



UNIVERSIDAD POLITÉCNICA DE MADRID

ACADEMIC CERTIFICATE OF PASSED SUBJECTS

STUDENT PARTICULARS:

Name and Surname: TOMAS CABEZON PEDROSO
Identification: National Identity Document: 79047381S

ACCESS

Access to the University: UNIVERSITY ENTRANCE EXAMINATION-LOE-UNIVERSITY ENTRANCE EXAMINATIONS FOR OFFICIAL UNDERGRADUATE DEGREES (LOE)

Made in: 2013-14-J

FINAL ADMISSION GRADE POINTS: 13.198

UNIVERSITY: UNIVERSIDAD DEL PAÍS VASCO

UNIVERSITY ENTRANCE EXAMINATION BOARD: UNIVERSIDAD DEL PAÍS VASCO

UNIVERSITY ENTRANCE EXAMINATION GRADE POINTS: 9.648

DEGREE PROGRAMME PARTICULARS:

School: School of Industrial Design and Engineering

Degree Programme: Undergraduate 3-5 years (ECTS)

Curriculum: (56DD) - BACHELOR OF SCIENCE IN INDUSTRIAL DESIGN AND PRODUCT DEVELOPMENT

Date of publication: November 02, 2011

Field: ENGINEERING AND ARCHITECTURE


Record: 94243

I, M. Teresa González Aguado, General Secretary, hereby certify that the aforesaid student has achieved the following grades:

PASSED SUBJECTS WITH FINAL GRADE

Code	Subject	Cred	Sem	Typ	Year	F.e.	Sess	Grade	To
ACADEMIC YEAR 1									
565000511	LINEAR ALGEBRA	6		T	14-15	1	FEB	EXCELLENT WIT	9.00 833
565000512	CALCULUS	6		T	14-15	1	FEB	EXCELLENT WIT	10.00 833
565000513	PHYSICS I	6		T	14-15	1	FEB	EXCELLENT	9.30 834
565000514	CHEMISTRY	6		T	14-15	1	FEB	VERY GOOD	8.30 835
565000515	TECHNICAL DRAWING AND COMPUTER AIDED DESIGN	6		T	14-15	1	FEB	EXCELLENT WIT	9.00 836
565000521	STATISTICS	6		T	14-15	1	J	EXCELLENT	9.60 833
565000522	ADVANCED CALCULUS	6		T	14-15	1	J	EXCELLENT WIT	10.00 833
565000523	PHYSICS II	6		T	14-15	1	J	EXCELLENT WIT	10.00 834
565000524	COMPUTERS AND PROGRAMMING	6		T	14-15	1	J	EXCELLENT WIT	10.00 837
565000525	ARTISTIC DRAWING	6		B	14-15	1	J	EXCELLENT	10.00 942
ACADEMIC YEAR 2									
565000531	ECONOMICS AND BUSINESS ADMINISTRATION	6		T	15-16	1	FEB	EXCELLENT	9.00 838
565000532	ENGLISH FOR PROFESSIONAL AND ACADEMIC COMMUNICATION	6		B	15-16	1	FEB	VERY GOOD	8.50 948
565000533	BASIC DESIGN PRINCIPLES	4.5		B	15-16	1	FEB	EXCELLENT	9.40 936
565000534	MATERIALS SCIENCE	4.5		B	15-16	1	FEB	PASS	6.50 950
565000535	STRENGTH OF MATERIALS	4.5		B	15-16	1	FEB	VERY GOOD	7.50 958
565000536	BASICS OF AESTHETICS AND ANTHROPOLOGY	4.5		B	15-16	1	FEB	EXCELLENT WIT	9.00 944
565000541	CIRCUIT THEORY	4.5		B	15-16	1	J	VERY GOOD	7.50 964
565000542	MANUFACTURING TECHNOLOGY	4.5		B	15-16	1	J	EXCELLENT WIT	9.50 963
565000543	METHODOLOGY OF DESIGN AND CREATIVITY	4.5		B	15-16	1	J	EXCELLENT WIT	9.30 954
565000544	GRAPHICAL ENGINEERING	6		B	15-16	1	J	EXCELLENT	9.50 947
565000545	ELASTICITY AND STRENGTH OF MATERIALS	6		B	15-16	1	J	EXCELLENT WIT	9.10 939
565000546	HEAT TRANSFER	4.5		B	15-16	1	J	EXCELLENT WIT	9.20 966
ACADEMIC YEAR 3									
M 565000551	ELECTRONICS	4.5		B	18-19	1	FEB	EXCELLENT	9.50 940
565000552	ELECTRICAL MACHINES	4.5		B	16-17	1	FEB	VERY GOOD	8.60 949
565000553	THEORY OF MACHINES AND MECHANISMS	4.5		B	16-17	1	FEB	EXCELLENT	9.00 965
565000554	NON-METALLIC MATERIALS	3		B	19-20	1	FEB	VERY GOOD	7.80 952

Código Seguro De Verificación	4455-594B-6135C4B31A3461	Fecha	29/07/2020
Firmado Por	M. Teresa Gonzalez Aguado - Secretaria General - Secretaría General		
Url De Verificación	https://portafirmas.upm.es/verifirma/code/4455-594B-6135C4B31A3461	Página	1/6





