## MOE and Short Courses (Jan to Jun 2024)

S/N   Course Start Dates		Short Courses		
2 AutoCAD 2D - Intermediate - 21 3 Advanced Manufacturing (4.0) Learning Journey 1st Mar 7 4 Advanced Manufacturing Lead - AMLead 12th May 40 5 Advanced Power BI for Business Intelligence and Data Analytics with Visualizations* 16 6 Advanced Revit MEP Modelling - 28 7 Application of Robotics 8 8 Applying Lean - Identifying and Quantifying Bottlenecks with TAKT* - 24 9 AutoCAD 2020 Basics (2D & 3D) 4th Mar, 1st Apr, 15th Apr, 16th Apr 10 Autodesk Navisworks for MEP BIM Project Collaboration - 30 11 Automated Data Analysis and Visualization in Excel with Python* - 16 12 Autonomous Mobile Robots (AMR) Implementation and Applications - 16 13 Basic manual wheelchair maintenance - 40 14 Computational BIM for MEP Projects using Revit Dynamo - 30 15 Data-driven Connected Hydraulics in Advanced Manufacturing* - 16 16 Discover Fusion 360 (Basics)* - 24 17 Embarking Industry 4.0 with LEAN - Value-Stream Mapping - 24 18 Essentials of 3D Modelling and Drawing with Autodesk Inventor - 24 19 Essentials of Basic Networking, Database and Web Applications for Advanced Manufacturing* - 7 21 Experiential Pilot Training with Flight Simulator 29th Jan, 26th Feb 32 22 Growing Your Own Hydroponics Edibles* - 7 23 Human Factors for Aviation Maintenance* - 45 14.0 Learning Journey with SiRI - 7 24 Industry 4.0 for Advanced Manufacturing with Industry Application* - 8 25 Industry 4.0 for Advanced Manufacturing with Industry Application* - 8 26 Industry 4.0 for Advanced Manufacturing with Industry Application* - 8 27 Industry Specialist AHK i4.0* - 80 28 Introduction to Open Platform Communications Unified Architecture (OPC UA)* - 8 29 Introduction to Structural Simulations using Solidors Simulations 4th Mar 26 30 Machine Learning Using ChatGPT for Manufacturing Industry* - 16	S/N	Course Titles	Course start Dates	Duration (hrs)
Advanced Manufacturing (i4.0) Learning Journey  Advanced Manufacturing Lead - AMLead  Advanced Manufacturing Lead - AMLead  Advanced Manufacturing Lead - AMLead  Advanced Power BI for Business Intelligence and Data Analytics with Visualizations'  Advanced Revit MEP Modelling  Advanced Revit MEP Modelling  Application of Robotics  Application of Robotics  Applying Lean - Identifying and Quantifying Bottlenecks with TAKT'  - 24  AutoCAD 2020 Basics (2D & 3D)  Autodesk Navisworks for MEP BIM Project Collaboration  Autodesk Navisworks for MEP BIM Project Collaboration  Autonomous Mobile Robots (AMR) Implementation and Applications  Autonomous Mobile Robots (AMR) Implementation and Applications  Basic manual wheelchair maintenance  - 40  Computational BIM for MEP Projects using Revit Dynamo  Data-driven Connected Hydraulics in Advanced Manufacturing*  - 16  Discover Fusion 360 (Basics)  Embarking Industry 4.0 with LEAN - Value-Stream Mapping  - 24  Essentials of Basic Networking, Database and Web Applications for Advanced Manufacturing*  Essentials of Sasic Networking, Database and Web Applications for Advanced Manufacturing*  Essentials of Gomputer-Aided Manufacturing Using SolidCAM  Experiential Pilot Training with Flight Simulator  Advanced Manufacturing*  Thuman Factors for Aviation Maintenance  45  Human Factors for Aviation Maintenance  46  Human Factors for Aviation Maintenance  47  Human Factors for Aviation Maintenance  48  Human Factors for Aviation Maintenance  49  Human Factors for Aviation Maintenance  40  Experiential Pilot Training with Flight Simulator  40  Experiential Pilot Training with Flight Simulator  40  Experiential Pilot Training with Flight Simulator  45  Human Factors for Aviation Mainte	1	Additive Manufacturing Professional Certificate Course	15th April	56
