

**Organizing,
Value Added Course On:**

“Psychology-101; Mental Wellbeing & Rejuvenation”

Name of the Department: Pharmacology, J.N. Medical College.

Course Co-ordinator : Dr Anupama M.G.

Venue : Department of Pharmacology

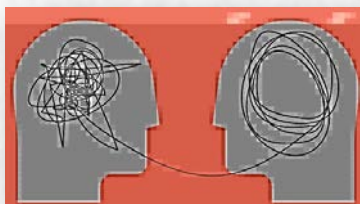


Sr.No	Details	
1.	Name of the Value Added Course	“Psychology-101; Mental Wellbeing & Rejuvenation”
2.	Need of the course	Sometimes due to mental stress or anxiety or a bad company, people get addicted to toxic substances like drugs, alcohol, tobacco, etc. It is important to remember that substance use disorders are chronic, relapsing disorders associated with significant morbidity, mortality and disability. This course propose that there should be some —minimum standards of services available for the young youth of our college. The specialized psychotherapies may be out-of-scope in most of colleges, however the trained manpower and other facilities must be available for the following psychosocial services like, Basic psycho-education about the nature of illness, important of treatment adherence, Motivation Enhancement, Reduction of high-risk behavior, Brief Interventions, Relapse Prevention & Counselling for occupational rehabilitation.
3.	Objectives of the course	At the end of the course the student should be able to, 1. Know the facts and identify types of substance use disorder. 2. Promote collective initiatives & self-help for psychological wellbeing
4.	Target Group	Undergraduate students of Medical Course (50 students in each batch)
5.	Duration-	16 hrs
6.	Conducted	Total 5-6 Weeks (On Every Saturday, Time: 2:00pm to 5:00pm)
7.	Frequency	Once a year
8.	Teaching Methods	Interactive Lectures, Guest Lectures, Interview with patients, Counselling Sessions & Activities –(Role play / Scripted drama play by students).
9.	Fees	Nil
10.	Assessment and Certification Done	Yes
11.	Feedback collected	Yes
12.	Pre Tests & Post Tests	Yes

“Psychology-101; Mental Wellbeing & Rejuvenation”



Sl.No.	Date (2pm to 6pm)	Faculty	Topics	Activity
1	<u>21 / 01/ 2023</u>	Dr. Vinayak Korpade	‘Stress busters - Adopting good habits for self-care’	Interview and discussion with college UG Alumni
2	<u>28/01/2023</u>	Dr. Ravindra Honnunar	‘Elements of drug Abuse’	Documentary on victims of substance abuse
3	<u>04/02/2023</u> 2pm to 3pm	Dr. Nayana K. Hashilkar	‘Say No to alcohol’	Debate / panel discussion • “College drinking, What is it? And what to do about it?”
	3pm to 4pm	Dr. Sunita Patil		
4	<u>11/2/2023</u>	Dr. Yasmin Nadaf	‘Mindfulness & Emotional Intelligence’	• Students Activity • Poster Competition



When Youth Volunteer..

They learn..

They can improve the world



Contact Details:

Course Co-ordinator

Dr. Anupama M.G.

Associate professor,

Department of Pharmacology,

J.N. Medical College, Belagavi

8970243353

PG Co-ordinator

Dr. Nandhini Devi S.

Junior Resident,

Department of Pharmacology,

J.N. Medical College, Belagavi

7708755253



**Department of Pharmacology, Jawaharlal Nehru Medical College
&
Basic Science Research Centre, KAHER (Deemed to be University)
Organizing**



Value Added Course On: “Basics of Cell Culture Techniques”

Course Co-Ordinator : Dr Rekha Nayaka M.R.

This value-added course will provide a solid basis for the understanding of the growth of animal/human cells, with formal lectures and laboratory exercises. Through integrated learning methods, utilizing hands-on training to reinforce lecture material, participants will learn the biological basis and relevance of the process of cell culture techniques. The certificate course will facilitate the trainees to translate these techniques according to their specific research needs.

INTENDED LEARNING OBJECTIVES

- 1.To learn the principles, concept and applications of cell culture techniques
- 2.Lab maintenance and subculturing of cells
- 3.Preservation and cell revival
- 4.Cytotoxicity assay (MTT assay)



WHO SHOULD ATTEND?

