

## Jadwal IWE Batch ke-8

\*\*Jadwal berikut merupakan Jadwal Pembelajaran yang akan di-ikuti oleh Pengajar dan Peserta, warna ( ) menunjukkan Materi yang sudah dilalui bersama, dan warna ( , ) menunjukkan Jadwal yang sudah di-fix-kan untuk 14 hari ke depan.

\*\*Jadwal akan selalu di-update (di-fix-kan) dalam setiap tgl 30 (7atau 31) dan 14 (atau 15) setiap bulannya.

--> Sudah		(1JP = 50 minutes)				
Modul	Materi	JP	Time	Date	Days	Lecturer
<b>Modul 1: Welding Process &amp; Equipment</b>						
1	1.01 General Introduction to Welding Technology	3	19.00-21.30	7-Jul	Tuesday	Prof. Dr. Ir. Winarto, M.Sc.
1	1.02 Oxy-gas Welding and Related Processes	2	19.00-20.30	8-Jul	Wednesday	Wahid Muhamad, M.Sc.Eng, Ph.D, IWE
1	1.03 Electrotechnics	1	20.30-21.30	8-Jul	Wednesday	Wahid Muhamad, M.Sc.Eng, Ph.D, IWE
1	1.04 The Arc	3	19.00-21.30	9-Jul	Thursday	Wahid Muhamad, M.Sc.Eng, Ph.D, IWE
1	1.05 Power Sources for Arc Welding	4	08.00-11.20	11-Jul	Saturday	Prof. Dr. Ir. Winarto, M.Sc.
1	1.06 Introduction to Gas Shilded Arc Welding	2	11.30-13.20	11-Jul	Saturday	Fatkhy Baridwan, ST, MT, IWE
1	1.07 TIG Welding	5	08.00-12.30	12-Jul	Sunday	Fatkhy Baridwan, ST, MT, IWE
xx	Sosialisasi Ujian Chapter (IWS-ANB)		12.30-selesai	12-Jul	Sunday	Gusti Ruri Lestari, ST, IWE.
1	1.08.1 MIG/MAG (Part 1)	4	19.00-22.30	14-Jul	Tuesday	Prof. Dr. Ir. Winarto, M.Sc.
1	1.08.1 MIG/MAG (Part 2)	4	19.00-22.30	15-Jul	Wednesday	Prof. Dr. Ir. Winarto, M.Sc.
1	1.08.2 Flux Cored Arc Welding	2	19.00-20.30	16-Jul	Thursday	Prof. Dr. Ir. Winarto, M.Sc.
1	1.09 MMA Welding (part 1)	2	20.50-22.30	16-Jul	Thursday	Prof. Dr. Ir. Winarto, M.Sc.
1	1.09 MMA Welding (part 2)	4	08.00-11.20	18-Jul	Saturday	Prof. Dr. Ir. Winarto, M.Sc.
1	1.10 Submerged-Arc Welding (part 1)	4	11.20-15.30	18-Jul	Saturday	Khoiri Ali, ST. MM. IWE
1	1.10 Submerged-Arc Welding (part 2)	2	08.00-09.40	19-Jul	Sunday	Khoiri Ali, ST. MM. IWE
1	1.11 Resistance Welding (part 1)	6	09.50-15.30	19-Jul	Sunday	Prof. Dr. Ir. Winarto, M.Sc.
<b>Modul 1: Welding Process &amp; Equipment</b>						
1	1.12.1 Laser; Electron Beam; Plasma (Part 1)	4	19.00-22.30	21-Jul	Tuesday	Wahid Muhamad, M.Sc.Eng, Ph.D, IWE
1	1.12.1 Laser; Electron Beam; Plasma (Part 2)	4	19.00-22.30	22-Jul	Wednesday	Wahid Muhamad, M.Sc.Eng, Ph.D, IWE
1	1.12.2 Other Welding Processes (electrode & consumable)	4	19.00-22.30	23-Jul	Thursday	Prof. Dr. Ir. Winarto, M.Sc.
1	1.12.2 Other Welding Processes (electrode & consumable)	2	08.00-09.40	25-Jul	Saturday	Prof. Dr. Ir. Winarto, M.Sc.
