



Date: 18<sup>th</sup> June 2019

**Study Webs of Active-Learning for Young Aspiring Minds (SWAYAM)**

**National Programme on Technology Enhanced Learning (NPTEL)**

**Session: July – October 2019**

**Notice**

MIT Muzaffarpur became Local Chapter in December 2018. Jan – Apr 2019 was the first NPTEL session after becoming LC. Out of 124 candidates, 120 got certified which includes 17 Course Topper, 13 Gold, 22 Silver, 39 Elite and 46 successful completion certificates. The institute ranked 105<sup>th</sup> position in [Best New Active Local Chapter](#) among 788 [Active Local Chapters](#).

SWAYAM – NPTEL session July - Oct 2019 is going to start from 2<sup>nd</sup> week of July. Earliest starting courses are 12-week NPTEL courses which will start from 29<sup>th</sup> July. The website to access the courses has been changed. You are suggested to be a little friendly with the new website before start of your course. The new website contains courses from UGC, CEC, IGNOU etc also which will start from 2<sup>nd</sup> week of July 2019. Enrolment and learning are free, but certification has charges. Courses with no end examination are free. Following are some useful links:

New website: <https://swayam.gov.in/>

Website User Guide: <https://drive.google.com/file/d/1dMUrWasUrhY7hC50ItjY0m1T4BiwRPS/view>

NPTEL Section: [https://swayam.gov.in/nc\\_details/NPTEL](https://swayam.gov.in/nc_details/NPTEL)

Jul to Dec 2019 - Timelines and Guidelines: [https://nptel.ac.in/about\\_nptel.php#J](https://nptel.ac.in/about_nptel.php#J)

NPTEL Course List: [https://docs.google.com/spreadsheets/d/e/2PACX-1vRgBO0bXtb52Ocx-aT7yy6j5twA-3GcgWiN5RCGboG3XTD6P5hWpG\\_jbz8PZA1Aw5YPI2MeEPziCyKm/pubhtml?gid=0&single=true](https://docs.google.com/spreadsheets/d/e/2PACX-1vRgBO0bXtb52Ocx-aT7yy6j5twA-3GcgWiN5RCGboG3XTD6P5hWpG_jbz8PZA1Aw5YPI2MeEPziCyKm/pubhtml?gid=0&single=true)

NPTEL Course Catalog: <https://swayam.gov.in/explorer?ncCode=NPTEL>

NPTEL Course Booklet: [https://storagenptel.blob.core.windows.net/nptel-cdn/Booklet\\_jul-dec\\_2019.pdf](https://storagenptel.blob.core.windows.net/nptel-cdn/Booklet_jul-dec_2019.pdf)

FDP Courses for Faculties: [https://nptel.ac.in/AICTE\\_FDP/](https://nptel.ac.in/AICTE_FDP/)

[https://nptel.ac.in/AICTE\\_FDP/newstyles/images/jul\\_dec\\_2019\\_fdp\\_courses.pdf](https://nptel.ac.in/AICTE_FDP/newstyles/images/jul_dec_2019_fdp_courses.pdf)

Institute NPTEL section: <https://www.mitmuzaffarpur.org/nptel/about-nptel/>

The new mobile app (For Android Phones) is more user friendly. Enrolment and learning can be done easily from that application. It will soon have fully functional assignment submission feature also. New app can be downloaded from here: <https://play.google.com/store/apps/details?id=in.gov.swayam.app>. Click this given link and open it with play store.

**Enrolment Instructions**

Everyone joining one or more course(s) must submit your details correctly. Special attention must be given while answering “**Are you a part of a SWAYAM local chapter?**”, you must select “**Yes**”. Once you select yes, while answering “**College Name**” search for “**MUZAFFARPUR INSTITUTE OF TECHNOLOGY, MUZAFFARPUR**”, and select it. Put your department name correctly. Student must put their College Roll Number.

**Examination Registration Instructions**

While **registering for examination** everyone must select “**Yes**” for “**sharing of information with college**”, otherwise reimbursement won’t be done since we will not be able to verify your activity and certificate(s). Register for examination on time i.e. without late fine since additional late fee charges will not be reimbursed. Upload a proper passport size photo, it is going to appear on your admit card and certificate(s).

