



MGM INSTITUTE OF HEALTH SCIENCES

(Deemed University u/s 3 of UGC Act, 1956)

Grade 'A' Accredited by NAAC

Sector-01, Kamothe, Navi Mumbai - 410 209

Tel 022-27432471, 022-27432994, Fax 022 - 27431094

E-mail : registrar@mgmuhs.com | Website : www.mgmuhs.com

Value Added Course

COURSE ON COMPUTER APPLICATION

Dr. Rajesh B. Goel
Registrar

MGM Institute of Health Sciences
(Deemed University u/s 3 of UGC Act, 1956)
Navi Mumbai- 410 209

Dr. Shashank D. Dalvi
Vice Chancellor
MGM Institute of Health Sciences
Navi Mumbai - 410209



Mahatma Gandhi Mission's
Medical College

Value Added Course

Computer Applications

Computers in Healthcare: Minimizing error and smart and swift Healthcare

The goals of medical education are to provide students and graduate clinicians specific facts and information, to teach strategies for applying this knowledge appropriately to the situations that arise in medical practice, and to encourage development of skills necessary to acquire new knowledge over a lifetime of practice.

Information technology is an increasingly important tool for accessing and managing medical information—both patient specific and more general scientific knowledge. Medical educators are aware of the need for all medical students to learn to use information technology effectively.

Computers also can play a direct role in the education process; students may interact with educational computer programs to acquire factual information and to learn and practice problem-solving techniques. In addition, practicing physicians may use computers to expand and reinforce their professional skills throughout their careers. The application of computer technology to education is often referred to as **computer assisted learning, computer-based education (CBE), or computer-aided instruction (CAI)**.

With its vast storage capacity, a computer can be an extension of the student's memory, providing quick access to reference and new content.

Multimedia capabilities allow the computer to present rapidly a much larger number of images than can be accessed through a book or an atlas and to supplement the static images with sounds, video clips, and interactive teaching modules. Immersive interfaces, which present three-dimensional worlds and allow touch and force feedback through a joystick or instrumented glove, promise to support the training environment of tomorrow.

Ways Computers Are Used in Medicine

Medical Imaging

Medical imaging is a broad term that covers technology used to create images of the human body for study and diagnosis.

Patient Monitoring

Modern computer-based patient monitoring machines allow heart rate, respiratory activity, blood pressure and other critical vital signs to be collected automatically in digital form.

Computer-Assisted Surgery

Computers are used to assist in planning, teaching and performing many surgical procedures.

Networks and Digital Communication

Computer networks and the internet have increased the means of communication between medical professionals with email, instant messaging, video chats and webinars.

Telemedicine

The concept of a house visit is returning to health care in the form of telemedicine.

Electronic Health Records

Perhaps one of the newest major developments in health care, the electronic health record (EHR) is also one of the most far-reaching.

Medical Databases

Computers have brought the development of many useful software solutions in the medical field.

Medical Research

Much of the current research being done into incurable diseases like AIDS and cancer involves the creation of complex computer simulations.

Computers and Hospital Administration

Most hospitals depend heavily on computers and specialized software that handles patient records, supply inventory, personnel scheduling and all the other details required to care for patients.

Uses of Computer in Offices

- The typical doctor's office relies heavily on computer technology for day-to-day operations.
- Everything from patient scheduling to billing to filing insurance claims takes place through a computer. Many doctors no longer write prescriptions, but instead send a digital prescription from their office computer directly to the patient's pharmacy.
- During diagnosis, many doctors consult online databases of medical conditions using a computer instead of looking at a medical book.

Why to learn computer skills:

- i. For this acquiring basic computer skill to use it effectively. To minimise error during working, patient care and early diagnosis with integrated approach for management of patient.
- ii. To get updated Knowledge and remain as lifelong learner.
- iii. To learn easy and swift communication skills such e-communication.
- iv. Most important be aware of research and innovation around the world and able to collaborate with various agencies. For that to become effective presenter of project.

'Hence this program to develop paperless hospital in future'

Eligibility:

Medical students (MBBS); MSc; BSc allied health science, Post Graduate and PHD

Course schedule:

Sr. No.	Topic	Theory hrs.	Practical hrs.
1	Introduction to computer application in medical sciences	1 hr.	-
2	Microsoft office & its applications	1 hr.	1 hr.
3	Use of Microsoft word & its application	30 min.	2 hrs.
4	Power point presentation	30 min.	2 hrs.
5	Use of media & Algorithm for PPT	30 min.	2 hrs.
6	Microsoft Excel, concept & analysis of data	1 hr.	2 hrs.
7	Microsoft publisher & Posters/ Banner making	30 min.	30 min.
8	Use of one note (a personal diary)	30 min.	30 min.
9	Application of It in medical research	1 hr.	1 hr.
	Total	6 ½ hrs.	11 hrs.