The course is designed to address the interest of PGs and PhD students of Medical and Allied Course, scientists and research scholars from different fields of biological sciences including molecular biology, biochemistry, genetics, and biotechnology.

COURSE CONTENT

The program includes a series of lectures and hands-on sessions on the following topics:

Theory

- Introduction to Cell cultures
- Basic techniques of Cell culture
- Application of cell culture techniques

Demonstration and Hands on trial on

- Handling of equipment for the maintenance of cell culture
- Subculturing of suspension cells



[Type here]

- Subculturing of Adherent cells
- Cell viability testing
- Cell counting hemocytometer
- Cell Thawing and Cell freezing
- MTT Assay



DURATION OF THE COURSE: 3 Days (16 Hours)

RESOURCE PERSONS: Faculty of BSRC and Faculty Of Pharmacology

TEACHING METHODS: Interactive Lectures, Hands on training

FREQUENCY OF THE COURSE : Twice in a year

TOTAL PARTICIPANTS : 15 per Batch

REGISTRATION FEES : 1000 Rs/Person

REGISTRATION PROCESS:



Certification Criteria: Certificate will be awarded after successful completion and Assessment of the course by DOAP. Feedback from the Participant will be collected at the end of the course

For Further Enquiry, Please Contact

Dr Rekha Nayaka M.R

Department of Pharmacology,
JNMC, Belagavi

9900017699

drrekhanayakamr@gmail.com

HOD of Dept of Pharmacology
Dr Nayana Hashilkar

Incharge director of BSRC
Ramesh Parajape

Course Co-Ordinator
Dr Rekha Nayaka M.R

[Type here]





Indian Academy of Pediatrics & National Neonatology Forum Basic Newborn Care & Resuscitation Program (Part-1)



First Golden Minute Project

Organised by,
Department of Pediatrics
KLE Academy of Higher Education & Research's
J. N. Medical College, Belagavi &
Belagavi Association of Pediatrics, Belagavi

Venue: KLE Advanced Simulation Center & Clinical Skill Lab, KAHER, J N Medical College, Belagavi. Date: 26th February 2022

Partner Organizations:

Latter Day Saints Charities (LDSC), The Federation of Obstetric and Gynecological Societies of India (FOGSI), Society of Midwives of India (SOMI),
Trained Nurses Association of India (TNAI)

Under Academic Grant from  Give2Asia, India



J N MEDICAL COLLEGE

CONSTITUENT UNIT OF KLE ACADEMY OF HIGHER EDUCATION & RESEARCH

Accredited "A" Grade by NAAC (2nd cycle)

Placed in Category "A" by MHRD (GoI)

DEPARTMENT OF PUBLIC HEALTH



Value Added Course

_____ On _____

HEALTH EDUCATION AND PROMOTION

AIM

This course aims to prepare dynamic health education specialists to work in a variety of settings including health care organizations, non-profit organizations, community settings, government organizations, private health care agencies, research, policy and educational institutions etc.

OBJECTIVE

At the end of the course candidates will be able to,

- Explain the role of health education and promotion in health care as well as within culturally diverse populations.
- Assess individual and group health education and promotion needs.
- Create or select effective health education programs.

DURATION: 4 Weeks (16 hours)
MEDIUM OF INSTRUCTION: English

COURSE CONTENT

- Introduction to Health education: Definition, Aims and objectives, changing concepts, scope and evolution of health education.
- Health promotion: Definition, Concept, Principles, Strategies of health promotion.
- Principles of health education.
- Role of Health education specialists.
- Approaches to health education.
- Models and contents of health education.
- Health education and training methods: Training need assessment (TNA), Formulation of objectives, Curriculum designing and implementation, Communications skills, Educational aids and evaluation.
- Planning of health education.

