quality of digital audio, digital audio file size, compression of digital audio, digital audio file formats , The Digital Audio Production and Distribution; the publication of digital vs. analog audio, the process of digital audio publication, the distribution of digital audio, guidelines for using audio in multimedia applications, audio technology over the web, Digital Audio Editing and Recording Software: audio recording and editing software , music creation and audio effects software, digital audio files format, audio utility software, video player software, the audio recording process, audio editing process, the publication of digital audio in various formats, audio production flow, Introduction to Video and its Applications; the use of video in the life daily, the use of video in education, video technology in multimedia applications, Video Production Process; pre-production phase, production phase, post-production phase, script in video production, filming techniques and scene shifting in the video script, the general guidelines in a video recording, Type and Major Components Video Cameras; the type of video camera, the main component of video camera, the type of input and output connections, user guide of video cameras, Video Editing- Linear and Non Linear: linear editing techniques, the linear process of video editing, video digitization process , the computer system for video editing, digital video editing software, Digital Video's Quality, File Size, Compression and File Formats; the factors that influence the quality of digital video, digital video file size, the basic concepts of digital video compression, digital video compression approach , digital video compression technology, the factors that influence the quality of compressed video, digital video compression standard, digital video file formats, Special Effects, Digital Video Storage and Distribution; special effects technology in traditional and digital era, blue screen technology, video dissemination technology through web, digital video storage media, technology dissemination through web video.).

References

1. Cavallaro, A. & Maggio, E. (2011) Video tracking : theory and practice. Chichester : John Wiley. No panggilan: TK6680.3 .C38 2011
2. Kim, H. G., Moreau, N. & Sikora, T. (2005) MPEG-7 audio and beyond : audio content indexing and retrieval. Hoboken, NJ : John Wiley. No panggilan:

- TK6680.5 .K55 2005
3. Lozano, J. (1997). *Multimedia: Sound and Video*, Indianapolis, IN : QUE E and T. No panggilan: QA76.57 .L69 1997
 4. Moeslund, T. B. (2012) *Introduction to video and image processing : building real systems and applications*. New York : Springer.
 5. Zettl, H. (2010) *Video basics 6*. Boston, MA : Wadsworth. No panggilan: TR882.5 .Z47 2010

BBU 30203 3D Modelling

Prerequisite Course(s): BBU20403 Digital Graphic Design

Synopsis

This course introduces the knowledge and skills of: Introduction to 3D modeling: an introduction to 3D computer graphics, introduction to the 3d concept, introduction to 3d studio max, the use of 3d studio max, 3d max user interface, navigation by using viewcube and steeringwheel, the use of files, production and modification 3d max scenes; Basic Skills of Modeling; production of 2d and 3d objects, extrude object shape, the use of modifier stack and object modification, make object selection and transformation, making low-poly modeling, making high details model, produce organic-form model , produce a 3d model from 2d model; Advanced Modeling Skills; poly object, import the reference images, attach and detach elements, crease line, freeze / unfreeze and hide / unhide the object scene, the use of 2d & 3d snap, patch modeling, change group id smooth , weld & chamfer vertices, flip polygons, create leather material (noise & cellular effect);The use of Loft; produce 2d spline with Booleans, loft objects produced by deformations (twist, teeter & fit), sculpting objects with scale deformation; Materials and Mapping; principles of surface and material, an introduction to the materials editor, the types of materials, applying and using materials, using 2D maps, an introduction to the UVW mapping, edit coordinat UVW map, applying materials and maps, the use of displacement mapping, manipulation raytrace Transparency and properties, these techniques produce materials; Lighting and Global illumination; standard light (omni, spotlight and target direct spotlight), the manipulation of general lighting parameters, intensity / color / attenuation parameters, advanced lighting effectshadow parameters; rendering; production and iteratively rendering, scanline renderer, mental ray, rendering engine, rendering output, rendering environment effects and dialogue; Camera; type of camera , the camera moves, resulting in a camera, camera, rendering effects; Animation in 3D; use auto key animation, Animating with the dummy object, track view and curve editors, Animating with the key set, tangent handles, controls the visibility of animated objects.

