

**Mühendislik Fakültesi**  
**Bilgisayar Mühendisliği (İngilizce) - Anadal - Dönemlik**

**Genel Toplam    Ders Adedi :54    T : 134    U : 30    Kredi : 260    ECTS : 260    T+U : 164**

YABANCI DİL HAZIRLIK						
No	Ders Kodu	Ders Adı	T	U	Kredi	ECTS
1	YDI0001	Yabancı Dil Yeterlik (İngilizce)	0	0	0	0

1. YARIYIL						
No	Ders Kodu	Ders Adı	T	U	Kredi	ECTS
1	ATA121	Atatürk İlkeleri ve İnkılap Tarihi I	2	0	2	2
2	CHEM1007	Basic Chemistry	4	0	6	6
3	CSE1100	Introduction to Computer Engineering	2	0	2	2
4	CSE1141	Computer Programming I	3	2	6	6
5	MATH1001	Calculus I	4	0	6	6
6	PHYS1101	Physics I	3	0	4	4
7	PHYS1103	Physics Lab I	0	2	2	2
8	TRD121	Türk Dili I	2	0	2	2
Toplam			20	4	30,00	30,00

2. YARIYIL						
No	Ders Kodu	Ders Adı	T	U	Kredi	ECTS
1	ATA122	Atatürk İlkeleri ve İnkılap Tarihi II	2	0	2	2
2	CSE1142	Computer Programming II	3	2	7	7
3	CSE-NTE1	Non-Technical Elective - 1 (Ders 1) [Bu ders CSE-NTE1 ders grubundan alınacaktır, a a ıya bakınız]	2	0	3	3
4	MATH1002	Calculus II	4	0	6	6
5	MATH2056	Linear Algebra	3	0	4	4
6	PHYS1102	Physics II	3	0	4	4
7	PHYS1104	Physics Lab II	0	2	2	2
8	TRD122	Türk Dili II	2	0	2	2
Toplam			19	4	30,00	30,00

3. YARIYIL						
No	Ders Kodu	Ders Adı	T	U	Kredi	ECTS
1	CSE2023	Discrete Computational Structures	3	0	6	6
2	CSE2025	Data Structures	3	2	8	8
3	ECON2003	Introduction to Economics	3	0	4	4
4	EE2031	Electric Circuits	3	0	5	5
5	MATH2055	Differential Equations	3	0	4	4
6	NTE_2	Non-Technical Elective - 2 (Ders 1) [Bu ders NTE_2 ders grubundan alınacaktır, a a ıya bakınız]	2	0	3	3
Toplam			17	2	30,00	30,00

4. YARIYIL						
No	Ders Kodu	Ders Adı	T	U	Kredi	ECTS
1	CSE2046	Analysis of Algorithms	3	0	6	6
2	CSE2138	Systems Programming	3	2	7	7
3	ECON2004	Engineering Economy	2	0	4	4
4	EE2032	Electronics	2	2	5	5
5	MATH2059	Numerical Methods	3	0	4	4
6	STAT2053	Introduction to Probability and Statistics	3	0	4	4
Toplam			16	4	30,00	30,00

5. YARIYIL						
No	Ders Kodu	Ders Adı	T	U	Kredi	ECTS
1	CSE3000	Summer Practice I	0	0	10	10
2	CSE3015	Digital Logic Design	3	2	7	7
3	CSE3033	Operating Systems	3	2	7	7
4	CSE3055	Database Systems	3	2	7	7
5	CSE3063	Object-Oriented Software Design	3	0	5	5
6	IE3081	Modeling and Discrete Simulation	3	0	4	4
Toplam			15	6	40,00	40,00

6. YARIYIL						
No	Ders Kodu	Ders Adı	T	U	Kredi	ECTS
1	CSE3038	Computer Organization	3	2	7	7
2	CSE3044	Software Engineering	3	2	7	7
3	CSE3048	Introduction to Signals and Systems	3	0	5	5
4	CSE3064	Formal Languages and Automata Theory	3	0	6	6
5	IE3035	Operations Research	3	0	5	5
Toplam			15	4	30,00	30,00