KLE ACADEMY OF HIGHER EDUCATION AND RESEARCH
(Deemed – to – be University)
JAWAHARLAL NEHRU MEDICAL COLLEGE BELAGAVI
DEPARTMENT OF OPHTHALMOLOGY

VALUE ADDED COURSE

GLAUCOMA SILENT THIEF OF SIGHT

Course Co-ordinators:

Dr. Chethana Warad
Dr. Pragya Porwal
Dr. Farheen Maniyar
Dr. Rohini DK

Time: 9am to 2 pm

Venue: Seminar Hall, Dept. of Ophthalmology

S.No.		
1	Name of the value added course	Glaucoma “silent thief of sight”
2	Need of the course	Glaucoma has been known at least since anti and yet, researchers today still do not know causes it in most cases. There are treatments to vision loss, but no cure, making it a leading cause of blindness all over the world. With early detection and treatment, it is possible to slow progression of disease and preserve vision. This course enables them to be aware and mindful of the entity.
3	Objective of the course	1) IOP measurement by Digital tonometry, Schiotz tonometry, NCT, Goldman applanation tonometry, I care tonometry. 2) Optic nerve evaluation by Fundus photo, Direct Ophthalmoscope, OCT. 3) Demonstration of visual field evaluation
4	Target Group	M.B.B.S Students, DOT students, B.Sc Optometry Students.
5	Duration	15 hours
6	Conducted	Three days

7	Frequency	Once in a year
8	Teaching Methods	Didactic lecture, Demonstration Hands on training
9	Fees	Nil
10	Assessment & Certification done	Yes
11	Feedback Collected	Yes
12	Pre-test & Post -test	Yes

DAY 1:

9:00 to 10:00 am: Registration

10:00 to 11:00 am: Introduction and Pretest.

11:00 am to 12:00 pm: Didactic Lecture on Glaucoma.

12.00 pm to 1:00 pm: Demonstration of various methods of IOP measurement (Digital tonometry, Schiotz tonometry, NCT, Goldman applanation tonometry, I care).

1.00 to 2:00pm: Hands on training

DAY 2:

9:00 to 10:00 am: Lecture on diagnostic modalities (optic disc evaluation)

10 to 11:00 am: Demonstration of fundus photo evaluation

11:00 am to 12:00 pm: Demonstration of OCT

12:00 to 1:00 pm: Group activity – Interpretation of optic nerve images

1:00 to 2:00 pm: Discussion

DAY 3 :

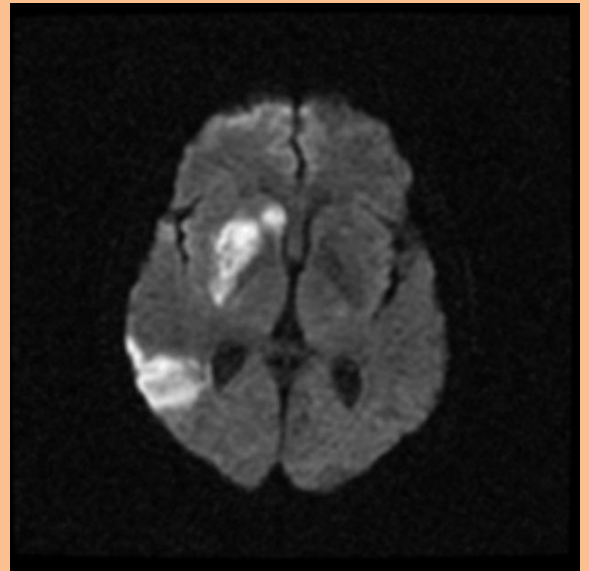
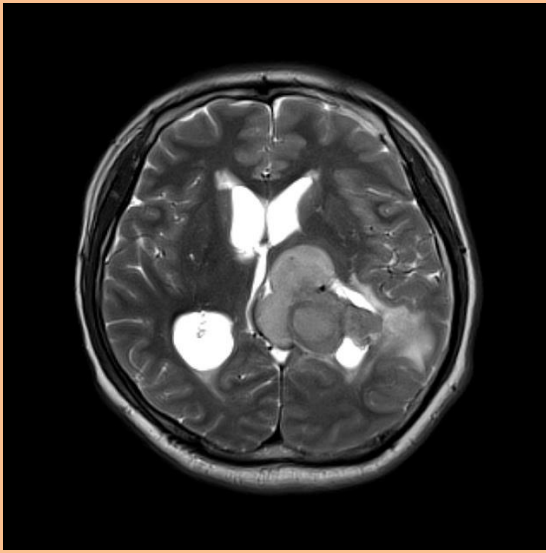
9:00 to 10:00 am: Lecture on visual field analysis

10 to 11:30 am: Demonstration of kinetic perimetry

11:30am to 12:30 pm: Importance of counselling

12:30 to 1:00 pm: Post test

1:00 to 2:00 pm: Valedictory function



Value Added Course

IMAGING IN NEUROLOGY

The Department of Radio-diagnosis, Jawaharlal Nehru Medical College, KLE Academy of Higher Education and Research, Belagavi has been in the forefront in conducting Value Added Course in "Imaging in Neurology.