1	1.13 Cutting, Drilling and other edge preparation processes	4	09.50-14.20	25-Jul	Saturday	Nova Arief, ST, MT, IWE
1	1.14 Surfacing and Spraying	2	14.40-15.30	25-Jul	Saturday	Nova Arief, ST, MT, IWE
1	1.15 Fully Mechanised Process and Robotic (Part 1)	5	08.00-12.10	26-Jul	Sunday	Nova Arief, ST, MT, IWE
1	1.16 Brazing and Soldering	4	13.00-16.20	26-Jul	Sunday	Wahid Muhamad, M.Sc.Eng, Ph.D, IWE
1	1.17 Joining Processes for Plastics	4	19.00-22.30	28-Jul	Tuesday	Azizah Intan Pangesty, S.Si, M.Eng., D.Eng.
1	1.18 Joining Processes for Ceramics and Composites	2	19.00-20.30	29-Jul	Wednesday	Wahid Muhamad, M.Sc.Eng, Ph.D, IWE
1	1.19 Welding Laboratory (≥ 10 JP)		*Practical activities at the end of the			
1	EXTRA CLASS MODUL I	8	08.00-15.30	1-Aug	Saturday	Yudia Bakti
<b>Total</b>		<b>91</b>				
<b>Modul 2: Materials and their behaviour during welding</b>						
2	2.1 Structure and Properties of Metals	4	08.00-11.20	2-Aug	Sunday	Prof. Dr. Triyono, ST., MT., IWE
2	2.2 Phase Diagrams and Alloys	4	11.20-15.30	2-Aug	Sunday	Prof. Dr. Triyono, ST., MT., IWE
2	2.3 Iron-Carbon Alloys	5	19.00-23.10	4-Aug	Tuesday	Wahid Muhamad, M.Sc.Eng, Ph.D, IWE
2	2.4 Manufacture & Classification of Steels	4	19.00-22.30	5-Aug	Wednesday	Nova Arief, ST, MT, IWE
2	2.5 Behaviour of Structural Steels in Fusion Welding	4	19.00-22.30	6-Aug	Thursday	Prof. Dr. Ir. Winarto, M.Sc.
2	2.6 Cracking Phenomena in Welded Joints (part 1)	4	08.00-11.20	8-Aug	Saturday	Prof. Dr. Triyono, ST., MT., IWE
2	2.6 Cracking Phenomena in Welded Joints (part 2)	4	11.20-15.30	8-Aug	Saturday	Prof. Dr. Triyono, ST., MT., IWE
2	2.7 Fractures and Different Kinds of Fractures	4	08.00-11.20	9-Aug	Sunday	Prof. Dr. Ir. Winarto, M.Sc.
2	2.8 Heat Treatment of Base Materials and Welded Joints	4	11.20-15.30	9-Aug	Sunday	Prof. Dr. Ir. Winarto, M.Sc.
<b>Modul 2: Materials and their behaviour during welding</b>						
2	2.9 Structural (Unalloyed) Steels	4	19.00-22.30	11-Aug	Tuesday	Wahid Muhamad, M.Sc.Eng, Ph.D, IWE
2	2.10 High Strength Steels (Part 1)	4	19.00-22.30	12-Aug	Wednesday	Prof. Dr. Ir. Winarto, M.Sc.
2	2.10 High Strength Steels (Part 2)	6	08.00-13.00	15-Aug	Saturday	Prof. Dr. Ir. Winarto, M.Sc.
2	2.11 Application of Structural and High-Strength Steels	2	13.00-15.30	15-Aug	Saturday	Prof. Dr. Ir. Winarto, M.Sc.
2	2.12 Creep & Creep Resistant Steels	4	08.00-11.20	16-Aug	Sunday	Prof. Dr. Ir. Winarto, M.Sc.
2	2.13 Steels for Cryogenic Applications	4	11.20-15.30	16-Aug	Sunday	Prof. Dr. Ir. Winarto, M.Sc.
2	2.14 Introduction to Corrosion	4	19.00-22.30	18-Aug	Tuesday	Dr.-Ing. Yudha Pratesa, ST, MT
2	2.15 Stainless & Heat Resistant Steel (Part 1)	4	19.00-22.30	19-Aug	Wednesday	Prof. Dr. Ir. Winarto, M.Sc.