7. YARIYIL						
No	Ders Kodu	Ders Adı	T	U	Kredi	ECTS
1	CSE4000	Summer Practice II	0	0	10	10
2	CSE4074	Computer Networks	3	0	5	5
3	CSE4117	Microprocessors	3	2	6	6
4	CSE4197	Engineering Project I	0	2	4	4
5	ENG-UE	University Elective (Ders 1) [Bu ders ENG-UE ders grubundan alınacaktır, a a ıya bakınız]	2	0	3	3
6	ISG121	Sa ılı ve Güvenli i l	2	0	2	2
7	TE-1-2	Technical Elective - 1-2 (Ders 1) [Bu ders TE-1-2 ders grubundan alınacaktır, a a ıya bakınız]	3	0	5	5
8	TE-1-2	Technical Elective - 1-2 (Ders 2) [Bu ders TE-1-2 ders grubundan alınacaktır, a a ıya bakınız]	3	0	5	5
Toplam			16	4	40,00	40,00

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8. YARIYIL						
No	Ders Kodu	Ders Adı	T	U	Kredi	ECTS
1	CSE4198	Engineering Project II	0	2	5	5
2	ENG-FTE	Faculty Technical Electives (Ders 1) <small>[Bu ders ENG-FTE ders grubundan alınacaktır, a a ıya bakınız]</small>	3	0	5	5
3	ISG122	Sa lı ı ve Güvenli i II	2	0	2	2
4	NTE_3	Non-Technical Elective - 3 (Ders 1) <small>[Bu ders NTE_3 ders grubundan alınacaktır, a a ıya bakınız]</small>	2	0	3	3
5	TE-3-4-5	Technical Elective 3-4-5 (Ders 1) <small>[Bu ders TE-3-4-5 ders grubundan alınacaktır, a a ıya bakınız]</small>	3	0	5	5
6	TE-3-4-5	Technical Elective 3-4-5 (Ders 2) <small>[Bu ders TE-3-4-5 ders grubundan alınacaktır, a a ıya bakınız]</small>	3	0	5	5
7	TE-3-4-5	Technical Elective 3-4-5 (Ders 3) <small>[Bu ders TE-3-4-5 ders grubundan alınacaktır, a a ıya bakınız]</small>	3	0	5	5
Toplam			16	2	30,00	30,00

CSE-NTE1						
No	Ders Kodu	Ders Adı	T	U	Kredi	ECTS
1	BUS1003	Entrepreneurship and Innovation	2	0	3	3
2	BUS1004	Strategic Entrepreneurship	2	0	3	3
3	BUS2005	International Business	2	0	3	3
4	CAS1001	Self Management	2	0	3	3
5	CAS1010	Our Biosphere	2	0	3	3
6	CAS1061	Geometric Origami	2	0	3	3
7	CAS2001	Energy for Physical Activity	2	0	3	3
8	CAS2002	Human Performance and Nutrition	2	0	3	3
9	CAS2003	Cardiopulmonary Resuscitation and First Aid Basics	2	0	3	3
10	CAS2004	Interpersonal Relations and Communication	2	0	3	3
11	CAS2005	Trekking and Orienteering	2	0	3	3
12	CAS3001	Earthquake and Rescue Principles	2	0	3	3
13	CAS3044	Positive Thinking	2	0	3	3
14	COMM2060	Communication Models and Techniques	2	0	3	3
15	FNCE3003	Investment Planning	2	0	3	3
16	HR1013	Career Development	2	0	3	3
17	HR4001	Career Orientation	2	0	3	3
18	HSS3002	Ethics in Engineering and Science	2	0	3	3
19	IKT1054	Industrial and Economic Sociology	2	0	3	3
20	INF1001	Information Literacy in Engineering	2	0	3	3
21	LAW2004	Labor Law	2	0	3	3
22	MAN1001	Principles of Managerial Economics & Financial Management	2	0	3	3
23	MGT1021	Design, Innovation and Entrepreneurship	2	0	3	3
24	MGT3082	Creativity and Innovation Management	2	0	3	3
25	MRK3082	Integrated Marketing Communication	2	0	3	3
26	MRK3084	Brand Creation/Branding	2	0	3	3
27	NTE1002	Effects of Human Behaviour on Environment	2	0	3	3
28	NTE1003	The Culture of Radiation Safety	2	0	3	3
29	NTE1004	World Cultures	2	0	3	3
30	NTE1006	Basic Principles of Accessibility in Informatics and Technology	2	0	3	3
31	NTE1008	Cinema	2	0	3	3
32	NTE1010	Introduction to Finance for Engineers	2	0	3	3
33	NTE1011	Business Communication	2	0	3	3
34	NTE1012	Introduction to Corporate Governance for Engineers	2	0	3	3
35	NTE1013	Business Intelligence for Managers	2	0	3	3
36	NTE1014	Introduction to Strategic Human Resources Management	2	0	3	3