References

1. Coorough, C. & Shuman, J. (2006). *Multimedia for the web : revealed : creating digital excitement*. Boston, MA. : Thomson/Course Technology. No panggilan: QA76.76.I59 .C66 200
2. Dowling, J. C. (2012). *Multimedia demystified*. New York : McGraw-Hill.
3. Giamb Bruno, M. (2002). *3D graphics and animation*. Boston : New Riders. No panggilan: T385 .G53 2002
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5. Murdock, K. L.(2010). *3Ds max 2011 bible w/dvd*. Indianapolis, IN : Wiley Pub., Inc. No panggilan: TR897.7 .M874 2010

BBU 30303 Technology Animation

Prerequisite Course(s): None

Synopsis

This course focuses on the basic concept of guidance and counseling: What is counseling, the development of guidance and counseling services in Malaysian schools. The philosophy of guidance and counseling services: the need for rational guidance and counseling services in the context of national education philosophy and technical and vocational education for the school and the community and the country. The qualities of a counselor: acceptance and warmth, do not punish (non-judgmental), the authenticity, accuracy (specificity). Procedure counseling processes: provide sessions, building relationships, exploring the problem, identify the cause of the problem, seeking and discussing alternatives for action, and ending the session. Basic counseling skills: listening, empathy: to understand the emotions and feelings, reflecting, explaining and paraphrasing, questioning and confronting, formulating and roll, counseling theories: comparison of western and Islamic counseling, psychoanalytic theory, the theory of convergence of the client (Client -Centered Therapy), Alfred Adler's theory, theory of behavior, theory of reality. Counseling services in schools: individual inventory, providing information, guidance / counseling groups, individual counseling, placement, drug use prevention, consultation and referral sources, subject areas: education counseling, career guidance, personal and social counseling. The use of tests in the guidance: the selection and administration of the tests, the validity of the tests, reliability tests, advantages and limitations in the use of the test, a sample-exam tests such as intelligence, aptitude test (talent and inclination), interest test, personality test. Ethics Counseling: Counseling ethical concepts, ethical counseling in Malaysia by Malaysia Counselor Association (PERKAMA).

References

1. Brinkmann, R. (2008). The art and science of digital compositing : techniques for visual effects, animation and motion graphics. Amsterdam : Elsevier. No panggilan: T385 .B74 2008
2. Parent, R. (2008) Computer animation : algorithms and techniques. Oxford : Elsevier Science. No panggilan: TR897.7 .P364 2008.
3. Perkins, T. (2008) Adobe Flash CS3 professional. Berkeley, CA : lynda.com. No panggilan: TR897.7 .P47 2008
4. Rosenzweig, G. (2008) ActionScript 3.0 game programming university. Upper Saddle River, NJ : Pearson. No panggilan: QA76.76.C672 .R67 2008
5. Schaeffer, M. (2008) Adobe Flash CS3 professional how-tos : 100 essential techniques. Berkeley, CA : Peachpit Press. No panggilan: TR897.7 .S32 2008.

BBU 30403 Computer Networks

Prerequisite Course(s): None

Synopsis

This course exposes students to the Introduction; definitions and basic concepts, major computer components, computer categories, the use of computers, computer generation processing unit; chip microprocessor, memory, representation of data, system unit, system clock, bus line, Input Output; recognition input output, input methods, output methods, Secondary Storage; Basic storage, magnetic storage, compare the types of storage, performance enhancement, Secondary Storage; Basic

storage, magnetic storage, compare the types of storage, performance improvement, Basic Networking; pegenalan to a network, network topology, network access method, type of network, network protocols, Media Transmission; the introduction of transmission media, twisted pair wire, coaxial cable, fiber optic cable, transmission media art, media selection, Standards; standards organizations, osi reference model, model tcp / ip, Communication Devices and Networks; modem, CODEC, DSU, multiplexer, repeater, bridge, router, hub, switch, gateway, Local Area Network (LAN); LAN common network, a network PC, LAN Ethernet, Wireless LAN.