4 Advanced Manufacturing Lead – AMLead 5 Vasualizations	2	AutoCAD 2D - Intermediate	-	21
Advanced Power Bil for Business Intelligence and Data Analytics with Visualizations'  Advanced Revit MEP Modelling  Advanced Revit MEP Modelling  Application of Robotics  Applying Lean - Identifying and Quantifying Bottlenecks with TAKT'  AutoCAD 2020 Basics (2D & 3D)  Autodesk Navisworks for MEP BIM Project Collaboration  Automated Data Analysis and Visualization in Excel with Python'  Autonomous Mobile Robots (AMR) Implementation and Applications  Computational BIM for MEP Projects using Revit Dynamo  Data-driven Connected Hydraulics in Advanced Manufacturing*  Data-driven Connected Hydraulics in Advanced Manufacturing*  Embarking Industry 4.0 with LEAN - Value-Stream Mapping  Essentials of Basic Networking, Database and Web Applications for Advanced  Manufacturing*  Essentials of Basic Networking, Database and Web Applications for Advanced  Manufacturing*  Essentials of Computer-Aided Manufacturing Using SolidCAM  Experiential Pilot Training with Flight Simulator  Experiential Pilot Training with Flight Simulator  Experiential Pilot Training with Flight Simulator  Human Factors for Aviation Maintenance'  45 Human Factors for Aviation Maintenance'  46 Industry 4.0 for Advanced Manufacturing with Industry Application*  Implementing Automation Technologies in Smart Factory*  Implementing Automation Technologies in Smart	3	Advanced Manufacturing (i4.0) Learning Journey	1st Mar	7
5 Visualizations* 6 Advanced Revit MEP Modelling 7 Application of Robotics 8 Applying Lean – Identifying and Quantifying Bottlenecks with TAKT* 9 AutoCAD 2020 Basics (2D & 3D) 4th Mar, 1st Apr, 15th Apr, 16th Apr 10 Autodesk Navisworks for MEP BIM Project Collaboration 11 Automated Data Analysis and Visualization in Excel with Python* 12 Autonomous Mobile Robots (AMR) Implementation and Applications 13 Basic manual wheelchair maintenance 14 Computational BIM for MEP Projects using Revit Dynamo 15 Data-driven Connected Hydraulics in Advanced Manufacturing* 16 Discover Fusion 360 (Basics)* 17 Embarking Industry 4.0 with LEAN - Value-Stream Mapping 18 Essentials of Basic Networking, Database and Web Applications for Advanced 19 Manufacturing* 20 Essentials of Computer-Aided Manufacturing Using SolidCAM 21 Experiential Pilot Training with Flight Simulator 22 Growing Your Own Hydroponics Edibles* 23 Human Factors for Aviation Maintenance* 24 IA.0 Learning Journey with SIRI 25 Implementing Automation Technologies in Smart Factory* 26 Industry 4.0 for Advanced Manufacturing with Industry Application* 27 Implementing Automation Technologies in Smart Factory* 28 Introduction to Open Pilatform Communications Uniffed Architecture (OPC UA)* 29 Introduction to Structural Simulations using Solidworks Simulations 40 Machine Condition Monitoring Using Python Open Platform Communications (Node-RED)* 41 Machine Learning Dusing ChatGPT for Manufacturing Industry* 42 Machine Learning Dusing ChatGPT for Manufacturing Industry* 42 Machine Learning Dusing ChatGPT for Manufacturing Industry*	4	Advanced Manufacturing Lead - AMLead	12th May	40
Application of Robotics  Applying Lean – Identifying and Quantifying Bottlenecks with TAKT^	5	· · · · · · · · · · · · · · · · · · ·	-	16
