



CHRIST THE KING ENGINEERING COLLEGE

Karamadai, Coimbatore - 641104

(Approved by AICTE, New Delhi & Affiliated to Anna University, Chennai)

Ph: +91 91500 76729 Email: principal@ckec.ac.in Web: www.ckec.ac.in

PERMISSION LETTER

Date:09.02.2023

From

Mrs.V.Nithya
Assistant Professor / Course Coordinator
Department of Electronics and Communication Engineering
Christ the King Engineering College
Coimbatore

To

The Principal
Christ the King Engineering College
Coimbatore


Through : Head of The Department / Electronics and Communication Engineering

Respected Sir,

Sub: Requesting permission to organize a Value-Added Course on " MSP430" - Reg.


Department of Electronics and Communication Engineering is planning to organize a Value-Added Course on "MSP430" from 13.02.2023 to 04.03.2023 for Third and Final year ECE students. Ms.L.Pavithra, Assistant Professor, Department of Electronics and Communication Engineering as a Resource Person. In this regard, we seek your permission to conduct the same in the Seminar Hall from 13.02.2023 to 04.03.2023 from 4 pm to 7 pm. Kindly consider our request and grant the same.

Thanking You,


Yours truly,
(V.NITHYA)




Approved


Dr.M.JEYAKUMAR, M.E.,Ph.D
PRINCIPAL
CHRIST THE KING ENGINEERING COLLEGE,
Chikkarampalayam Village,
Karamadai, Mertupalayam Taluk,
Coimbatore - 641 104.



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DEPARTMENT OF ELECTRONICS AND COMMUNICATION ENGINEERING

RefNo: CKEC/ECE/VAC/2022-23/07

DATE:10.02.2023

CIRCULAR

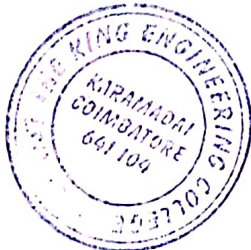
This is to inform that the department of Electronics and Communication Engineering is planning to conduct a value-added course on "MSP430 " for all third and final year students on 13.02.2023 to 04.03.2023 Students are asked to register you and utilize this opportunity to improve their skills.

S. No	Course Code	Name of the Course	Department	No of Hours	Course Coordinator
1	VACEC2307	MSP430	ECE	32	Ms.L.Pavithra

Note: The circular Display in the department Notice board for student's attention.

Copy to:
Principal
Notice board

Vna
HoD / ECE



M. Jayakumar
Dr. M. JAYAKUMAR, M.E..Ph.D.
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DEPARTMENT OF ECE

Organizes

VALUE ADDED COURSE ON **MSP430**

13.02.2023 to 04-03-2023 (4 to 7pm).

Resource Person

Ms. L. Pavithra

Assistant Professor

Department of ECE Engineering

Chief Patron

Dr. M. Jeyakumar

Principal

Patron

Dr. V. Muralidharan

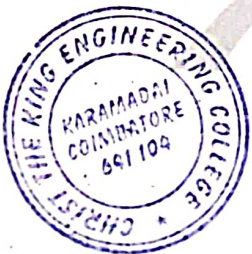
HOD / ECE

Coordinator

Mrs. V. Nithya

AP / ECE

VENUE: SEMINAR HALL



[Signature]
Dr. M. Jeyakumar, M.E., Ph.D.

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DEPARTMENT OF ELECTRONICS AND COMMUNICATION ENGINEERING

Course Code	VACEC2307
Name Of the Course	MSP430
Duration Of the Course	32 Hours
Academic Year	2022-2023
Period Of the Course	16 Days

COURSE OBJECTIVES:

- Understanding the architecture and instruction set of the MSP430.
- Developing skills in debugging and troubleshooting MSP430-based systems
- Gaining knowledge of advanced features and applications of the MSP430, such as analog-to-digital conversion and communication protocols.
- Understanding how to interface external devices and sensors with the MSP430

Syllabus

UNIT I- MSP430 Architecture (6)

Introduction – Where does the MSP430 fit, The outside view, The inside view-Functional block diagram, Memory, Central Processing Unit, Memory Mapped Input and Output, Clock Generator, Exceptions: Interrupts and Resets, MSP430 family.