**NOTE:** The pass criteria for exams is being changed from July 2019.

*Final Score = Assignment (25%) + Exam (75%) \*\**

**New criteria:** A learner will pass and be certified only if Average assignment score  $\geq 10$  AND final proctored score  $\geq 30$

**\*\* Few courses might have a different criteria, however these too would have appropriate minimum for assignment and exam.**

Following is the list of recommended courses for students for each department for session July – October 2019.

CIVIL ENGINEERING				
Year	Course Name	Link	Duration (Weeks)	Start Date
1 <sup>st</sup>	Developing Soft Skills and Personality	<a href="https://swayam.gov.in/nd1_noc19_hs32/">https://swayam.gov.in/nd1_noc19_hs32/</a>	8	26 <sup>th</sup> August, 2019
	Body language: Key to professional Success	<a href="https://swayam.gov.in/nd1_noc19_hs34/">https://swayam.gov.in/nd1_noc19_hs34/</a>	4	29 <sup>th</sup> July, 2019
2 <sup>nd</sup>	GPS Surveying	<a href="https://swayam.gov.in/nd1_noc19_ce39/">https://swayam.gov.in/nd1_noc19_ce39/</a>	4	29 <sup>th</sup> July, 2019
	Remote Sensing and GIS	<a href="https://swayam.gov.in/nd1_noc19_ce41/">https://swayam.gov.in/nd1_noc19_ce41/</a>	8	29 <sup>th</sup> July, 2019
3 <sup>rd</sup>	Design of Masonry Structures	<a href="https://swayam.gov.in/nd1_noc19_ce21/">https://swayam.gov.in/nd1_noc19_ce21/</a>	12	29 <sup>th</sup> July, 2019
	Environmental Geotechnics	<a href="https://swayam.gov.in/nd1_noc19_ce37/">https://swayam.gov.in/nd1_noc19_ce37/</a>	12	29 <sup>th</sup> July, 2019
	Wastewater Treatment and Recycling	<a href="https://swayam.gov.in/nd1_noc19_ce32/">https://swayam.gov.in/nd1_noc19_ce32/</a>	12	29 <sup>th</sup> July, 2019
4 <sup>th</sup>	Sustainable Materials and Green Buildings	<a href="https://swayam.gov.in/nd1_noc19_ce40/">https://swayam.gov.in/nd1_noc19_ce40/</a>	12	29 <sup>th</sup> July, 2019
	Structural Dynamics for Civil Engineers – SDOF systems	<a href="https://swayam.gov.in/nd1_noc19_ce27/">https://swayam.gov.in/nd1_noc19_ce27/</a>	4	26 <sup>th</sup> August, 2019
	Numerical Methods for Engineers	<a href="https://swayam.gov.in/nd1_noc19_ge30/">https://swayam.gov.in/nd1_noc19_ge30/</a>	12	29 <sup>th</sup> July, 2019