NTE_2						
No	Ders Kodu	Ders Adı	T	U	Kredi	ECTS
1	BUS1003	Entrepreneurship and Innovation	2	0	3	3
2	BUS1004	Strategic Entrepreneurship	2	0	3	3
3	BUS2005	International Business	2	0	3	3
4	CAS1001	Self Management	2	0	3	3
5	CAS1010	Our Biosphere	2	0	3	3
6	CAS1061	Geometric Origami	2	0	3	3
7	CAS2001	Energy for Physical Activity	2	0	3	3
8	CAS2002	Human Performance and Nutrition	2	0	3	3
9	CAS2003	Cardiopulmonary Resuscitation and First Aid Basics	2	0	3	3
10	CAS2004	Interpersonal Relations and Communication	2	0	3	3
11	CAS2005	Trekking and Orienteering	2	0	3	3
12	CAS3001	Earthquake and Rescue Principles	2	0	3	3
13	CAS3044	Positive Thinking	2	0	3	3
14	COMM2060	Communication Models and Techniques	2	0	3	3
15	FNCE3003	Investment Planning	2	0	3	3
16	HR1013	Career Development	2	0	3	3
17	HR4001	Career Orientation	2	0	3	3
18	HSS3002	Ethics in Engineering and Science	2	0	3	3
19	IKT1054	Industrial and Economic Sociology	2	0	3	3
20	INF1001	Information Literacy in Engineering	2	0	3	3
21	LAW2004	Labor Law	2	0	3	3
22	MAN1001	Principles of Managerial Economics & Financial Management	2	0	3	3
23	MGT1021	Design, Innovation and Entrepreneurship	2	0	3	3
24	MGT3082	Creativity and Innovation Management	2	0	3	3
25	MRK3082	Integrated Marketing Communication	2	0	3	3
26	MRK3084	Brand Creation/Branding	2	0	3	3
27	NTE1002	Effects of Human Behaviour on Environment	2	0	3	3
28	NTE1003	The Culture of Radiation Safety	2	0	3	3
29	NTE1004	World Cultures	2	0	3	3
30	NTE1006	Basic Principles of Accessibility in Informatics and Technology	2	0	3	3
31	NTE1008	Cinema	2	0	3	3
32	NTE1010	Introduction to Finance for Engineers	2	0	3	3
33	NTE1011	Business Communication	2	0	3	3
34	NTE1012	Introduction to Corporate Governance for Engineers	2	0	3	3
35	NTE1013	Business Intelligence for Managers	2	0	3	3
36	NTE1014	Introduction to Strategic Human Resources Management	2	0	3	3

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37	NTE1015	Introduction to Leadership & Management for Engineers	2	0	3	3
38	NTE1016	Introduction to Strategy for Engineers	2	0	3	3
39	NTE1017	Marketing in a Technology Driven world for Engineers	2	0	3	3
40	OB2040	Industrial Psychology	2	0	3	3
41	OB2041	Behavioral Sciences for Engineers	2	0	3	3
42	OB3043	Organizational Behaviour	2	0	3	3
43	SOC3082	Environmental Sociology	2	0	3	3
44	YDA1001	German for Beginners	2	0	3	3
45	YDA1002	German	2	0	3	3
46	YDA1003	German Communication	2	0	3	3
47	YDA2001	Seminars in German	2	0	3	3
48	YDF1001	French for Beginners	2	0	3	3
49	YDF1002	French	2	0	3	3
50	YDI1004	Report Writing in English	2	0	3	3
51	YDIS1001	Spanish for Beginners	2	0	3	3
52	YDIS1002	Spanish	2	0	3	3

