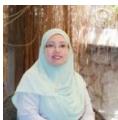




Bachelor of Urban and Regional Planning (Honours)

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2.0 URBAN AND REGIONAL PLANNING PROGRAMME

The Urban and Regional Planning Programme has been offered since 1973, and to date, it has produced more than 1,500 graduates. The Programme has been restructured to produce skilled and trained graduates in line with the Built Environment industry's requirements and demands.

Bachelor of Urban and Regional Planning (Honours) is a 4-year degree programme accredited by the Board of Town Planners Malaysia (*Lembaga Perancang Bandar Malaysia - LPBM*) and the Malaysian Qualification Agency. The programme is a transdisciplinary Built Environment learning programme that aims to produce skilled and trained Urban and Regional Planning graduates. Subjects offered in this Programme cover theories and technical and practical aspects related to physical, social, economic and environmental planning. Urban and Regional Planning undergraduate programme at USM prepares the future talents and skills to meet the industry requirements, especially in ethical practice, planning laws and regulations, technical department requirements, feasibility and market study, and development plans at federal, state and local levels. Interpersonal communication and computing skills are essential to craft visual representations of the vision of future cities and to deliver impactful presentations.

2.1 Courses

Students of Urban and Regional Planning at HBP are required to complete **143** units of courses to meet the graduation requirements. The courses are as follows:

- **Core Courses** - These courses are mandatory for all Urban and Regional Planning students, and they must obtain a pass. They contain the fundamental topics of the School's curriculum and are coded 'T'.
- **Elective Courses** - These are alternative or optional courses offered by the Programme or School. Students may choose recommended priority courses or those of their own choice. The code to be used is 'E'.
- **University Course** - Languages and co-curriculum courses are offered by other Schools at USM. The code to be used is 'U'.

2.2 Unit Requirements for Graduation

Bachelor of Urban and Regional Planning (Honours)	
Courses	Units
Core Courses	86
Elective Courses	36
University Courses	21
Total	143

2.3 Course Duration

Bachelor of Urban and Regional Planning (Honours)	
Duration	
Minimum semesters	8 sem (4 years)
Maximum semesters	14 sem (7 years)

2.4 Studio Courses

Studio courses are **mandatory** for all Urban and Regional Planning students and to pass with an achievement of Grade C and above. Students obtaining Grade C- and below will be required to repeat the studio course.

URBAN AND REGIONAL PLANNING (49 Units)

Code	Title
RPS104/7	Integrated Studio (Planning)
RPS106/7	Design Studio (Planning)
RPS205/7	Planning Studio 1
RPS206/7	Planning Studio 2
RPS303/7	Planning Studio 3
RPS304/7	Planning Studio 4
RPS409/7	Planning Studio 5

2.5 Course Lists - Bachelor of Urban and Regional Planning (Honours)

Core Courses (86 Units)

Code and Title	Unit	Semester	Year	TICK ✓
RPS 104 - Integrated Studio (Planning)	7	1	1	
RPS 106 - Design Studio (Planning)	7	2	1	
RPK 131 - Principles of Planning	3	1	1	
RPK 133 - Methods of Planning Analysis	3	2	1	
RPS 205 - Planning Studio 1	7	1	2	
RPS 206 - Planning Studio 2	7	2	2	
RPG 235 - GIS and CAD for Planning	3	2	2	
RPS 303 - Planning Studio 3	7	1	3	
RPS 304 - Planning Studio 4	7	2	3	
RPK 331 - Theory and Philosophy of Planning	3	1	3	
RPK 333 - Methodology and Techniques of Research	3	2	3	
RPK 359 - Planning Law	3	2	3	
RPS 409 - Planning Studio 5	7	2	4	
RPK 439 - Professional Practice in Urban Planning	3	2	4	
RPK 472 - Urban and Regional Planning Research Project	4	2	4	
RUL 474 - Compulsory Industrial Training	12	1	4	

Elective Courses (36 Units)

Code and Title	Unit	Semester	Year	TICK ✓
RAG 121 - Environmental Science 1	3	1	1	
RPK 123 - Planning and Environmental Conversation	3	2	1	
RAG 132 - Introduction to Built Environment and Human Settlement	3	1	1	
RPK 221 - Landscape Planning	3	1	2	
RPK 223 - Tourism Planning and Development	3	2	2	
REG 233 - Geomatics Technology*	3	1	2	
RPK 232 - Urban Design	3	2	2	