UNIT II – Addressing Modes & Instruction Set (6)

Addressing Modes, Instruction set, Constant Generator and Emulated Instructions, Program Examples


UNIT III – Clock System, Interrupts and Operating Modes (6)

Clock System, Interrupts, what happens when an interrupt is requested, Interrupt Service Routines, Low Power Modes of Operation, Watchdog Timer, Basic Timer1, Real Time Clock, Timer-A: Timer Block, Capture/Compare Channels, Interrupts from Timer-A

UNIT IV – Analog Input-Output and PWM (6)

Comparator-A, ADC10, ADC12, Sigma-Delta ADC, Internal Operational Amplifiers, DAC, Edge Aligned PWM, Simple PWM, Design of PWM.LCD interfacing




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UNIT V – Digital Input-Output and Serial Communication

(7)

Parallel Ports, Lighting LEDs, Flashing LEDs, Read Input from a Switch, Toggle the LED state by pressing the push button, LCD interfacing. Asynchronous Serial Communication, Asynchronous Communication with USCI_A, Communications, Peripherals in MSP430, Serial Peripheral Interface

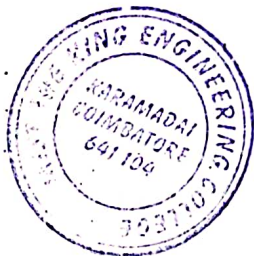
TOTAL HOURS:31

COURSE OUTCOME:

- Understand the MSP430 architecture, including its CPU, memory, and peripheral modules.
- acquire skills in debugging and troubleshooting MSP430-based systems, including identifying and resolving common hardware and software issues. Gaining knowledge of advanced features and applications of the MSP430, such as analog-to-digital conversion and communication protocols.
- Understand interfacing external devices and sensors with the MSP430 microcontroller, utilizing various communication protocols such as UART, SPI, and I2C.
- Students should demonstrate the ability to work effectively in teams, collaborating with peers on group projects to achieve common objectives related to MSP430-based systems.

TEXT BOOK & REFERENCES:

1. John H. Davies., "MSP430 Microcontroller Basics", Newnes, 2008
2. "MSP430 Family Guide", Texas Instruments, 2018



M. Jeyakumar
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DEPARTMENT OF ELECTRONICS AND COMMUNICATION ENGINEERING VAEC2307 - MSP430 SCHEDULE

S. No	DAY	TIME/SESSION	CONTENT	RESOURCE PERSON
1	13.02.2023	4.00-6.00pm	MSP430 Architecture	Ms.Pavithra.L Assistant Professor Department of Electronics and Communication Engineering Christ the King Engineering College
	14.02.2023	4.00-6.00pm	Introduction – Where does the MSP430 fit, The outside view, The inside view-Functional block diagram, Memory, Central Processing Unit, Memory Mapped Input and Output, Clock Generator, Exceptions: Interrupts and Resets, MSP430 family	
	15.02.2023	4.00-6.00pm		
2	16.02.2023	4.00-6.00pm	Addressing Modes & Instruction Set	
	17.02.2023	4.00-6.00pm	Addressing Modes. Instruction set. Constant Generator and Emulated Instructions, Program Examples	
	20.02.2023	4.00-6.00pm		
3	21.02.2023	4.00-6.00pm	Clock System, Interrupts and Operating Modes	
	22.02.2023	4.00-6.00pm	Clock System, Interrupts, what happens when an interrupted is requested, Interrupt Service Routines, Low Power Modes of Operation, Watchdog Timer, Basic Timer1, Real Time Clock, Timer-A: Timer Block, Capture/Compare Channels, Interrupts from Timer-A.	
	23.02.2023	4.00-6.00pm		
4	24.02.2023	4.00-6.00pm	Analog Input-Output and PWM	
	27.02.2023	4.00-6.00pm	Comparator-A, ADC10, ADC12, Sigma-Delta ADC, Internal Operational Amplifiers, DAC, Edge Aligned PWM, Simple PWM, Design of PWM.LCD interfacing.	
	28.02.2023	4.00-6.00pm		




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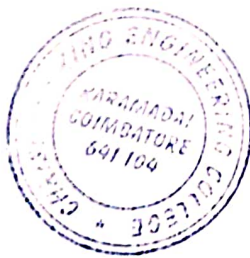
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5	01.03.2023	4.00-6.00pm	Digital Input-Output and Serial Communication Parallel Ports, Lighting LEDs, Flashing LEDs, Read Input from a Switch, Toggle the LED state by pressing the push button, LCD interfacing.
	02.03.2023	4.00-6.00pm	Asynchronous Serial Communication, Asynchronous Communication with USCI_A,
	03.03.2023	4.00-7.00pm	Communications, Peripherals in MSP430, Serial Peripheral Interface
	04.03.2023	4.00-5.00pm	Test