8 Applying Lean – Identifying and Quantifying Bottlenecks with TAKT^ - 24  9 AutoCAD 2020 Basics (2D & 3D) 4th Mar, 1st Apr, 15th Apr, 16th Apr 36  10 Autodesk Navisworks for MEP BIM Project Collaboration - 30  11 Automated Data Analysis and Visualization in Excel with Python^ - 16  12 Autonomous Mobile Robots (AMR) Implementation and Applications - 16  13 Basic manual wheelchair maintenance - 40  14 Computational BIM for MEP Projects using Revit Dynamo - 30  15 Data-driven Connected Hydraulics in Advanced Manufacturing* - 16  16 Discover Fusion 360 (Basics)^ - 24  17 Embarking Industry 4.0 with LEAN - Value-Stream Mapping - 24  18 Essentials of 3D Modelling and Drawing with Autodesk Inventor - 24  19 Essentials of Basic Networking, Database and Web Applications for Advanced Manufacturing* - 25th Sep 8  20 Essentials of Computer-Aided Manufacturing Using SolidCAM - 40  21 Experiential Pilot Training with Flight Simulator 29th Jan, 26th Feb 32  22 Growing Your Own Hydroponics Edibles^ - 7  23 Human Factors for Advanced Manufacturing with Industry Application* - 45  14.0 Learning Journey with SIRI - 7  25 Implementing Automation Technologies in Smart Factory* - 16  16 Industry 4.0 for Advanced Manufacturing with Industry Application* - 80  18 Introduction to Open Platform Communications Unified Architecture (OPC UA)* - 8  29 Introduction to Open Platform Communications Unified Architecture (OPC UA)* - 8  20 Machine Condition Monitoring Using Python Open Platform Communication - 24  24 ReD)^ Machine Learning Using ChatGPT for Manufacturing Industry^ - 16	6	Advanced Revit MEP Modelling	-	28
9 AutoCAD 2020 Basics (2D & 3D) 4th Mar, 1st Apr, 15th Apr, 16th Apr 10 Autodesk Navisworks for MEP BIM Project Collaboration 11 Automated Data Analysis and Visualization in Excel with Python^ - 16 12 Autonomous Mobile Robots (AMR) Implementation and Applications 13 Basic manual wheelchair maintenance - 40 14 Computational BIM for MEP Projects using Revit Dynamo - 30 15 Data-driven Connected Hydraulics in Advanced Manufacturing* - 16 16 Discover Fusion 360 (Basics)^ - 24 17 Embarking Industry 4.0 with LEAN - Value-Stream Mapping - 24 18 Essentials of 3D Modelling and Drawing with Autodesk Inventor - 24 19 Essentials of Basic Networking, Database and Web Applications for Advanced Manufacturing* 20 Essentials of Computer-Aided Manufacturing Using SolidCAM - 40 21 Experiential Pilot Training with Flight Simulator 29th Jan, 26th Feb 32 22 Growing Your Own Hydroponics Edibles^ - 7 23 Human Factors for Aviation Maintenance^ - 45 24 I4.0 Learning Journey with SIRI - 7 25 Implementing Automation Technologies in Smart Factory* - 16 16 Industry Specialist AHK I4.0* - 80 28 Introduction to Open Platform Communications Unified Architecture (OPC UA)* - 8 29 Introduction to Structural Simulations using Solidworks Simulations 4th Mar 26 30 Machine Condition Monitoring Using Python Open Platform Communication (OPC) 31 Machine Condition Monitoring Using Python Open Platform Communication - 24 32 Machine Learning Using ChatGPT for Manufacturing Industry^ - 16	7	Application of Robotics	-	8
Apr, 16th Apr  Apr  Apr, 16th Apr  Apr, 16th Apr  Apr  Apr, 16th Apr  Apr  Apr, 16th Apr  Apr, 16th Apr  Apr  Apr  Apr, 16th Apr  Apr  Apr, 16th Apr  Apr  Apr, 16th Apr  Apr  Apr  Apr  Apr, 16th Apr  Apr  Apr  Apr  Apr  Apr  Apr  Apr	8	Applying Lean – Identifying and Quantifying Bottlenecks with TAKT^	-	24
