Application Form	About The MITS	
	The Madhav Institute of Technology and	AICTE-QIP Sponsored
AICTE-QIP Sponsored Short Term Course	Science, Gwalior was established by His	
on	Fighness Late Sir Jiwaji Kao Scindia, Manaraja of	editor Teeday
Bio Electric Signals & Medical Imaging:	create world class quality engineers and	AICTE 2
Post Processing & Clinical Applications	Technocrats capable of providing leadership in	
(26 th Feb -08 th March, 2019)	all spheres of life and society.	
	Since the inception, the Institute has constantly	
Name :	strived for excellence and quality. Today the	TWO-WEEK
Designation	Institute enjoys a track record of extremely good	SHORT TERM COURSE
Designation:	results. Needless to say our commitment to	On
Organization:	turther enrich the quality of education will be	
Department:	our constant feature and our commitment.	Bio Electric Signals & Medical Imaging
	The Institute is located on Agra Bombay Road	Post Processing & Clinical Applications
Address for Correspondence	(NH - 3) & is approximately 320 km from Delhi	(26" Feb -08" March, 2019)
	Gwalior Railway station is halt for most of south	Course Coordinators
	bound trains from Delhi. The Institute is located	
P 1	in the heart of city and is at a distance of about 3	Dr. A.K. waunwam
E-mail:	km from Gwalior Bus Stand/ Gwalior Railway	Dr. Sulocnana wadhwahi
Mobile	Station.	
Accommodation: Required /Not required	Vision of Department	Organized By
1 / 1	To Educate and Prepare World Class Engineers for	
Signature with Date:	Global and Social Technological Demands	ATE OF
	Mission of Department	S CON
SPONSORSHIP CERTIFICATE	• To strive for excellence in teaching and research	
It is certified that our Institute is recognized by	and to promote academic growth by offering state-	Contraction of the second seco
AICTE. The applicant is hereby sponsored and will	of-the-art undergraduate, postgraduate and	WORK IS WORSHIP
be permitted to attend the above STC, if selected.	• To generate new knowledge by engaging in	~ ~
1	cutting-edge research for overall development of	Department of Electrical Engineering
	students and society	MADHAV INSTITUTE OF TECHNOLOGY &
Date: Signature and Seal of	• To identify areas of specialization based on an	SCIENCE GWALIOR, M.P. 474005
Place the Sponsoring authority	informed perception of regional, national and	(A GOVT. AIDED UGC AUTONOMOUS & NAAC ACCREDITED INSTITUTE,
	• To undertake collaborative projects which offer	ESTABLISHED IN 1957)
(completed application form in all respects is to be sent by	opportunities for long-term interaction with	www.initogwall01.ill
Email)	academia and industry	

Course Outline: Bioelectrical signals are very low amplitude and low frequency electrical signals that can be measured from biological beings, for example,	 Course Contents: Biomedical signal origin & dynamics (ECG, EEG, EMG etc.) Filtering techniques for Removal of artifact Methods for processing of bioelectrical signals 	Financial Assistance: There will be no registration fee for the participants. Free boarding and lodging will be arranged in the Institute Hostels/ Hotels/ Guest house
The analysis of bioelectrical signals continues to receive wide attention in research as well as commercially because novel signal processing techniques have helped to uncover valuable information for improved diagnosis and therapy.	 Wethous for processing of blockeenfear signals & images Feature Extraction: Time & frequency Domain Heart Rate Variability Analysis Neural Networks & Fuzzy logic in Medicine Artificial Intelligence Techniques in Health Services 	Reimbursement towards TA/DA will be made to participants attending the course in full. TA is limited to III AC for to and fro railway fare via shortest route
Biomedical signal and image processing techniques are becoming computational tools for clinical decision support. These tools have had a tremendous impact on healthcare and its	 Optimization for healthcare problems Physiological Control System Telemedicine etc Laboratory demos will supplement the material 	Important Dates:Last date for receipt of application(on or before):11.02.2019
economics. The success of these methodologies in clinical applications has often been attributed to an interdisciplinary nature that combines knowledge of biology/medicine with methods in computational sciences.	presented in the lectures Course Faculty: The faculty for the short term course will be mostly from reputed education and research	Intimation of selection: 12.02.2019 Address for all Communication:
The fast growth of monitoring and imaging methods calls for more specialized biomedical signal and image processing algorithms to process the data collected by the existing and emerging patient monitoring and imaging systems.	organizations. Also, faculty members of the institute are having a rich expertise in the area of signals processing, Artificial Intelligence & Optimization. Many research projects have been successfully completed/are in progress in these areas.	Dr. A. K. Wadhwani Professor, EED Course Coordinator Department of Electrical Engineering, MITS, Gwalior-474005
The idea behind this course is to promote interactions among the researchers, technical professionals and developer to share & discuss the advances in the field of signal/ image processing techniques in the field of biomedical engineering.	Registration: Teachers of AICTE recognized Engineering Institutions are eligible to apply for the course. Accommodation will be arranged on request of outstation participants on 'first some first sorve'	e-mail: <u>akwadhwani@mitsgwalior.in</u> Phone no.: 0751-2409211, 2409212 Mob: 09425308846, 09131363200
The main aim of this course is to focus on the computation of signal/image parameters that are diagnostically significant. Also to introduce the recent trends in the biomedical engineering and to motivate them to apply these techniques in the relevant research areas.	basis. The number of participants is limited to 30 for the Programme. The interested candidates need to apply on the prescribed format by the due date at the following address through post or by email to coordinators.	Note: Participants are requested to visit www.mitsgwalior.in for other important information.