References

1. Bartee, T. C. (1991). Computer Architecture and Logis Design, New York : McGraw-Hill. No panggilan: QA76.9 A73 . B37 1991 N2
2. Carpinelli, J. D. (2001). Computer systems organization and architecture. Boston, MA : Addison Wesley. No panggilan: QA76.9.C643 .C37 2001
3. Comer, D. E. (2004). Computer networks and internets : with internet applications. Upper Saddle River, NJ : Prentice Hall. No panggilan: TK5105.5 .C654 2004
4. Forouzan, B. A., Coombs, C. & Fegan, S. C. (2001). Data communications and networking. Boston : McGraw-Hill. No panggilan: TK5105 .F67 2001
5. Stallings, W. (2010). Computer Organization and Architecture: Designing For Performance. Upper Saddle River: Prentice Hall. No panggilan: QA76.9.C643 .S72 2010
6. Tomasi, W. (2005). Introduction to data communications and networking. Upper Saddle River, NJ : Pearson. No panggilan: TK5105 .T65 2005

BBU 40104 Multimedia Production Project

**Prerequisite Course(s): BBU30203 3D Modelling
BBU 30103 Digital Video Audio Production
BBU30303 Technology Animation**

Synopsis

Students are given a project that would include the establishment of the Working Group ; the selection of the working group and the name of office of each member , the definition of the scope of work for each field task , Construction Proposal ; the selection of projects to be developed , the construction of a flowchart , storyboard and prototype construction , assembly and construction proposals , Presentation Work Proposal; Development Source File ; selection of software and hardware , search materials from outside sources or own construction , Presentation Source File; students will make a collection of source files; collection of source files, analysis of the source file, Rating: alpha test, beta test, Making Support Documentation: user guide, user technical guide, Final Products Presentation: Markets of Final Product.

References

1. Breebaart, J. & Faller, C. (2007). Spatial audio processing : MPEG surround and other applications. Hoboken, NJ : John Wiley and Sons. No panggilan: TK7881.4 .B73 2007
2. Chapman, N. P. & Chapman, J. (2009). Digital multimedia. Chichester : John Wiley. No panggilan: QA76.575 .C53 2009
3. England, E. & Finney, A. (2007) Managing interactive media : project management for web and digital media. Harlow : Addison-Wesley. No

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4. Fischer, W. (2008) Digital video and audio broadcasting technology : a practical engineering guide. Berlin : Springer. No panggilan: TK6680.5 .F57 2008
 5. Frick, T. (2008). Managing interactive media projects. Clifton Park, NY : Thomson Delmar Learning. No panggilan: QA76.76.I59 .F74 2008
 6. Miller, C. H. (2004). Digital storytelling : a creator's guide to interactive entertainment / Burlington, MA : Focal Press. No panggilan: QA76.76.I59 .M55 2004

BBU 40203 Web Programming

Prerequisite Course(s): BBP15103 Computer Programming

Synopsis

This course introduces students to Web technology and open source software; introduction, basic concepts of the Internet and the web, the web as a platform database applications, open source software, Introduction Hypertext Preprocessor (PHP); concept and history of hypertext preprocessor (PHP), the basic requirements before writing the program PHP, PHP installation due to separate, because PHP installation package, programmable basic PHP programming, the use of comments, data types, constants, variables, control structures and string, array and function, web-Based Application Development Using PHP; application development, website application key, random number generation module (PNR), the module generating random variation (PVR), the file management application, Introduction Macromedia Dreamweaver; introduction to web authoring software, interface Macromedia Dreamweaver, Macromedia Dreamweaver site, because in Macromedia Dreamweaver, Introduction to Active Server Pages (ASP); the introduction of active server pages, ASP scripts, basic requirements before implementing the ASP writing, personal web server installation (PWS), the installation of Internet Information Services (IIS), basic ASP development, construction and installation of Database; microsoft access database, Microsoft SQL server databases, ASP Programming Continued; ASP forms, procedures, use of cookies and session usage.