Automated Data Analysis and Visualization in Excel with Python^ - 16  12 Autonomous Mobile Robots (AMR) Implementation and Applications - 16  13 Basic manual wheelchair maintenance - 40  14 Computational BIM for MEP Projects using Revit Dynamo - 30  15 Data-driven Connected Hydraulics in Advanced Manufacturing* - 16  16 Discover Fusion 360 (Basics)^ - 24  17 Embarking Industry 4.0 with LEAN - Value-Stream Mapping - 24  18 Essentials of 3D Modelling and Drawing with Autodesk Inventor - 24  19 Essentials of Basic Networking, Database and Web Applications for Advanced Manufacturing* 25th Sep 8  20 Essentials of Computer-Aided Manufacturing Using SolidCAM - 40  21 Experiential Pilot Training with Flight Simulator 29th Jan, 26th Feb 32  22 Growing Your Own Hydroponics Edibles^ 7  23 Human Factors for Aviation Maintenance^ - 45  14.0 Learning Journey with SIRI - 7  25 Implementing Automation Technologies in Smart Factory* - 16  16 Industry 4.0 for Advanced Manufacturing with Industry Application* - 80  28 Introduction to Open Platform Communications Unified Architecture (OPC UA)* - 80  Machine Condition Monitoring Using Python Open Platform Communication - 24  Machine Condition Monitoring Using Python Open Platform Communication (OPC)  Machine Condition Monitoring Using Python Open Platform Communication (Node-RED)^ - 16	9	AutoCAD 2020 Basics (2D & 3D)		36
Autonomous Mobile Robots (AMR) Implementation and Applications  - 16  13 Basic manual wheelchair maintenance - 40  14 Computational BIM for MEP Projects using Revit Dynamo - 30  15 Data-driven Connected Hydraulics in Advanced Manufacturing* - 16  16 Discover Fusion 360 (Basics)^ - 24  17 Embarking Industry 4.0 with LEAN - Value-Stream Mapping - 24  18 Essentials of 3D Modelling and Drawing with Autodesk Inventor - 24  19 Essentials of Basic Networking, Database and Web Applications for Advanced Manufacturing*  20 Essentials of Computer-Aided Manufacturing Using SolidCAM - 40  21 Experiential Pilot Training with Flight Simulator 22 Growing Your Own Hydroponics Edibles^ - 7  23 Human Factors for Aviation Maintenance^ - 45  45  46 Industry 4.0 for Advanced Manufacturing with Industry Application* - 80  18 Introduction to Open Platform Communications Unified Architecture (OPC UA)*  30  40 Machine Condition Monitoring Using Python Open Platform Communication (OPC)  31 Machine Condition Monitoring Using Python Open Platform Communication Achine Condition Monitoring Using Python Open Platform Communication RED)^  42 Machine Learning Using ChatGPT for Manufacturing Industry^ - 16	10	Autodesk Navisworks for MEP BIM Project Collaboration	-	30
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Essentials of 3D Modelling and Drawing with Autodesk Inventor - 24  Essentials of Basic Networking, Database and Web Applications for Advanced Manufacturing*  Essentials of Computer-Aided Manufacturing Using SolidCAM - 40  Esperiential Pilot Training with Flight Simulator 29th Jan, 26th Feb 32  Growing Your Own Hydroponics Edibles^ - 7  Human Factors for Aviation Maintenance^ - 45  IA.O Learning Journey with SIRI - 7  Implementing Automation Technologies in Smart Factory* - 16  Industry 4.0 for Advanced Manufacturing with Industry Application* - 80  Introduction to Open Platform Communications Unified Architecture (OPC UA)* - 80  Introduction to Structural Simulations using Solidworks Simulations 4th Mar 26  Machine Condition Monitoring Using Python Open Platform Communication (OPC)  Machine Monitoring Dashboard With Node-Rules Engine and Dataflow (Node-RED)^ - 16	16	Discover Fusion 360 (Basics) <sup>^</sup>	-	24