The main aim of the course is to train the participants in the skills and knowledge needed to form an accurate diagnosis in the field of neuro imaging and further assist the clinicians for appropriate treatment.

Objectives of the course

- **To detect various neurological pathologies**

Target Participants

General Medicine PGs, General Surgery PGs, Neuro Medicine PGs, Neuro Surgery PGs.

Duration of Course: 16 hours

Course Content includes faculty lectures and demonstration lectures in:

- **Basic neuroanatomy in X-ray, CT and MRI**
- **Neonatal Neuro-sonography**
- **Imaging in trauma and non-traumatic haemorrhage**
- **Imaging in stroke and metabolic disorders.**
- **Imaging in common CNS infections, inflammation and demyelinating diseases**
- **Imaging in common CNS neoplasms**
- **Basic neuroanatomy in CT/MRI angiography.**
- **Introduction to neuro-vascular Interventional radiology**

**Department of Radio-diagnosis
J. N. Medical College, KAHER, Belagavi
KLE Dr.Prabhakar Kore Hospital & MRC
Belagavi
Phone: 0831-2551163
[Email:kleradiologypgs@gmail.com](mailto:kleradiologypgs@gmail.com)**



J N MEDICAL COLLEGE



CONSTITUENT UNIT OF KLE ACADEMY OF HIGHER EDUCATION & RESEARCH

Accredited "A" Grade by NAAC (2nd cycle)

Placed in Category "A" by MHRD (GoI)

DEPARTMENT OF PUBLIC HEALTH



Value Added Course

— On —

HEALTH BEHAVIOUR AND SOCIOLOGY

AIM

Aim of this course is to train the participants on Health Behaviour and Sociology.

OBJECTIVE

At the end of the course candidates will be able to,

- **Bring about positive Health Behaviors among participants.**
- **Introduce basic social processes of society, social institutions and patterns of social behaviour.**
- **Understand and to interpret objectively the role of social processes, social institutions and social interactions in their lives.**

DURATION: 8 Weeks (24 hours)
MEDIUM OF INSTRUCTION: English

COURSE CONTENT

- **Health Belief Model (HBM)/ Risk Perception**
- **Theory of Reasoned Action/ Theory of Planned Behavior**
- **Social Cognitive Theory (SCT)/ Self-Efficacy (SE)**
- **Trans Theoretical Model (TTM)**
- **Motivation and Self-Efficacy; Stress, Coping, and Social Support**
- **Self-Determination Theory (SDT)**
- **Motivational Interviewing**
- **Behavior Modification**
- **Goal Setting, Attributions, Self-Regulation**
- **Building Conceptual Frameworks**
- **Elaboration Likelihood Model/**
- **Cognitive Load Theory**
- **Theory-Informed Interventions**



Value Added Course

Critical Events Management



DEPARTMENT OF ANAESTHESIOLOGY

KLE Advanced Simulation Centre is a facility dedicated to providing interprofessional learning opportunities in a high-tech, realistically simulated, dynamic, controlled environment.

Simulation is used to augment clinical experience and allow the safe acquisition of skills. It is used not only for assessment purposes, but also for practice or rehearsal of scenarios prior to actual patient care

Various clinical case scenarios are conducted using our high fidelity simulators.

Objectives of the course

- Learn techniques to manage the airway of a patient
- To impart skills required to secure peripheral intravenous access
- To understand & manage events that may occur during the postoperative period
- To demonstrate & practice management of critical events such as Asthma, Anaphylaxis, Convulsions, PPH, MI, Choking, etc.