UNIVERSIDAD POLITÉCNICA DE MADRID

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STUDENT PARTICULARS:

Name and Surname: TOMAS CABEZON PEDROSO

Identification: National Identity Document: 79047381S

PASSED SUBJECTS WITH FINAL GRADE

Code	Subject	Cred	Sem	Typ	Year	F.e.	Sess	Grade	To
565000555	MATERIALS ENGINEERING	4.5		B	16-17	1	FEB	EXCELLENT	9.20 946
565000556	REPRESENTATION TECHNIQUES FOR INDUSTRIAL DESIGN	4.5		B	16-17	1	FEB	VERY GOOD	7.50 962
565000557	INDUSTRIAL DESIGN PROJECT I	4.5		B	16-17	1	FEB	EXCELLENT WIT	9.80 959
565000561	BUSINESS MANAGEMENT	4.5		B	16-17	1	J	EXCELLENT WIT	9.30 956
M 565000562	ENVIRONMENTAL SCIENCES	3		B	18-19	1	J	VERY GOOD	7.40 953
M 565000563	LEGAL ASPECTS OF DESIGN AND PRODUCT	3		B	17-18	1	JUL	EXCELLENT	10.00 934
565000564	MANAGEMENT OF INNOVATION AND DESIGN	3		B	16-17	1	J	VERY GOOD	8.20 945
M 565000565	INDUSTRIAL DESIGN PROJECT II	4.5		B	17-18	1	JUL	EXCELLENT	9.00 959
565000566	ADVANCED TECHNICAL DRAWING	4.5		B	16-17	1	J	VERY GOOD	8.10 943
M 565000567	MODELS, SCALE MODELS AND PROTOTYPES	4.5		B	17-18	1	JUL	EXCELLENT	9.10 955
M 565000568	ECOLOGICAL DESIGN AND PRODUCT SAFETY	3		B	17-18	1	JUL	VERY GOOD	8.00 938
ACADEMIC YEAR 4									
M 565000571	PROJECT ENGINEERING AND MANUFACTURING MANAGEMENT	4.5		B	17-18	1	JUL	EXCELLENT	9.00 957
M 565000572	GRAPHIC DESIGN AND COMMUNICATION	4.5		B	17-18	1	JUL	EXCELLENT	9.00 937
M 565000573	PACKAGING	4.5		B	17-18	1	JUL	EXCELLENT	9.00 941
M 565000574	3-D DIGITALIZATION AND RAPID PROTOTYPING	4.5		B	17-18	1	JUL	EXCELLENT	10.00 935
565000575	PRODUCT ERGONOMICS	4.5		B	19-20	1	FEB	PASS	6.20 933
M 565000576	INDUSTRIAL DESIGN PROJECT III	4.5		B	17-18	1	JUL	VERY GOOD	8.00 959
565000577	ADVANCED MATERIALS	3		B	19-20	1	FEB	VERY GOOD	7.00 951
565005326	MECHANICS	3		O	14-15	1	J	EXCELLENT	9.00 974
565005354	MACHINE DESIGN I	3		O	16-17	1	FEB	VERY GOOD	7.00 974
565005357	THEORY OF STRUCTURES	4.5		O	16-17	1	FEB	VERY GOOD	7.80 974
M 565005371	METROLOGY AND QUALITY	3		O	18-19	1	FEB	PASS	5.50 974
M 565005372	MANUFACTURING ENGINEERING	4.5		O	18-19	1	FEB	PASS	5.50 974

SUBJECT CREDITS RECOGNIZED AT SENDING INSTITUTION

Type	Subject	Cred	Typ	Year	Session	Univ.
Subj	LEVEL B2 IN ENGLISH LANGUAGE	0	B	14-15	DIC	CREDIT RECOGN UPM
Completed in Curriculum: DUAL BACHELOR SCIENCE INDUST. DESIGN PRODUCT DEVELOP. AND MECHANICAL ENG.						
Subj	FINAL DEGREE PROJECT IN INDUSTRIAL DESIGN AND PRODUCT DEVELOPMENT	12	P	19-20	J	EXCELLENT 10.00 UPM
Completed in Curriculum: DUAL BACHELOR SCIENCE INDUST. DESIGN PRODUCT DEVELOP. AND MECHANICAL ENG.						


NOT TO BE TAKEN

Code	Subject	Cred	Sem	Typ	Mt
905000001	LEVEL B2 IN ENGLISH LANGUAGE	0	A	B	
565000590	FINAL DEGREE PROJECT	12	I	P	975

SUBJECTS TAKEN VIA AN INTERNATIONAL PROGRAMME

Asignatura	Cred	Año	Calif.	Universidad
ADVANCED MANUFACTURING PROCESSES	10	18-19	19/30	POLITECNICO MILAN. ITALIA.
ART AND DESIGN OF PAPER CONSTRUCTION	5	17-18	90/100	COLLEGE OF DESIGN AND INNOVATION
TONGJI UNIVERSITY. CHINA.				
BOMBAS Y COMPRESORES	5	18-19	97	UNIVERSIDAD TECNICA FEDERICO DE SANTA
MARIA. CHILE				
COMMUNICATION DESIGN IN BRANDING AND IDENTITY	5	17-18	90/100	COLLEGE OF DESIGN AND INNOVATION
TONGJI UNIVERSITY.CHINA.				
SYSTEMS				