37	NTE1015	Introduction to Leadership & Management for Engineers	2	0	3	3
38	NTE1016	Introduction to Strategy for Engineers	2	0	3	3
39	NTE1017	Marketing in a Technology Driven world for Engineers	2	0	3	3
40	OB2040	Industrial Psychology	2	0	3	3
41	OB2041	Behavioral Sciences for Engineers	2	0	3	3
42	OB3043	Organizational Behaviour	2	0	3	3
43	SOC3082	Environmental Sociology	2	0	3	3
44	YDA1001	German for Beginners	2	0	3	3
45	YDA1002	German	2	0	3	3
46	YDA1003	German Communication	2	0	3	3
47	YDA2001	Seminars in German	2	0	3	3
48	YDF1001	French for Beginners	2	0	3	3
49	YDF1002	French	2	0	3	3
50	YDI1004	Report Writing in English	2	0	3	3
51	YDIS1001	Spanish for Beginners	2	0	3	3
52	YDIS1002	Spanish	2	0	3	3

ENG-UE						
No	Ders Kodu	Ders Adı	T	U	Kredi	ECTS
1	BUS1003	Entrepreneurship and Innovation	2	0	3	3
2	BUS1004	Strategic Entrepreneurship	2	0	3	3
3	BUS2005	International Business	2	0	3	3
4	CAS1001	Self Management	2	0	3	3
5	CAS1010	Our Biosphere	2	0	3	3
6	CAS1061	Geometric Origami	2	0	3	3
7	CAS2001	Energy for Physical Activity	2	0	3	3
8	CAS2002	Human Performance and Nutrition	2	0	3	3
9	CAS2003	Cardiopulmonary Resuscitation and First Aid Basics	2	0	3	3
10	CAS2004	Interpersonal Relations and Communication	2	0	3	3
11	CAS2005	Trekking and Orienteering	2	0	3	3
12	CAS3001	Earthquake and Rescue Principles	2	0	3	3
13	CAS3044	Positive Thinking	2	0	3	3
14	COMM2060	Communication Models and Techniques	2	0	3	3
15	FNCE3003	Investment Planning	2	0	3	3
16	HR1013	Career Development	2	0	3	3
17	HR4001	Career Orientation	2	0	3	3
18	HSS3002	Ethics in Engineering and Science	2	0	3	3
19	IKT1054	Industrial and Economic Sociology	2	0	3	3
20	INF1001	Information Literacy in Engineering	2	0	3	3
21	LAW2004	Labor Law	2	0	3	3
22	MAN1001	Principles of Managerial Economics & Financial Management	2	0	3	3
23	MGT1021	Design, Innovation and Entrepreneurship	2	0	3	3
24	MGT3082	Creativity and Innovation Management	2	0	3	3
25	MRK3082	Integrated Marketing Communication	2	0	3	3
26	MRK3084	Brand Creation/Branding	2	0	3	3
27	NTE1002	Effects of Human Behaviour on Environment	2	0	3	3
28	NTE1003	The Culture of Radiation Safety	2	0	3	3
29	NTE1004	World Cultures	2	0	3	3
30	NTE1006	Basic Principles of Accessibility in Informatics and Technology	2	0	3	3
31	NTE1008	Cinema	2	0	3	3
32	NTE1010	Introduction to Finance for Engineers	2	0	3	3
33	NTE1011	Business Communication	2	0	3	3
34	NTE1012	Introduction to Corporate Governance for Engineers	2	0	3	3