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DEPARTMENT OF ELECTRONICS AND COMMUNICATION ENGINEERING VAEC2307 - MSP430 STUDENT REGISTRATION

S.No	REGISTER NUMBER	NAME OF THE STUDENT	SIGNATURE
1	710420106001	BABU A	<i>[Signature]</i>
2	710420106002	BABY INDIRA S	<i>[Signature]</i>
3	710420106004	DHILEEPKUMAR S	<i>[Signature]</i>
4	710420106005	DIVYA S	<i>[Signature]</i>
5	710420106006	FIYARLIN SHARONE J	<i>[Signature]</i>
6	710420106007	HARRIS RAJA X	<i>[Signature]</i>
7	710420106008	JAYA SRUTHI K	<i>[Signature]</i>
8	710420106009	JEEVITHA P	<i>[Signature]</i>
9	710420106010	JENIFA D	<i>[Signature]</i>
10	710420106011	JOSHUA THOMAS	<i>[Signature]</i>
11	710420106012	KARTHIKA P	<i>[Signature]</i>
12	710420106013	KAVIMANI G	<i>[Signature]</i>
13	710420106014	MALATHI M	<i>[Signature]</i>
14	710420106015	METREESHIYA S	<i>[Signature]</i>
15	710420106017	MYTHILIA	<i>[Signature]</i>
16	710420106018	NATARAJAN A	<i>[Signature]</i>
17	710420106019	NIVETHA S	<i>[Signature]</i>
18	710420106020	PAULABISHEK D	<i>[Signature]</i>
19	710420106021	PRADEEP S	<i>[Signature]</i>
20	710420106022	PRAVEENKUMAR N	<i>[Signature]</i>
21	710420106026	SANGAMITHRA T	<i>[Signature]</i>
22	710420106028	SERMASAMY J	<i>[Signature]</i>
23	710420106030	SHYAM PRAKASH S	<i>[Signature]</i>
24	710420106031	SWETHA S	<i>[Signature]</i>
25	710420106032	THARANI S	<i>[Signature]</i>
26	710420106033	VIGNESHWARAN A	<i>[Signature]</i>
27	710420106301	NAVEEN RAJ.P	<i>[Signature]</i>
28	710420106302	SANTHOSH.S	<i>[Signature]</i>
29	710419106002	ARAVIND S E	<i>[Signature]</i>
30	710419106006	DHIVAKARAN M	<i>[Signature]</i>
31	710419106007	DINESH KUMAR S	<i>[Signature]</i>
32	710419106008	GAYATHIRI VARSHINI R	<i>[Signature]</i>
33	710419106009	GAYATHRI M	<i>[Signature]</i>
34	710419106010	HARIHARAN C	<i>[Signature]</i>
35	710419106011	INDHUPRIYA S	<i>[Signature]</i>
36	710419106012	KAILESHWARAN S	<i>[Signature]</i>
37	710419106013	KANNIKA C	<i>[Signature]</i>



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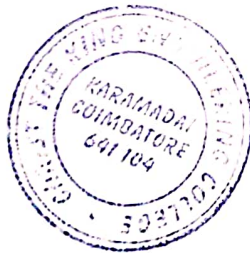
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38	710419106014	KARTHIKA K	<i>Karthika K</i>
39	710419106016	KAVIYA S	<i>S. Kavya</i>
40	710419106018	MANIKANDAN R	<i>R. Manikandan</i>
41	710419106019	MATHUMITHA G	<i>G. Mathumitha</i>
42	710419106020	MERLIN ALFINA M	<i>M. Merlin</i>
43	710419106021	PAUL MOHAN M	<i>M. Paul Mohan</i>
44	710419106023	PRIYANKA P	<i>P. Priyanka</i>
45	710419106026	RITHICK K	<i>K. Rithick</i>
46	710419106027	SIBI CHAKRAVARTHI B	<i>B. Sibi Chakravarthi</i>
47	710419106028	SOWBARNIKA V	<i>V. Sowbarnika</i>
48	710419106029	SOWMIYA M	<i>M. Sowmiya</i>
49	710419106030	VASANTHA KUMAR K	<i>K. Vasantha Kumar</i>

