



# DIRECTORATE OF TECHNICAL EDUCATION KERALA

## TRAINING CALENDAR 2018-2019

### FACULTY AND STAFF DEVELOPMENT CENTRE



#### FROM THE DIRECTOR'S DESK . . .

The Directorate of Technical Education is committed for updating and upgrading the quality of technical education in the state. To improve the quality of technical education which plays a vital role in human resources development, as well as employment generation and the overall development of the country, it is imperative to tailor it in such a direction so as to i) enable our youth to face global challenges in job sector, ii) improve the quality of academic research iii) bridge the gap between demand and supply in employment sector, iv) foster entrepreneurship and self employment potentials and v) promote innovations. In order to achieve this, suitable mechanisms should be framed for the implementation effective and dynamic pedagogical practices. The faculty and staff have to be trained regularly to ensure that the entire faculty and staff in technical institutions are being trained in a uniform manner with focus on learner-centered and skill based approach. Along with this the capability of the faculty is to be enhanced to develop better understanding of the post-millennial generation students and thereby become effective mentors capable to inspire students to bloom to their full potential and help them to mature into balanced young professionals. The training programmes under the Faculty and Staff Development Centre (FSDTC) Scheme are framed considering all the above mentioned objectives. The IT section of the Directorate has developed dedicated a web based application to take care of the various aspects of the training programmes. The training calendar for the academic year 2018-2019 is presented in this document. I extend my warm wishes to all faculty and staff for a very vibrant and fruitful academic year.

**Dr.K.P.Indira Devi,**  
**Director of Technical Education**

#### DIRECTORATE OF TECHNICAL EDUCATION

Directorate of Technical Education, Government of Kerala leads all the activities related to technical education in the state. Currently there are 12 Engineering Colleges (9 Govt. Colleges and 3 Govt. aided Colleges), 51 Polytechnic Colleges (45 Govt. polytechnic colleges and 6 government aided polytechnic colleges), 3 Fine Arts Colleges, 39 Technical High Schools, 17 Commercial Institutes and 42 Tailoring and Garment Making Centres functioning all over the state, under the control of the Directorate. The two Regional Directorates and the State Institute of Technical Teachers Training and Research are also functioning as part of the department. A Supervisory Development Centre and an Industry Institute Interaction Cell are functioning for the benefit of the faculty and students of the institutions. There is an Examination Wing working under the department for the conduct of diploma and certificate level examinations. The directorate is responsible for coordinating the various activities of these institutions including maintaining the standards of curricular and co-curricular activities. Various activities are being taken up to maintain the quality of technical education so that the students passing out of these institutions are accepted worldwide. The teaching and non teaching staff of the institutions is given opportunities to develop their quality through various career advancement schemes implemented. Provision is made for teachers and students to interact with the experienced and expert academicians and also to visit the various leading educational institutions all over the world. Industry Institute Interaction is also highly encouraged so that the actual need of the hour can be analysed and curriculum be modified to suite the same. This also helps in getting in touch with the practical Knowledge in the technological field and also to share the expertise available in the institutions with the industries.