References

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2. Khosravi, S. (2007). ASP.NET Ajax : programmer's reference. Indianapolis, IN : John Wiley. No panggilan: TK5105.8885.A26 .K47 2007
3. Matthews, M. & Cronan, J. (2010). Dynamic web programming : a beginner's guide. New York : McGraw-Hill. No panggilan: TK5105.888 .M38 2010.
4. Moore, D., Budd, R. & Wright, W. (2007). Professional Python frameworks : web 2.0 programming with Django and TurboGears. Indianapolis, IN : John Wiley. No panggilan: TK5105.888 .M66 2007
5. Moseley, R. (2007). Developing web applications. Hoboken, NJ : John Wiley. No panggilan: TK5105.888 .M68 2007

BBU 40403 Business in Multimedia

Prerequisite Course(s): None

Synopsis

This course applies the following elements to the students : Introduction Multimedia Business Sector ; what is business? What is business in multimedia? How multimedia works in the business environment? Searching for project ; what is projects ? How to find a good project? Proposal writing for budgeting , sponsorship , presenting the Working Paper ; searching for established company, searching project to the significant company, technical paper presentations, Customer Management ; how to deal with customers, believes, projects strength, Important Document Preparation ; contract documentation, mou documentation, letterhead, Current Project Outside the Station ; introduction to mobile technology , mobile technology benefits , hardware mobile, mobile management and project outside the station.

References

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2. Grandori, A. & Giordani, L. G. (2011). Organizing entrepreneurship. New York, NY : Routledge. No panggilan: HB615 .G72 2011
3. Keen, J. M. (2011). Making technology investments profitable: ROI roadmap from business case to value realization. Hoboken, N.J. : Wiley. No panggilan: HD30.2 .K48 2011
4. Norris, M. (2001). Mobile IP to technology for M-business. Boston: Artech House. No panggilan: TK5105.585 .N67 2001
5. Salkowitz, R. (2010). Young world rising : how youth, technology and entrepreneurship are changing the world from the bottom up. Hoboken : John Wiley. No panggilan: T14.5 .S24 2010

BBP 45302 Ethics in Computing

Prerequisite Course(s): None

Synopsis

This course describes the software: Issue Ownership and Copyright; software piracy, the types of software piracy, the impact of pirated computer software, why is software piracy occurs?, Software piracy: is it a crime?, Control measures, copyright in term of cultural and legal, ownership of computer programs and paradigms of law, anti-piracy software campaign, Computer Security: Intrusion Attacks and Protection: information technology and security issues, cyber crime, does it exist?, computer security, identify the target of hackers, software and computer hackers, hackers versus crackers, intrusion devices, classification of invasion, hardware attack, methods to address the impact of computer attacks, Professional Ethics in Information Technology; ethics and computers, moral and ethical problems, ethical principles of computer, 10 computer code of ethics, why ethics computer needs to be reviewed?, why learn computer ethics?, computer's ethical issues and public, professional ethics in information technology, professional ethics codes, code of ethics framework, unethical practices of information technology professionals, the core of professional work ethic, should information technology practitioners have the ethics?, ACM code of professional ethics, Cyber Crime Law; information technology and crime, computer crime versus cyber

crime, the type of cybercrime, cyber crime according to law, traditional crime, computer crime act 1997, the offenses in the Act, jurisdiction, Copyright Law and Computer; copyright, what is copyright 1987, copyright act chronology in Malaysia, types of copyright works, interpretation of protected copyright works, ownership of copyright, conditions of copyright protection, copyright formalities, the exclusive right of owners, copyright infringement, exceptions to copyright infringement: urusan wajar, legal action that can be taken, enforcement of the Copyright Act 1987, amendments to Copyright Act 1987.