Código Seguro De Verificación	4455-594B-6135C4B31A3461	Fecha	29/07/2020
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STUDENT PARTICULARS:

Name and Surname: TOMAS CABEZON PEDROSO

Identification: National Identity Document: 79047381S

SUBJECTS TAKEN VIA AN INTERNATIONAL PROGRAMME

Asignatura	Cred	Año	Calif.	Universidad
DESIGN OF MECHANICAL SYSTEMS/PROGETTAZIONE DI SISTEMI MECCANICI	5	18-19	19/30	POLITECNICO MILAN. ITALIA.
DESIGN STUDIO 2: CO-DESIGN PROJECT CLASS 8 TONGJI UNIVERSITY. CHINA.	5	17-18	89/100	COLLEGE OF DESIGN AND INNOVATION
ELEMENTOS DE MAQUINAS MARIA.CHILE.	5	18-19	75	UNIVERSIDAD TECNICA FEDERICO DE SANTA
FUNDAMENTOS DE ELECTRONICA MARIA. CHILE.	5	18-19	94	UNIVERSIDAD TECNICA FEDERICO DE SANTA
GESTION AMBIENTAL MARIA. CHILE.	5	18-19	77	UNIVERSIDAD TECNICA FEDERICO DE SANTA
GRAFICA EN INGENIERÍA MARIA. CHILE.	5	18-19	98	UNIVERSIDAD TECNICA FEDERICO DE SANTA
MACCHINE E SISTEMI ENERGETICI - FLUID - MACHINES AND ENERGY SYSTEMS	7	18-19	23/30	POLITECNICO MILAN. ITALIA.
MOTORI A COMBUINTERNAL COMBUSTION ENGINE L - MOTORI A COMBUSTIONE INTERNA LSTIONE INTERNA L	5	18-19	30/30	POLITECNICO MILAN. ITALIA.
OPEN DESIGN TONGJI UNIVERSITY. CHINA.	5	17-18	94/100	COLLEGE OF DESIGN AND INNOVATION
PARAMETRIC DESIGN TONGJI UNIVERSITY. CHINA.	5	17-18	95/100	COLLEGE OF DESIGN AND INNOVATION
PRODUCT SERVICE SYSTEM DESIGN METHODOLOGIES AND TONGJI UNIVERSITY. CHINA.	5	17-18	89/100	COLLEGE OF DESIGN AND INNOVATION
TOOLS				

COMPLETED MODULES AND UNITS

	Code	Description	Cred	Average	Year	Sess.
Module:	282	BASIC TRAINING	60	9.4	15-16	FEB
Unit:	833	MATHEMATICS	24	9.6	14-15	J
		Basic subject:MATEMÁTICAS				
Unit:	834	PHYSICS	12	9.6	14-15	J
		Basic subject:FÍSICA				
Unit:	835	CHEMISTRY	6	8.3	14-15	FEB
		Basic subject:QUÍMICA				
Unit:	836	GRAPHIC COMMUNICATION	6	9.0	14-15	FEB
		Basic subject:EXPRESIÓN GRÁFICA				
Unit:	837	COMPUTING	6	10.0	14-15	J
		Basic subject:INFORMÁTICA				
Unit:	838	BUSINESS	6	9.0	15-16	FEB
		Basic subject:EMPRESA				
Module:	283	UNIVERSITY COMPULSORY SUBJECTS	150	8.7	19-20	FEB
Unit:	933	PRODUCT ERGONOMICS	4.5	6.2	19-20	FEB
Unit:	934	LEGAL ASPECTS OF PRODUCT DESIGN	3	10.0	17-18	JUL
Unit:	935	3D DIGITALIZATION	4.5	10.0	17-18	JUL
Unit:	936	BASIC DESIGN	4.5	9.4	15-16	FEB