RPK 238	-	Sustainable Development Planning	3	1	2	
RPK 334	-	Traffic and Transportation Planning	3	1	3	
RMK 336	-	Valuation	3	2	3	
RPK 343	-	Social Aspects in Planning	3	2	3	
RAK 345	-	Housing Studies	3	2	3	
RPK 351	-	Urban and Regional Economics	3	1	3	
RMK 357	-	Land Administration*	3	2	3	
RPK 435	-	Regional and Rural Planning*	3	2	4	

*Compulsory electives

2.6 University Requirements

Urban & Regional Planning students are required to take 21 units of the following University/Option courses. In order to graduate, the minimum passing grade required is Grade C.

UNIVERSITY COURSE REQUIREMENTS			CREDIT TOTAL	
			Local Students	International Students
General Studies (MPU)				
U1	<u>Local Students</u> <ul style="list-style-type: none"> HFF225 (Philosophy and Current Issues) (2 credits) HFE224 (Appreciation of Ethics and Civilisations) (2 credits) LKM400 (Bahasa Malaysia IV) (2 credits) <u>International Students of Science and Technology</u> <ul style="list-style-type: none"> HFF225 (Philosophy and Current Issues) (2 credits) LKM100 (Bahasa Malaysia I) (2 credits) 		6	4
U2 (Local Students) AND U3 (International Students)	<u>Local Students</u> <ul style="list-style-type: none"> WUS101 (Core Entrepreneurship) (2 credits) English Language Courses (4 credits) <u>International Students</u> <ul style="list-style-type: none"> SEA205E (Malaysian Studies) (4 credits) English Language Courses (4 credits) 		6	8
U4	<u>Local Students</u> WAR122 (Integrity and Anti-Corruption Course) / Co-Curricular Courses*	<u>International Students</u> Co-Curricular Courses*	2	2
Options	Students can/have to choose any of the following: <ul style="list-style-type: none"> Co-curricular courses Skill courses/Foreign Language Courses/ Other courses offered by other schools 		7	7
CREDIT TOTAL			21	21

2.7 Course Synopsis

Bachelor of Urban and Regional Planning (Honours)

RPS 104 – Integrated Studio (Planning)

Studio projects expose critical thinking and practice urban planning best practices, while train the skills in manual sketching, 2D 3D technical drawing and graphic communication. Students conduct site analysis, produce concept plan and translate design elements into a housing layout plan that includes sustainability characteristic and guided by related guidelines.

RPS 106 – Design Studio (Planning)

The studio project focus on processes and principles of site planning for mixed development layout proposal. Using appropriate methods in site analysis, techniques and procedures involved in development plans as well as applying the planning standards in development proposal.

RPK 123 – Planning and Environment Conversation

This course examines aspects of environmental planning, management and conservation principles, planning process, and urban-rural land use concepts. Relationships between environmental quality and land use planning (urban and rural) will be studied. Analytical approach and control in planning, management and conservation taking into account social and physical factors will be given a special emphasis

RPK 131 – Principles of Planning

This course is related to the basic principles of planning practice including the process of preparing layout plans, technical plans and development plans according to the procedures and requirements for planning permission applications; related to new urban planning, rural planning and urban redevelopment.

RPK 133 – Methods of Planning Analysis

This course aims to enhance students' understanding of the quantitative and qualitative techniques and models employed in population, employment, income, land use, housing, commercial, recreation, transportation and traffic circulation. Students will analyse the dynamic relationships exist between attributes of overlapping concentrations in cities and regions to prepare feasible spatial plans for the community.

RPS 205 – Planning Studio 1

This course prepares students with the knowledge on urban planning for the preparation of development proposal in the city area. It exposes students to the application of planning guidelines, technical requirements, practices of site evaluation, components of urban design and project costing for micro scale project. The course also focuses on research and spatial analytical skills whereby student's ability and skills to partake exercises such as gathering, mapping, analysing and synthesising of data will be enhanced and monitored. These processes are vital in determining the feasibility of the development proposals. Students will be assessed based on their ability to perform individually as well as in group.