- Evaluation Method – MCQ Test
- Course will be conducted Three times a year
- Limited Entries (20 students per course)


Books for Reference:

1. David Ingram; Information Technology solutions for Healthcare, Springs.
2. Joan Lambert; MOS 2016 study Guide; Microsoft word, Excel, Powerpoint; Pearson Education, Inc.
3. Russell C Coile; The paperless Hospital; HIMSS
4. Vimla L Patel; Cognitive Information for Biomedicine; Springs.
5. Parvati Dev, Edward Hoffer; Computers in Medical Education.pdf




MGM Medical College, Aurangabad
VAC - Computer Application
Students List - PG
Batch-2, July-7,14, 2019

Sr.No.	Name of Students	M/F	Course Name
1	Dnyaneshwari Suresh Munde	Female	MD. Anaesthesiology
2	Dr.Nikhat Bano Jameel Ahmed	Female	MD.Radiology
3	Dr.Gorde Gayatri Satish	Female	MS.Ophthalmology
4	Dr.Patola Alekhya	Female	MD.Dermatology
5	Dr.Pranjli Gosain	Female	MS.OBGY
6	Dr. Farhan Khan	Male	MD.Pathology
7	Dr.Kaiwan Mehernosh Randeria	Male	MS.Orthopaedics
8	Dr.Kulkarni Omkar Shivanand	Male	MD.Dermatology
9	Dr.Malu Umesh Rajaram	Male	MD.Gen.Medicine
10	Dr.Nidhi Shetty	Female	MS.OBGY
11	Dr.Doifode Pooja Goverdhan	Female	MS.OBGY
12	Dr.Syed Amjad Ali	Male	MD.Gen.Medicine
13	Dr.Ayyagari Shrutilaya	Female	MD.Gen.Medicine
14	Dr.Padiya Saurabh Govind	Male	MD.Radiology
15	Dr.Vidhi Jobanputra	Female	MD.Respiratory Medicine
16	Dr.Aishwarya A.	Female	MD.Pathology
17	Dr.Anish Tamrakar	Male	MD.Paediatrics
18	Dr.Nihal Indramal Bapna	Male	MD.Gen.Medicine
19	Dr.Chavan Shrinivas Prakash	Male	MS.Orthopaedics
20	Dr.Kaddu Siddhant Jayaghosh	Male	MS.Gen.Surgery
21	Dr.Hembade Siddhi Ashok	Female	MD.Paediatrics
22	Dr.Nakul Nehal Patil	Male	MS.Gen.Surgery
23	Dr.Bhakti Chandekar	Female	MD.Pharmacology
			Total - 23 Students


Course Co-ordinator
(Dr. G. A. Shroff)
Professor & HOD
Dept of Anatomy
MGM Medical College Aurangabad.

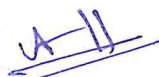



Dean
MGM Medical College,
Aurangabad
DEAN
MGM'S MEDICAL COLLEGE
AURANGABAD




MGM Medical College, Aurangabad
VAC - Computer Application
Students List - UG
Batch-1, December 7, 14,21,28 2019

Sr. No.	Roll No	Name of Student	Class	Gender
1	19116	Sarkar Sanchaika Subrata	First MBBS	F
2	19063	Kachare Pranjali Pandurang	First MBBS	F
3	19007	Baag Mohammed Shadan Mohammed Mujeebuddin	First MBBS	M
4	19132	Singh Sejal Sanjeev	First MBBS	F
5	19073	Khan Mohammed Afaque Karam Hussain	First MBBS	M
6	19087	Mohapatra Amlan Bhabani Sankar	First MBBS	M
7	19068	Kapkar Akshay Vinayak	First MBBS	M
8	19136	Suneja Chinmay Manish	First MBBS	M
9	19091	Naurangabadi Mohd Anas Sk Chand	First MBBS	M
10	19119	Sayyad Afziya Tanzil Samiyodhin	First MBBS	F
11	19069	Karanjkar Vishwajit Ashok	First MBBS	M
12	19023	Chopde Durga Shivaji	First MBBS	F
13	19024	Chothani Hardika Tushar	First MBBS	F
14	19050	Harale Lokesh Niwant	First MBBS	M
15	19081	Magar Neha Madhusudan	First MBBS	F
16	19117	Sarode Dipak Sukhdev	First MBBS	M
17	19047	Gugliya Riddhi Abhay	First MBBS	F
18	19028	Dayalani Anjali Dayalani Anand Ram	First MBBS	F
19	19084	Mankar Omkar Dilip	First MBBS	M
		Total - 19 Students		


Course Co-ordinator
(Dr. G. A. Siron)
Professor & HOD
Dept of Anatomy
MGM Medical College, Aurangabad.




Dean
MGM Medical College,
Aurangabad
DEAN
MGM'S MEDICAL COLLEGE
AURANGABAD