Bachelor in Robotics and Telecommunications Engineering
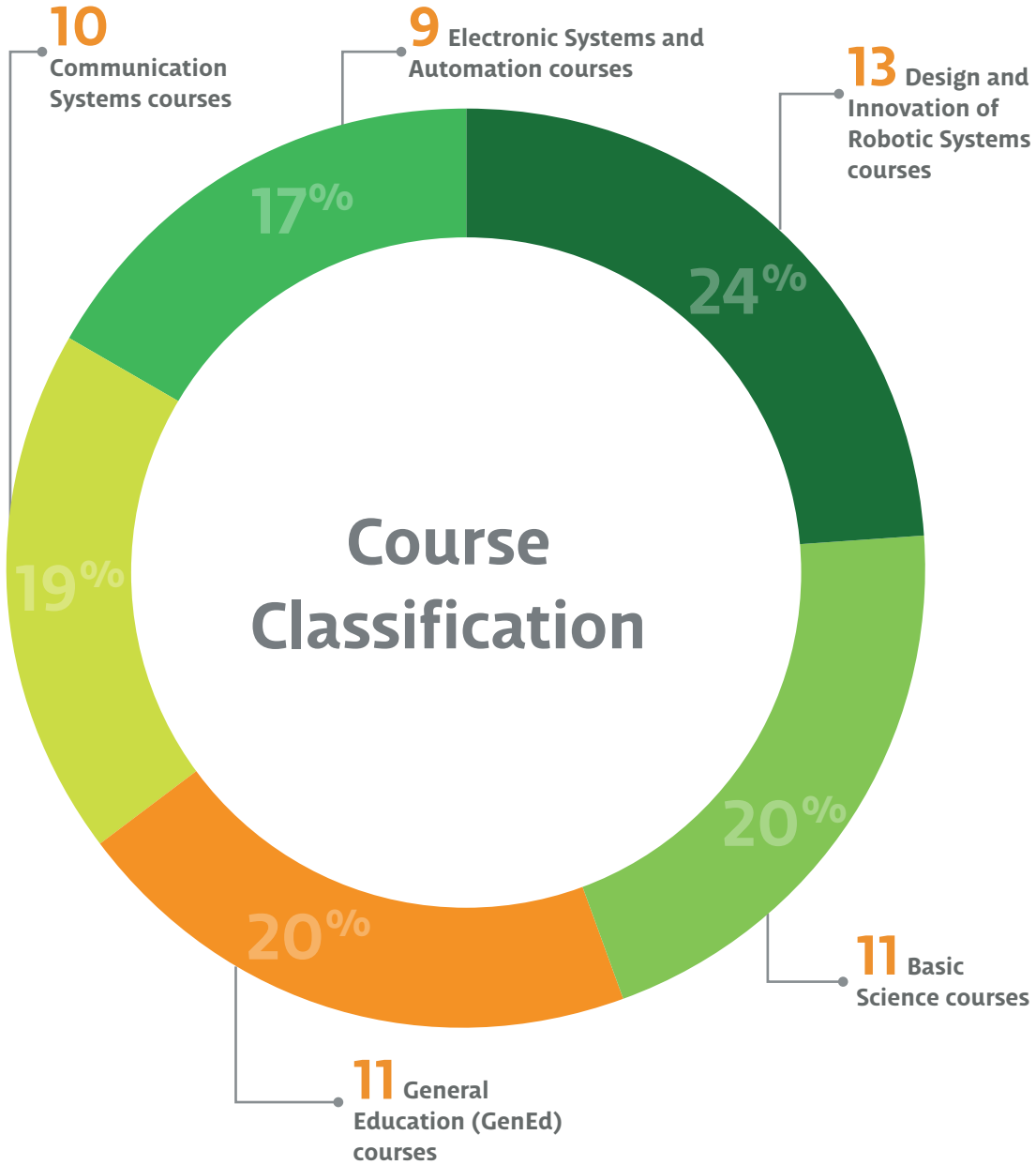
Universidad de las Américas Puebla
8 terms - 54 courses - 300 credits (units)