Coordinator: Mr. Vijay Kumar, Assistant Professor, Dept. of CE

ELECTRICAL ENGINEERING				
Year	Course Name	Link	Duration (Weeks)	Start Date
1 <sup>st</sup>	Fundamentals of Electrical Engineering	<a href="https://swayam.gov.in/nd1_noc19_ee35/preview">https://swayam.gov.in/nd1_noc19_ee35/preview</a>	12	29 <sup>th</sup> July, 2019
	Basic Electric Circuits	<a href="https://swayam.gov.in/nd1_noc19_ee36/preview">https://swayam.gov.in/nd1_noc19_ee36/preview</a>	12	29 <sup>th</sup> July, 2019
2 <sup>nd</sup>	Op-Amp Practical Applications: Design, Simulation and Implementation	<a href="https://swayam.gov.in/nd1_noc19_ee39/preview">https://swayam.gov.in/nd1_noc19_ee39/preview</a>	12	29 <sup>th</sup> July, 2019
	Digital Circuits	<a href="https://swayam.gov.in/nd1_noc19_ee51/preview">https://swayam.gov.in/nd1_noc19_ee51/preview</a>	12	29 <sup>th</sup> July, 2019
	Electrical Machines	<a href="https://swayam.gov.in/nd1_noc19_ee69/preview">https://swayam.gov.in/nd1_noc19_ee69/preview</a>	12	29 <sup>th</sup> July, 2019
	Electrical Machines - I	<a href="https://swayam.gov.in/nd1_noc19_ee60/preview">https://swayam.gov.in/nd1_noc19_ee60/preview</a>	12	29 <sup>th</sup> July, 2019
3 <sup>rd</sup>	Power Electronics	<a href="https://swayam.gov.in/nd1_noc19_ee37/preview">https://swayam.gov.in/nd1_noc19_ee37/preview</a>	12	29 <sup>th</sup> July, 2019
	Electrical Measurement and Electronic Instruments	<a href="https://swayam.gov.in/nd1_noc19_ee44/preview">https://swayam.gov.in/nd1_noc19_ee44/preview</a>	12	29 <sup>th</sup> July, 2019
	Fundamentals of Electric Drives	<a href="https://swayam.gov.in/nd1_noc19_ee65/preview">https://swayam.gov.in/nd1_noc19_ee65/preview</a>	8	29 <sup>th</sup> July, 2019
	Electrical Distribution System Analysis	<a href="https://swayam.gov.in/nd1_noc19_ee61/preview">https://swayam.gov.in/nd1_noc19_ee61/preview</a>	8	29 <sup>th</sup> July, 2019
4 <sup>th</sup>	Control engineering	<a href="https://swayam.gov.in/nd1_noc19_ee42/preview">https://swayam.gov.in/nd1_noc19_ee42/preview</a>	12	29 <sup>th</sup> July, 2019
	Control Systems	<a href="https://swayam.gov.in/nd1_noc19_de04/preview">https://swayam.gov.in/nd1_noc19_de04/preview</a>	12	29 <sup>th</sup> July, 2019
	Linear System Theory	<a href="https://swayam.gov.in/nd1_noc19_ee43/preview">https://swayam.gov.in/nd1_noc19_ee43/preview</a>	12	29 <sup>th</sup> July, 2019



	De Microgrid	<a href="https://swayam.gov.in/nd1_noc19_ee63/preview">https://swayam.gov.in/nd1_noc19_ee63/preview</a>	8	29 <sup>th</sup> July, 2019
	Power System Analysis	<a href="https://swayam.gov.in/nd1_noc19_ee62/preview">https://swayam.gov.in/nd1_noc19_ee62/preview</a>	12	29 <sup>th</sup> July, 2019
	Introduction to Smart Grid	<a href="https://swayam.gov.in/nd1_noc19_ee64/preview">https://swayam.gov.in/nd1_noc19_ee64/preview</a>	8	29 <sup>th</sup> July, 2019
	Advanced Linear Continuous Control Systems: Applications with MATLAB Programming and Simulink	<a href="https://swayam.gov.in/nd1_noc19_ee45/preview">https://swayam.gov.in/nd1_noc19_ee45/preview</a>	8	29 <sup>th</sup> July, 2019
Coordinator: Mr. H C Verma, Assistant Professor, Dept. of EE				