## FACULTY AND STAFF DEVELOPMENT TRAINING CENTRE -TRAINING CALENDAR 2018 – 2019

Course No.	Course Name	Coordinator	Centre	Registration Start	Registration End	Course Start	Course End	Duration (Days)
F1819001	Capability Enhancement Programme For Staff Advisors	Dr.Deepa P. Gopinath	DTE	13-06-2018	17-06-2018	18-06-2018	23-06-2018	6
F1819002	Outcome Based Accreditation	Sini V.Pillai	CET	01-06-2018	20-06-2018	25-06-2018	29-06-2018	5
F1819003	Capability Enhancement Training For Staff Advisors	Mini Soman	CET	12-06-2018	23-06-2018	25-06-2018	30-06-2018	6
F1819004	Energy Conversion Technologies For Future - Research Prospects	Dr T D John	KNR	15-06-2018	22-06-2018	25-06-2018	29-06-2018	5
F1819005	Computer Analysis Of Power System	Dr. Jasmin E A	TCR	04-06-2018	18-06-2018	25-06-2018	29-06-2018	5
F1819006	Capability Enhancement Training For Staff Advisors	Asha Murali	CET	13-06-2018	02-07-2018	02-07-2018	07-07-2018	6
F1819007	Recent Trends In Harnessing Renewable Energy	Jojo V Antony	TCR	04-06-2018	27-06-2018	02-07-2018	06-07-2018	5
F1819008	Advances In NDT Methods For Flaw Detection	Dr.Yashida Nadir	CET	26-06-2018	09-07-2018	09-07-2018	14-07-2018	6
F1819009	Laboratory Practices In Civil Engineering -As Per KTU Syllabus	Dr.Girija K.	CET	20-06-2018	05-07-2018	09-07-2018	13-07-2018	5
F1819010	Capability Enhancement Training For Staff Advisors	Bindu C A	TCR	18-06-2018	07-07-2018	09-07-2018	14-07-2018	6
F1819011	Operation And Control Of Modern Power Systems With Increasing Renewable Energy Penetration	Dr. R. M. Shereef	CET	20-06-2018	10-07-2018	16-07-2018	21-07-2018	6
F1819012	Sustainable Construction Materials	Dr. Deepa Raj S	CET	26-06-2018	16-07-2018	16-07-2018	20-07-2018	5
F1819013	Advances In Aeronautics And Astronautics	Dilip D	CET	25-06-2018	11-07-2018	16-07-2018	21-07-2018	6
F1819014	Pedagogy To Synergistic Andragogy-A New Paradigm In Engineering Education	Dr Vandana Sreedharan	KNR	04-07-2018	13-07-2018	16-07-2018	20-07-2018	5
F1819015	Recent Advances In Construction Management	Dr.Nowshaja P.T.	TCR	18-06-2018	10-07-2018	16-07-2018	20-07-2018	5
F1819016	Data Analytic Tools	Ali M A	TCR	18-06-2018	09-07-2018	16-07-2018	20-07-2018	5
F1819017	Capability Enhancement Training For Staff Advisors	Shamla B	TCR	02-07-2018	13-07-2018	16-07-2018	21-07-2018	6
F1819018	Capability Enhancement Training For Staff Advisors	Sukesh A	KNR	11-06-2018	20-07-2018	23-07-2018	28-07-2018	6
F1819019	Hands On Training On Robotics And Automation	Lalu P P	TCR	05-07-2018	21-07-2018	23-07-2018	27-07-2018	5
F1819020	Cyber Security And Digital Forensics	Sminessh C N	TCR	02-07-2018	20-07-2018	23-07-2018	27-07-2018	5
F1819021	Livability In Future Cities	Bindu C A	TCR	09-07-2018	21-07-2018	23-07-2018	27-07-2018	5
F1819022	E-Mobility	Indulal S	CET	15-07-2018	31-07-2018	06-08-2018	08-08-2018	3
F1819023	Interpersonal Skill Development For Last Grade Staff	Dr.Dhanya J S	CET	10-07-2018	27-07-2018	06-08-2018	10-08-2018	5
F1819024	Concepts, Implementation, And Verification Of Ipv6	Bineesh K.B	KNR	16-07-2018	01-08-2018	06-08-2018	10-08-2018	5
F1819025	Workshop On 'Trends In Hybrid Electric Vehicles	Baburaj P	KNR	01-07-2018	31-07-2018	06-08-2018	10-08-2018	5