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COMPLETED MODULES AND UNITS

Code	Description	Cred	Average	Year	Sess.
Unit: 937	GRAPHIC DESIGN AND COMMUNICATION	4.5	9.0	17-18	JUL
Unit: 938	ECODESIGN AND PRODUCT SAFETY	3	8.0	17-18	JUL
Unit: 939	ELASTICITY AND STRENGTH OF MATERIALS	6	9.1	15-16	J
Unit: 940	ELECTRONICS	4.5	9.5	18-19	FEB
Unit: 941	WRAPPING AND PACKAGING	4.5	9.0	17-18	JUL
Unit: 942	ARTISTIC EXPRESSION	6	10.0	14-15	J
Unit: 943	GRAPHIC COMMUNICATION	4.5	8.1	16-17	J
Unit: 944	FUNDAMENTALS OF AESTHETICS AND ANTHROPOLOGY	4.5	9.0	15-16	FEB
Unit: 945	DESIGN AND INNOVATION MANAGEMENT	3	8.2	16-17	J
Unit: 946	MATERIALS ENGINEERING	4.5	9.2	16-17	FEB
Unit: 947	GRAPHICS ENGINEERING	6	9.5	15-16	J
Unit: 948	ENGLISH	6	8.5	15-16	FEB
Unit: 949	ELECTRICAL MACHINERY	4.5	8.6	16-17	FEB
Unit: 950	MATERIALS	4.5	6.5	15-16	FEB
Unit: 951	ADVANCED MATERIALS	3	7.0	19-20	FEB
Unit: 952	NON-METALLIC MATERIALS	3	7.8	19-20	FEB
Unit: 953	ENVIRONMENT	3	7.4	18-19	J
Unit: 954	DESIGN METHODOLOGY AND CREATIVITY	4.5	9.3	15-16	J
Unit: 955	WIREFRAMES, MOCKUPS AND PROTOTYPES	4.5	9.1	17-18	JUL
Unit: 956	INDUSTRIAL ORGANIZATION	4.5	9.3	16-17	J
Unit: 957	PROJECTS AND CONSULTANCY	4.5	9.0	17-18	JUL
Unit: 958	STRENGTH OF MATERIALS	4.5	7.5	15-16	FEB
Unit: 959	DESIGN WORKSHOP	13.5	8.9	17-18	JUL
Unit: 962	INDUSTRIAL DESIGN REPRESENTATION TECHNIQUES	4.5	7.5	16-17	FEB
Unit: 963	MANUFACTURING TECHNOLOGY	4.5	9.5	15-16	J
Unit: 964	CIRCUIT THEORY	4.5	7.5	15-16	J
Unit: 965	THEORY OF MACHINERY AND MECHANISMS	4.5	9.0	16-17	FEB
Unit: 966	THERMODYNAMICS AND HEAT TRANSFER	4.5	9.2	15-16	J
Module: 284	OPTIONAL SUBJECTS	18	6.9	18-19	FEB
Unit: 974	OPTIONAL SUBJECTS	18	6.9	18-19	FEB
Module: 285	FYP	12	10.0	19-20	J
Unit: 975	FYP	12	10.0	19-20	J


STUDENT OUTCOMES

Session Student Outcomes.

J /2014-15 FIRST YEAR
J /2015-16 SECOND YEAR
FEB/2019-20 THIRD YEAR
FEB/2019-20
J /2019-20 BACHELOR IN ENGINEERING IN INDUSTRIAL DESIGN AND PRODUCT DEVELOPMENT

Average grade according to UPM Regulations: 8.81

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SUBJECTS

STUDENT PARTICULARS:

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CREDIT OVERVIEW

Type Subject		Required Credits	Gained Credits	Remaining Credits	Registered Credits
BASIC	(T)	60.00	60.00	0.00	0.00
COMPULSORY	(B)	150.00	150.00	0.00	0.00
END OF DEGREE PROJEC	(P)	12.00	12.00	0.00	0.00
OPTIONAL	(O)	18.00	18.00	0.00	0.00

OBSERVATIONS ON ACADEMIC RECORD


TÍTULO TFG: ESTUDIO DE LA INTERACCIÓN DIGITAL Y SUS CONSECUENCIAS

FECHA DE DEFENSA: 6-7-20

DIRECTOR: PABLO BRIS MARINO

In witness whereof, I have, at the behest of the interested party, issued this certificate approved by the General Secretary on .

General Secretary
M. Teresa González Aguado

Código Seguro De Verificación	4455-594B-6135C4B31A3461	Fecha	29/07/2020		
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KEY

The listed subject units (ut) are detailed below:

833 - MATHEMATICS
834 - PHYSICS
835 - CHEMISTRY
836 - GRAPHIC COMMUNICATION
837 - COMPUTING
838 - BUSINESS
933 - PRODUCT ERGONOMICS
934 - LEGAL ASPECTS OF PRODUCT DESIGN
935 - 3D DIGITALIZATION
936 - BASIC DESIGN
937 - GRAPHIC DESIGN AND COMMUNICATION
938 - ECODSIGN AND PRODUCT SAFETY
939 - ELASTICITY AND STRENGTH OF MATERIALS
940 - ELECTRONICS
941 - WRAPPING AND PACKAGING
942 - ARTISTIC EXPRESSION
943 - GRAPHIC COMMUNICATION
944 - FUNDAMENTALS OF AESTHETICS AND ANTHROPOLOGY
945 - DESIGN AND INNOVATION MANAGEMENT
946 - MATERIALS ENGINEERING
947 - GRAPHICS ENGINEERING
948 - ENGLISH
949 - ELECTRICAL MACHINERY
950 - MATERIALS
951 - ADVANCED MATERIALS
952 - NON-METALLIC MATERIALS
953 - ENVIRONMENT
954 - DESIGN METHODOLOGY AND CREATIVITY
955 - WIREFRAMES, MOCKUPS AND PROTOTYPES
956 - INDUSTRIAL ORGANIZATION
957 - PROJECTS AND CONSULTANCY
958 - STRENGTH OF MATERIALS
959 - DESIGN WORKSHOP
962 - INDUSTRIAL DESIGN REPRESENTATION TECHNIQUES
963 - MANUFACTURING TECHNOLOGY
964 - CIRCUIT THEORY
965 - THEORY OF MACHINERY AND MECHANISMS
966 - THERMODYNAMICS AND HEAT TRANSFER
974 - OPTIONAL SUBJECTS
975 - FYP

The listed universities (univ.) indicate that the subject was taken at the specified university:

UPM - UNIVERSIDAD POLITÉCNICA DE MADRID

Cred-Credits Dur-Duration (A-Annual, 1S-First semester, 2S-Second semester, I-Unspecified within academic year), Tip-Subject type (T-Basic, B-Compulsory, O-Optional, C-Bridge Course, E-External Placements, L-Libre Elección, P-End Of Degree Project). C.ag-No. of times examination sat, Conv-Examination sitting, excluding examinations not taken. The AC grade means that the student has been awarded a conceded pass.