Vino
HoD / ECE

M. Jeeyanumar
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DEPARTMENT OF ELECTRONICS AND COMMUNICATION ENGINEERING VAEC2307 - MSP430

STUDENTS ATTENDANCE LIST

S.No	REGISTER NUMBER	NAME OF THE STUDENT	13.02.2023	14.02.2023	15.02.2023	16.02.2023	17.02.2023
			4-6.00pm	4-6.00pm	4-6.00pm	4-6.00pm	4-6.00pm
1	710420106001	BABU A	Babu	Babu	Babu	Babu	Babu
2	710420106002	BABY INDIRA S	S.Baby	S.Baby	S.Baby	S.Baby	S.Baby
3	710420106004	DHILEEPKUMAR S	Dheep	Dheep	Dheep	Dheep	Dheep
4	710420106005	DIVYA S	Divya	Divya	Divya	Divya	Divya
5	710420106006	FIYARLIN SHARONE J	Fiyarlin	Fiyarlin	Fiyarlin	Fiyarlin	Fiyarlin
6	710420106007	HARRIS RAJA X	Harris	Harris	Harris	Harris	Harris
7	710420106008	JAYA SRUTHI K	Jaya	Jaya	Jaya	Jaya	Jaya
8	710420106009	JEEVITHA P	Jeevitha	Jeevitha	Jeevitha	Jeevitha	Jeevitha
9	710420106010	JENIFA D	Jenifa	Jenifa	Jenifa	Jenifa	Jenifa
10	710420106011	JOSHUA THOMAS	Joshua	Joshua	Joshua	Joshua	Joshua
11	710420106012	KARTHIKA P	Karthika	Karthika	Karthika	Karthika	Karthika
12	710420106013	KAVIMANI G	Kavimani	Kavimani	Kavimani	Kavimani	Kavimani
13	710420106014	MALATHI M	Malathi	Malathi	Malathi	Malathi	Malathi
14	710420106015	METREESHIYA S	Metreeshiya	Metreeshiya	Metreeshiya	Metreeshiya	Metreeshiya
15	710420106017	MYTHILI A	Mythili	Mythili	Mythili	Mythili	Mythili
16	710420106018	NATARAJAN A	Natarajan	Natarajan	Natarajan	Natarajan	Natarajan
17	710420106019	NIVETHA S	Nivetha	Nivetha	Nivetha	Nivetha	Nivetha
18	710420106020	PAULABISHEK D	Paulabishek	Paulabishek	Paulabishek	Paulabishek	Paulabishek
19	710420106021	PRADEEP S	Pradeep	Pradeep	Pradeep	Pradeep	Pradeep
20	710420106022	PRAVEENKUMAR N	Praveen	Praveen	Praveen	Praveen	Praveen
21	710420106026	SANGAMITHRA T	Sangamithra	Sangamithra	Sangamithra	Sangamithra	Sangamithra
22	710420106028	SERMASAMY J	Sermasamy	Sermasamy	Sermasamy	Sermasamy	Sermasamy
23	710420106030	SHYAM PRAKASH S	Shyam	Shyam	Shyam	Shyam	Shyam
24	710420106031	SWETHA S	Swetha	Swetha	Swetha	Swetha	Swetha
25	710420106032	THARANI S	Tharani	Tharani	Tharani	Tharani	Tharani
26	710420106033	VIGNESHWARAN A	Vigneshwaran	Vigneshwaran	Vigneshwaran	Vigneshwaran	Vigneshwaran
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29	710419106002	ARAVIND S E	Aravind	Aravind	Aravind	Aravind	Aravind
30	710419106006	DHIVAKARAN M	Dhivakaran	Dhivakaran	Dhivakaran	Dhivakaran	Dhivakaran
31	710419106007	DINESH KUMAR S	Dinesh	Dinesh	Dinesh	Dinesh	Dinesh
32	710419106008	GAYATHIRI VARSHINI R	Gayathiri	Gayathiri	Gayathiri	Gayathiri	Gayathiri
33	710419106009	GAYATHRI M	Gayathri	Gayathri	Gayathri	Gayathri	Gayathri
34	710419106010	HARIHARAN C	Harihara	Harihara	Harihara	Harihara	Harihara