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Manufacturing*  20 Essentials of Computer-Aided Manufacturing Using SolidCAM  21 Experiential Pilot Training with Flight Simulator  22 Growing Your Own Hydroponics Edibles^  23 Human Factors for Aviation Maintenance^  24 I4.0 Learning Journey with SIRI  25 Implementing Automation Technologies in Smart Factory*  26 Industry 4.0 for Advanced Manufacturing with Industry Application*  27 Industry Specialist AHK i4.0*  28 Introduction to Open Platform Communications Unified Architecture (OPC UA)*  29 Introduction to Structural Simulations using Solidworks Simulations  4th Mar  26  30 Machine Condition Monitoring Using Python Open Platform Communication (OPC)  31 Machine Monitoring Dashboard With Node-Rules Engine and Dataflow (Node-RED)^  32 Machine Learning Using ChatGPT for Manufacturing Industry^  - 16	18	Essentials of 3D Modelling and Drawing with Autodesk Inventor	-	24
21 Experiential Pilot Training with Flight Simulator 22 Growing Your Own Hydroponics Edibles^ 23 Human Factors for Aviation Maintenance^ 24 I4.0 Learning Journey with SIRI 25 Implementing Automation Technologies in Smart Factory* 26 Industry 4.0 for Advanced Manufacturing with Industry Application* 27 Industry Specialist AHK i4.0* 28 Introduction to Open Platform Communications Unified Architecture (OPC UA)* 29 Introduction to Structural Simulations using Solidworks Simulations 4th Mar 26 30 Machine Condition Monitoring Using Python Open Platform Communication (OPC) 31 Machine Monitoring Dashboard With Node-Rules Engine and Dataflow (Node-RED)^ 32 Machine Learning Using ChatGPT for Manufacturing Industry^ - 16	19		25th Sep	8
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24       I4.0 Learning Journey with SIRI       -       7         25       Implementing Automation Technologies in Smart Factory*       -       16         26       Industry 4.0 for Advanced Manufacturing with Industry Application*       -       8         27       Industry Specialist AHK i4.0*       -       80         28       Introduction to Open Platform Communications Unified Architecture (OPC UA)*       -       8         29       Introduction to Structural Simulations using Solidworks Simulations       4th Mar       26         30       Machine Condition Monitoring Using Python Open Platform Communication (OPC)       -       24         31       Machine Monitoring Dashboard With Node-Rules Engine and Dataflow (Node-RED)^       10th June "       24         32       Machine Learning Using ChatGPT for Manufacturing Industry^       -       16	22	Growing Your Own Hydroponics Edibles^	-	7
Implementing Automation Technologies in Smart Factory*  Industry 4.0 for Advanced Manufacturing with Industry Application*  Industry Specialist AHK i4.0*  Introduction to Open Platform Communications Unified Architecture (OPC UA)*  Introduction to Structural Simulations using Solidworks Simulations  Introduction to Structural Simulations using Solidworks Simulations  Machine Condition Monitoring Using Python Open Platform Communication (OPC)  Machine Monitoring Dashboard With Node-Rules Engine and Dataflow (Node-RED)^  Machine Learning Using ChatGPT for Manufacturing Industry^  - 16	23	Human Factors for Aviation Maintenance^	-	45
26       Industry 4.0 for Advanced Manufacturing with Industry Application*       -       8         27       Industry Specialist AHK i4.0*       -       80         28       Introduction to Open Platform Communications Unified Architecture (OPC UA)*       -       8         29       Introduction to Structural Simulations using Solidworks Simulations       4th Mar       26         30       Machine Condition Monitoring Using Python Open Platform Communication (OPC)       -       24         31       Machine Monitoring Dashboard With Node-Rules Engine and Dataflow (Node-RED)^       10th June "       24         32       Machine Learning Using ChatGPT for Manufacturing Industry^       -       16	24	I4.0 Learning Journey with SIRI	-	7