References

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2. Hester, D. M.& Ford, P. J. (2001) Computers and ethics in the cyberage. Upper Saddle River, NJ : Prentice Hall. No panggilan: QA76.9 .M65 .C55 2001
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4. Spinello, R. A. (2006) Cyberethics : morality and law in cyberspace. Sudbury, MA: Jones and Bartlett Pub. No panggilan: TK5105.875.I57 .S64 2006
5. Tavani, H. T. (2011) Ethics and technology : controversies, questions, and strategies for ethical computing. Hoboken : Wiley. No panggilan: TK5105.5 .T38 2011

BBU 10303 Basic Multimedia

Prerequisite Course: None

Synopsis

This course exposes students to the Introduction to Multimedia Technology; definition of multimedia, history and the concept of multimedia, multimedia features, the types of media, development and future of multimedia technology, Multimedia Technology Applications; application of multimedia technology, multimedia super corridor (MSC), 2-dimensional application, 3-dimensional application, virtual reality, Augmented reality, Cognition and Design for Human: cognition and design, hierarchy of needs in the design, human thought, seven steps of human actions, Multimedia elements text and Graphics; text definition and its significance, text as multimedia elements, the type face and font, text size and category, guidelines in using of text in multimedia applications, text-intensive multimedia applications, hypertext, text authoring software, the definition and importance of graphics, history of graphics, computer graphics applications, the use of graphics in multimedia, categories of graphics, animations; principles of animation, the importance of animation in multimedia, computer animation, applications of computer animation, techniques of animation, traditional animation, Audio in Multimedia: audio, sound card, sound format, the role of audio in multimedia, audio file format, resources of audio files, audio software, Video in Multimedia: video, analog video, digital video, the process of video production, video grabbing, the advantages of digital video, digital video problems, the role of video in multimedia, Instructional Design and Learning; principles of gestalt, orientation sensitivity, classical conditioning, iconic display, Multimedia design issues in Learning; the balance of functions and design, user manual, online help and tutorial, information searching.

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2. Chapman, N. P. & Chapman, J. (2009). Digital multimedia. Chichester : John Wiley. No panggilan: QA76.575 .C53 2009
3. England, E. & Finney, A. (2007) Managing interactive media : project management for web and digital media. Harlow : Addison-Wesley. No panggilan: QA76.575 .E53 2007
4. Fischer, W. (2008) Digital video and audio broadcasting technology : a practical engineering guide. Berlin : Springer. No panggilan: TK6680.5 .F57 2008
5. Frick, T. (2008). Managing interactive media projects. Clifton Park, NY : Thomson Delmar Learning. No panggilan: QA76.76.I59 .F74 2008
6. Miller, C. H. (2004). Digital storytelling : a creator's guide to interactive entertainment / Burlington, MA : Focal Press. No panggilan: QA76.76.I59. M55 2004

BBU 20303 Multimedia Authoring

Prerequisite Course(s): None

Synopsis

In this course, students will learn about: Introduction to authoring systems, how to use authoring system? Paradigm in multimedia authoring, multimedia authoring versus multimedia programming, multimedia authoring principles; Issues In Multimedia Application Design; content design, script writing, illustrating, wiggling, hearing, interacting, technical design, visual design, Basic principles of Authoring; using computers to assist learning, instructional processes, methodology to assist in learning, Principles and Approach in Learning; principles of behaviorism, principles of cognitivism, principles of constructivism; General Features in Educational software; introduction to the program, control, information presentation, provision of help, the termination of the program; Multimedia Learning Strategy; tutorials, hypermedia, drills, simulations, educational games, testing, web-based learning, Model for design and Development; instructional system design, standards, empirical approach, planning and project management, implementation, validation, group orientation approach, the evaluation; Storyboard; storyboard definition, storyboard layout, the use of storyboard layout, storyboard prototypes, addition to the storyboard; Writing Scripts; construction ideas, concepts and task analysis, preparation of prototype, flowchart design and prototype, screen exchange method, script preparation concept; Portfolio Construction; portfolio characteristics, portfolio performance.