M. Anand
D. M. JAYAKUMAR, M.E., Ph.D.
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38	710419106014	KARTHIKA K	Karthika	Karthika	Karthika	Karthika	Karthika
39	710419106016	KAVIYA S	Kaviya	Kaviya	Kaviya	Kaviya	Kaviya
40	710419106018	MANIKANDAN R	Mani	Mani	Mani	Mani	Mani
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43	710419106021	PAUL MOHAN M	Paul	Paul	Paul	Paul	Paul
44	710419106023	PRIYANKA P	Priyanka	Priyanka	Priyanka	Priyanka	Priyanka
45	710419106026	RITHICK K	Rithick	Rithick	Rithick	Rithick	Rithick
46	710419106027	SIBI CHAKRAVARTHI B	Sibi	Sibi	Sibi	Sibi	Sibi
47	710419106028	SOWBARNIKA V	Sowbarnika	Sowbarnika	Sowbarnika	Sowbarnika	Sowbarnika
48	710419106029	SOWMIYA M	Sowmiya	Sowmiya	Sowmiya	Sowmiya	Sowmiya
49	710419106030	VASANTHA KUMAR K	Vasanth	Vasanth	Vasanth	Vasanth	Vasanth

Vmk
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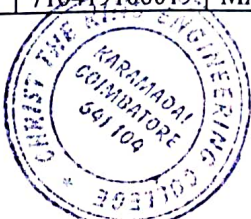
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			4-6.00pm	4-6.00pm	4-6.00pm	4-6.00pm	4-6.00pm
1	710420106001	BABU A	Babun	Babun	Babun	Babun	Babun
2	710420106002	BABY INDIRA S	S.Baby	S.Baby	S.Baby	S.Baby	S.Baby
3	710420106004	DHILEEPKUMAR S	Dhileep	Dhileep	Dhileep	Dhileep	Dhileep
4	710420106005	DIVYA S	Divya	Divya	Divya	Divya	Divya
5	710420106006	FIYARLIN SHARONE J	Fiyarlin	Fiyarlin	Fiyarlin	Fiyarlin	Fiyarlin
6	710420106007	HARRIS RAJA X	Harris	Harris	Harris	Harris	Harris
7	710420106008	JAYA SRUTHI K	Jaya	Jaya	Jaya	Jaya	Jaya
8	710420106009	JEEVITHA P	Jeevitha	Jeevitha	Jeevitha	Jeevitha	Jeevitha
9	710420106010	JENIFA D	Jenifa	Jenifa	Jenifa	Jenifa	Jenifa
10	710420106011	JOSHUA THOMAS	Joshua	Joshua	Joshua	Joshua	Joshua
11	710420106012	KARTHIKA P	Karthika	Karthika	Karthika	Karthika	Karthika
12	710420106013	KAVIMANI G	Kavimani	Kavimani	Kavimani	Kavimani	Kavimani
13	710420106014	MALATHI M	Malathi	Malathi	Malathi	Malathi	Malathi
14	710420106015	METREESHIYA S	Metreeshiya	Metreeshiya	Metreeshiya	Metreeshiya	Metreeshiya
15	710420106017	MYTHILI A	Mythili	Mythili	Mythili	Mythili	Mythili
16	710420106018	NATARAJAN A	Natarajan	Natarajan	Natarajan	Natarajan	Natarajan
17	710420106019	NIVETHA S	Nivetha	Nivetha	Nivetha	Nivetha	Nivetha
18	710420106020	PAULABISHEK D	Paulabishek	Paulabishek	Paulabishek	Paulabishek	Paulabishek
19	710420106021	PRADEEP S	Pradeep	Pradeep	Pradeep	Pradeep	Pradeep
20	710420106022	PRAVEENKUMAR N	Praveenkumar	Praveenkumar	Praveenkumar	Praveenkumar	Praveenkumar
21	710420106026	SANGAMITHRA T	Sangamithra	Sangamithra	Sangamithra	Sangamithra	Sangamithra
22	710420106028	SERMASAMY J	Sermasamy	Sermasamy	Sermasamy	Sermasamy	Sermasamy
23	710420106030	SHYAM PRAKASH S	Shyam	Shyam	Shyam	Shyam	Shyam
24	710420106031	SWETHA S	Swetha	Swetha	Swetha	Swetha	Swetha
25	710420106032	THARANI S	Tharani	Tharani	Tharani	Tharani	Tharani
26	710420106033	VIGNESHWARAN A	Vigneshwaran	Vigneshwaran	Vigneshwaran	Vigneshwaran	Vigneshwaran
27	710420106301	NAVEEN RAJ.P	Naveen	Naveen	Naveen	Naveen	Naveen
28	710420106302	SANTHOSH.S	Santhosh	Santhosh	Santhosh	Santhosh	Santhosh
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41	710419106019	MATHUMITHA G	Mathumitha	Mathumitha	Mathumitha	Mathumitha	Mathumitha



