

Faculty of Agriculture and Plantation Management Wayamba University of Sri Lanka

Bachelor of Science in Plantation Management External degree

An Introduction to the B.Sc. (Plantation Management) External Degree Programme

B.Sc. (Plantation Management) degree programme is offered by the Faculty of Agriculture and Plantation Management of Wayamba University of Sri Lanka. This degree programme is a new dimension of managerial and technological development specially designed for senior and middle level managers, executives, technical officers in the plantation and related sectors towards corporate level development. From the global point of view, it is evident that the success of business and industry has a greater bearing upon scientific and conceptual professionalism mainly to face future challenges to be competitive and sustainable. In the past, the higher education institutes in Sri Lanka have not developed programmes to attract the management or executive level personnel in the plantation sector to provide them with opportunities in upgrading their educational background to degree level. This is the first time in Sri Lankan history that a local university has come forward to develop a degree program in Plantation Management targeting the senior and middle level managers, executives, technical officers in the plantation sector. Hence the objectives of this programme are as follows:

- a. To provide a high degree of scientific background in advanced plantation crop production technology and aspects of management (conceptual and theoretical).
- b. To help plantation managers and executives to identify global changes with regard to technology, external environment, tendencies of markets for plantation crops, consumer behaviour and social trends.
- c. To improve the skills in diagnosing production, technological, market, labour and management problems on micro and macro basis.

The study programme is basically targeted for the officers from the Plantation Management Companies, Tea Small Holder Development Authority, Rubber Development Department, Tea Board, Coconut Cultivation Board, Crop Research Institutes (TRI, RRI, CRI, SRI), Department of Export Agriculture, Department of Agriculture, Department of Agrarian Services, Department of Animal Production and Health, National Livestock Development Board, Janatha Estate Development Board (JEDB), Sri Lanka State Plantation Cooperation (SLSPC), Mahaweli Authority, Banks and other relevant institutions in the country. According to the recruitment criteria all recruits to the degree programme should have substantial level of working experience in their field of specialization and should be employed.

The three year B.Sc. (Plantation Management) degree program was first introduced in 2006 and study program had 120 credits. In 2013 curriculum of the B.Sc. (Plantation Management) study program was revised first time under HETC/UDG/EDP grant. During the curriculum revision new course modules were introduced and the credits were reduced from 120 to 93.

Wayamba University of Sri Lanka

The Wayamba University of Sri Lanka (WUSL) is one of the 15 National Universities coming directly under the University Grants Commission (UGC) of Sri Lanka and the WUSL was established in 1999 at Kuliyaipitiya in the North Western Province (NWP) of Sri Lanka, under the provisions stipulated in the University's Act. No 16 of 1978. The WUSL was set up in three locations (Makandura, Kuliyaipitiya and Labuyaya) with six faculties.

The WUSL is a result of the elevation of two (2) Affiliated University Colleges (AUCs) initially to the status of a campus and later to the status of a full-fledged National University. In 1991, the UGC established a number of AUCs in the country with the aim of conducting two year Diploma level vocational programs for the students who had completed their Advanced Level Examination and who were unable to get admission to the local National Universities. In 1991, including the Open University of Sri Lanka there were 08 National Universities in Sri Lanka. The AUC of North Western Province (NWP) was established along with a number of other AUCs and the Diploma programs it was supposed to conduct at the AUC (NWP) were Diploma in Home Science and Nutrition, and Diploma in Agricultural Sciences. The Agricultural Sciences program was located at Makandura and the Home Science and Nutrition program was located at Kuliyaipitiya and these two Diploma Programs were affiliated respectively to Peradeniya and Kelaniya Universities.

In 1996 a number of new universities were established by elevating the existed AUCs in the country and in this context the AUC (NWP) was initially, elevated to the status of a campus of the Rajarata University of Sri Lanka and it was named as Wayamba campus of the Rajarata University of Sri Lanka. In 1999 the Wayamba Campus of Rajarata University of Sri Lanka was elevated to the status of a full-fledged National University and it was named as Wayamba University of Sri Lanka (WUSL).

The Faculty of Agriculture and Plantation Management and the Faculty of Livestock, Fisheries & Nutrition were established at Makandura which is situated in between Colombo and Kuliyaipitiya. The main University is located at Kuliyaipitiya, and the Faculty of Applied Sciences, the Faculty of Business Studies and Finance and Faculty of Technology are established in Kuliyaipitiya premises. Faculty of Medicine is established in Labuyaya Premises. In addition to the six Faculties there are seven (7) units and centres namely: Information Communication Technology Centre (ICTC), Health Centre, the Physical Education Unit, Staff Development Centre (SDC), Career Guidance Unit (CGU) and the External Affairs Unit. The ICTC, CGU and the Health Centre maintain separate Units in both Makandura and Kuliyaipitiya Premises. The total student population is around 4,429 in all six faculties with a number of 209 academic staff members and 470 administrative, academic support and non-academic staff members. The WUSL offers, nineteen (19) undergraduate degree

programs leading to General degree (duration 03 years) and Special degree (duration 04 / 05 years) along with Postgraduate degrees leading to Masters and PhDs.

