

**NSF TUES DUE Type 2 Project:  
Dissemination of Microprocessor Courses through Classroom and  
Interactive Cyber-Enabled Technologies  
Old Dominion University Distance Training Workshop Schedule**

**Day 1: Monday: June 17, 2013**

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<b>Date/Time (PST)</b>	<b>Item/Topic</b>	<b>Presenter</b>	<b>Location</b>
6/6/13, 8:00AM-9:00AM	Introduction to Workshop/ Distance Training/Tools/ Project/Rules/Assessment/ Stipends, Pre-Test	ODU: Steve Hsiung, Richard Jones, & John Ritz	Any Landline Internet
6/6/13, 9:00AM-10:00AM	PIC MCU Architecture	ODU: Steve Hsiung & Richard Jones	Any Landline Internet
6/6/13, 10:00AM-12:00PM	Course & Lab Module #1: Header File, MPLAB Compilation, and PICKit2 Programming Exercises	ODU: Steve Hsiung & Richard Jones Subgroups: CSUF: Reza Raeisi WSU: Ece Yaprak TCC: Tom Stout	Any Landline Internet
6/6/13, 12:00PM-1:00PM	Lunch Break	ODU: Steve Hsiung	
6/6/13, 1:00PM-1:30PM	Review of Learned Materials: Distance Tools, Course/Lab Module #1	ODU: Steve Hsiung & Richard Jones	Any Landline Internet
6/6/13, 1:30PM-2:30PM	Course Module #2: PIC Microcontroller Assembly Language Programming and MPLAB Simulation Exercises	ODU: Steve Hsiung & Richard Jones	Any Where Landline Internet
6/6/13, 2:30PM-3:30PM	Lab Module #2: PIC Microcontroller Assembly Language Programming and MPLAB Simulation Exercises	ODU: Steve Hsiung & Richard Jones Subgroups: CSUF: Reza Raeisi WSU: Ece Yaprak BRCC: Jim Eiland	Any Landline Internet
6/6/13, 3:30PM-4:30PM	Course Module #3: PIC Microcontroller Index Assembly Language Programming & MPLAB Simulation Exercises	ODU: Steve Hsiung & Richard Jones	Any Landline Internet
6/6/13, 4:30PM-5:00PM	Course and Lab Modules #1-#3 Group Discussions/ Suggestions	CSUF: Reza Raeisi ODU: Steve Hsiung, Richard Jones, John Ritz WSU: Ece Yaprak BRCC: Jim Eiland TCC: Tom Stout, Richard Seriani	Any Landline Internet



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**Day 2: Tuesday: June 18, 2013**

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<b>Date/Time (PST)</b>	<b>Item/Topic</b>	<b>Presenter</b>	<b>Location</b>
6/7/13, 8:00AM-9:00AM	Lab Module #3: PIC Microcontroller Index Assembly Language	<b>ODU: Steve Hsiung &amp; Richard Jones</b> Subgroups: <b>CSUF: Reza Raeisi, WSU: Ece Yaprak, TCC: Richard Seriani</b>	Any <b>Landline Internet</b>
6/7/13, 9:00AM-10:00AM	Course Module #4: PIC Microcontroller Index Assembly Language Programming & MPLAB Simulation Exercises	<b>ODU: Steve Hsiung &amp; Richard Jones</b>	Any <b>Landline Internet</b>
6/7/13, 10:00AM-11:00AM	Lab Module #4: PIC Microcontroller Index Assembly Language Programming & MPLAB Simulation Exercises	<b>ODU: Steve Hsiung &amp; Richard Jones</b> Subgroups: <b>CSUF: Reza Raeisi, WSU: Ece Yaprak, TCC: Tom Stout</b>	Any <b>Landline Internet</b>
6/7/13, 11:00AM-12:00PM	Course Module #5: PIC Microcontroller I/O Controls Exercises	<b>ODU: Steve Hsiung &amp; Richard Jones</b>	Any <b>Landline Internet</b>
6/7/13, 12:00PM-1:00PM	Lunch Break	<b>ODU: Steve Hsiung</b>	
6/7/13, 1:00PM-2:00PM	Lab Module #5: PIC Microcontroller I/O Controls Exercises	<b>ODU: Steve Hsiung &amp; Richard Jones</b> Subgroups: <b>CSUF: Reza Raeisi, WSU: Ece Yaprak, BRCC: Jim Eiland</b>	Any <b>Landline Internet</b>
6/7/13, 2:00PM-2:30PM	Review of Learned Materials: Course/Lab Modules #3-#5	<b>ODU: Steve Hsiung &amp; Richard Jones</b>	<b>Landline Internet</b>
6/7/13, 2:30PM-3:30PM	Course Module #6: I/O Controls with Interrupts Applications	<b>ODU: Steve Hsiung &amp; Richard Jones</b>	Any <b>Landline Internet</b>
6/7/13, 3:30PM-4:30PM	Lab Module #6: I/O Controls with Interrupts Applications	<b>ODU: Steve Hsiung &amp; Richard Jones</b> Subgroup: <b>CSUF: Reza Raeisi, WSU: Ece Yaprak, TCC: Richard Seriani</b>	Any <b>Landline Internet</b>
6/7/13, 4:30PM-5:00PM	Course and Lab Modules #3- #6 Group Discussions/ Suggestions	<b>CSUF: Reza Raeisi, ODU: Steve Hsiung, Richard Jones, John Ritz, WSU: Ece Yaprak, BRCC: Jim Eiland, TCC: Tom Stout, Richard Seriani</b>	Any <b>Landline Internet</b>