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43	710419106021	PAUL MOHAN M	Paul	Paul	Paul	Paul	Paul
44	710419106023	PRIYANKA P	Priyanka P	Priyanka P	Priyanka P	Priyanka P	Priyanka P
45	710419106026	RITHICK K	Rithick	Rithick	Rithick	Rithick	Rithick
46	710419106027	SIBI CHAKRAVARTHI B	Sibi	Sibi	Sibi	Sibi	Sibi
47	710419106028	SOWBARNIKA V	Sowbarnika	Sowbarnika	Sowbarnika	Sowbarnika	Sowbarnika
48	710419106029	SOWMIYA M	Sowmiya	Sowmiya	Sowmiya	Sowmiya	Sowmiya
49	710419106030	VASANTHA KUMAR K	Vasanth	Vasanth	Vasanth	Vasanth	Vasanth

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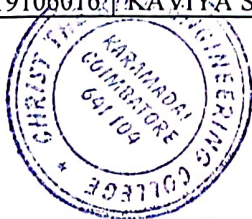
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S.No	REGISTER NUMBER	NAME OF THE STUDENT	27.02.2023	28.02.2023	01.03.2023	02.03.2023	03.03.2023
			4-6.00pm	4-6.00pm	4-6.00pm	4-6.00pm	4-7.00pm
1	710420106001	BABU A	Babu	Babu	Babu	Babu	Babu
2	710420106002	BABY INDIRA S	S. Baby	S. Baby	S. Baby	S. Baby	S. Baby
3	710420106004	DHILEEPKUMAR S	Dhileep	Dhileep	Dhileep	Dhileep	Dhileep
4	710420106005	DIVYA S	Divya	Divya	Divya	Divya	Divya
5	710420106006	FIYARLIN SHARONE J	Fiyarlin	Fiyarlin	Fiyarlin	Fiyarlin	Fiyarlin
6	710420106007	HARRIS RAJA X	Raja	Raja	Raja	Raja	Raja
7	710420106008	JAYA SRUTHI K	Jaya	Jaya	Jaya	Jaya	Jaya
8	710420106009	JEEVITHA P	Jeevitha	Jeevitha	Jeevitha	Jeevitha	Jeevitha
9	710420106010	JENIFA D	Jenifa	Jenifa	Jenifa	Jenifa	Jenifa
10	710420106011	JOSHUA THOMAS	Joshua	Joshua	Joshua	Joshua	Joshua
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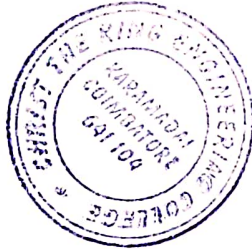
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41	710419106019	MATHUMITHA G	Mathu	Mathu	Mathu	Mathu	Mathu	Mathu	
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43	710419106021	PAUL MOHAN M	Paul	Paul	Paul	Paul	Paul	Paul	
44	710419106023	PRIYANKA P	P. Priyanka	P. Priyanka	P. Priyanka	P. Priyanka	P. Priyanka	P. Priyanka	
45	710419106026	RITHICK K	Rithick	Rithick	Rithick	Rithick	Rithick	Rithick	. k
46	710419106027	SIBI CHAKRAVARTHI B	Sibi	Sibi	Sibi	Sibi	Sibi	Sibi	
47	710419106028	SOWBARNIKA V	Sowbarnika	Sowbarnika	Sowbarnika	Sowbarnika	Sowbarnika	Sowbarnika	
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49	710419106030	VASANTHA KUMAR K	Vasanth	Vasanth	Vasanth	Vasanth	Vasanth	Vasanth	