References

1. Chapman, N. P. & Chapman, J. (2009) Digital multimedia. Chichester : John Wiley. No panggilan: QA76.575 .C53 2009
2. Coorough, C. & Shuman, J. (2006). Multimedia for the web : revealed : creating digital excitement Boston, MA : Thomson/Course Technology. No panggilan: QA76.76.I59 .C66 2006
3. Gong, Y. & Xu, W. (2007) Machine learning for multimedia content analysis. New York : Springer. No panggilan: QA76.575 .G66 2007.
4. Li, Q. & Shih, T. K. (2010) Ubiquitous multimedia computing. Boca Raton, FL : CRC Press. No panggilan: QA76.575 .U34 2010
5. Vaughan, T. (2011) Multimedia : making it work. New York, NY : McGraw Hill. No panggilan: QA76.575 .V38 2011

BBU 40503 Multimedia Development I

**Prerequisite Course(s): BBU30203 3D Modelling
BBU 30103 Digital Video Audio Production
BBU30303 Animation Technology**

Synopsis

Students are given a project that would include the establishment of the Working Group ; the selection of the working group and the name of office of each member , the definition of the scope of work for each field task , Construction Proposal ; the selection of projects to be developed , the construction of a flowchart , storyboard and prototype construction , assembly and construction proposals , Presentation Work Proposal; Development Source File ; selection of software and hardware , search materials from outside sources or own construction , Presentation Source File .

References

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8. Chapman, N. P. & Chapman, J. (2009). Digital multimedia. Chichester : John Wiley. No panggilan: QA76.575 .C53 2009
9. England, E. & Finney, A. (2007) Managing interactive media : project management for web and digital media. Harlow : Addison-Wesley. No panggilan: QA76.575 .E53 2007
10. Fischer, W. (2008) Digital video and audio broadcasting technology : a practical engineering guide. Berlin : Springer. No panggilan: TK6680.5 .F57 2008
11. Frick, T. (2008). Managing interactive media projects. Clifton Park, NY : Thomson Delmar Learning. No panggilan: QA76.76.I59 .F74 2008
12. Miller, C. H. (2004). Digital storytelling : a creator's guide to interactive entertainment / Burlington, MA : Focal Press. No panggilan: QA76.76.I59 .M55 2004

BBU 40603 Multimedia Studio II

Prerequisite Course(s): BBU 40503 Multimedia Development I

Synopsis

This course is a continuation of the Multimedia Studio I in which students will make a collection of source files; collection of source files, analysis of the source file, Rating: alpha test, beta test, Making Support Documentation: user guide, user technical guide, Final Products Presentation: Markets of Final Product.

References

1. Breebaart, J. & Faller, C. (2007). Spatial audio processing : MPEG surround and other applications. Hoboken, NJ : John Wiley and Sons. No panggilan: TK7881.4 .B73 2007
2. Chapman, N. P. & Chapman, J. (2009). Digital multimedia. Chichester : John Wiley. No panggilan: QA76.575 .C53 2009
3. England, E. & Finney, A. (2007) Managing interactive media : project

- management for web and digital media. Harlow : Addison-Wesley. No panggilan: QA76.575 .E53 2007
4. Fischer, W. (2008) Digital video and audio broadcasting technology : a practical engineering guide. Berlin : Springer. No panggilan: TK6680.5 .F57 2008
 5. Frick, T. (2008). Managing interactive media projects. Clifton Park, NY : Thomson Delmar Learning. No panggilan: QA76.76.I59 .F74 2008
 6. Miller, C. H. (2004). Digital storytelling : a creator's guide to interactive entertainment / Burlington, MA : Focal Press. No panggilan: QA76.76.I59 .M55 2004

Employment

Graduates have career opportunities in the public and private sector, particularly in the field of technical and vocational education. In addition to being an educator, graduates can also engage in industrial fields such as in multimedia industry that focuses on the work of multimedia designer and software designer. The graduates also have the potential to become entrepreneurs in related fields. Graduates also have the opportunity to continue their studies at post-graduate level in areas related to technical and vocational education through programs such as Master of Technical and Vocational Education and Master of Technical Education (Instructional Design and Technology) or equivalent programs.

Instructor

Competent Instructor in technical and vocational discipline focussing in graphic design, digital audio and video production, motion graphics, 2D and 3D digital animation, digital media technology, web and mobile application development, casual game development, social media, marketing, web advertising, web analytics and communications. They will also be equipped with the necessary skills on effective instructional design, up-to-date e-learning integration, assessment and continuous research projects.