F1819026	Advancements In Air Pollution Control Technologies	Meera V	TCR	20-08-2018	08-09-2018	10-09-2018	14-09-2018	5
F1819027	Linux Kernel Internals And Development	Baburaj K V	KNR	10-09-2018	19-09-2018	24-09-2018	28-09-2018	5
F1819028	Mathematical Modelling And Optimisation Of Systems	Dr V Vinod Kumar	KNR	24-09-2018	09-10-2018	22-10-2018	26-10-2018	5
F1819029	Skill Development For Ministerial Staff	Krishnamohan K	TCR	10-10-2018	13-10-2018	22-10-2018	26-10-2018	5
F1819030	Research Perspectives In Emerging Areas Of Industrial Safety & Environmental Engineering	Dr.Soman AR	TCR	08-10-2018	05-11-2018	12-11-2018	16-11-2018	5
F1819031	Linear Algebra And Its Applications In Signal Processing	Dr.Sreeni K G	CET	01-11-2018	15-11-2018	19-11-2018	24-11-2018	6
F1819032	Embedded Systems Design For Power Electronic Converters	Mini V P	CET	12-10-2018	09-11-2018	19-11-2018	23-11-2018	5
F1819033	Opensource Tools For Scientific Computing	K.S.Santhosh	CET	15-10-2018	05-11-2018	19-11-2018	24-11-2018	6
F1819034	Design And Implementation Of Solar PV Systems	Dr. Hari Kumar R	CET	01-10-2018	02-11-2018	26-11-2018	30-11-2018	5
F1819035	Innovation Management	Dr.Boby K. George	TCR	22-10-2018	02-11-2018	26-11-2018	30-11-2018	5
F1819036	Electrical System Design: New Trends	Asok Kumar A	CET	01-11-2018	15-11-2018	03-12-2018	08-12-2018	6
F1819037	Analog And Digital Integrated Circuit Design Using EDA Tools	Dr.Sajesh Kumar U.	KNR	22-10-2018	23-11-2018	03-12-2018	07-12-2018	5
F1819038	Recent Trends In Welding And Material Processing	Dr. K.K. Ramachandran	TCR	01-08-2018	31-10-2018	03-12-2018	07-12-2018	5
F1819039	Recent Advancements In Optical Wireless Technologies	Dr. Pradeep R.	CET	01-11-2018	15-11-2018	10-12-2018	15-12-2018	6
F1819040	Image Processing & Computer Vision	Dr. A. Ranjith Ram	KNR	19-11-2018	03-12-2018	10-12-2018	15-12-2018	6
F1819041	Power Electronics For Renewable Energy Applications	Jayaprakash P.	KNR	10-11-2018	30-11-2018	10-12-2018	15-12-2018	6
F1819042	Faculty Development Programme On Product Design	Anil Rajagopal K P	TCR	01-11-2018	30-11-2018	10-12-2018	14-12-2018	5
F1819043	Recent Trends In Power Electronics And Control	Dr Jaison Mathew	TCR	25-10-2018	25-11-2018	10-12-2018	14-12-2018	5
F1819044	Big-Data Analytics - Tools And Techniques	Swaraj K P	TCR	19-11-2018	23-11-2018	10-12-2018	14-12-2018	5
F1819045	Processing And Engineering Of Drugs And Pharmaceuticals	Dr. Manju M S	TCR	01-11-2018	30-11-2018	10-12-2018	14-12-2018	5
F1819046	Deep Learning	Dr. Salim A	CET	26-11-2018	07-12-2018	17-12-2018	21-12-2018	5
F1819047	Multivariate Data Analysis	Rajesh P	TCR	05-11-2018	10-12-2018	17-12-2018	21-12-2018	5
F1819048	Environmental Engineering- The Road Ahead	Shibu K	CET	07-01-2019	12-01-2019	14-01-2019	19-01-2019	6
F1819049	Computer Vision And Deep Learning Using Python & Opencv	Sajith B.	KNR	21-01-2019	30-01-2019	04-02-2019	08-02-2019	5
F1819050	Machine Learning And Data Analytics Using Open Source Solutions	Dr.Bindu P V	KNR	01-02-2019	15-02-2019	18-02-2019	22-02-2019	5

## Faculty and staff development Center (FSDTC)

Teachers being the mentors of the next generation, should be given training on all aspects of teaching from understanding student psychology to use of new pedagogical methods, to develop high quality professionals committed to the society. Training is imperative to bring out the best out of teachers and frame them as guide and philosopher in the shaping of the personality of the students. The subject updation is indispensable considering the fast pace of technical development in all branches of Engineering. Exposure to the emerging technologies as well as research orientation at regular intervals is to be given to faculty in order to enable them to impart high quality education to students and to guide them in a positive direction for future prospects, suitable to their talents and beneficial to the society. Periodic training is also to be given to supporting staff, both technical and non-technical for the maintenance and improvement of the quality of technical education. With these objectives, the Directorate had set up Faculty and Staff Development Centres in College of Engineering Thiruvananthapuram and Govt. Engineering College Thrissur in the year 2012-13. Subsequently the Faculty and Staff Development Training Centre at Govt. Engineering College, Kannur was started during the year 2016-17. The training calendar being prepared at the beginning of the academic year, includes programmes on e-governance, office proceedings, awareness on service rules, personality development etc. for all the staff including administrative staff in the department, along with the specific programmes for the faculty and technical staff for subject updation, pedagogical methods and overall capability enhancement. The objective of this scheme is to conduct the training programmes through the training division at the Directorate, College of Engineering Thiruvananthapuram, Govt. Engineering College Thrissur and Govt. Engineering College, Kannur and to extend these facilities to all other Govt. Engineering colleges and Govt. Polytechnic colleges.

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### Training Management System (TMS)

The IT section of the Directorate has developed a web based application for the conduct of training programs - taking care of all the requirements, starting from preparation of the calendar, online application and participant selection to collection of feedback from the participants and report writing. The employees can login to the Training Management System through the link given in the DTE site (<http://admissions.dtekerala.gov.in/tpms/>).

The course coordinators have to give submission to the center coordinators, after whose approval they can invite applications for the course. All the participants have to apply online for all the courses under FSDTC scheme and the IMG trainings. The user manual of the same is attached.

*Suggestions for improvement are most welcome regarding the software and the manual.*