

**Mississippi Valley State University
Department of Engineering Technology
Course Syllabus**

ET 341L Fiber Optics Lab

Lab, Friday 10:00 am 11:50 am

Classroom: 1112

Credit Hours: 1

Mr. Lemorris Strong – Associate Professor

Office Phone: 254-3409

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Office Hours: As posted

**Pre-requisite: A grade of “C” or better in E
ET 242 Digital Electronics**

COURSE DESCRIPTION

This course provides direct experience with Fiber Optics functions, theories and equipment through hands-on experiments, assignments, and demonstrations. Students will work individually and collectively to complete exercises, and assignments related to the following areas:

STUDENT LEARNING OUTCOMES; Upon the completion of this course, students will be able to demonstrate hands on analysis skills successfully, with minimum use of outside reference. Students will perform projects using Fiber Components and test equipment in order to finalize test results in the following areas of;

1. Fiber Transmission
2. Recognize symbols and schematic diagram
3. Optical fibers type, their properties, materials and structure
4. Connectors and splices
5. Cabling and wavelength
6. Transmitter and receivers
7. System and subsystem troubleshooting
8. Light sources

EXPECTATIONS: This course of study has been prepared to inform you about the lab requirements, contents, teaching methods, evaluation process and requirements for students. You are expected to read the information carefully so that you understand what is expected of you and the course requirements that must be met to successfully complete the course. You will be held responsible and accountable for knowing the schedule of lab meeting and examinations. It is recommended that you read and study all assigned materials. If you do not understand the material, you should promptly consult your instructor.

GRADE STANDARDS AND WEIGHTS FOR ET241L: All lab assignments must be submitted for grading by the due date. Assignments that are not typed must be neatly written on lineless paper.

LAB METHOD: Two (2) hours of laboratory weekly

LAB PROJECTS AND ASSIGNMENTS; The lab assignments will cover Energy and power conversion projects for generating electricity. The source shall dealing with renewable energy, nonrenewable energy, and inexhaustible energy. The types of power generated must be either, electrical, mechanical or fluid.. All completed project must be support by a paper

ASSESSMENT SHEET ET-331L

Schedule	Means of Assessment	Points	Points
Week 2	identify project and began progress report	50	
Week 3	order materials & update progress report	50	
Week 4	received materials, update progress report	50	
Week 5	Instructor check point – review progress report & material	100	
Week 5	start proto type & update progress report	50	
Week 6	identify any problems & update progress report	50	
Week 7	Oct 1 – 5 Med Term - Instructor reviews progress report and status of project	100	
Week 8	Correct any finding and continue project Update progress report	50	
Week 9	Progress check point 1 verify proto type will work if not troubleshoot fault	50	
Week 10	Progress check point2 –Repeat process until the problem is corrected	50	
Week 11	Progress check point 3-continue proto type & update progress report	50	
Week 12	Create poster board for project	50	
Week 13	Project completed and ready to be present to class	50	
Week 14	Final Exams – turn in progress report and display project and poster board for inspection	150	
	Final Grade	900	

Grading system: A = 91-100 or 810 -900

B = 81-90 or 710 - 800
C = 71-80 or 610 - 700
D = 61-70 or 510 - 600
F = 0- 61

REFERENCES: The CD contained in the back of your class book, You Tube, (youtube.com) power and energy conversion or other resources that are available

Class Policies: The following class policies are in effect throughout this course to ensure that a positive and equitable learning environment exists for all class members. Failure to follow these class policies may result in sanctions per the student handbook. Policies for class include:

Attendance: **Students are expected to attend class.** Any absentees will have a negative effect upon your final course grade. Students are responsible for and accountable for all information in lectures and all modifications to assignments presented in class. If a student misses a class, he or she is responsible for the material missed – even if a valid excuse is presented.

Punctuality: Every student is expected to practice professional time management skills and report to class on time.

Professional Language/Respect: Professional language, conduct, and respect for peers, the instructor, and the learning process are a basic requirement. This is a “G” rated course

Disruptive Behavior: Effective learning environments require the attention and positive contribution of both student and teacher. Sidebar or loud conversations, jokes, laughter, pranks, etc., between and among students in the classroom while class is in session are disruptive to the learning environment. Students disrupting the class/learning environment in such a manner are subject to grading penalties.

Others Attending Class: Those who are not registered for the course are not permitted to attend. This includes, but is not limited to, boyfriends/girlfriends, children, siblings, spouses, etc.

Electronic Devices: Cell phones, iPads, iPods, etc. will not be used in class and should be turned OFF **BEFORE** you enter the classroom. Electronic device use will result in **immediate expulsion** from the class.

Computer: Doing class computer usage has to be approval by the Instructor

Make-up Work: **No make-ups assignments are available.** **Assignment due dates are announced well in advance and are FIRM. There are no exceptions for athletic travel or other pre-planned absences. Students are encouraged to complete assignments EARLY and to submit them PRIOR TO THE DEADLINE.** Assignments will only be accepted as called for by the instructor, on or prior to the due date. **No make-ups will be given for missed assignments or examinations.** **An excuse from the Office of Student Affairs DOES NOT EXCUSE the student from work or assignments missed during the absence!**

Honor Code: Any work submitted is expected to be yours. Dishonesty (cheating) in any form will not be tolerated. Cheating will result in the student(s) involved being immediately dismissed from the class and receiving a grade of "F" for the course. Cheating includes submitting someone else's work as your own or allowing someone else to submit your work as theirs. Cheating will be determined at the sole discretion of the instructor.

Other: All other student conduct policies are in full effect as explained in the Mississippi Valley State University Undergraduate Catalog.

DRESS POLICY; *There is no MVSU dress policy, however in this class there will be NO pants sagging, NO hats, hoods, or any other headgear worn (females are allowed to wear hats). If this dress policy is violated you will be asked to leave the class room with a loss of 20 points. Only an excuse from the Department Head will allow you to return.*

Accommodating Special Needs Students: Students with learning or physical disabilities admitted to this class will be expected to perform the same level of work at the same proficiency as students without disabilities. However, where necessary, alternative methods will be used to accommodate any learning or physical condition if it is made known to the instructor in advance. No student will be turned away from this class because of a disabling condition.

Mississippi Valley State University is committed to providing reasonable accommodations for students with a documented disability. If you feel you are eligible to receive accommodations for a covered disability (medical, physical, psychiatric, learning, vision, hearing, etc.) and would like to request it for this course, you must be registered with the Services for Students with Disabilities (SSD) program administered by University College. It is recommended that you visit the Disabilities Office located inside the EMAP Computer Lab in the Technical Education (IT) Building to register for the program at the beginning of each semester. If you are determined to be eligible after your confidential consultation, you will be provided with a Memo of Accommodations that must be submitted to each of your instructors.

For more information or to schedule an appointment, please contact Mr. Billy Benson, Jr. via phone or email at 662-254-3005 or billy.benson@mvsu.edu.

Withdrawals and Incompletes: A syllabus constitutes a contract between the student and the course instructor. Participation in this course indicates your acceptance of its teaching focus, requirements, and policies. Please review the syllabus and the course requirements as soon as possible. If you believe that the nature of this course does not meet your interests, needs or expectations, if you are not prepared for the amount of work involved or if you anticipate that the class meetings, assignment deadlines or abiding by the course policies will constitute an unacceptable hardship for you, you should drop the class by the drop/add deadline. **Incompletes will not be offered in this course.**