Target participants

- MBBS interns

Duration of the course

- 16 hours (3 days)

DAY 1	
09:00 AM – 09:30 AM	Pre-test
09:30 AM – 11:00 AM	Introduction to simulation based teaching
11:00 AM – 11:15 AM	Tea break
11:15 AM – 12:45 PM	Airway management with demo
12:45 PM – 01:30 PM	Lunch
01:30 PM – 03:00 PM	Scenario 1 and its management
03:00 PM – 04:30 PM	Scenario 2 and its management

DAY 2	
09:00 AM – 10:30 AM	Peripheral intravenous line access with demo
10:30 AM – 10:45 AM	Tea break
10:45 AM – 12:15 PM	Scenario 3 and its management
12:15 PM – 01:00 PM	Lunch
12:30 PM – 02:30 PM	Scenario 4 and its management

DAY 3	
09:00 AM – 10:30 AM	Monitoring in post operative period
10:30 AM – 10:45 AM	Tea break
10:45 AM – 12:15 PM	Scenario 5 and its management
12:15 AM – 01:00 PM	Lunch
01:00 PM – 02:30 PM	Scenario 6 and its management
02:30 PM – 03:00 PM	Post test



Department of Anaesthesiology
 KLES Prabhakar Kore Hospital & MRC,
 Jawaharlal Nehru Medical College Campus, Belagavi

Phone: 0831-2551292
 Email: anaesthesia47@gmail.com



J N MEDICAL COLLEGE

CONSTITUENT UNIT OF KLE ACADEMY OF HIGHER EDUCATION & RESEARCH

Accredited "A" Grade by NAAC (2nd cycle)

Placed in Category "A" by MHRD (GoI)

DEPARTMENT OF PUBLIC HEALTH



Value Added Course

———— On ————

SCIENTIFIC WRITING

AIM

This course aims at imparting the knowledge on scientific writing skills for health professionals and life science students.

OBJECTIVE

- **To introduce participants to different types of scientific articles and provide an outline of how to write an original research article describing their original scientific research.**
- **To enable health professionals to write scientific research articles that can be published and to equip them with skills to cite and manage references/ bibliography while writing using a reference management tool**

DURATION : 5 Weeks (15 hours)
MEDIUM OF INSTRUCTION: English

COURSE CONTENT

- **Application writing for Grants.**
- **Introduction to information system and sources of intelligence.**
- **Format of writing a concept paper and mini protocol.**
- **Critical issues and common errors in grant applications.**



J N MEDICAL COLLEGE

CONSTITUENT UNIT OF KLE ACADEMY OF HIGHER EDUCATION & RESEARCH

Accredited "A" Grade by NAAC (2nd cycle)

Placed in Category "A" by MHRD (GoI)

DEPARTMENT OF PUBLIC HEALTH



Value Added Course

_____ On _____

COMPUTER SKILLS

AIM

This course aims at teaching basics of computer knowledge and appreciate computer programs.

OBJECTIVE

At the end of the course candidates will be able to,

- **Train the participants on basic usage of computers, preparing personal and official letters, viewing information on internet, writing and sending emails, internet banking services etc.**
- **Impart knowledge on file and folder making and saving of the documents.**

DURATION: 5 Weeks (15 hours)
MEDIUM OF INSTRUCTION: English

COURSE CONTENT

- **Introduction to information Technology.**
- **Introduction to MS office, MS Word, MS Excel, MS power point presentation skills.**
- **Internet – search strategies, Email and Email etiquettes.**
- **Online survey development tools.**



KLE ACADEMY OF HIGHER EDUCATION AND RESEARCH
(Deemed – to – be University)

JAWAHARLAL NEHRU MEDICAL COLLEGE,

Nehru Nagar, BELAGAVI-590 010, Karnataka, India

Accredited 'A+' Grade by NAAC (3rd Cycle)



DEPARTMENT OF OPHTHALMOLOGY

☎ : 0831-2473777/2471701 FAX: 0831-2470759 Intercom: 4181/4182 Web: <http://www.jnmc.edu>

VALUE ADDED COURSE

CEREBRAL VISUAL IMPAIRMENT (CVI): “The Blind Brain!”

