School of Information Technology
Mae Fah Luang University
Program: Bachelor program in Computer Engineering   Academic Year: 2022 – 2023??

Year: 2nd year Semester: 2 Credit: 3 (2 Hours Lab 2 Hours per week) 60 hours in total

Course code: …1501221…….. Course Title: Embedded System and Internet of Things…

Number of students:…….
By signing this document, I confirm that I'm a regular student registered in this course, and I have completed the lesson of this course in the academic year.
Attendance List

Instructor: Name …………………………………Surname …………………………………………

Student ID	Name – Surname	Signature
6431501081	Patcharaphon Ladkhew	Phatchaxaphon
6431501022	Sunship Denys	Surthike
6431501016	Chanathip Chaicharoen	Chanathip
6431501040	Tanapat Boonmesuwan	Tanapat
6431501017	Chomphunut Phontai	Chomphunut
6431501056	Nitid Lauhasuwannarat	Nitid
6431501054	Nathan Boonkan	Nathan
6431501102	Worawut Khunnoi	worawut
6431501049	Nathikan Chanwaing	Nathikan
6431501059	Buachompoo Yutthatepa	Buachompoo
6431501032	Nattawat Seayoo	Nattawat
6431501013	Junrapong Borin	Junrapong
6431501112	Wisaruta Uengtrakun	Wisaruta
6431501139	Patipon Anawan	Patipon
6431501104	Waraphorn Huangsaboot	Waraphorn.
6431501132	Natthawut Sinnamkham	Natthawut
6431501117	Suphanat Wiramitsrichai	Suphanat
6431501097	Rawitsara Ounwiang	Rawitsara
6431501080	Phatcharapong sungpanta	Phatcharapong
6431501135	Tiptawan Kansuwan	Tiptawan
6431501118	Suphapol Wongsawat	Suphapol

Instructor: …………………………Date…………………………………………Signature

Number of students:.......
By signing this document, I confirm that I'm a regular student registered in this course, and I have completed the lesson of this course in the academic year.
Attendance List

Instructor: Name …………………………………Surname …………………………………………

Student ID	Name – Surname	Signature
6431501119	Sertthapong Kongman	Sertthapong
6431501116	Supakorn Sangam	Supakorn
6431501012	Chirarat Poonpuang	Chirarut
6431501141	Paratea Patcharareevarat	Paratee
6431501089	Ponchanols Fongjaivan	Panchanols
6431501172	Ponchanols Fongjaiyan	Pang
6431501171	Paing Phyo Su	𝒫𝒻.
6431501077	May Hlet Hlet Khine	Pannisa
6431501173	Phyo Thura	Bm
6431501174	Salai David Poi Hlan	avid
6431501064	Panawat Chankhiao	ปวรเวียว
6431501048	Nakared Tumthong	นคเรศ
6431501111	Viripon Thepthongpoon	วิริยพล
6431501042	Thanawat Sanosiang	ธนาวน์
6431501044	Thanamwan Khwanthongyen	ธนมวรรณ
6431501043	Thanawit Senajumnong	ธนวิทร์
6431501028	Natdanai Jirapatanapong	ณัฐดนัย
6431501078	Pornsawan Lamsan	พรสวรรค์
6431501063	Porramet Chantaphin	ปรเมษ
6431501033	Natthawat Aupawong	Natthawat
6431501006	Kankavee Tharasook	KanKavee
6431501039	Thanapol Nonthabut	Thanapol
6431501051	Noppadol deeloun	Noppadol
6431501024	Yarida Fuangfoo	Yarida
6431501075	Pornnapha Naphirot	Pornnapha
6431501020	Chuliporn Tettarat	Chuliporn
6431501045	Thammarak Thongwong	thammarak
6431501005	Kasidit Chaikunrat	kasidit
6431501076	Pornpiphat Phathanakit	พรพิพัฒน์

Instructor: …………………………Date……………………………………Signature

Number of students:…….
By signing this document, I confirm that I'm a regular student registered in this course, and I have completed the lesson of this course in the academic year.
Attendance List