When considering the development of the WUSL it has a paramount role to play in the coming years and the goals, objectives and activities, and the officers responsible for are appropriately identified.

Vision and Mission of the University

Vision

“To be a leading higher education institute in Sri Lanka recognized for its outstanding academic programmes, innovative research, scholarship and outreach with the ultimate target of serving the mankind”

Mission

“To develop highly qualified and responsible citizens who contribute to the improvement of society and sustainable development of the country”

University continuously designs and develops programs for undergraduates and produce quality and relevant graduates. Further, it also designs and develops an advanced, comprehensive academic and professional training for all the levels of managers with a view to enabling them to be effective and efficient in their respective organizations, meeting the national development goals of the country.

University formulates empirical vs conceptual researches in different disciplines in searching for knowledge through systematized efforts to gain new knowledge, helping policy makers at all the levels; institutional, national & international.

Having these values, *i.e.* designing and developing quality undergraduate programs, and producing quality graduates in respective disciplines, providing academic and professional training in order to be more efficient and effective, and searching for new knowledge through research, it's goals, objectives along with activities have been formulated.

There is a well-qualified academic staff in most of the Departments and their contribution during the past decade towards the development of the body of knowledge is commendable and a substantial recognition has been earned by the lecturers and the graduates from the industry and the society through dissemination of knowledge, research, community services and other outreach activities.

With the great commitment of the students, lecturers and the other academic, administrative and support staff, the services are delivered, targets are met, and the organizational development is ensured reasonable levels of resources both human and physical, are needed in order to achieve an acceptable growth and development in all the aspects of the University.

Name of Degree

Name of Degree	English	Bachelor of Science in Plantation Management External Degree
	Sinhala	විද්‍යාවේදී වැවිලි කළමනාකරණ බාහිර උපාධිය
	Tamil	பெருந்தோட்ட நிர்வாகத்தில் விஞ்ஞானமாணி வெளிவாரிப் பட்டம்
Abbreviated qualification	English	B.Sc. (PM)

Graduate Profile

Graduate in ‘Bachelor of Plantation Management’ of the Wayamba University of Sri Lanka enriches with:

- a multi-disciplinary ‘Knowledge’ on the fundamental theories and applications, both well-established and emerging, as well as the tools and techniques that are in use and relevant to those principally concerned areas in agriculture, in broad, and plantation management, in particular;
- ‘Technical and Life Skills’ so that he/she can apply such in those areas of interest with ‘Right Attitudes’ and an ‘Entrepreneurial Mindset’ to uplift the systems combining plantation management, and
- Work in harmony with the people in society, by better utilizing the physical, human and financial resources in hand, to support achieving the long-term development goals of the country.

Program Outcomes

At the end of this program that provides students with an experiential-based learning opportunity in an academic environment supported by student-centered teaching, assessment and module-based learning methodologies and technologies that translate the contents provided in different coursework to reality, the Graduate from which with a breadth of multidisciplinary knowledge and exposure to the disciplines of agriculture, in general, and plantation management, in particular, would be able to:

- Utilize his/her analytical skills by independently assessing, interpreting and summarizing information/literature and other sources of facts and figures to come up with economical, sustainable and policy-based solutions.

Bachelor of Science of Plantation Management External Degree - Course curriculum

- Apply those, together with technological know-how, in a holistic manner with innovative management and entrepreneurial perspective to manage resources and systems to fulfill the emerging needs of plantation industry.
- Use enquiry, construct arguments, investigate/research, critically analyze data, make judgments/decisions and propose solutions to emerging problems in agriculture, plantation management and allied sectors.
- Assess critically and comprehend scientific questions, stakeholder concerns and societal problems that formulate major issues to be addressed through innovative approaches/strategies/applied and/or basic research.
- Recognize the sector of plantation management as a service benefiting the mankind and the environment, and identify the issues, trends and perspectives related to this sector and their impact on national development;
- Communicate scientific and other information, efficiently and effectively, at different levels in written, graphic and/or verbal modes.
- Function as an effective leader, manager, or team player who is capable of exercising resourcefulness; demonstrate team spirit collaboratively, and working independently.
- Behave harmoniously with an appreciation of human and cultural diversity giving due respect for the values of the others, demonstrating professional integrity, ethical behavior and accountability and appreciate the diversity, global cultures, traditions and perspectives.
- Engage in life-long learning and undertake further training to further knowledge and skills.