<b>ELECTRONICS &amp; COMMUNICATION ENGINEERING</b>				
Year	Course Name	Link	Duration (Weeks)	Start Date
1 <sup>st</sup>	Basic Electric Circuits	<a href="https://swayam.gov.in/nd1_noc19_ee36/preview">https://swayam.gov.in/nd1_noc19_ee36/preview</a>	12	29 <sup>th</sup> July, 2019
2 <sup>nd</sup>	Digital Circuits	<a href="https://swayam.gov.in/nd1_noc19_ee51/preview">https://swayam.gov.in/nd1_noc19_ee51/preview</a>	12	29 <sup>th</sup> July, 2019
	Microelectronics: Devices To Circuit	<a href="https://swayam.gov.in/nd1_noc19_ee54/preview">https://swayam.gov.in/nd1_noc19_ee54/preview</a>	12	29 <sup>th</sup> July, 2019
	Op-Amp Practical Applications: Design, Simulation and Implementation	<a href="https://swayam.gov.in/nd1_noc19_ee39/preview">https://swayam.gov.in/nd1_noc19_ee39/preview</a>	12	29 <sup>th</sup> July, 2019
3 <sup>rd</sup>	Analog Communication	<a href="https://swayam.gov.in/nd1_noc19_ee46/preview">https://swayam.gov.in/nd1_noc19_ee46/preview</a>	12	29 <sup>th</sup> July, 2019
	Analog Electronic Circuit	<a href="https://swayam.gov.in/nd1_noc19_ee38/preview">https://swayam.gov.in/nd1_noc19_ee38/preview</a>	12	29 <sup>th</sup> July, 2019
4 <sup>th</sup>	Digital Image Processing	<a href="https://swayam.gov.in/nd1_noc19_ee55/preview">https://swayam.gov.in/nd1_noc19_ee55/preview</a>	12	29 <sup>th</sup> July, 2019
	Fiber-Optic Communication Systems and Techniques	<a href="https://swayam.gov.in/nd1_noc19_ee67/preview">https://swayam.gov.in/nd1_noc19_ee67/preview</a>	12	29 <sup>th</sup> July, 2019
	Digital Signal Processing	<a href="https://swayam.gov.in/nd1_noc19_ee50/preview">https://swayam.gov.in/nd1_noc19_ee50/preview</a>	12	29 <sup>th</sup> July, 2019
	Introduction to Wireless and Cellular Communications	<a href="https://swayam.gov.in/nd1_noc19_ee48/preview">https://swayam.gov.in/nd1_noc19_ee48/preview</a>	12	29 <sup>th</sup> July, 2019
	Control engineering	<a href="https://swayam.gov.in/nd1_noc19_ee42/preview">https://swayam.gov.in/nd1_noc19_ee42/preview</a>	12	29 <sup>th</sup> July, 2019
	Sensors and Actuators	<a href="https://swayam.gov.in/nd1_noc19_ee41/preview">https://swayam.gov.in/nd1_noc19_ee41/preview</a>	12	29 <sup>th</sup> July, 2019
Coordinator: Mr. Umar Farooque, Assistant Professor, Dept. of EC				

<b>INFORMATION TECHNOLOGY</b>				
Year	Course Name	Link	Duration (Weeks)	Start Date
1 <sup>st</sup> (All Department)	Modern Algebra	<a href="https://swayam.gov.in/nd1_noc19_cs78/preview">https://swayam.gov.in/nd1_noc19_cs78/preview</a>	8	26 <sup>th</sup> Aug, 2019
	Computer Fundamentals	<a href="https://swayam.gov.in/nd2_cec19_cs06/preview">https://swayam.gov.in/nd2_cec19_cs06/preview</a>	12	8 <sup>th</sup> Aug, 2019
	Introduction to Programming in C	<a href="https://swayam.gov.in/nd1_noc19_cs42/preview">https://swayam.gov.in/nd1_noc19_cs42/preview</a>	8	29 <sup>th</sup> July, 2019
	Problem Solving Through Programming in C	<a href="https://swayam.gov.in/nd1_noc19_cs43/preview">https://swayam.gov.in/nd1_noc19_cs43/preview</a>	12	29 <sup>th</sup> July, 2019
2 <sup>nd</sup>	An Introduction to Programming through C++	<a href="https://swayam.gov.in/nd1_noc19_cs39/preview">https://swayam.gov.in/nd1_noc19_cs39/preview</a>	12	29 <sup>th</sup> July, 2019
	The Joy of Computing using Python	<a href="https://swayam.gov.in/nd1_noc19_cs41/preview">https://swayam.gov.in/nd1_noc19_cs41/preview</a>	12	29 <sup>th</sup> July, 2019
	C Programming and Assembly Language	<a href="https://swayam.gov.in/nd1_noc19_cs44/preview">https://swayam.gov.in/nd1_noc19_cs44/preview</a>	4	29 <sup>th</sup> July, 2019
3 <sup>rd</sup> & 4 <sup>th</sup>	Ethical Hacking	<a href="https://swayam.gov.in/nd1_noc19_cs68/preview">https://swayam.gov.in/nd1_noc19_cs68/preview</a>	12	29 <sup>th</sup> July, 2019
	Introduction to Internet of Things	<a href="https://swayam.gov.in/nd1_noc19_cs65/preview">https://swayam.gov.in/nd1_noc19_cs65/preview</a>	12	29 <sup>th</sup> July, 2019
	Programming, Data Structures And Algorithms Using Python	<a href="https://swayam.gov.in/nd1_noc19_cs40/preview">https://swayam.gov.in/nd1_noc19_cs40/preview</a>	8	29 <sup>th</sup> July, 2019
	Introduction to Machine Learning	<a href="https://swayam.gov.in/nd1_noc19_cs53/preview">https://swayam.gov.in/nd1_noc19_cs53/preview</a>	12	29 <sup>th</sup> July, 2019
Coordinator: Mr. Ashish Kumar, Assistant Professor, Dept. of IT				