Level B2 English language proficiency is a prerequisite for the compulsory subject Professional and Academic English.

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ACCESS

Access to the University: UNIVERSITY ENTRANCE EXAMINATION-LOE-UNIVERSITY ENTRANCE EXAMINATIONS FOR OFFICIAL UNDERGRADUATE DEGREES (LOE)

Made in: 2013-14-J

FINAL ADMISSION GRADE POINTS: 13.198

UNIVERSITY: UNIVERSIDAD DEL PAÍS VASCO

UNIVERSITY ENTRANCE EXAMINATION BOARD: UNIVERSIDAD DEL PAÍS VASCO

UNIVERSITY ENTRANCE EXAMINATION GRADE POINTS: 9.648

DEGREE PROGRAMME PARTICULARS:

School: School of Industrial Design and Engineering

Degree Programme: Undergraduate 3-5 years (ECTS)

Curriculum: (56IM) - BACHELOR OF SCIENCE IN MECHANICAL ENGINEERING

Date of publication: January 14, 2011

Field: ENGINEERING AND ARCHITECTURE


Record: 315621

I, M. Teresa González Aguado, General Secretary, hereby certify that the aforesaid student has achieved the following grades:

PASSED SUBJECTS WITH FINAL GRADE

Code	Subject	Cred	Sem	Typ	Year	F.e.	Sess	Grade	To
ACADEMIC YEAR 1									
565000311	CALCULUS	6		T	14-15	1	FEB	EXCELLENT WIT	10.00 1976
565000312	LINEAR ALGEBRA	6		T	14-15	1	FEB	EXCELLENT WIT	9.00 1976
565000313	PHYSICS I	6		T	14-15	1	FEB	EXCELLENT	9.30 1977
565000314	CHEMISTRY	6		T	14-15	1	FEB	VERY GOOD	8.30 1978
565000315	TECHNICAL DRAWING AND COMPUTER AIDED DESIGN	6		T	14-15	1	FEB	EXCELLENT WIT	9.00 1979
565000321	STATISTICS	6		T	14-15	1	J	EXCELLENT	9.60 1976
565000322	ADVANCED CALCULUS	6		T	14-15	1	J	EXCELLENT WIT	10.00 1976
565000323	PHYSICS II	6		T	14-15	1	J	EXCELLENT WIT	10.00 1977
565000324	COMPUTERS AND PROGRAMMING	6		T	14-15	1	J	EXCELLENT WIT	10.00 1980
565000325	NUMERICAL METHODS IN MECHANICAL ENGINEERING	3		O	14-15	1	J	EXCELLENT WIT	10.00 2006
565000326	MECHANICS	3		O	14-15	1	J	EXCELLENT	9.00 2007
ACADEMIC YEAR 2									
565000331	ECONOMICS AND BUSINESS ADMINISTRATION	6		T	15-16	1	FEB	EXCELLENT	9.00 1981
565000332	ENGLISH FOR PROFESSIONAL AND ACADEMIC COMMUNICATION	6		B	15-16	1	FEB	VERY GOOD	8.50 1982
565000333	FLUID MECHANICS	4.5		B	16-17	1	FEB	VERY GOOD	8.20 1984
565000334	MATERIALS SCIENCE	4.5		B	15-16	1	FEB	PASS	6.50 1985
565000335	STRENGTH OF MATERIALS	4.5		B	15-16	1	FEB	VERY GOOD	7.50 1986
565000336	THERMODYNAMICS	4.5		B	15-16	1	FEB	EXCELLENT	9.00 1983
565000341	CIRCUIT THEORY	4.5		B	15-16	1	J	VERY GOOD	7.50 1989
565000342	MANUFACTURING TECHNOLOGY	4.5		B	15-16	1	J	EXCELLENT WIT	9.50 1987
565000343	HEAT TRANSFER	4.5		B	15-16	1	J	EXCELLENT WIT	9.20 1983
565000344	GRAPHICAL ENGINEERING	6		O	15-16	1	J	EXCELLENT	9.50 1997
565000345	ELASTICITY AND STRENGTH OF MATERIALS	6		O	15-16	1	J	EXCELLENT WIT	9.10 1996
565000346	WELDING PROCESSES	4.5		O	16-17	1	J	VERY GOOD	8.10 2008
ACADEMIC YEAR 3									
M 565000351	ELECTRONICS	4.5		B	18-19	1	FEB	EXCELLENT	9.50 1990
565000352	ELECTRICAL MACHINES	4.5		B	16-17	1	FEB	VERY GOOD	8.60 1995
565000353	THEORY OF MACHINES AND MECHANISMS	4.5		B	16-17	1	FEB	EXCELLENT	9.00 1991