Schedule of Courses

The Bachelor of Science in Plantation Management External Degree [BSc. (PM)] program has three academic years. The each academic year consists of 02 Semesters of 15 weeks each and academic program is based on 'Course Credit System. During three academic years 43 GPA and 2 non-GPA courses are offered.

In order to qualify for the award of degree the prospective student is required to earn a total of 93 Credits, which contributes to the final grade (GPA course units) and successful completion of all the courses which are not contributed to final grade (i.e. 02 Non-GPA course units). For Non-GPA courses pass marks (≥ 40) should be obtained.

The breakdown of course based on the Semester is summarized below. An alpha numeric code is used to identity a course unit. The code consists of three digits prefixed, namely XPM, to denote 'External Degree Plantation Management'. The first digit denotes the 'Year' at which the course unit is offered and the second digit denotes the 'Semester' in which the course unit is offered. The third digit denotes the 'Serial Number' assigned for the course unit.

Bachelor of Science of Plantation Management External Degree - Course curriculum

Subject Code	Subject Name	GPA Credit	NGPA Credit	Contact Hours T:P
Year 1 Semester I				
XPM 1101	Botany of Crops	02		30:00
XPM 1102	Basic Mathematics	02		30:00
XPM 1103	Principles of Crop Physiology	02		25:10
XPM 1104	Principles of Ecology	02		25:10
XPM 1105	Principles of Agricultural Chemistry	02		25:10
XPM 1106	Principles of Soil Science	02		25:10
XPM 1107	Fundamentals of Management	02		30:00
Year 1 Semester I Total		14		190:40
Year 1 Semester II				
XPM 1208	Principles of Plant Nutrition and Fertilizer Use	02		30:00
XPM 1209	Principles of Pest and Weed Management	02		25:10
XPM 1210	Plant Pathology and Quarantine	02		20:20
XPM 1211	Principles of Economics	02		30:00
XPM 1212	Tea Agronomy	03		35:20
XPM 1213	Principles of Marketing	02		30:00
XPM 1214	Tea Manufacturing, Processing & Value Addition	02		25:10
XPM 1215	Climate Change Impact Mitigation and Adaptation		02	30:00
Year 1 Semester II Total		15	02	225: 60
Year 2 Semester I				
XPM 2116	Information and Communication Technology	02		15:30
XPM 2117	Applied Statistics	02		30:00
XPM 2118	Rubber Agronomy	03		35:20
XPM 2119	Rubber Manufacturing, Processing & Value Addition	02		25:10
XPM 2120	Irrigation and Watershed Management	03		35:20
XPM 2121	Soil & Water Degradation, Conservation and Renovation	02		30:00
XPM 2122	Cropping Patterns and Crop Diversification Systems	02		30:00
Year 2 Semester I Total		16		200:80
Year 2 Semester II				
XPM 2223	Agribusiness and Entrepreneurship	02		30:00
XPM 2224	Coconut Agronomy	03		35:20
XPM 2225	Coconut Manufacturing, Processing & Value Addition	02		25:10
XPM 2226	Oil Palm Agronomy and Processing	02		25:10
XPM 2227	Agricultural Development and Policy	02		30:00
XPM 2228	Farm Power and Machinery Management	03		35:20
XPM 2229	Plantation Forestry	02		30:00
XPM 2230	Organic Farming		02	25:05
Year 2 Semester II Total		16	02	235:65

Bachelor of Science of Plantation Management External Degree - Course curriculum

Year 3 Semester I				
XPM 3131	Energy and Waste Management	02		30:00
XPM 3132	Quantitative Techniques in Plantation Management	01		15:00
XPM 3133	Agronomy and Processing of Minor and Potential Plantation Crops	02		25:10
XPM 3134	Export Agricultural Crops Agronomy and Processing	02		25:10
XPM 3135	Poultry and Dairy Management	03		35:20
XPM 3136	Agricultural Project Analysis and Management	02		30:00
XPM 3137	Agricultural Marketing and Prices	02		30:00
XPM 3138	Application of Biotechnology in Plantations	02		25:10
<i>Year 3 Semester I Total</i>		16		215:50
Year 3 Semester II				
XPM 3239	International Trade and Business	01		15:00
XPM 3240	Financial and Management Accounting	03		45:00
XPM 3241	Human Resource Planning and Management	02		30:00
XPM 3242	Agriculture Extension and Communication	02		25:10
XPM 3243	Quality Standards and Certification	02		30:00
XPM 3244	Management Information Systems and e-Commerce	02		15:30
XPM 3245	Special Project	04		05:110
<i>Year 3 Semester II Total</i>		16		165:150
<i>Total Credits (Year 1,2 & 3)</i>		93		