The duties also include:

- a) Management and implementation in teaching and learning
- b) Management and implementation in assessment
- c) Involvement in research
- d) Creation of new technology

Competent Worker

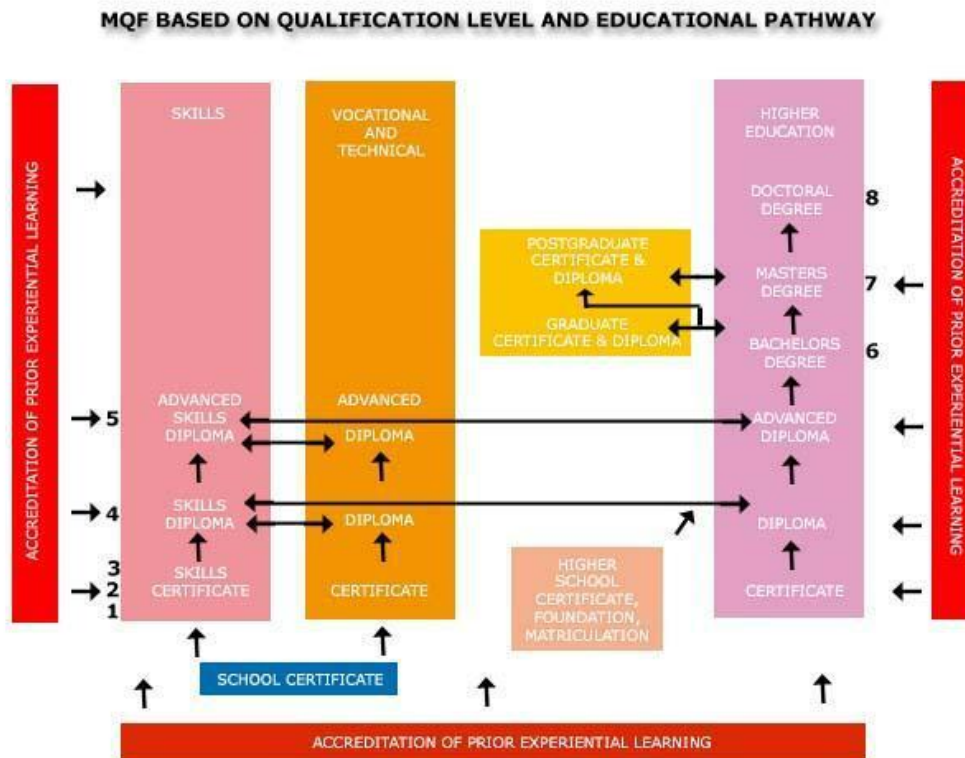
The program implementation format allow every student to develop and excel as skill worker in multimedia and software development service. They will also develop their management skills to enable them to be placed at supervisory or management positions.

Entrepreneur

The graduate of this program has also undergone continuous exposure to commercial operation of multimedia and software development service in the various companies. They have also exposed to other supporting subject such as promotion, advertising and marketing strategies. With all these exposure, they all well prepare to venture into small business enterprise related to multimedia.



Prospects for Continuing Education



Source: Malaysian Qualification Framework

**MALAYSIAN QUALIFICATIONS FRAMEWORK:
QUALIFICATIONS AND LEVELS**

MQF Levels	Sectors			Lifelong Learning
	Skills	Vocational and Technical	Higher Education	
8			Doctoral Degree	Accreditation of Prior Experiential Learning (APEL)
7			Masters Degree	
			Postgraduate Certificate & Diploma	
6			Bachelors Degree	
			Graduate Certificate & Diploma	
5	Advanced Diploma	Advanced Diploma	Advanced Diploma	
4	Diploma	Diploma	Diploma	
3	Skills Certificate 3	Vocational and Technical Certificate	Certificate	
2	Skills Certificate 2			
1	Skills Certificate 1			

Source: Malaysian Qualification Framework



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