UDLAP®

First	Second	Third	Fourth	Fifth	Sixth	Seventh	Eighth
LIS1012 ALGORITHMS AND PROGRAMMING [6]	**MAT1032** LINEAR ALGEBRA [6] ‹ MAT1012	**FIS2012** GENERAL PHYSICS II [6] ‹ FIS1012	**MAT2082** PROBABILITY AND STATISTICS [6] ‹ MAT1022	**LRT3012** PROFESSIONAL PRACTICES 1 [6]	**LRT3042** ROBOT KINETICS AND DYNAMICS [6] ‹ LIM2022	**LRT4012** VISION IN ROBOTICS [6] ‹ LRT3042	**LRT4072** ROBOTICS AND AUTOMATION [6] ‹ LRT3042
MAT1012 UNIVERSITY MATH [6]	**FIS1012** GENERAL PHYSICS I [6]	**FIS2022** GENERAL PHYSICS LAB II [3] ‹ FIS1022	**MAT2052** ORDINARY DIFFERENTIAL EQUATIONS [6] ‹ MAT1022	**LRT3022** FUNDAMENTALS OF COMMUNICATIONS [6] ‹ MAT2082	**LRT3052** MACHINES AND MECHANISMS [6] ‹ FIS2012	**LRT4022** PROFESSIONAL PRACTICES 2 [6]	**LRT4082** APPLIED ROBOTICS LAB [3] ‹ LRT3042
	FIS1022 GENERAL PHYSICS LAB I [3]	**LRT2012** ELECTRONIC CIRCUITS [6] ‹ MAT1022	**LIS1022** OBJECT ORIENTED PROGRAMMING [6] ‹ LIS1012	**LRT3032** EMBEDDED SYSTEMS [6]	**LRT3062** SELECT TOPICS 1 [6]	**LRT4032** SELECT TOPICS 2 [6]	**LRT4092** SELECT TOPICS 3 [6]
MAT1022 CALCULUS I [6] ‹ MAT1012	**MAT2012** CALCULUS II [6] ‹ MAT1022	**LRT2042** INTEGRATED ELECTRONICS [6] ‹ LRT2012, LRT2022	**LMT3022** SIGNALS AND INSTRUMENTATION [6] ‹ MAT2052	**LRT3072** DIGITAL COMMUNICATION [6] ‹ LRT3072	**LRT4042** COMPUTER NETWORKS [6] ‹ LRT3072	**LRT4102** DESIGN OF ROBOTIC SYSTEMS [6]
LIM1012 COMPUTERIZED DRAWING LAB [6]	**LRT2022** DIGITAL DESIGN [6] ‹ LIS1012	**MAT2032** CALCULUS III [6] ‹ MAT2012	**LMT3032** SIGNALS AND INSTRUMENTATION LAB [3] ‹ MAT2052	**LIS3072** TECHNOLOGICAL INNOVATION [6] ‹ MAT2052	**LRT4052** COMPUTER NETWORKS LAB [2] ‹ LRT3072	**LRT4112** WIRELESS AND MOBILE NETWORKS [6] ‹ LRT4042
	LRT2032 ELECTRONIC CIRCUITS LAB [2] ‹ MAT1022	**LRT2052** INTEGRATED ELECTRONICS LAB [2] ‹ LRT2012, LRT2022		**LRT3082** CONTROL SYSTEMS [6]	**LRT4062** POWER ELECTRONICS [6]	**LRT4122** COMMUNICATIONS VIA FIBER OPTICS [6] ‹ LRT3072
GENERAL STUDIES ELECTIVE IN NATURAL SCIENCES [6]		**LIM2022** EQUILIBRIUM OF RIGID BODIES [6] ‹ FIS1012	*Course credits (units)*				
GENERAL STUDIES ELECTIVE IN MATH [6]			*Prerequisites*				
INFO012 INFORMATION TECHNOLOGIES IN THE CONSTRUCTION OF KNOWLEDGE [6]	**ESP0012** ACADEMIC REASONING [6] ‹ INFO012	**ESP0022** ACADEMIC WRITING [6] ‹ ESP0012			**GENERAL STUDIES ELECTIVE IN ARTS** [6]		
LEX0112 FOREIGN LANGUAGE I [6]	**LEX0122** FOREIGN LANGUAGE II [6] ‹ LEX0112	**LEX0132** FOREIGN LANGUAGE III [6] ‹ LEX0122	**GENERAL STUDIES ELECTIVE IN HUMANITIES** [6]	**GENERAL STUDIES ELECTIVE IN BEHAVIORAL SCIENCES** [6]			

Bachelor in Robotics and Telecommunications Engineering

Course Classification

- **10** Communication Systems courses — **17%**
- **9** Electronic Systems and Automation courses
- **13** Design and Innovation of Robotic Systems courses — **24%**
- **11** Basic Science courses — **20%**
- **11** General Education (GenEd) courses — **20%**
- **19%**

Legend:
- Design and Innovation of Robotic Systems
- Basic Science
- Communication Systems
- Electronic Systems and Automation
- General Education (GenEd)