BROCHURE

DAY 01: 15th September 2023, Venue: Anubhav Mantap CEREBRAL VISUAL IMPAIRMENT		
9.00 to 9.30 am	Registration and Pretest.	
9.30 – 10.30 am	Didactic lecture on CVI	Dr. Smitha K S
10.30 to 11.30 am	Didactic lecture on visual acuity assessment in children-	Dr. Bhagyajyothi B K
11.30 – 11.45 am	High Tea	
11.45 to 12.45 pm	Concepts of Refraction in children: static/ dynamic retinoscopy	Dr. Sharvani Pai
12.45 to 1.00 pm	Quiz	Dr. Farheen & Dr. Daisy
1.00 to 2.00 pm	Lunch Break	
2.00 to 3.00 pm	Demonstration of assessment of CVI	Dr. Smitha K S
3.00 to 4.00 pm	Demonstration of Vision assessment in children (Teller acuity cards, Leas cards, Allen cards, Titmus stereo testing)	Dr. Bhagyajyothi B K
4.00 to 5.00 pm	Hands on training retinoscopy	Dr. Sharvani Pai
DAY 02: 16th September 2023, Venue: Anubhav Mantap MULTIDISCIPLINARY APPROACH		
9.00 to 10.00 am	Role of pediatric neurologist in the management of a child with CVI	Dr. Mahesh Kamate
10.00 to 11.00 am	Role of child psychiatrist in the management of a child with CVI	Dr. Vinayak Koparde
11.00 to 11.15 am	High Tea	
11.15 to 12 noon	Role of child psychologist in the management of a child with CVI	Mrs. Chandan S. Billur
12.00 to 1.00 pm	Role of speech therapist in the management of a child with CVI	Mr. Pawan Kamble
1.00 to 2.00 pm	Lunch Break	
2.00 to 3.00 pm	Role of Paediatric physiotherapist in the management of a child with CVI	Dr. Deepa Metgud
3.00 to 4.00 pm	Visual stimulation exercises	
4.00 to 5.00 pm	Post-test and valedictory	



JAWAHARLAL NEHRU MEDICAL COLLEGE

A Constituent Unit of

**KLE Academy of Higher Education and Research
(Deemed -to-be-University)**



Accredited 'A' Grade by NAAC (2nd Cycle)

Placed in Category 'A' by MHRD (GoI)

DEPARTMENT OF PEDIATRICS

Website : www.jnmc.edu
Principal : 0831 - 2471701

0831 - 2471350 Extn: 4032
Fax : 0831 - 2470759



Helping Babies Breathe



JAWAHARLAL NEHRU MEDICAL COLLEGE

A Constituent Unit of

**KLE Academy of Higher Education and Research
(Deemed -to-be-University)**



Accredited 'A' Grade by NAAC (2nd Cycle)

Placed in Category 'A' by MHRD (GoI)

DEPARTMENT OF PEDIATRICS

Website : www.jnmc.edu
Principal : 0831 - 2471701

0831 - 2471350 Extn: 4032
Fax : 0831 - 2470759

Value added course on Helping Babies Breathe teaches the initial steps of neonatal resuscitation to be accomplished within *The Golden Minute*. The Faculty of Department of Paediatrics are trained in Helping Babies Breathe and provide this value added course every year according to American Academy of Paediatrics guidelines.

Objectives of the course

- To train birth attendants in essential skills of newborn resuscitation
- Understand key concept of HBB i.e 'THE FIRST GOLDEN MINUTE'
- Hands On skill development in newborn resuscitation on mannequins

Target Participants

- Undergraduate Students

Duration of Course: 16 HOURS



JAWAHARLAL NEHRU MEDICAL COLLEGE

A Constituent Unit of

**KLE Academy of Higher Education and Research
(Deemed -to-be-University)**



Accredited 'A' Grade by NAAC (2nd Cycle)

Placed in Category 'A' by MHRD (GoI)

DEPARTMENT OF PEDIATRICS

Website : www.jnmc.edu
Principal : 0831 - 2471701

0831 - 2471350 Extn: 4032
Fax : 0831 - 2470759

Course Content includes:

- ❖ Preparation before attending delivery of a newborn,
- ❖ Prevention of hypothermia,
- ❖ Routine care of normal newborn babies,
- ❖ Initial steps of resuscitation,
- ❖ Positive pressure ventilation
- ❖ Transfer of babies requiring advanced resuscitation.