MECHANICAL ENGINEERING				
Year	Course Name	Link	Duration (Weeks)	Start Date
1 <sup>st</sup>	Engineering Mechanics	<a href="https://swayam.gov.in/nd1_noc19_me41/preview">https://swayam.gov.in/nd1_noc19_me41/preview</a>	12	29 <sup>th</sup> July, 2019
	Technical English for Engineers	<a href="https://swayam.gov.in/nd1_noc19_hs31/preview">https://swayam.gov.in/nd1_noc19_hs31/preview</a>	8	29 <sup>th</sup> July, 2019
2 <sup>nd</sup>	Concepts of Thermodynamics	<a href="https://swayam.gov.in/nd1_noc19_me56/preview">https://swayam.gov.in/nd1_noc19_me56/preview</a>	12	29 <sup>th</sup> July, 2019
	Strength of Materials	<a href="https://swayam.gov.in/nd1_noc19_ce18/preview">https://swayam.gov.in/nd1_noc19_ce18/preview</a>	12	29 <sup>th</sup> July, 2019
3 <sup>rd</sup>	Design for Quality, Manufacturing and Assembly	<a href="https://swayam.gov.in/nd1_noc19_me48/preview">https://swayam.gov.in/nd1_noc19_me48/preview</a>	8	29 <sup>th</sup> July, 2019
	Steam Power Engineering	<a href="https://swayam.gov.in/nd1_noc19_me63/preview">https://swayam.gov.in/nd1_noc19_me63/preview</a>	8	26 <sup>th</sup> Aug, 2019
	Fluid Machines	<a href="https://swayam.gov.in/nd1_noc19_me55/preview">https://swayam.gov.in/nd1_noc19_me55/preview</a>	8	26 <sup>th</sup> Aug, 2019
4 <sup>th</sup>	Refrigeration and Air conditioning	<a href="https://swayam.gov.in/nd1_noc19_me58/preview">https://swayam.gov.in/nd1_noc19_me58/preview</a>	8	29 <sup>th</sup> July, 2019
	Aircraft Propulsion	<a href="https://swayam.gov.in/nd1_noc19_me76/preview">https://swayam.gov.in/nd1_noc19_me76/preview</a>	12	29 <sup>th</sup> July, 2019
	Advanced concepts in Fluid Mechanics	<a href="https://swayam.gov.in/nd1_noc19_me53/preview">https://swayam.gov.in/nd1_noc19_me53/preview</a>	12	29 <sup>th</sup> July, 2019
	Manufacturing of Composites	<a href="https://swayam.gov.in/nd1_noc19_me67/preview">https://swayam.gov.in/nd1_noc19_me67/preview</a>	8	26 <sup>th</sup> Aug, 2019

Coordinator: Mr. Ankit Kumar, Assistant Professor, Dept. of ME

APPLIED SCIENCE & HUMANITIES				
Year	Course Name	Link	Duration (Weeks)	Start Date
All Department All Year	Numerical Methods And Simulation Techniques for Scientists and Engineers	<a href="https://swayam.gov.in/nd1_noc19_ph11/preview">https://swayam.gov.in/nd1_noc19_ph11/preview</a>	8	26 <sup>th</sup> Aug, 2019
	Introduction to Electromagnetic Theory	<a href="https://swayam.gov.in/nd1_noc19_ph08/preview">https://swayam.gov.in/nd1_noc19_ph08/preview</a>	8	29 <sup>th</sup> July, 2019
	Developing Soft Skills and Personality	<a href="https://swayam.gov.in/nd1_noc19_hs32/preview">https://swayam.gov.in/nd1_noc19_hs32/preview</a>	8	26 <sup>th</sup> Aug, 2019

Coordinator: Dr. Nidhish Kumar Singh, Assistant Professor, Dept. of AS & H

Above list of courses are recommendation for students. You can take any course you would like to study not necessarily from the above list. Number of Registration for examination in various courses should be done keeping new passing criteria in mind. List of mentors for various courses will be updated soon.

All the best!

Nodal Officer  
ICT  
MIT Muzaffarpur