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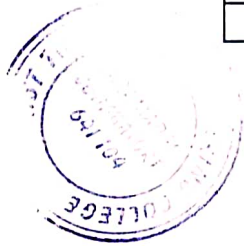
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			4-5.00pm
1	710420106001	BABU A	Babu A
2	710420106002	BABY INDIRA S	Baby Indira S
3	710420106004	DHILEEPKUMAR S	Dhileep Kumar S
4	710420106005	DIVYA S	Divya S
5	710420106006	FIYARLIN SHARONE J	Fiyarlin Sharone J
6	710420106007	HARRIS RAJA X	Harris Raja X
7	710420106008	JAYA SRUTHI K	Jaya Sruthi K
8	710420106009	JEEVITHA P	Jeevitha P
9	710420106010	JENIFA D	Jenifa D
10	710420106011	JOSHUA THOMAS	Joshua Thomas
11	710420106012	KARTHIKA P	Karthika P
12	710420106013	KAVIMANI G	Kavimani G
13	710420106014	MALATHI M	Malathi M
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21	710420106026	SANGAMITHRA T	Sangamithra T
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25	710420106032	THARANI S	Tharani S
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28	710420106302	SANTHOSH.S	Santhosh.S
29	710419106002	ARAVIND S E	Aravind S E
30	710419106006	DHIVAKARAN M	Dhivakaran M
31	710419106007	DINESH KUMAR S	Dinesh Kumar S
32	710419106008	GAYATHIRI VARSHINI R	Gayathiri Varshini R
33	710419106009	GAYATHRI M	Gayathri M
34	710419106010	HARIHARAN C	Harihara C
35	710419106011	INDHUPRIYA S	Indhupriya S
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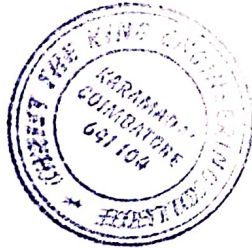
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40	710419106018	MANIKANDAN R	Manikandan R
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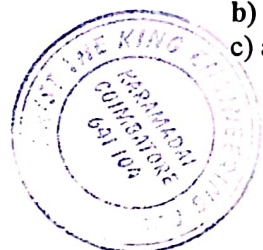
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MULTIPLE CHOICE QUESTION

1. In MSP430, the size of the status register is _____.
 - a) 2 bytes
 - b) 1 byte
 - c) 1 bit
 - d) 2 bit
2. Which of the following bit/s of the status register that allows the microcontroller to operate in its low power mode?.
 - a) CPU off
 - b) Z
 - c) Reserved
 - d) N
3. What is actually done to improve the efficiency of a RISC processor?
 - a) they have one or more registers hard wired to the commonly used values
 - b) instructions are reduced
 - c) they have two or more processors inbuilt connected between
 - d) they have many instructions that are interrelated to each other
4. To improve the efficiency of an MSP430 based microcontroller, for one register.
 - a) there are 4 values for four addressing modes
 - b) there is only one value for all addressing modes
 - c) there are two values for each addressing mode
 - d) there are 2 values for four addressing modes
5. There are _____ number of emulated instructions found in the MSP430?
 - a) 4
 - b) 8
 - c) 16
 - d) 24
6. Pre increment addressing is available in MSP430?.
 - a) true
 - b) can't be said
 - c) false
 - d) depends on the conditions
7. Which out of the following is a correct emulated instruction?
 - a) ADD(.B) src,dst
 - b) ADDC(.B) src,dst
 - c) AND(.B) src,dst
 - d) ADC(.B) dst
8. dadd instruction can act as _____.
 - a) valid adder with carry
 - b) valid BCD addition
 - c) all of the mentioned


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d) none of the mentioned

9. Which of the following instructions don't affect the status bits?

- (a) bis
- (b) bic
- (c) bis & bic
- (d) bis & bic

10. .w form is used for operations

- (a) that uses bytes
- (b) that uses words
- (c) that uses none
- (d) that uses both




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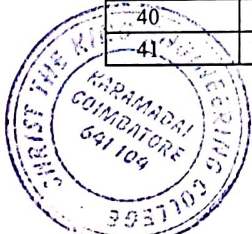
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DEPARTMENT OF ELECTRONICS AND COMMUNICATION ENGINEERING VAEC2307 - MSP430 STUDENTS ASSESSMENT MARKS

S.No	REGISTER NUMBER	NAME OF THE STUDENT	MARKS
			10
1	710420106001	BABU A	9
2	710420106002	BABY INDIRA S	10
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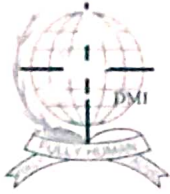
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DEPARTMENT OF ELECTRONICS AND COMMUNICATION ENGINEERING

VAEC2307 - MSP430

MULTIPLE CHOICE QUESTION

Name : Babu. A
Register No. : F10420106001
Year / Sem : IV
Academic Year : 2022 - 23

1. In MSP430, the size of the status register is _____.

- a) 2 bytes
- b) 1 byte
- c) 1 bit
- d) 2 bit

2. Which of the following bit/s of the status register that allows the microcontroller to operate in its low power mode?.

