

“Students Career Success is our Number One Priority”

To ensure that our students can easily assimilate and excel in the workplace, we strongly stress on real world experience. Our students interact, work and learn together as a team.

REMOVING LEARNING OBSTACLES

We carefully craft our instructions to remove learning obstacles for our Vietnamese students. Our unique methods ensure that our students have a clear and optimal understanding of the materials in their native language, and that this knowledge-base is transferred to English and applied successfully.

LIFE-TIME TECHNICAL SUPPORT

We provide free life-time technical support on any subjects you studied. You can also retake any courses at no charge to you as long as the course is still offering at Au Lac Institute.

GUARANTEED RESULT

There is a lot of information out there that could take you years to gather on your own. In a short period of time, we'll give you the best and only the most relevant and valuable information to help you be the best you can be. You will learn from the experienced training staff and gain real life learning experience. We guaranteed that upon completion of our courses, you will gain more knowledge, confident as well as experience in the subject you studied that can be applied immediately to help you succeed.

“Our dedication to the students’ success and our innovative teaching format make learning easy and more efficient.”

Advanced International College is Certified with the State of California Bureau For Private Postsecondary And Vocational Education

APPROVED/REGISTERED PROGRAM

- Accounting /Bookkeeping
- Administrative Technician / Customer Service
- Computer Programming
- Electronics Engineering Technician
- Internetworking Engineering
- Marketing / Sales
- Microsoft Database Administrator
- Microsoft Solutions Developer
- Network Engineering
- PC Specialist / A +
- Web Development



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RF TECHNICIAN

AU LAC
INSTITUTE

SCHOOL OF NEW TECHNOLOGY



PROGRAM OBJECTIVE

This course will equip the student with the skills necessary to become a proficient RF Technician. Graduates will have a strong theoretical and application knowledge of RF transmission, components of RF transmit and receive circuits, basic RF equipments, and troubleshooting and repair techniques. Graduates may apply for jobs as RF Technicians or RF Field Engineers.

COURSE DESCRIPTIONS

Module I

Introduction To RF Communication

Introduces students to the fundamental of communications: the nature of communication media, characteristics and behaviors of waves, and analog and digital processing.

Signal Characteristics

Students learn signal characteristics. Course content includes amplitude, frequency, phase, bandwidth, amplification, attenuation, transmissions, distortion and noise, loss and gain, and power (dB, dBc, dBm).

RF Components

This course covers PIN diode, Schottky diode, Asaki (tunnel) diode, GUNN diode, IMPATT diode, varactor, transmission lines and antenna.

Basic RF Analog Circuits

Review electric equipments (voltage divider, rectifiers, active and passive filters, common op-amp circuits). Student will also learn

(RF small signal amplifiers, class A, B, AB, and C power amplifiers, oscillators, VCO – Voltage Controlled Oscillator, VCXO – Voltage Controlled Crystal Oscillator, and microwave oscillators).

Basic Digital Circuits

Reviews logic gates and flip-flops, and expands on analog to digital converter (ADC), and digital to analog converter (DAC), Digital Signal Processor (DSP).

Module II

Communication Techniques

Study of different modulators: amplitude modulation (AM), frequency modulation (FM), phase modulation (PM), pulse amplitude modulation (PAM), pulse frequency modulation (PFM), pulse phase modulation (PPM), quadrature phase shift keying (QPSK), and quadrature amplitude modulation (QAM).

RF Special Circuits

Mixers, modulators, demodulators, phase locked loop, frequency synthesizer, and frequency multiplier.

Transmitters And Receivers

AM and FM transmitters and receivers, RADAR, satellite communication, telephone, cellular phone, modems, and infrared link.

Calibration And Troubleshooting Techniques

Review multimeter, oscilloscope and function generator; Learn spectrum analyzer, network analyzer, basic RF measurements, and troubleshooting guides.

Job Search Workshop

This course covers communications skills, effective resume writing, and job hunting techniques. Students are also taught how to improve their interpersonal skills and how to promote and market their skills using effective interviewing techniques.

180 33006 Total Instruction Hours 18 SCH
(Semester Credit Hours)



We Welcome

*Corporate Tuition, Reimbursement,
Workers Compensation, California
Training Benefits, ETP, Calworks,
Trade Adjustment Assistance (TAA),
Vocational Rehab...*

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