

AICTE TRAINING AND LEARNING (ATAL) WORKSHOP ON

ROBOTICS FOR HEALTHCARE

FOR FACULTY AND PH.D SCHOLARS IN MECHANICAL ENGINEERING, BIOMEDICAL
ENGINEERING, ELECTRONICS ENGINEERING, ELECTRICAL ENGINEERING,
INSTRUMENTATION ENGINEERING, APPLIED MECHANICS AND ITS ALLIED COURSES
FROM AICTE APPROVED TECHNICAL INSTITUTIONS



NOVEMBER 04-08, 2019



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ROBOTICS FOR HEALTHCARE WILL PROVIDE THE KNOWLEDGE ABOUT EMERGING TRENDS IN HEALTHCARE TO ACADEMICIANS AND RESEARCH SCHOLARS. IT WILL BE HELPFUL IN DIFFERENT AREAS LIKE TELE-PRESENCE, SURGICAL ASSISTANCE, REHABILITATION ROBOTS, MEDICAL TRANSPORTATION ROBOTS, SANITATION AND DISINFECTION ROBOTS, ROBOTIC PRESCRIPTION DISPENSING SYSTEM.

VENUE

BIOMEDICAL INSTRUMENTATION AND SIGNAL PROCESSING LABORATORY
DEPARTMENT OF BIOMEDICAL ENGINEERING
SCHOOL OF TECHNOLOGY
NORTH-EASTERN HILL UNIVERSITY
SHILLONG 793 022, MEGHALAYA, INDIA
CONTACT: +91-9485026088
EMAIL: SUDIP.PAUL.BHU@GMAIL.COM

REGISTRATION: WWW.BISPL.NET/ATAL-ROBOTICS/

PROGRAMME SCHEDULE

DATES	10:00 AM TO 11:30 AM	11:30 AM TO 12:00 PM	12.00 PM TO 1.30 PM	1.30 PM TO 2:30 PM	2:30 PM TO 4.00 PM	4:15 PM TO 4:45 PM
04 NOV 19	REGISTRATION AND INAUGURATION	HIGH TEA	SESSION 1 INTRODUCTION TO ROBOTICS (LECTURE)	LUNCH	SESSION 2 APPLICATIONS OF IOT IN ROBOTICS FOR HEALTHCARE (LECTURE)	TEA
05 NOV 19	SESSION 3 INTRODUCTION TO BIOMEDICAL SENSORS AND TRANSDUCERS (LECTURE)	TEA	SESSION 4 INTEGRATION OF BIOMEDICAL SENSORS IN ROBOTIC SYSTEM (LECTURE)	LUNCH	SESSION 5 BASICS REQUIREMENT OF ROBOTIC DESIGN (PRACTICAL)	TEA
06 NOV 19	SESSION 6 ROBOTICS KINETICS AND DYNAMICS (LECTURE)	TEA	SESSION 7 ROBOTIC CONTROL SYSTEM AND MECHANISM (LECTURE)	LUNCH	SESSION 8 BASICS OF ROBOTIC MOTION AND CONTROL SYSTEM (PRACTICAL)	TEA
07 NOV 19	SESSION 9 DESIGN OF SOFTWARE INTERFACE FOR ROBOTIC CONTROL, MONITORING AND DATA ACQUISITION (LECTURE)	TEA	SESSION 10 IMAGE PROCESSING TECHNIQUE FOR ROBOTIC VISION (LECTURE)	LUNCH	SESSION 11 IMAGE PROCESSING BASED ROBOTIC CONTROL AND MOVEMENTS (PRACTICAL)	TEA
08 NOV 19	SESSION 12 CALIBRATION AND STANDARDIZATION OF HEALTHCARE INSTRUMENTATION (LECTURE)	TEA	SESSION 13 HANDS ON DESIGN OF ROBOTIC MODEL (PRACTICAL)	LUNCH	SESSION 14 HANDS ON DESIGN OF ROBOTIC MODEL (PRACTICAL)	VALEDICTION

RESOURCE PERSONS WILL BE FROM IIT(S), NIT(S), CENTRAL UNIVERSITIES AND OTHER AICTE APPROVED TECHNICAL INSTITUTIONS

COORDINATOR: DR. SUDIP PAUL (PHD, PDF)
ASSISTANT PROFESSOR
DEPARTMENT OF BIOMEDICAL ENGINEERING
NORTH-EASTERN HILL UNIVERSITY
CONTACT: 03642723855 (OFF)



ABOUT NORTH-EASTERN HILL UNIVERSITY

NORTH-EASTERN HILL UNIVERSITY WAS SET UP BY AN ACT OF PARLIAMENT AND NOTIFIED ON 19TH JULY 1973. THE OBJECTIVES OF THE UNIVERSITY, AS LAID DOWN IN THE ACT, ARE "TO DISSEMINATE AND ADVANCE KNOWLEDGE BY PROVIDING INSTRUCTIONAL AND RESEARCH FACILITIES IN SUCH BRANCHES OF LEARNING AS IT MAY DEEM FIT; TO PAY SPECIAL ATTENTION TO THE IMPROVEMENT OF THE SOCIAL AND ECONOMIC CONDITIONS AND WELFARE OF THE PEOPLE OF THE HILL AREAS OF THE NORTH-EASTERN REGION, AND IN PARTICULAR, THE INTELLECTUAL, ACADEMIC AND CULTURAL ADVANCEMENT". THIS UNIVERSITY IS "A" GRADE ACCREDITED BY NAAC.

ABOUT BIOMEDICAL ENGINEERING DEPARTMENT

THE DEPARTMENT OF BIOMEDICAL ENGINEERING (BME) WAS ESTABLISHED IN THE YEAR 2012, UNDER THE SCHOOL OF TECHNOLOGY, NEHU, SHILLONG FUNDED BY MHRD, GOVERNMENT OF INDIA, WITH THE SPECIFIC PURPOSE TO PROMOTE STUDIES IN NEW EMERGING AREAS OF MEDICAL SCIENCES EMPLOYING ADVANCEMENTS IN TECHNOLOGY FOR THE BENEFIT OF MASSES. THE DEPARTMENT OF THE UNIVERSITY INTENDS TO PROVIDE EDUCATION TO YOUNG MINDS FOR THE ACHIEVEMENT OF BETTER HEALTH CARE SOLUTIONS WITH EMPHASIS ON LEARNING NEW TECHNIQUES, DEVELOP INNOVATIVE IDEAS THROUGH LEARNING, SKILL DEVELOPMENT, RESEARCH AND DEVELOPMENT (R&D) AND INDUSTRY-INSTITUTION INTERACTION IN THE FIELD. THIS DEPARTMENT IS AICTE APPROVED.

THERE IS NO REGISTRATION FEES AND NO TA/DA WILL BE PROVIDED PARTICIPATION CERTIFICATE WILL BE PROVIDED BY ATAL ACADEMY