2	2.15 Stainless & Heat Resistant Steel (Part 2)	4	19.00-22.30	20-Aug	Thursday	Prof. Dr. Ir. Winarto, M.Sc.
2	2.15 Stainless & Heat Resistant Steel (Part 3)	4	08.00-11.20	22-Aug	Saturday	Prof. Dr. Ir. Winarto, M.Sc.
2	2.16 Introduction to Wear & Protective Layer	5	11.20-16.20	22-Aug	Saturday	Wahid Muhamad, M.Sc.Eng, Ph.D, IWE
2	2.17 Cast Irons and Steels	2	08.00-09.40	23-Aug	Sunday	Timothy Alexander Listiawan, ST, Ph.D
2	2.18 Copper & Copper Alloys	2	09.50-11.20	23-Aug	Sunday	Maya Agustiningrum, ST, Ph.D
2	2.19 Nickel & Nickel Alloys	2	11.30-13.20	23-Aug	Sunday	Wahid Muhamad, M.Sc.Eng, Ph.D, IWE
2	2.20 Aluminium & Aluminium Alloys (Part 1)	4	19.00-22.30	26-Aug	Wednesday	Prof. Dr. Ir. Winarto, M.Sc.
2	2.20 Aluminium & Aluminium Alloys (Part 2)	2	19.00-21.30	27-Aug	Thursday	Prof. Dr. Ir. Winarto, M.Sc.
2	2.21 Titanium & Others Metals Alloys	3	21.30-23.10	27-Aug	Thursday	Dr.-Ing. Reza Miftahul Ulum, S.T., M.T.
2	2.22 Joining Dissimilar Materials	4	08.00-11.20	29-Aug	Saturday	Wahid Muhamad, M.Sc.Eng, Ph.D, IWE
2	2.23 Destructive Testing of Materials and welded joints (part 1) (Tensile tests, Bend tests, Impact tests, Hardness tests)	3	11.30-14.20	29-Aug	Saturday	Dr.-Ing. Reza Miftahul Ulum, S.T., M.T.
2	2.23 Destructive Testing of Materials and welded joints (part 2) (Fatigue tests, Fracture Mechanics, CTOD, Creep tests)	3	08.00-10.30	30-Aug	Sunday	Prof. Dr. Ir. Winarto, M.Sc.
2	2.23 Destructive Testing of Materials and welded joints (part 3) (Corrosion tests, Chemical Analysis, Hydrogen content tests)	3	10.40-13.30	30-Aug	Sunday	Dr.-Ing. Yudha Pratesa, ST, MT
2	2.23 Destructive Testing of Materials and welded joints (part 4) (Metallography sample preparation and examination)	2	13.40-15.30	30-Aug	Sunday	Dr.-Ing. Reza Miftahul Ulum, S.T., M.T.
2	EXTRA CLASS MODUL II	4	19.00-22.30	1-Sep	Tuesday	Yudia Bakti
2	EXTRA CLASS MODUL II	4	19.00-22.30	2-Sep	Wednesday	Yudia Bakti
	<b>Total</b>	<b>108</b>				
	<b>Modul 3: Construction and design</b>					
3	3.1 Basic Theory of Structural Systems	4	08.00-11.20	5-Sep	Saturday	Prof. Dr. Ir. Winarto, M.Sc.
3	3.2 Fundamentals of The Strength of Materials	3	11.20-14.10	5-Sep	Saturday	Prof. Dr. Ir. Winarto, M.Sc.
3	3.2 Fundamentals of The Strength of Materials	3	14.10-16.20	5-Sep	Saturday	Prof. Dr. Ir. Winarto, M.Sc.