Instructor: Name ………………………………………Surname …………………………………………

Student ID	Name – Surname	Signature
6431501108	Wanchai Walingta	
6431501041	Thanawat Leekliang	
6431501070	Piyarak Techaprasertkul	
6431501082	Patcharawit Kerdsuk	
6431501112	Siraphob Phattaart	
6431501105	Watcharapol Suphasri	
6431501072	Piemhathai Prasert	
6431501114	Weerapat Chaifong	
6431501071	Piyawat Pantha	
6431501066	Pranita Sawaengha	
6431501085	Peeranut Phitakham	
6431501126	Anon Klaiklaung	
6431501100	Wachirarat Pukanad	
6431501124	Oraphan Poolrak	
6431501096	Muhammadasree Jaisiltham	
6431501018	Chonthicha Prasombun	
6431501008	Kantima sanyaporn	
6431501002	Kamonluk Majeam	
6431501057	Nipapohn Tumwong	
6431501034	Nichakamon Kiddee	
6431501030	Natchapat Netdee	
6431501159	Nontawat Thongkam	
641501052	Napatsawan Ngaongam	
6431501014	Jenjira Jittayasothon	
6431501084	Priyakorn Chonpattanapaisan	
6431501083	Patcharaporn Samas	
6431501110	Viramon Kongthong	
6431501091	Pavinee Seehapanya	
6431501166	Siriwat Numnuea	
6431501140	Panchaya Rueangsri	
6431501095	Manlika Chaiwong	
6431501150	Sorawit Sritichai	
6431501	Kritchanat Nitiparityanuwat	

Instructor: ……………………………Date……………………………………………Signature

Number of students:…….
By signing this document, I confirm that I'm a regular student registered in this course, and I have completed the lesson of this course in the academic year.
Attendance List

Instructor: Name …………………………………Surname …………………………………………

Student ID	Name – Surname	Signature
6431501067	Pawanrat Trikanchob	ปวันรักน์
6431501107	Watcharin Sopanri	วัชรินทร์
6431501053	Napatsron Namsue	นภัสสร
6431501149	Saranyathron Onbannasin	ศัโนชร
6431501029	Nattiga Tumthong	ณัฐธิกา
6431501152	Sunisa Jansai	สุนิสา
6431501051	Noppadol Deeloum	นพดล
6431501027	Nuttaphon Keawarsa	ณัฐวุฒิ
6431501088	Phutthachat Ninnarat	บุทิรัตน์
6431501046	Tanwalai Niumsawan	ธนวไล
6431501154	Sopon Jaiyong	โสภณ
6431501093	Phuwadech Promlas	ภูวดัย
6431501127	Aekbodin Sarakool	เอกบดินทร์
6431501151	Sahapap Koonkhai	สหภาพ
6431501058	Naraina seng	นรัยยาภ
6431501090	Phakorn Charoenthiphakorn	ภากร
6431501123	Suttipong Raipong	สุทธิพงษ์
6431501019	Chalita Khrueangsakun	ชลิตา
6431501	Nopthira Srisanam	นพธีรา
6431501	Thannabool Srikoh	ธนบูรณ์
6431501	Poramet Kaewlangka	ปเมศร์
6431501	Khunkao Wanakan	ขุนเขา
6431501070	Piyarals Techaprasertkul	Piyarak

Instructor: ……………………………Date…………………………………………Signature

10. Please share any additional comments or feedback regarding the course on industry 4.0, PLC, and automation.

○ A. Comprehensive Coverage The course provided a comprehensive overview of Industry 4.0, PLC, and automation, covering all the key areas effectively.

○ B. Needs More Depth While the course was informative, it needs to delve deeper into certain complex topics to provide a more thorough understanding.

○ C. Well-Structured The course was well-structured and organized.

○ D. Great for Beginners This course is excellent for beginners, offering a solid foundation in the basics of Industry 4.0, PLC, and automation.

Submit

Course Survey summary (Embedded Systems and IoT)

Pre-Course Survey Summary (108 Students):

Familiarity with Embedded Systems and IoT:
Majority had basic to moderate knowledge, with a few having advanced proficiency and some with no familiarity.

Formal Training:
A significant portion of students had not received any formal training or education in these areas.

Expectations:
Students were looking to gain a comprehensive understanding of Embedded Systems and IoT, hands-on skills in programming, insights into implementation, and preparation for leadership roles.

Impact on Career:
Students anticipated that knowledge in these fields would lead to enhanced job opportunities, skill advancement, and leadership roles in technological transformation.

Comfort with Technology:

The comfort level varied, with a general trend towards moderate to very comfortable in using technology and software tools.

Focus Areas:

Interests were broad, including robotics, data analytics, cybersecurity, and process optimization.

Anticipated Challenges:

Concerns were raised about technical complexity, applying theory to practical situations, keeping up with rapid advancements, and integrating interdisciplinary knowledge.

Post-Course Survey Summary (130 students):

Familiarity with Embedded Systems and IoT:

Post-course responses indicated an overall increase in familiarity, with most students reporting moderate to advanced proficiency.

