

ABET Construction Engineering Technology

Accreditation

The New Jersey Institute of Technology program in Construction Engineering Technology (CET) is accredited by the Engineering Technology Accreditation Commission of ABET, www.abet.org.



CET Program Educational Objectives

The undergraduate program leads to a Bachelor of Science degree in Engineering Technology Construction Engineering Technology (CET) Option. The CET program has the following Program Educational Objectives:

- (1) Graduates of our program will attain positions of responsibility within the various aspects of the construction industry, including vertical and horizontal construction in the public and private sectors.
- (2) Graduates of our program will have the necessary skills to avail themselves of the opportunities for lifelong learning and professional development.

CET Student Outcomes

Students from the CET program will attain (by the time of graduation):

- (1) An ability to apply knowledge, techniques, skills and modern tools of mathematics, science, engineering, and technology to solve broadly-defined engineering problems appropriate to the discipline;
- (2) An ability to design systems, components, or processes meeting specified needs for broadly-defined engineering problems appropriate to the discipline;
- (3) An ability to apply written, oral, and graphical communication in broadly-defined technical and non-technical environments; and an ability to identify and use appropriate technical literature;
- (4) An ability to conduct standard tests, measurements, and experiments and to analyze and interpret the results to improve processes; and
- (5) An ability to function effectively as a member as well as a leader on technical teams.

CET Program Criteria

The following are the CET Program Criteria:

- a. utilization of techniques that are appropriate to administer and evaluate construction contracts, documents, and codes;
- b. estimation of costs, estimation of quantities, and evaluation of materials for construction projects;
- c. utilization of measuring methods, hardware, and software that are appropriate for field, laboratory, and office processes related to construction;
- d. application of fundamental computational methods and elementary analytical techniques in sub-disciplines related to construction engineering;
- e. production and utilization of documents related to design, construction, and operations;
- f. performance of economic analyses and cost estimates related to design, construction, and maintenance of systems associated with construction engineering;
- g. selection of appropriate construction materials and practices;
- h. application of appropriate principles of construction management, law, and ethics; and
- i. performance of standard analysis and design in at least one sub-discipline related to construction engineering; in the case of the CET program, the subdiscipline is structural design for construction.

CET Enrollment and Degrees Awarded

	Academic Year		Enrollment Year					Total Undergrad	Degrees Awarded
			1st	2nd	3rd	4th	5th		Bachelors
Current Year	2021	FT	3	12	20	30		65	41
		PT		2	5	24		31	
1	2020	FT	5	8	37	26		76	35
		PT		3	7	27		37	
2	2019	FT	8	21	27	33		89	31
		PT		8	7	18		33	
3	2018	FT	4	14	35	31		84	31
		PT	1	7	10	15		33	
4	2017	FT	4	20	34	34		92	28
		PT		2	11	14		27	