Method of Conduction:

- Didactic Lectures: 3 hours
- Online Module Teaching: 3 hours
- Hands on Workshop: 10 hours



Accredited at 'A+' Grade by NAAC (3rd Cycle)
Placed in 'A' Category by MoE (GoI)

VALUE ADDED CERTIFICATE COURSE IN
**“INVASIVE HEMODYNAMIC
MONITORING IN INTENSIVE
CARDIOVASCULAR CARE”**



DEPARTMENT OF CARDIAC ANAESTHESIA

Aims and Objectives : Department of Cardiac Anaesthesia has started Invasive hemodynamic monitoring in intensive cardiovascular care targeting the Allied health sciences related to cardiovascular system like cardiac perfusion technology, Cardiac care technology, Post graduate students in medicine, general surgery in view of need of the knowledge of insertion techniques and interpretation of invasive lines and hemodynamic indices. This knowledge is required for diagnosing Perioperative cardiac function and diagnosis of causes of Perioperative hemodynamic instability. On time diagnosis and treatment will help in improving the outcome.

Course: “Invasive hemodynamic monitoring in intensive cardiovascular care”

Course duration: 18 hours (Completed in 3 weeks)

Target audience: MBBS Interns, Post Graduate Students in Anaesthesia, Cardiology, Medicine, CVTS. B.Sc. and M.Sc. In cardiac care technology and Nursing.

Course contents: Introductory remarks from course director: 30 min.

1. Faculty lectures: 7 lectures (45 min each)

- Physiology of cardiovascular system.
- Normal cardiovascular hemodynamic data and calculations.
- Principles of Invasive Hemodynamic monitoring in intensive cardiovascular units.
- Invasive blood pressure monitoring: Technique, Access, utility, advantages, disadvantages and complications.
- Invasive pulmonary artery pressure monitoring: Technique, Access, utility, advantages, disadvantages and complications.
- Cardiac output monitoring: Part 1
- Cardiac output monitoring: Part 2

2. Demonstration lectures: 6 lectures (45 min each)

- Invasive blood pressure monitoring: Procedure, Technique, Access, utility and Inference of waveform.
- Invasive central venous monitoring: procedure, Technique, Access, utility and inference of waveforms.
- Invasive pulmonary artery pressure monitoring: procedure, Technique, Access, utility and inferences of waveforms.
- Cardiac output monitoring: Part 1- CCO monitoring using CCO catheter and flowtraq.
- Video demonstration of Non-invasive cardiac output monitoring.
- Hemodynamic calculations using CCO.

3. Flip Class: - 6 classes (30 min each)

- Physiology of cardiovascular system.
- Normal cardiovascular hemodynamic data and calculations.
- Principles of Invasive Hemodynamic monitoring in intensive cardiovascular units.
- Invasive blood pressure monitoring: Technique, Access, utility, advantages, disadvantages and complications.
- Invasive central venous monitoring: Technique, Access, utility, advantages, disadvantages and complications.
- Invasive pulmonary artery pressure monitoring: Technique, Access, utility, advantages, disadvantages and complications.

Course Completion address from Course Director: 30 min.

Certificate distribution: 15 min.

Course Director: Dr. Sharanagouda Patil

Course Co-ordinator: Dr. Abhijeet Shitole.

Dr. Sharanagouda S. Patil
PROFESSOR & HEAD
DEPARTMENT OF CARDIAC ANAESTHESIA



Department of Cardiac Anaesthesiology

KLE Dr. Prabhakar Kore Hospital & Medical Research Centre, Belagavi

Phone : 0831 2551248

email : cardiaanaesthesia@gmail.com



KAHER's
Jawaharlal Nehru Medical College,
Department of Biochemistry, Belagavi
Organizing
Value Added Course



“Laboratory:A Clinician's Seventh Sense”

Preamble

This course will help Post Graduate students of medical field to understand the importance of writing appropriate requisition, generating quality results and valid reports, which provides accurate and reliable results to the clinicians to arrive at final diagnosis.