RPS 206 – Planning Studio 2

This course exposes students to the process of preparing development plans at regional level. It provides students with understanding on different components of regional development in terms of the linkages of various planning sectors. Examinations on the contents of National Physical Plan, State Structure Plan and Local Plan as well as consultation with stakeholders will be carried out to identify problems related to the feasibility of the policies and strategies. Students will apply planning analysis techniques to examine the problems at stake and provide solutions. The preparation of reports and plans sets the regional framework for the growth and development of the study area.

RPK 221 – Landscape Planning

This course emphasizes assessment techniques, planning, design, and the use of planting materials. It covers the relationship of human and its environment, and problems associated with it; the approach and techniques in planning and assessing the landscape; and landscape design, theories and design principles within environment and social changes perimeters and framework.

RPK 223 – Tourism Planning and Development

This course introduces basic understanding of tourism planning and development which covers the concepts, theories and models in tourism. An analysis of current issues and trends in sustainable tourism as well as impacts of tourism on economy, environment and socio-culture will also be covered.

RPK 232 – Urban Design

This course will concentrate on urban design from the perspective of town planning, architecture, history and heritage, economic as well as the policy that controls it. It covers the basic concepts in urban design and the transformation process from the proto and colonial period up to the 21st century. Urbanization method and practices implemented by the public and private sectors will be discussed.

RPG 235 – Geographic Information System & Computer Aided Design for Planning

This course utilizes Geographic Information System (GIS), Computer Aided Design (CAD) and SketchUp software to produce maps, layout plans and 3D modeling. Hands-on learning approach is applied.

RPK 238 – Sustainable Development Planning

This course adopts a multidisciplinary approach to propagate innovative "out-of-the-box" development plans and spatial planning decisions towards delivery of sustainable development and planning in contemporary and future human settlements.

RPS 303 – Planning Studio 3

This studio aims to enhance critical thinking skills in examine the issues and problems at local level, adopting reliable methods and techniques in assessing the changes trends in identified sectoral, presenting the data and designing practical and feasible action plans and written statements.

RPS 304 – Planning Studio 4

This course focuses on real projects to enable students to conceptualize planning issues through emphasis on the evaluation of District Local Plans or Special Area Plans for the selected study area. Students need to formulate realistic and viable solution proposals and strategies that are in line with the principles of sustainable development.

RPK 331 – Theory and Philosophy of Planning

The course exposes the basis of planning philosophies and theories utilized within the planning fields throughout the world. Learning and understanding are based on experiences of the developed nations that could be applied to the Malaysian planning scenario. Emphasis is also given on the roles of planners in relation to the current theories and philosophies of planning.

RPK 333 – Methodology and Techniques of Research

This course introduces the students to research methods and techniques used as the basis of studio works and the preparation of academic theses. Along with the emphasis given to the concept and philosophy of research, this course will also expose the various methods and techniques of research relevant to built environment including research process and design, data and information gathering techniques.

RPK 334 – Traffic and Transportation Planning

This course describes urban traffic issues and problems and outlines the methods and techniques for systematic traffic planning to achieve effective traffic management, land use planning, public transport planning, pedestrian and parking facilities, etc.

RPK 343 – Social Aspects in Planning

This course focuses on various social issues related to social change and social planning, social and physical development, social aspects of urban structure, measurement of social cost and benefit, and contribution of social indicators. Students are required to choose issues within the Malaysia context, for their seminar paper presentation purposes.

RPK 351 – Urban and Regional Economics

This course focuses on concepts and theories of urban and regional economy and their application to urban and regional spatial structure. Students will be introduced to methods in economic analysis of urban and regional growth, and evaluation of economic impacts of urban and regional development. Further explanation will focus on the development of strategies and policies for urban and regional development.

RMK 357 – Land Administration

This course aims to introduce the students to the current practices of land administration in Malaysia and to give an understanding about various issues that are related with land administration especially on its implication to property market and development process.

RPK 359 – Planning Law

The focus of this course is the provision in the Town and Country Planning Act 1976 which gives authority to carry out efforts to form plans, control development and administer the planning machinery that supports Town planning activities. Other laws, especially the Federal Constitution, the National Land Code 1965, environmental laws and administrative laws will be discussed in terms of how they affect City planning.