3	3.3 Joint Design for Welding & Brazing	4	08.00-11.20	6-Sep	Sunday	Wahid Muhamad, M.Sc.Eng, Ph.D, IWE
3	3.4 Basics of Weld Design (Part 1)	3	11.30-14.40	6-Sep	Sunday	Wahid Muhamad, M.Sc.Eng, Ph.D, IWE
3	3.4 Basics of Weld Design (Part 2)	3	19.00-21.30	8-Sep	Tuesday	Wahid Muhamad, M.Sc.Eng, Ph.D, IWE
3	3.5 Behaviour of Welded Structures Under Different Types of Loading	4	19.00-22.30	9-Sep	Wednesday	Yudia Bakti
3	3.6 Design of Welded Structures with Predominantly Static Loading (part 1)	4	19.00-22.30	10-Sep	Thursday	Yudia Bakti
3	3.6 Design of Welded Structures with Predominantly Static Loading (part 2)	4	08.00-11.20	11-Sep	Friday	Yudia Bakti
3	3.7 Behaviour of Welded Structures Under Cyclic Loading (Part 1)	4	11.20-15.30	12-Sep	Saturday	Muslimin
3	3.7 Behaviour of Welded Structures Under Cyclic Loading (Part 2)	4	08.00-11.20	12-Sep	Saturday	Muslimin
3	3.8 Design of Cyclic Loaded Welded Structures	4	11.20-15.30	13-Sep	Sunday	Prof. Dr. Ir. Winarto, M.Sc.
3	3.8 Design of Cyclic Loaded Welded Structures	4	19.00-22.30	15-Sep	Tuesday	Prof. Dr. Ir. Winarto, M.Sc.
3	3.9 Design of Welded Pressure Equipment (part 1)	3	19.00-21.30	16-Sep	Wednesday	Prof. Dr. Ir. Winarto, M.Sc.
3	3.9 Design of Welded Pressure Equipment (part 2)	3	19.00-21.30	17-Sep	Thursday	Prof. Dr. Ir. Winarto, M.Sc.
3	3.10. Design of Aluminium Alloys Structures	4	08.00-11.20	19-Sep	Saturday	Prof. Dr. Ir. Winarto, M.Sc.
3	3.11 Introduction to Fracture Mechanics	4	11.20-15.30	19-Sep	Saturday	Yudia Bakti
3	Extra Class Module III	8	08.00-15.30	20-Sep	Sunday	Yudia Bakti
	<b>Total</b>	<b>70</b>				
	<b>Modul 4: Fabrication, applications engineering</b>					
4	4.1 Introduction to Quality Assurance in Welded Fabrication (part 1)	4	19.00-23.00	22-Sep	Tuesday	Dipl. -Ing. Iwan Susanto, IWE
4	4.1 Introduction to Quality Assurance in Welded Fabrication (part 2)	4	19.00-23.00	23-Sep	Wednesday	Dipl. -Ing. Iwan Susanto, IWE
4	4.2 Quality Control During Manufacture (part 1) (quality of brazed and welded constructions, brazing and welding sequences, and welding inspection personnel: ISO 14731, ISO 9712, CEN and National standards)	3	19.00-22.00	24-Sep	Thursday	Dipl. -Ing. Iwan Susanto, IWE
4	4.2 Quality Control During Manufacture (part 2) (Brazer and Welder Qualification (ISO 9606, CEN and National Standards)	3	08.00-10.30	26-Sep	Saturday	Dipl. -Ing. Iwan Susanto, IWE
4	4.2 Quality Control During Manufacture (part 3) (Brazing and Welding Procedure Specification: ISO 15607 and 15609, CEN and National Standards, Qualification (ISO 15610, 156111, 15612, 15613 and 15614). CEN and National standards)	3	10.40-13.30	26-Sep	Saturday	Dipl. -Ing. Iwan Susanto, IWE
4	4.2 Quality Control During Manufacture (part 4) (Brazing and Welding Operator Qualification (ISO 14732, CEN and National Standards) and Traceability)	3	13.40-16.20	26-Sep	Saturday	Dipl. -Ing. Iwan Susanto, IWE
4	4.3 Residual Stresses & Distortion	6	08.00-14.00	27-Sep	Sunday	Yudia Bakti
4	4.4 Plant Facilities, Welding Jigs & Fixtures	4	19.00-22.30	29-Sep	Tuesday	Yudia Bakti
4	4.5 Health & Safety	4	19.00-22.30	30-Sep	Wednesday	Prof. Dr. Ir. Winarto, M.Sc.
4	4.6 Measurement Control & Recording in Welding	4	19.00-22.30	1-Oct	Thursday	Prof. Dr. Ir. Winarto, M.Sc.