TE-1-2						
No	Ders Kodu	Ders Adı	T	U	Kredi	ECTS
1	CSE4026	Introduction to Robotics and Control Theory	3	0	5	5
2	CSE4032	Introduction to Distributed Systems	3	0	5	5
3	CSE4034	Advanced Unix Programming	3	0	5	5
4	CSE4038	Introduction to Parallel Processing	3	0	5	5
5	CSE4040	Cloud Computing	3	0	5	5
6	CSE4044	Software Project Management	3	0	5	5
7	CSE4053	Information Systems: Analysis and Design	3	0	5	5
8	CSE4054	Distributed Databases	3	0	5	5
9	CSE4056	Management of Information Systems	3	0	5	5
10	CSE4057	Information Systems Security	3	0	5	5
11	CSE4058	Fundamentals of Electronic Commerce	3	0	5	5
12	CSE4059	Internet Programming	3	0	5	5
13	CSE4060	Principles of Programming Languages	3	0	5	5
14	CSE4061	Compiler Design	3	0	5	5
15	CSE4062	Introduction to Data Science and Analytics	3	0	5	5
16	CSE4063	Fundamentals of Data Mining	3	0	5	5
17	CSE4065	Introduction to Computational Genomics	3	0	5	5
18	CSE4066	Introduction to Cryptography	3	0	5	5
19	CSE4067	Introduction to Blockchain Programming	3	0	5	5
20	CSE4070	Software Frameworks	3	0	5	5
21	CSE4075	Wireless and Mobile Networks	3	0	5	5
22	CSE4082	Artificial Intelligence	3	0	5	5
23	CSE4083	Computer Graphics	3	0	5	5
24	CSE4084	Multimedia Systems	3	0	5	5
25	CSE4085	Human Computer Interaction	3	0	5	5
26	CSE4086	Mobile Device Programming	3	0	5	5
27	CSE4087	Embedded System Design	3	0	5	5
28	CSE4088	Introduction to Machine Learning	3	0	5	5
29	CSE4093	Special Topics in Computer Engineering I	3	0	5	5
30	CSE4094	Special Topics in Computer Engineering II	3	0	5	5
31	CSE4095	Special Topics in Computer Engineering III	3	0	5	5
32	CSE4096	Special Topics in Computer Engineering IV	3	0	5	5
33	DP.TE1	Exchange Program Technical Elective-1	3	0	5	5

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35	NTE1013	Business Intelligence for Managers	2	0	3	3
36	NTE1014	Introduction to Strategic Human Resources Management	2	0	3	3
37	NTE1015	Introduction to Leadership & Management for Engineers	2	0	3	3
38	NTE1016	Introduction to Strategy for Engineers	2	0	3	3
39	NTE1017	Marketing in a Technology Driven world for Engineers	2	0	3	3
40	OB2040	Industrial Psychology	2	0	3	3
41	OB2041	Behavioral Sciences for Engineers	2	0	3	3
42	OB3043	Organizational Behaviour	2	0	3	3
43	SOC3082	Environmental Sociology	2	0	3	3
44	YDA1001	German for Beginners	2	0	3	3
45	YDA1002	German	2	0	3	3
46	YDA1003	German Communication	2	0	3	3
47	YDA2001	Seminars in German	2	0	3	3
48	YDF1001	French for Beginners	2	0	3	3
49	YDF1002	French	2	0	3	3
50	YDI1004	Report Writing in English	2	0	3	3
51	YDIS1001	Spanish for Beginners	2	0	3	3
52	YDIS1002	Spanish	2	0	3	3

34	DP.TE2	Exchange Program Technical Elective-2	3	0	5	5
35	DP.TE3	Exchange Program Technical Elective-3	3	0	5	5
36	DP.TE4	Exchange Program Technical Elective-4	3	0	5	5
37	DP.TE5	Exchange Program Technical Elective-5	3	0	5	5
38	DP.TE6	Exchange Program Technical Elective-6	3	0	5	5
39	DP.TE7	Exchange Program Technical Elective-7	3	0	5	5

