



Doc.: 500.1.1 Course Distribution Per Semester

Product Design Engineering (4 academic years, 240 ECTS, Bachelor, Joint Inter-university Programme with the University of Western Macedonia)

A/A	Course Type	Course Name	Course Code	Periods Per Week	Period Duration in minutes	Number Of Weeks/Academic Semester	Total Hours / Academic Semester	Number of ECTS
Year 1 / A' Semester								
(a)	Compulsory	History of Design	PDE111	1	180	13	39	6
(b)	Compulsory	Technical Drawing	ARCH SV101	1	180	13	39	6
(c)	Compulsory	Computer Science	CS111	1	180	13	39	6
(d)	Compulsory	The Fundamentals of Architectural Design- Elements and Forms	ARCH AS101	1	180	13	39	6
(e)	Compulsory	Mathematics I	MATH120	1	180	13	39	6



Year 1 / B' Semester								
(f)	Compulsory	Freehand Drawing & Colour	ARCH SV102	1	180	13	39	6
(g)	Compulsory	Mathematics II	PDE121	1	180	13	39	6
(h)	Compulsory	Programming for engineers	CS112	1	180	13	39	6
(i)	Compulsory	Introduction to Materials Science	PDE122	1	180	13	39	6
(j)	Compulsory	Ergonomics and Human Factors	PDE123	1	180	13	39	6
Year 2 / C' Semester								
(l)	Compulsory	Principles of Marketing	BUSN104	1	180	13	39	6
(m)	Compulsory	Project Management	BUSN405	1	180	13	39	6
(n)	Compulsory	Engineering Mechanics	PDE231	1	180	13	39	6
(o)	Compulsory	Probability - Statistics	PDE232	1	180	13	39	6
(p)	Compulsory	Digital design	ARCHSV207	1	180	13	39	6



A/A	Course Type	Course Name	Course Code	Periods Per Week	Period Duration in minutes	Number Of Weeks/Academic Semester	Total Hours / Academic Semester	Number of ECTS
Year 2 / D' Semester								
(q)	Compulsory	Design of Machine Elements	PDE241	1	180	13	39	6
(r)	Compulsory	Materials Technology	PDE242	1	180	13	39	6
(s)	Compulsory	Introduction to Computer Aided Design (CAGD)	PDE243	1	180	13	39	6
(t)	Compulsory	Human-Computer Interaction	CSE11	1	180	13	39	6
(u)	Compulsory	Exhibition and Interior Design	PDE243	1	180	13	39	6
Year 3 / E' Semester								
(v)	Compulsory	CAD (Solid modelling)	PDE0501	1	180	13	39	6
(w)	Compulsory	Design thinking	PDE0502	1	180	13	39	6



(x)	Compulsory	Research Methodology	PDE0503	1	180	13	39	6
(y)	Compulsory	Introduction to Manufacturing Processes	PDE0504	1	180	13	39	6
(z)	Compulsory	Materials and Design	PDE0505	1	180	13	39	6

A/A	Course Type	Course Name	Course Code	Periods Per Week	Period Duration in minutes	Number Of Weeks/Academic Semester	Total Hours / Academic Semester	Number of ECTS
Year 3 / F' Semester								
(aa)	Compulsory	Interaction Design	PDE0601	1	180	13	39	6
(bb)	Compulsory	Concept Design	PDE0602	1	180	13	39	6
(cc)	Compulsory	STEAM technologies	PDE0603	1	180	13	39	6
(dd)	Compulsory	Computer Aided Manufacturing (CAM)	PDE0604	1	180	13	39	6
(ee)	Compulsory	Advanced CAD (Surface modeling)	PDE0605	1	180	13	39	6
Year 4 / G' Semester								



(ff)	Compulsory	Computer Aided Engineering - CAE	PDE0701	1	180	13	39	6
(gg)	Compulsory	Computational Design and Biomimetics in product design	PDE0702	1	180	13	39	6
(ii)	Compulsory	Sustainable Design and Circular Economy	PDE0703	1	180	13	39	6
(jj)	Compulsory	Product Design I	PDE0704	1	180	13	39	6
(kk)	Compulsory	Prototyping for design engineers	PDE0705	1	180	13	39	6

A/A	Course Type	Course Name	Course Code	Periods Per Week	Period Duration in minutes	Number Of Weeks/Academic Semester	Total Hours / Academic Semester	Number of ECTS
Year 4 / H' Semester								
(ll)	Compulsory	Industrial Design Project	PDE0801	1	180	13	39	6
(mm)	Compulsory	Product Design II	PDE0802	1	180	13	39	6
(nn)	Compulsory	Reverse engineering and 3D printing	PDE0803	1	180	13	39	6
(ff)	Compulsory	Furniture and Wooden Product Design	PDE0804	1	180	13	39	6



	Compulsory	Branding and Commercialization	PDE0805	1	180	13	39	6
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Product Design Engineering (5 academic years, 300 ECTS, Integrated Master, Joint Inter-university Programme with the University of Western Macedonia)