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UNIVERSIDAD POLITÉCNICA DE MADRID

ACADEMIC CERTIFICATE OF PASSED SUBJECTS

STUDENT PARTICULARS:

Name and Surname: TOMAS CABEZON PEDROSO

Identification: National Identity Document: 79047381S

PASSED SUBJECTS WITH FINAL GRADE

Code	Subject	Cred	Sem	Typ	Year	F.e.	Sess	Grade	To
M 565000354	MACHINE DESIGN I	3		O	16-17	1	FEB	VERY GOOD	7.00 2002
565000355	MATERIALS ENGINEERING	4.5		O	16-17	1	FEB	EXCELLENT	9.20 2000
M 565000356	THERMAL ENGINEERING	4.5		O	18-19	1	FEB	PASS	6.50 1999
565000357	STRUCTURAL MECHANICS	4.5		O	16-17	1	FEB	VERY GOOD	7.80 1998
565000360	BUSINESS MANAGEMENT	4.5		B	16-17	1	J	EXCELLENT WIT	9.30 1988
M 565000361	ENVIRONMENTAL SCIENCES	3		B	18-19	1	J	VERY GOOD	7.40 1994
565000362	AUTOMATIC REGULATION	3		B	16-17	1	J	VERY GOOD	7.80 1993
565000363	INDUSTRIAL BUILDINGS	3		O	16-17	1	J	VERY GOOD	7.40 2005
565000364	MACHINE DESIGN II	4.5		O	16-17	1	J	VERY GOOD	8.00 2002
M 565000365	FLUID MECHANICAL MACHINES AND SYSTEMS	4.5		O	18-19	1	J	EXCELLENT	10.00 2001
M 565000366	ANALYSIS AND SYNTHESIS OF MECHANISMS	4.5		O	18-19	1	J	VERY GOOD	7.20 2008
M 565000367	COMPUTER-AIDED MANUFACTURING	3		O	18-19	1	J	EXCELLENT	10.00 2008
ACADEMIC YEAR 4									
M 565000370	PROJECT ENGINEERING AND MANUFACTURING MANAGEMENT	4.5		B	17-18	1	JUL	EXCELLENT	9.00 1992
M 565000371	METROLOGY AND QUALITY	3		O	18-19	1	FEB	PASS	5.50 2004
M 565000372	MANUFACTURING ENGINEERING	4.5		O	18-19	1	FEB	PASS	5.50 2003
M 565000373	RECIPROCATING ENGINES	4.5		O	18-19	1	FEB	EXCELLENT	10.00 2008
M 565000374	FLEXIBLE MANUFACTURING SYSTEMS	3		O	18-19	1	FEB	PASS	5.50 2008
M 565000375	MECHANICAL DESIGN	4.5		O	18-19	1	FEB	PASS	5.50 2008
565000376	FINITE ELEMENTS AND MECHANICAL VIBRATIONS	6		O	19-20	1	FEB	PASS	5.80 2008
565003525	ARTISTIC DRAWING	6		O	14-15	1	J	EXCELLENT	10.00 2010
565003533	BASIC DESIGN PRINCIPLES	4.5		O	15-16	1	FEB	EXCELLENT	9.40 2010
565003536	BASICS OF AESTHETICS AND ANTHROPOLOGY	4.5		O	15-16	1	FEB	EXCELLENT WIT	9.00 2010
565003554	NON METALLICS MATERIALS	3		O	19-20	1	FEB	VERY GOOD	7.80 2010

SUBJECT CREDITS RECOGNIZED AT SENDING INSTITUTION

Type	Subject	Cred	Typ	Year	Session	Univ.
Subj	LEVEL B2 IN ENGLISH LANGUAGE	0	B	14-15	DIC	CREDIT RECOGN UPM
Completed in Curriculum: DUAL BACHELOR SCIENCE INDUST. DESIGN PRODUCT DEVELOP. AND MECHANICAL ENG.						
Subj	FINAL DEGREE PROJECT MECHANICAL ENGINEERING	12	P	19-20	J	EXCELLENT 10.00 UPM
Completed in Curriculum: DUAL BACHELOR SCIENCE INDUST. DESIGN PRODUCT DEVELOP. AND MECHANICAL ENG.						


NOT TO BE TAKEN

Code	Subject	Cred	Sem	Typ	Mt
905000001	LEVEL B2 IN ENGLISH LANGUAGE	0	A	B	
565000392	FINAL DEGREE PROJECT	12	I	P	2011

SUBJECTS TAKEN VIA AN INTERNATIONAL PROGRAMME

Asignatura	Cred	Año	Calif.	Universidad
ADVANCED MANUFACTURING PROCESSES	10	18-19	19/30	POLITECNICO MILAN. ITALIA.
ART AND DESIGN OF PAPER CONSTRUCTION	5	17-18	90/100	COLLEGE OF DESIGN AND INNOVATION TONGJI UNIVERSITY. CHINA.
BOMBAS Y COMPRESORES	5	18-19	97	UNIVERSIDAD TECNICA FEDERICO DE SANTA MARIA. CHILE
COMMUNICATION DESIGN IN BRANDING AND IDENTITY	5	17-18	90/100	COLLEGE OF DESIGN AND INNOVATION TONGJI UNIVERSITY. CHINA.
SYSTEMS				