Course Content Satisfaction:

The majority rated the course content positively, stating it met or exceeded expectations.

Valuable Skills and Knowledge:

Skills in advanced automation technologies, data analytics, cybersecurity, and IoT integration were found most valuable.

Career Preparation:

Students felt significantly to thoroughly prepared for career opportunities related to the subject.

Confidence in Applying Concepts:

Confidence levels were generally high, with students feeling somewhat to very confident in applying what they learned.

Encountered Challenges:

Some students still struggled with technical complexity and the application of theory, but fewer reported significant challenges.

Overall Course Quality:

The overall quality of the course was rated highly, with commendations on teaching methods, course materials, and support.

Recommendations:

A strong majority would recommend the course to others, though some had reservations.

Suggestions for Improvement:

Recommendations included enhancing practical components, updating materials, improving instructor engagement, and expanding the curriculum.

Additional Feedback:

Many appreciated the comprehensive coverage and structure, though some suggested a need for deeper exploration of complex topics.

School of Information Technology
Mae Fah Luang University
Program: Bachelor program in Computer Engineering   Academic Year: 2023

Year: 3rd year Semester: 1 Credit: 3 (3 Hours lecture per week) 45 hours in total

Course code: 1501319 Course Title: Fundamental of Electrical Engineering

Number of students: ....
By signing this document, I confirm that I'm a regular student registered in this course and I have
completed the lesson of this course in the academic year.
Attendance List

Instructor: Asst. Prof. Roungsan Chaisricharoen, Ph.D.

Student ID	Name – Surname	Signature
6431501050	Nopthira Srisanam	Nopthira
6431501004	Kritcharad Nitiparinyanunnut	Kritcharad
6431501038	Thanabool Srikoh.	Thanabool.
6431501173	Phyo Thuta	Phm
6431501174	Salai David Poi Hkan	
6331501122	Wasinee Ungphiw	Wasinee
6331501121	Janpim charoensurapong	Janpim
6431501115	Siriphot Tasoo	Siriphot
6431501093	Phuwadech Promlas	Phuwadech
6431501154	Sopon Jaiyong	Sopon
6431501019	Chalita Khrueangsakun	Pupae
6431501067	Pawanrat Trikanchob	Pawanrat
6431501029	Nattiga Tunthong	Nattiga
6431501081	Phattharaphon ladkaew	Phatharaphon
6431501017	chomphunut Phontai	Chomphunut
6431501098	Pornsawan Lansan	Pornsawan
6431501044	Thamonwan Khwanthongyen	Thamonwan

Instructor: .... date and signature...................................

10. Please share any additional comments or feedback regarding the course on industry 4.0, PLC, and automation.

- ○ A. Comprehensive Coverage The course provided a comprehensive overview of Industry 4.0, PLC, and automation, covering all the key areas effectively.

- ○ B. Needs More Depth While the course was informative, it needs to delve deeper into certain complex topics to provide a more thorough understanding.

- ○ C. Well-Structured The course was well-structured and organized.

- ○ D. Great for Beginners This course is excellent for beginners, offering a solid foundation in the basics of Industry 4.0, PLC, and automation.

Submit

Summary: Fundamental of Electrical Engineering

Pre-course surveys:

In the Fundamentals of Electrical Engineering (EE) course, a pre-survey of 16 students showed that most had little to moderate expertise, while others had advanced knowledge or none. The group rarely had formal EE training. Students expect to learn EE basics, obtain practical skills, and stay current. EE was seen as a path to better professional chances, technical specialization, and leadership potential, with reasonable comfort with technology and software. Circuit design and renewable energy were among the interests, but technical complexity and theory applicability were concerns.

Post-course surveys:

All 15 students in the post-survey reported improved EE basic knowledge after the session. The training provided a solid foundation in EE, beyond expectations. Students enjoyed learning circuit analysis and sustainable energy technology. They indicated a significant increase in preparation for EE employment and confidence in applying course knowledge. Although some issues remained, the number of pupils with major challenges dropped. Course quality, instructional technique, materials, and instructor support were praised. Positive recommendations showed that the course was effective in giving beginners a solid understanding of EE, and feedback indicated that the course was comprehensive and well-structured, with less emphasis on improvements, indicating general satisfaction with its scope and delivery. From pre-course expectations to post-course outcomes, students' EE basic knowledge has grown and improved.

School of Information Technology
Mae Fah Luang University
Program: Bachelor program in Computer Engineering   Academic Year: 2023

Year: 3rd year Semester: 1 Credit: 3 (2 Hours Lab 2 Hours lecture per week) 60 hours in total

Course code: 1501217 Course Title: Model Based Design

Number of students: ....