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Year 1 / A' Semester								
(a)	Compulsory	History of Design	PDE111	1	180	13	39	6
(b)	Compulsory	Technical Drawing	ARCH SV101	1	180	13	39	6
(c)	Compulsory	Computer Science	CS111	1	180	13	39	6
(d)	Compulsory	The Fundamentals of Architectural Design- Elements and Forms	ARCH AS101	1	180	13	39	6
(e)	Compulsory	Mathematics I	MATH120	1	180	13	39	6



Year 1 / B' Semester								
(f)	Compulsory	Freehand Drawing & Colour	ARCH SV102	1	180	13	39	6
(g)	Compulsory	Mathematics II	PDE121	1	180	13	39	6
(h)	Compulsory	Programming for engineers	CS112	1	180	13	39	6
(i)	Compulsory	Introduction to Materials Science	PDE122	1	180	13	39	6
(j)	Compulsory	Ergonomics and Human Factors	PDE123	1	180	13	39	6
Year 2 / C' Semester								
(l)	Compulsory	Principles of Marketing	BUSN104	1	180	13	39	6
(m)	Compulsory	Project Management	BUSN405	1	180	13	39	6
(n)	Compulsory	Engineering Mechanics	PDE231	1	180	13	39	6
(o)	Compulsory	Probability - Statistics	PDE232	1	180	13	39	6
(p)	Compulsory	Digital Design	ARCHSV207	1	180	13	39	6



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(s)	Compulsory	Introduction to Computer Aided Design (CAGD)	PDE243	1	180	13	39	6
(t)	Compulsory	Human-Computer Interaction	CSE11	1	180	13	39	6
(u)	Compulsory	Exhibition and Interior Design	PDE243	1	180	13	39	6
Year 3 / E' Semester								
(v)	Compulsory	CAD (Solid modelling)	PDE0501	1	180	13	39	6
(w)	Compulsory	Design thinking	PDE0502	1	180	13	39	6
(x)	Compulsory	Research Methodology	PDE0503	1	180	13	39	6



(y)	Compulsory	Introduction to Manufacturing Processes	PDE0504	1	180	13	39	6
(z)	Compulsory	Materials and Design	PDE0505	1	180	13	39	6
A/A	Course Type	Course Name		Course Code	Periods Per Week	Period Duration in minutes	Number Of Weeks/Academic Semester	Total Hours / Academic Semester
Year 3 / F' Semester								
(aa)	Compulsory	Interaction Design	PDE0601	1	180	13	39	6
(bb)	Compulsory	Concept Design	PDE0602	1	180	13	39	6
(cc)	Compulsory	STEAM technologies	PDE0603	1	180	13	39	6
(dd)	Compulsory	Computer Aided Manufacturing (CAM)	PDE0604	1	180	13	39	6
(ee)	Compulsory	Advanced CAD (Surface modeling)	PDE0605	1	180	13	39	6
Year 4 / G' Semester								
(ff)	Compulsory	Computer Aided Engineering - CAE	PDE0701	1	180	13	39	6
(gg)	Compulsory	Computational Design and Biomimetics in product design	PDE0702	1	180	13	39	6



(ii)	Compulsory	Sustainable Design and Circular Economy	PDE0703	1	180	13	39	6
(jj)	Compulsory	Product Design I	PDE0704	1	180	13	39	6
(kk)	Compulsory	Prototyping for design engineers	PDE0705	1	180	13	39	6
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Year 4 / Η' Semester								
(ll)	Compulsory	Industrial Design Project	PDE0801	1	180	13	39	6
(mm)	Compulsory	Product Design II	PDE0802	1	180	13	39	6
(nn)	Compulsory	Reverse engineering and 3D printing	PDE0803	1	180	13	39	6
(ff)	Compulsory	Furniture and Wooden Product Design	PDE0804	1	180	13	39	6
	Compulsory	Branding and Commercialization	PDE0805	1	180	13	39	6
A/A	Course Type	Course Name	Course Code	Periods Per Week	Period Duration in minutes	Number Of Weeks/Academic Semester	Total Hours / Academic Semester	Number of ECTS



Year 5 / I' Semester								
(II)	Compulsory	Special Topics in Computer Aided Design	PDE0801	1	180	13	39	7.5
(mm)	Compulsory	Special Topics in Product Design	PDE0802	1	180	13	39	7.5
(nn)	Compulsory	Special Topics in Manufacturing	PDE0803	1	180	13	39	7.5
(ff)	Compulsory	Project in Product Design	PDE0804	1	180	13	39	7.5
A/A	Course Type	Course Name	Course Code	Periods Per Week	Period Duration in minutes	Number Of Weeks/Academic Semester	Total Hours / Academic Semester	Number of ECTS
Year 5 / J' Semester								
(II)	Compulsory	Diploma Thesis	PDE1001					30