ENG-FTE						
No	Ders Kodu	Ders Adı	T	U	Kredi	ECTS
1	BIOE4072	Planning and Management of Research	3	0	5	5
2	CHE4060	Cost Management in Chemical Industries	3	0	5	5
3	CHE4068	Financial Engineering	3	0	5	5
4	CHE4080	Chemical Engineering for Sustainable Biosphere	3	0	5	5
5	CSE4044	Software Project Management	3	0	5	5
6	CSE4056	Management of Information Systems	3	0	5	5
7	CSE4062	Introduction to Data Science and Analytics	3	0	5	5
8	EE4056	Introduction to Information Systems Management	3	0	5	5
9	EE4062	Introduction to Image Processing	3	0	5	5
10	ENVE4062	Energy and the Environment	3	0	5	5
11	ENVE4063	Construction Materials for Environmental Engineering	3	0	5	5
12	IE4055	Design of Experiments	3	0	5	5
13	IE4087	Introduction to Total Quality Management	3	0	5	5
14	ME3004	Mathematical Modeling in Mechanical Engineering	3	0	5	5
15	ME3022	Mechatronics	3	0	5	5
16	ME4018	Introduction to Robotics	3	0	5	5
17	ME4022	Control Systems	3	0	5	5
18	ME4033	Designing Quality Products	3	0	5	5
19	ME4051	Automotive Engineering	3	0	5	5
20	MGT4076	Quality Management System in Automotive Industry	3	0	5	5
21	MGT4082	Advanced Innovative Design Management for Entrepreneurship	3	0	5	5
22	MGT4084	Innovation and New Product Development Management	3	0	5	5
23	MGT4086	Managing Engineering and Technology	3	0	5	5
24	MGT4088	Project Management for Engineers	3	0	5	5
25	MSE4073	Materials Engineering Economics and Plant Design	3	0	5	5
26	MSE4074	Total Quality Management in Materials Engineering	3	0	5	5

NTE_3						
No	Ders Kodu	Ders Adı	T	U	Kredi	ECTS
1	BUS1003	Entrepreneurship and Innovation	2	0	3	3
2	BUS1004	Strategic Entrepreneurship	2	0	3	3
3	BUS2005	International Business	2	0	3	3
4	CAS1001	Self Management	2	0	3	3
5	CAS1010	Our Biosphere	2	0	3	3
6	CAS1061	Geometric Origami	2	0	3	3
7	CAS2001	Energy for Physical Activity	2	0	3	3
8	CAS2002	Human Performance and Nutrition	2	0	3	3
9	CAS2003	Cardiopulmonary Resuscitation and First Aid Basics	2	0	3	3
10	CAS2004	Interpersonal Relations and Communication	2	0	3	3
11	CAS2005	Trekking and Orienteering	2	0	3	3
12	CAS3001	Earthquake and Rescue Principles	2	0	3	3
13	CAS3044	Positive Thinking	2	0	3	3
14	COMM2060	Communication Models and Techniques	2	0	3	3
15	FNCE3003	Investment Planning	2	0	3	3
16	HR1013	Career Development	2	0	3	3
17	HR4001	Career Orientation	2	0	3	3
18	HSS3002	Ethics in Engineering and Science	2	0	3	3
19	IKT1054	Industrial and Economic Sociology	2	0	3	3
20	INF1001	Information Literacy in Engineering	2	0	3	3
21	LAW2004	Labor Law	2	0	3	3
22	MAN1001	Principles of Managerial Economics & Financial Management	2	0	3	3
23	MGT1021	Design, Innovation and Entrepreneurship	2	0	3	3
24	MGT3082	Creativity and Innovation Management	2	0	3	3
25	MRK3082	Integrated Marketing Communication	2	0	3	3
26	MRK3084	Brand Creation/Branding	2	0	3	3
27	NTE1002	Effects of Human Behaviour on Environment	2	0	3	3
28	NTE1003	The Culture of Radiation Safety	2	0	3	3
29	NTE1004	World Cultures	2	0	3	3
30	NTE1006	Basic Principles of Accessibility in Informatics and Technology	2	0	3	3
31	NTE1008	Cinema	2	0	3	3
32	NTE1010	Introduction to Finance for Engineers	2	0	3	3
33	NTE1011	Business Communication	2	0	3	3
34	NTE1012	Introduction to Corporate Governance for Engineers	2	0	3	3
35	NTE1013	Business Intelligence for Managers	2	0	3	3
36	NTE1014	Introduction to Strategic Human Resources Management	2	0	3	3
37	NTE1015	Introduction to Leadership & Management for Engineers	2	0	3	3
38	NTE1016	Introduction to Strategy for Engineers	2	0	3	3
39	NTE1017	Marketing in a Technology Driven world for Engineers	2	0	3	3
40	OB2040	Industrial Psychology	2	0	3	3
41	OB2041	Behavioral Sciences for Engineers	2	0	3	3