RPS 409 – Planning Studio 5

This studio emphasizes the use of planning concept, methodology and process to produce development plans for an area, as well as other formats of planning documents such as Social Impact Assessment, Transportation Impact Assessment, Heritage Impact Assessment etc. Methods of Impact assessment, implementation programs, mitigation plan, and proposed actions are based on comprehensive analysis of physical, social, economic, and environmental issues and problems.

RPK 435 – Regional and Rural Planning

The course explores the concepts of regional and rural planning while addressing the issues of regional inequality, rural economic development and rural sustainability. Application of regional and rural development concepts in policies and strategies that are balanced in terms of economy, rural and environmental sustainability.

RPK 439 – Professional Practice in Urban Planning

The course includes professional work ethics, service and responsibilities, legal aspects, office management, consultancy, project management and investment. Teaching approaches are towards a wider scope of discipline as practiced by a professional Urban Planner. These involved several aspects of development sectors such as property development, socio-economy, industries, tourism, agriculture, engineering, architecture and recreation.

RPK 472 – Urban and Regional Planning Research Project

This course is a starting point for students to get involved in specific research areas. The research will enhance students' understanding of process and reliable and suitable research techniques. Students are required to present research processes according to phases and producing ethical thesis writing and systematic format.

RUL 474 – Compulsory Industrial Training

This course emphasises on compulsory practical training to students on matters related to the practicing professionals in the field of urban and regional planning. This course aims to prepare students for the real-world challenges in urban and regional planning field. It is conducted in Semester 1 of the 4th Year of study for a duration of 24 weeks (6 months) and in accordance with the requirement of the professional bodies.

COURSE STRUCTURE

UNDERGRADUATE PROGRAMME URBAN AND REGIONAL PLANNING

YEAR 1					
SEMESTER 1			SEMESTER 2		
RPS 104/7	Integrated Studio (Planning)	T 7	RPS 106/7	Design Studio (Planning)	T 7
RPK 131/3	Principles of Planning	T 3	RPK 123/3	Planning and Environmental Conservation	E 3
RAG 121/3	Environmental Science 1	E 3	RPK 133/3	Methods of Planning Analysis	T 3
RAG 132/3	Introduction to Built Environment and Human Settlement	E 3	WUS 101/2	Core Entrepreneur (University Course)	U 2
HFF 225/2	Philosophy and Current Issues	U 2	HFE 224/2	Appreciation of Ethics and Civilisations	U 2
	University Course	U 3			
UNITS		21	UNITS		17

YEAR 2					
SEMESTER 3			SEMESTER 4		
RPS 205/7	Planning Studio 1	T 7	RPS 206/7	Planning Studio 2	T 7
RPK 221/3	Landscape Planning	E 3	RPG 235/3	GIS and CAD for Planning	T 3
REG 233/3	Geomatics Technology	E 3	RPK 223/3	Tourism Planning and Development	E 3
RPK 238/3	Sustainable Development Planning	E 3	RPK 232/3	Urban Design	E 3
	University Course	U 2		University Course	U 2
	University Course	U 2			
UNITS		20	UNITS		18

YEAR 3					
SEMESTER 5			SEMESTER 6		
RPS 303/7	Planning Studio 3	T 7	RPS 304/7	Planning Studio 4	T 7
RPK 331/3	Theory and Philosophy of Planning	T 3	RPK 333/3	Methodology & Techniques of Research	T 3
RPK 334/3	Traffic and Transportation Planning	E 3	RPK 359/3	Planning Law	T 3
RPK 351/3	Urban and Regional Economics	E 3	RPK 343/3 or	Social Aspects in Planning, or	E 3
	University Course	U 3	RAK 345/3 or	Housing Studies, or	
			RMK 336/3 or	Valuation, or	
			RMK 357/3	Land Administration	U 3
				University Course	
UNITS		19	UNITS		19

YEAR 4					
SEMESTER 7			SEMESTER 8		
RUL 474/12	Compulsory Industrial Training (24 weeks / 6 months)	T 12	RPS 409/7	Planning Studio 5	T 7
			RPK 435/3	Regional and Rural Planning	E 3
			RPK 439/3	Professional Practice in Urban Planning	T 3
			RPK 472/4	Urban and Regional Planning Research Project	T 4
UNITS		12	UNITS		17
			Core Courses (16 courses)		T 86
			Elective Courses (12 out of 15 courses) *		E 36
			University Courses		U 21
			TOTAL UNITS		143