4	4.7 Imperfections & Acceptance Criteria	4	08.00-11.20	3-Oct	Saturday	Yudia Bakti
4	4.8 Non Destructive Testing (part 1) (VT, MT/PT, Eddy current, acoustic emission, RT, digital RT, UT, etc)	4	11.20-15.30	3-Oct	Saturday	Arie Wijaya, ST, MT

4	4.8 Non Destructive Testing (part 2) (NDT design, calibration, interpretation, CEN/TR 15135, personnel qualification EN ISO 9712)	4	08.00-11.20	4-Oct	Sunday	Arie Wijaya, ST, MT
4	4.9 Economic & Productivity	4	11.20-15.30	4-Oct	Sunday	Prof. Dr. Ir. Winarto, M.Sc.
4	4.9 Economic & Productivity	4	19.00-22.30	6-Oct	Tuesday	Prof. Dr. Ir. Winarto, M.Sc.
4	4.10 Repair Welding	4	19.00-22.30	7-Oct	Wednesday	Yudia Bakti
<b>Modul 4: Fabrication, applications engineering</b>						
4	4.11 Reinforcing-Steel Welded Joints	3	19.00-21.40	8-Oct	Thursday	Prof. Dr. Ir. Winarto, M.Sc.
4	4.12.1 Case Studies	4	08.00-11.20	10-Oct	Saturday	Wahid Muhamad, M.Sc.Eng, Ph.D, IWE
4	4.12.1 Case Studies	4	11.20-15.30	10-Oct	Saturday	Fatkhy Baridwan, ST, MT, IWE
4	4.12.1 Case Studies	8	08.00-15.30	11-Oct	Sunday	Prof. Dr. Ir. Winarto, M.Sc.
4	4.12.1 Case Studies	4	19.00-22.30	13-Oct	Tuesday	Prof. Dr. Ir. Winarto, M.Sc.
4	4.12.1 Case Studies	4	19.00-22.30	14-Oct	Wednesday	Dr.-Ing. Yudha Pratesa, ST, MT
4	4.12.1 Case Studies	4	19.00-22.30	15-Oct	Thursday	Suryadi, ST, MT
4	4.12.1 Case Studies	4	08.00-11.20	17-Oct	Saturday	Prof. Dr. Ir. Winarto, M.Sc.
4	4.12.1 Case Studies	4	11.20-15.30	17-Oct	Saturday	Yudia Bakti
4	4.12.1 Case Studies	8	08.00-15.00	18-Oct	Sunday	Yudia Bakti
4	Extra Class Module IV	4	19.00-22.30	20-Oct	Tuesday	Yudia Bakti
4	Extra Class Module IV	4	19.00-22.30	21-Oct	Wednesday	Yudia Bakti
<b>Total</b>		<b>113</b>				
<b>1.19 Welding Laboratory (≥ 10 JP)</b>						
offline	Welding Laboratory (intro)	8	08.00-16.00	30-Oct	Friday	Achmad Ashari dan Tim
offline	Praktik Welding Oxygas Welding and cutting	8	08.00-16.00	31-Oct	Saturday	Achmad Ashari dan Tim
offline	Praktik Welding MMA	8	08.00-16.00	1-Nov	Sunday	Achmad Ashari dan Tim
offline	Praktik Welding TIG	8	08.00-16.00	2-Nov	Monday	Achmad Ashari dan Tim
offline	Praktik Welding GMAW	8	08.00-16.00	3-Nov	Tuesday	Achmad Ashari dan Tim
offline	Praktik Welding FCAW	8	08.00-16.00	4-Nov	Wednesday	Achmad Ashari dan Tim
offline	Kunjungan Industri	10	08.00-16.00	5-Nov	Thursday	Panitia WIRC FTUI
offline	Destructive Testing of Materials and welded joints	8	08.00-16.00	6-Nov	Friday	Achmad Ashari dan Tim
offline	Non Destructive Test	8	08.00-16.00	7-Nov	Saturday	Achmad Ashari dan Tim
offline	Latihan Examination	8	08.00-16.00	8-Nov	Sunday	Achmad Ashari dan Tim
offline	Latihan Examination	8	08.00-16.00	9-Nov	Monday	Achmad Ashari dan Tim
offline	IWS-ANB Examination		08.00-16.00	10-Nov	Tuesday	IWS-ANB
offline	Harmonized IIW		08.00-16.00	11-Nov	Wednesday	IWS-ANB
offline	Oral Test		08.00-16.00	12-Nov	Thursday	IWS-ANB
offline	Oral Test		08.00-16.00	13-Nov	Friday	IWS-ANB