**NSF TUES DUE Type 2 Project:  
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**Day 3: Wednesday: June 19, 2013**

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<b>Date/Time (PST)</b>	<b>Item/Topic</b>	<b>Presenter</b>	<b>Location</b>
6/8/13, 8:00AM-8:30AM	Review of Learned Materials: Course/Lab Modules #1-#6	ODU: Steve Hsiung & Richard Jones	Any Landline Internet
6/8/13, 8:30AM-10:00AM	Course Module #7: I/O Controls with LCD Module Parallel Communications and Table Lookup	ODU: Steve Hsiung & Richard Jones	Any Landline Internet
6/8/13, 10:00AM-11:30PM	Lab Module #7: I/O Controls with LCD Module Parallel Communications and Table Lookup/Video Demos	ODU: Steve Hsiung & Richard Jones Subgroup: CSUF: Reza Raeisi, WSU: Ece Yaprak, TCC: Tom Stout	Any Landline Internet
6/8/13, 11:30AM-12:00PM	Course Module #8: Matrix Keypad Software Scanning, Debouncing & Decoding Design	ODU: Steve Hsiung & Richard Jones	Any Landline Internet
6/8/13, 12:00PM-1:00PM	Lunch Break	ODU: Steve Hsiung	
6/8/13, 1:00AM-1:30PM	Review of Learned Materials: Course/Lab Modules #7	ODU: Steve Hsiung & Richard Jones	Any Landline Internet
6/8/13, 1:30PM-2:30PM	Course Module #8: Continue.....	ODU: Steve Hsiung & Richard Jones	Landline Internet
6/8/13, 2:30PM-4:00PM	Lab Module #8: Matrix Keypad Software Scanning, Debouncing & Decoding Design/Video Demos	ODU: Steve Hsiung & Richard Jones Subgroup: CSUF: Reza Raeisi, WSU: Ece Yaprak, BRCC: Jim Eiland	Any Landline Internet
6/8/13, 4:00PM-4:30PM	Course/Lab Modules #9 & #10: Stepper & DC Motors Controls Introduction/Video Demos	ODU: Steve Hsiung & Richard Jones	Any Landline Internet
6/8/13, 4:30PM-5:00PM	Post-Test, Lab Project Group Discussions/Suggestions/Survey, Future on-line Meetings: Course Curriculum Review, Stepper Motor Module, DC Motor Module, Wireless RF Module via Moodle Server Forum and Listserve	CSUF: Reza Raeisi, ODU: Steve Hsiung, Richard Jones, John Ritz, WSU: Ece Yaprak, BRCC: Jim Eiland, TCC: Tom Stout, Richard Seriani	Any Landline Internet





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