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UNIVERSIDAD POLITÉCNICA DE MADRID

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STUDENT PARTICULARS:

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Identification: National Identity Document: 79047381S


SUBJECTS TAKEN VIA AN INTERNATIONAL PROGRAMME

Asignatura	Cred	Año	Calif.	Universidad
DESIGN OF MECHANICAL SYSTEMS/PROGETTAZIONE DI SISTEMI MECCANICI	5	18-19	19/30	POLITECNICO MILAN. ITALIA.
DESIGN STUDIO 2: CO-DESIGN PROJECT CLASS 8 UNIVERSITY. CHINA.	5	17-18	89/100	COLLEGE OF DESIGN AND INNOVATION TONGJI
ELEMENTOS DE MAQUINAS MARIA. CHILE	5	18-19	75	UNIVERSIDAD TECNICA FEDERICO DE SANTA
FUNDAMENTOS DE ELECTRONICA MARIA. CHILE	5	18-19	94	UNIVERSIDAD TECNICA FEDERICO DE SANTA
GESTION AMBIENTAL MARIA. CHILE.	5	18-19	77	UNIVERSIDAD TECNICA FEDERICO DE SANTA
GRAFICA EN INGENIERÍA MARIA. CHILE.	5	18-19	98	UNIVERSIDAD TECNICA FEDERICO DE SANTA
MACCHINE E SISTEMI ENERGETICI - FLUID - MACHINES AND ENERGY SYSTEMS	7	18-19	23/30	POLITECNICO MILAN. ITALIA.
MOTORI A COMBUINTERNAL COMBUSTION ENGINE L - MOTORI A COMBUSTIONE INTERNA LSTIONE INTERNA L	5	18-19	30/30	POLITECNICO MILAN. ITALIA.
OPEN DESIGN UNIVERSITY.CHINA.	5	17-18	94/100	COLLEGE OF DESIGN AND INNOVATION TONGJI
PARAMETRIC DESIGN UNIVERSITY.CHINA.	5	17-18	95/100	COLLEGE OF DESIGN AND INNOVATION TONGJI
PRODUCT SERVICE SYSTEM DESIGN METHODOLOGIES AND UNIVERSITY. CHINA.	5	17-18	89/100	COLLEGE OF DESIGN AND INNOVATION TONGJI
TOOLS				

COMPLETED MODULES AND UNITS

	Code	Description	Cred	Average	Year	Sess.
Module:	286	BASIC TRAINING	60	9.4	15-16	FEB
Unit:	1976	MATHEMATICS	24	9.6	14-15	J
		Basic subject:MATEMÁTICAS				
Unit:	1977	PHYSICS	12	9.6	14-15	J
		Basic subject:FÍSICA				
Unit:	1978	CHEMISTRY	6	8.3	14-15	FEB
		Basic subject:QUÍMICA				
Unit:	1979	GRAPHIC COMMUNICATION	6	9.0	14-15	FEB
		Basic subject:EXPRESIÓN GRÁFICA				
Unit:	1980	COMPUTING	6	10.0	14-15	J
		Basic subject:INFORMÁTICA				
Unit:	1981	BUSINESS	6	9.0	15-16	FEB
		Basic subject:EMPRESA				
Module:	287	COMPULSORY UPM SUBJECTS	6	8.5	15-16	FEB
Unit:	1982	ENGLISH	6	8.5	15-16	FEB
Module:	288	BRANCH CORE SUBJECTS	60	8.4	18-19	J
Unit:	1983	THERMODYNAMICS AND HEAT TRANSFER	9	9.1	15-16	J