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Introduction to Open Platform Communications Unified Architecture (OPC UA)*  Introduction to Structural Simulations using Solidworks Simulations  4th Mar  26  Machine Condition Monitoring Using Python Open Platform Communication (OPC)  Machine Monitoring Dashboard With Node-Rules Engine and Dataflow (Node-RED)^  Machine Learning Using ChatGPT for Manufacturing Industry^  - 16	26	Industry 4.0 for Advanced Manufacturing with Industry Application*	-	8
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Machine Condition Monitoring Using Python Open Platform Communication  OPC)  Machine Monitoring Dashboard With Node-Rules Engine and Dataflow (Node-RED)^  Machine Learning Using ChatGPT for Manufacturing Industry^  - 16	28	Introduction to Open Platform Communications Unified Architecture (OPC UA)*	-	8
30 (OPC) 24  31 Machine Monitoring Dashboard With Node-Rules Engine and Dataflow (Node-RED)^ 10th June " 24  32 Machine Learning Using ChatGPT for Manufacturing Industry^ - 16	29	Introduction to Structural Simulations using Solidworks Simulations	4th Mar	26
RED)^ 10th June 24  32 Machine Learning Using ChatGPT for Manufacturing Industry^ - 16	30		-	24
	31		10th June "	24
33 Practical Applications of Condition Monitoring for Industry 4.0* - 24	32	Machine Learning Using ChatGPT for Manufacturing Industry^	-	16
	33	Practical Applications of Condition Monitoring for Industry 4.0*	-	24

## Official (Open)

	Short Courses			
S/N	Course Titles		Course start Dates	Duration (hrs)
34	Practical approach of open software controllers in advanced man	ufacturing*	-	16
35	Private Pilot License Ground School Training Course (Introduction	)	5th Feb, 18th Mar	36
36	Revit MEP Modelling		-	40
37	SolidWorks – 3D Modelling and Drawing		19th Feb	32
38	SolidWorks: Sheet Metal and Weld structures		9th April "	32
39	STAR for Additive Manufacturing		-	80
40	Structural Analysis using ANSYS FEA for Engineering Applications		-	24
41	Vibration Analysis using ANSYS FEA and Vibration Measurement f Engineering Applications	or	-	16
	* In collaboration with Bosch Rexroth ^ New courses launched/to be launched this year " Tentative dates	rexroth A Bosch Company		For more informa
	For any enquires or corporate runs, please contact:  Dr Lim Chee Kian (Lim_Chee_Kian@sp.edu.sg)			
	DI LIIII OHEE MAH (LIIII_OHEE_MAH@Sp.euu.Sg)			

Lim Chun Wheng (<u>Lim Chun Wheng@sp.edu.sg</u>)



S/N	Course Titles	Course start Dates	Duration
1	Diploma in Engineering (Advanced Manufacturing)		2.5 years
2	Diploma in Engineering (Aerospace)		2.5 years
3	Diploma in Engineering (Mechanical Technology)		2.5 years
4	Diploma in Engineering (Mechanical- Rapid Transit Technology)		2.5 years
5	Specialist Diploma in Air-Conditioning & Energy Sustainability		1 year
6	Specialist Diploma in Aviation Management (Air Cargo)	April and	1 year
7	Specialist Diploma In Robotics & Automation (Advanced Robotics Application)	October every year	1 year
8	Work-Study Certificates leading to Diploma in Engineering (Mechanical – Rapid Transit Technology)		18 months
9	Work-Study Certificates leading to Diploma in Engineering (Advanced Manufacturing)		12 months
10	Work-Study Certificates leading to Diploma in Engineering (Aerospace)		12 months
	For any enquires or corporate runs, please contact:	For	more inform
	Dr Lim Chee Kian ( <u>Lim Chee Kian@sp.edu.sg</u> )		黑癜
	Lim Chun Wheng ( <u>Lim_Chun_Wheng@sp.edu.sg</u> )		33076