- a) CPU off
- b) Z
- c) Reserved
- d) N

3. What is actually done to improve the efficiency of a RISC processor?

- a) they have one or more registers hard wired to the commonly used values
- b) instructions are reduced
- c) they have two or more processors inbuilt connected between
- d) they have many instructions that are interrelated to each other

4. To improve the efficiency of an MSP430 based microcontroller, for one register.

- a) there are 4 values for four addressing modes
- b) there is only one value for all addressing modes
- c) there are two values for each addressing mode
- d) there are 2 values for four addressing modes

5. There are _____ number of emulated instructions found in the MSP430?

- a) 4
- b) 8
- c) 16
- d) 24




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6. Pre increment addressing is available in MSP430?.

- a) true
- b) can't be said
- c) false
- d) depends on the conditions

7. Which out of the following is a correct emulated instruction?

- a) ADD(.B) src,dst
- b) ADDC(.B) src,dst
- c) AND(.B) src,dst
- d) ADC(.B) dst

8. Jadd instruction can act as _____.

- a) valid adder with carry
- b) valid BCD addition
- c) all of the mentioned
- d) none of the mentioned

9. Which of the following instructions don't affect the status bits?

- (a) bis
- (b) bic
- (c) bis & bic
- (d) bis & bic

10. .w form is used for operations

- (a) that uses bytes
- (b) that uses words
- © that uses none
- (d) that uses both

9/10



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STUDENT FEEDBACK FORM

Name of the value-added course: MSP430

Name of the student: P. Jeevitha

Register Number: 710920106009

Year / semester: III / VI

Batch: 2020-2024

Course Coordinator: Mrs. V. Nithya

Academic Year: 2022-2023

Sl.No.	Criteria	Rating				
		Excellent	Good	Average	Satisfactory	Poor
1.	Course content	✓				
2.	Individual attention		✓			
3.	Level of the course		✓			
4.	Regularity and knowledge of faculty	✓				
5.	Coverage of syllabus	✓				
6.	Interaction		✓			
7.	Outcome	✓				
	Total	20	12			
	Remarks	Good				

EXCELLENT-5

GOOD-4

AVERAGE-3

SATISFACTORY-2

POOR-1

Jeevitha
Signature of the student



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POST EVENT REPORT

Course code	VACEC2307
Name of the course	MSP430
Duration of the course	32 Hours
Academic year	2022-2023
Period of the course	16 Days
Coordinator & Faculty handling the course	Mrs.V.Nithya Ms.L.Pavithra
Number of the students registered	49
Number of the students completed	49
% of students completed the course	100%
Details of the course	The course details the usual remediation techniques practiced worldwide and provide an understanding of the relevant theoretical concepts. The current course will enable a student to: Develop understanding of integrated approaches to remediating contaminated sites.




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GPS Map Camera

6XGJ+PQ7, Chikkarampalayam, Tamil Nadu 641104, India, Tamil Nadu, India

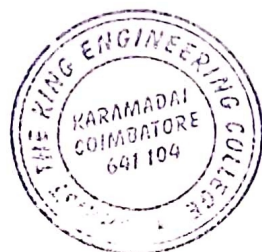
Christ The King Engineering College

Lat 11.219427°

Long 76.979119°

13/02/23 5:19 PM GMT +05:30

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Value Added Course on
MSP430

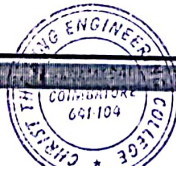
Certificate of Completion

This is to certify thatRITHICK K (CT10419106026).....
has successfully completed the Value Added Course on "MSP430" conducted by the
Department of Electronics & Communication Engineering at Christ The King Engineering
College from 13-02-2023 to 04-03-2023.


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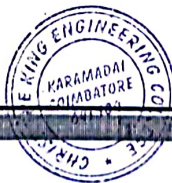
Value Added Course on
MSP430

Certificate of Completion

This is to certify thatVIGNESHWARAN, A.....(7110120106933)
has successfully completed the Value Added Course on "MSP430" conducted by the
Department of Electronics & Communication Engineering at Christ The King Engineering
College from 13-02-2023 to 04-03-2023.

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