By signing this document, I confirm that I'm a regular student registered in this course and I have completed the lesson of this course in the academic year.

Attendance List

Instructor: Asst. Prof. Roungsan Chaisricharoen, Ph.D.

Student ID	Name – Surname	Signature
6431501017	Chomphunut Phontai	ชมพูนุช พรไทย
6031501081	Phalchuraphon lodkaew	พลจุฑา
6431501045	Thammarak Thongwong	ธรรมรักษ์
6431501065	Kasidit chai kunrak	กษิดิศ
6531501017	Chanidrad Pang:oon	ฉัตรชนา
6531501009	Kirana Autkhonthi	กิรณา
6531501021	Chanikan Prasatsin	ชนิกา
6431501102	Woranwut Khumnoi	วรวุฒิ คำน้อย
6431501099	Potcharadenai Jahlakyorn	พัชรเดนัย
6431501157	Irawin Wetroeroping	อิรวิน
6431501024	Yarida Fuangfoo	ญาริดา
6431501123	Suttipong Raiphon	สุทธิพงษ์
6431501159	Nontawat Thong kam	Nontawat
6431501150	Sorawit Sritidiai	Sorawit
6431501042	Thanawat Sanosiang	Thanawat
6431501029	Nattiqa Tunthong	Nattiqa
6431501107	Watchayin sopanri	ษ์
6431501122	Siraphols Phittuart	Siraphols
6431501127	Aekbadin sarakool	Aekbadin
6431501067	Pawanrat Trikanchob	Pawanrat
6431501151	Sahapop koonkhai	Sahapop
6431501143	Pattarapol Srijarocnghk	Pattarapol
6431501063	Porramet Chantaphin	Porramet
6431501043	Thanavit Senajunwlong	Thanavit

Instructor: .... date and signature...................................

Student ID	Name – Surname	Signature
6431501038	Thanabool Srikoh.	Thanabool
6431501004	Kritcharat Nitipaninyannumt	kritcharat
6431501012	Chirarat Poompuang	Chirarat
6431501074	Pongsatorn Jiamtrakul	Pongsatorn
6431501053	Napatsron Nomsue	Napatsron
6431901047	Tam Jaihan	Tam
6431501028	Natdanai Jirapatanapong	Natdanai
6431501031	Nattapat Rokkapao	Nattapat
6431501141	Paratee Patcharaveeraraj	Paratee
6431801075	Pornnapha No phirot	Pornnophn
6481507109	withawit Malai	withawit
6331501121	Janpim charoensurapong	Janpim
6331501122	Wasinee Ungphiw	Wasinee
6431501095	Monlika Chaiwong	Monlika
6431501166	Siriwat Nummuea	Siriwat
6431501140	Panchaya Rueangsri	Panchaya
6431501085	Peeranut Phitakham	Peeranut
6431501130	Natchapat Notdee	Natchapat
6431501026	Thitikorn Thunphituk	Thitikorn
6431501036	Songwut Sacke	songwut
6431501020	Choliporn Tetarat	chuliporn
6431501068	Pongkan Saikruakam	Pongkan
6431501136	Thitiphat Yingsud	Thitiphat

Instructor: .... date and signature...

Summary : Model Based Design

Pre-course survey:

The Model-Based Design course's 46 pre-survey responses showed a wide range of knowledge about the subject, primarily basic to moderate, with a few reporting complete unfamiliarity or advanced competency. Model-based design training was new to most of these students, allowing for significant growth. Students took the course to acquire theoretical knowledge and practical expertise in model-based design applications to advance their professions. Despite some early discomfort with model-based design technologies and software tools, mastery was expected to open up options for specialization and innovation in their future careers. Their enthusiasm for a variety of domain subjects was tempered the anticipated difficulties in comprehending technical details and applying theoretical models.

Post-course survey:

43 students reported improvement after the training. Many students reported a rise in model-based design proficiency. Due to its in-depth insights and hands-on experience, the training met and exceeded expectations. For students interested in design and development careers, simulation, system modeling, and design validation were among the most valuable talents. The confidence of students to apply model-based design principles in real life increased. While technical challenges persisted, they were less frightening after the course, suggesting that teaching methods, course materials, and instructor support reduced them. The course was well-received for teaching model-based design. Based on students' enhanced preparation and satisfaction, the course was likely to be recommended. According to the post-survey, students had improved in competence and confidence, proving that the course was effective in teaching model-based design principles.