**Mühendislik Fakültesi**  
**Bilgisayar Mühendisli i ( ngilizce) - Anadal - Dönemlik**

**Genel Toplam    Ders Adedi :54    T : 134    U : 30    Kredi : 260    ECTS : 260    T+U : 164**

<b>TE-3-4-5</b>						
No	Ders Kodu	Ders Adı	T	U	Kredi	ECTS
1	CSE4026	Introduction to Robotics and Control Theory	3	0	5	5
2	CSE4032	Introduction to Distributed Systems	3	0	5	5
3	CSE4034	Advanced Unix Programming	3	0	5	5
4	CSE4038	Introduction to Parallel Processing	3	0	5	5
5	CSE4040	Cloud Computing	3	0	5	5
6	CSE4044	Software Project Management	3	0	5	5
7	CSE4053	Information Systems: Analysis and Design	3	0	5	5
8	CSE4054	Distributed Databases	3	0	5	5
9	CSE4056	Management of Information Systems	3	0	5	5
10	CSE4057	Information Systems Security	3	0	5	5
11	CSE4058	Fundamentals of Electronic Commerce	3	0	5	5
12	CSE4059	Internet Programming	3	0	5	5
13	CSE4060	Principles of Programming Languages	3	0	5	5
14	CSE4061	Compiler Design	3	0	5	5
15	CSE4062	Introduction to Data Science and Analytics	3	0	5	5
16	CSE4063	Fundamentals of Data Mining	3	0	5	5
17	CSE4065	Introduction to Computational Genomics	3	0	5	5
18	CSE4066	Introduction to Cryptography	3	0	5	5
19	CSE4067	Introduction to Blockchain Programming	3	0	5	5
20	CSE4070	Software Frameworks	3	0	5	5
21	CSE4075	Wireless and Mobile Networks	3	0	5	5
22	CSE4082	Artificial Intelligence	3	0	5	5
23	CSE4083	Computer Graphics	3	0	5	5
24	CSE4084	Multimedia Systems	3	0	5	5
25	CSE4085	Human Computer Interaction	3	0	5	5
26	CSE4086	Mobile Device Programming	3	0	5	5
27	CSE4087	Embedded System Design	3	0	5	5
28	CSE4088	Introduction to Machine Learning	3	0	5	5
29	CSE4093	Special Topics in Computer Engineering I	3	0	5	5
30	CSE4094	Special Topics in Computer Engineering II	3	0	5	5
31	CSE4095	Special Topics in Computer Engineering III	3	0	5	5
32	CSE4096	Special Topics in Computer Engineering IV	3	0	5	5
33	DP.TE1	Exchange Program Technical Elective-1	3	0	5	5
34	DP.TE2	Exchange Program Technical Elective-2	3	0	5	5
35	DP.TE3	Exchange Program Technical Elective-3	3	0	5	5
36	DP.TE4	Exchange Program Technical Elective-4	3	0	5	5
37	DP.TE5	Exchange Program Technical Elective-5	3	0	5	5
38	DP.TE6	Exchange Program Technical Elective-6	3	0	5	5
39	DP.TE7	Exchange Program Technical Elective-7	3	0	5	5

42	OB3043	Organizational Behaviour	2	0	3	3
43	SOC3082	Environmental Sociology	2	0	3	3
44	YDA1001	German for Beginners	2	0	3	3
45	YDA1002	German	2	0	3	3
46	YDA1003	German Communication	2	0	3	3
47	YDA2001	Seminars in German	2	0	3	3
48	YDF1001	French for Beginners	2	0	3	3
49	YDF1002	French	2	0	3	3
50	YDI1004	Report Writing in English	2	0	3	3
51	YDIS1001	Spanish for Beginners	2	0	3	3
52	YDIS1002	Spanish	2	0	3	3