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COMPLETED MODULES AND UNITS


Code	Description	Cred	Average	Year	Sess.
Unit: 1984	FLUID MECHANICS	4.5	8.2	16-17	FEB
Unit: 1985	MATERIALS	4.5	6.5	15-16	FEB
Unit: 1986	STRENGTH OF MATERIALS	4.5	7.5	15-16	FEB
Unit: 1987	MANUFACTURING TECHNOLOGIES	4.5	9.5	15-16	J
Unit: 1988	INDUSTRIAL ORGANIZATION	4.5	9.3	16-17	J
Unit: 1989	CIRCUIT THEORY	4.5	7.5	15-16	J
Unit: 1990	ELECTRONICS	4.5	9.5	18-19	FEB
Unit: 1991	THEORY OF MACHINERY AND MECHANISMS	4.5	9.0	16-17	FEB
Unit: 1992	PROJECTS	4.5	9.0	17-18	JUL
Unit: 1993	AUTOMATION	3	7.8	16-17	J
Unit: 1994	ENVIRONMENT	3	7.4	18-19	J
Unit: 1995	ELECTRICAL MACHINERY	4.5	8.6	16-17	FEB
Module: 289	SPECIALIZED SUBJECTS	48	7.9	18-19	J
Unit: 1996	ELASTICITY AND STRENGTH OF MATERIALS	6	9.1	15-16	J
Unit: 1997	GRAPHICS ENGINEERING	6	9.5	15-16	J
Unit: 1998	STRUCTURE THEORY	4.5	7.8	16-17	FEB
Unit: 1999	HEAT ENGINEERING	4.5	6.5	18-19	FEB
Unit: 2000	MATERIALS ENGINEERING	4.5	9.2	16-17	FEB
Unit: 2001	FLUID MACHINERY AND MECHANICS SYSTEMS	4.5	10.0	18-19	J
Unit: 2002	MACHINERY DESIGN	7.5	7.6	16-17	J
Unit: 2003	MANUFACTURING ENGINEERING	4.5	5.5	18-19	FEB
Unit: 2004	METROLOGY AND QUALITY	3	5.5	18-19	FEB
Unit: 2005	INDUSTRIAL CONSTRUCTIONS	3	7.4	16-17	J
Module: 290	TRACK	36	7.6	19-20	FEB
Unit: 2006	NUMERICAL METHODS	3	10.0	14-15	J
Unit: 2007	MECHANICS	3	9.0	14-15	J
Unit: 2008	OPTIONAL SUBJECTS A	30	7.3	19-20	FEB
Module: 291	OPTIONAL SUBJECTS	18	9.2	19-20	FEB
Unit: 2010	OPTIONAL SUBJECTS	18	9.2	19-20	FEB
Module: 292	FINAL-YEAR PROJECT	12	10.0	19-20	J
Unit: 2011	FINAL-YEAR PROJECT	12	10.0	19-20	J

STUDENT OUTCOMES

Session Student Outcomes.

J /2014-15 FIRST YEAR
J /2016-17 SECOND YEAR
J /2018-19 THIRD YEAR
FEB/2019-20

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UNIVERSIDAD POLITÉCNICA DE MADRID
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SUBJECTS

STUDENT PARTICULARS:

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STUDENT OUTCOMES

Session Student Outcomes.

J / 2019-20 MECHANICAL ENGINEERING DEGREE

Average grade according to UPM Regulations: 8.63

CREDIT OVERVIEW


Type Subject		Required Credits	Gained Credits	Remaining Credits	Registered Credits
BASIC	(T)	60.00	60.00	0.00	0.00
COMPULSORY	(B)	66.00	66.00	0.00	0.00
END OF DEGREE	PROJEC(P)	12.00	12.00	0.00	0.00
OPTIONAL	(O)	102.00	102.00	0.00	0.00

OBSERVATIONS ON ACADEMIC RECORD

TÍTULO TFG: UTILIZACIÓN DE MÉTODOS ALEATORIOS EN LA GENERACIÓN DE FORMAS GEOMÉTRICAS
FECHA DE DEFENSA: 8-7-20
DIRECTOR: DANIEL JEREMY FOX HORNIG

In witness whereof, I have, at the behest of the interested party, issued this certificate approved by the General Secretary on .

General Secretary
M. Teresa González Aguado

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UNIVERSIDAD POLITÉCNICA DE MADRID
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SUBJECTS

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KEY

The listed subject units (ut) are detailed below:

1976 - MATHEMATICS
1977 - PHYSICS
1978 - CHEMISTRY
1979 - GRAPHIC COMMUNICATION
1980 - COMPUTING
1981 - BUSINESS
1982 - ENGLISH
1983 - THERMODYNAMICS AND HEAT TRANSFER
1984 - FLUID MECHANICS
1985 - MATERIALS
1986 - STRENGTH OF MATERIALS
1987 - MANUFACTURING TECHNOLOGIES
1988 - INDUSTRIAL ORGANIZATION
1989 - CIRCUIT THEORY
1990 - ELECTRONICS
1991 - THEORY OF MACHINERY AND MECHANISMS
1992 - PROJECTS
1993 - AUTOMATION
1994 - ENVIRONMENT
1995 - ELECTRICAL MACHINERY
1996 - ELASTICITY AND STRENGTH OF MATERIALS
1997 - GRAPHICS ENGINEERING
1998 - STRUCTURE THEORY
1999 - HEAT ENGINEERING
2000 - MATERIALS ENGINEERING
2001 - FLUID MACHINERY AND MECHANICS SYSTEMS
2002 - MACHINERY DESIGN
2003 - MANUFACTURING ENGINEERING
2004 - METROLOGY AND QUALITY
2005 - INDUSTRIAL CONSTRUCTIONS
2006 - NUMERICAL METHODS
2007 - MECHANICS
2008 - OPTIONAL SUBJECTS A

2010 - OPTIONAL SUBJECTS
2011 - FINAL-YEAR PROJECT

The listed universities (univ.) indicate that the subject was taken at the specified university:
UPM - UNIVERSIDAD POLITÉCNICA DE MADRID

Cred-Credits Dur-Duration (A-Annual, 1S-First semester, 2S-Second semester, I-Unspecified within academic year), Tip-Subject type (T-Basic, B-Compulsory, O-Optional, C-Bridge Course, E-External Placements, L-Libre Elección, P-End Of Degree Project). C.ag-No. of times examination sat, Conv-Examination sitting, excluding examinations not taken. The AC grade means that the student has been awarded a conceded pass.

Level B2 English language proficiency is a prerequisite for the compulsory subject Professional and Academic English.

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