INTENDED LEARNING OBJECTIVES

At the end of the course the post graduate student of medical field should be able to,

- Understand the flow of work in clinical Biochemistry laboratory.
- Realize the importance of providing the clinical and demographic characters of patient in requisition form
- Recognize and mitigate laboratory errors (Pre-analytical, Analytical and Post-analytical) to minimize false diagnosis
- Acknowledge the role of Quality Control Program for reliable and accurate results in helping clinicians for final diagnosis

DURATION OF THE COURSE: 2 Days (16 Hours)

RESOURCE PERSONS: Faculty of Biochemistry,
Pathology and Microbiology

TEACHING METHODS: Interactive Lectures, Small group
discussion and Activities (Role play/Scripted drama play by students)

TOTAL PARTICIPANTS: 15 per Batch

Certification Criteria: Certificate will be awarded after successful
completion and Assessment of the course by Post-test
(minimum 50% score)

For Further Enquiry, Please Contact

Dr Sangamma Sajjan,
Assistant Professor,
Department of Biochemistry
J.N. Medical College, Belagavi
9980872468

Registration Details

REGISTRATION FEES: 1000 Rs/Person

Registration Link

<https://forms.gle/oudQgkQsN1RoPpFW6>

Day 1:17th August 2023

Time	Session	Faculty in charge
9:00 to 10:00am	Pre Test Orientation of Students to Value Added Course	Dr Sangamma Sajjan
10:00to 11 am	Role of Clinical Biochemistry in Evidence Based Medicine (EBM)	Dr Smita Sonoli
11:00 to 11.15am	Tea Break	
11.15to 12:00 pm	Biological variations of analytes in health,disease and physiological conditions	Dr Vanishree Bubanale
12:00 to 1:00 pm	Demonstrative sessions on Requisition, laboratory errors and Reporting	Dr Reshma D C
1:00 to2:00 pm	Lunch break	
2:00 to 3:00 pm	Patient preparation for different clinical investigations Group Discussion	Dr Preeti Maste
3:00 to 5:00 pm	Sample transport, Preparation, Acceptance and Rejection of the samples Role play by students	Dr A.M. Harlapur

Day 2:18th August 2023

Time	Session	Faculty in charge
9:00 am to 11pm	Visit to Hi-Tech laboratory	
	Laboratory errors (Pre-analytical, Analytical and postanalytical errors) Mitigation of laboratory errors in Hi-Tech Lab	Dr Vijayetha Patil
11:00 am to 11:15am	Tea Break	
11:15am to 1:00pm	Automation in Clinical Biochemistry Laboratory NABL v/s Non-NABL-How they make difference Hands on training on Selection of standard methods and Quality Control	Dr Anil M
1:00 to 2:00 pm	Lunch Break	
2:00 to 3:00pm	Understanding of Documentation and records in laboratory Reporting and release of the laboratory reports	Mr. Ganesh Chavan
3:00 to 5:00pm	Post-test on value added course Feedback from the students Certificate distribution	Mrs Maya and Mrs Akshata



KLE Academy of Higher Education and Research
Jawaharlal Nehru Medical College
Department of Microbiology



Value Added Course for Post Graduates, Graduates, Interns of JNMC, Belagavi

“Diagnostic Microbiology skills”
For Better Patient Care

Microbiological investigations aid in specific diagnosis of infectious diseases and syndromes. Thus, learning the basic microbiology skills is paramount. Arriving at the clinical diagnosis and ordering the most appropriate test in each clinical scenario is an important first step. Validity of a test is based on choosing the right clinical specimen, its proper collection and prompt transport to the laboratory. Understanding the concepts of sterilization, disinfection, asepsis, and biosafety in clinical practice are essential. Providing the laboratory with patient's personal identification data and necessary details on present and past clinical status are equally important for better interpretation of test results. Test results make more sense when clinician understands the concepts and principles of diagnostic tests.

Objectives:

At the end of the training program, the learners shall be able to,

1. Arrive at the clinical diagnosis, select, and order the appropriate diagnostic test in each clinical scenario.
2. Choose and collect the right clinical specimen aseptically, and be able to promptly transport it to the laboratory.
3. Fill the necessary patient's details in the Sample request forms.
4. Interpret and apply the laboratory results for better patient care.

✚ Duration of the course: 2 Days (16 Hours)

✚ Resource persons: Faculty of Microbiology

✚ Teaching methods: Clinical scenario-based Demonstrations & Activities

✚ Frequency of the course: Once in a year

✚ Total participants: 40 students per batch

Day 1:

Topics to be covered during this secession				
8.30am – 9.00 am			Registration	
9.00am -9.15am			Inauguration	
9.15 am- 9.30am			Introduction for the session- Dr. Manjula. Vagarali, Prof & Head	
9.30am-10.00am			Pre-test	
STATION	Date /Day	TIME	TOPIC (CASE BASED DISCUSSION)	IN CHARGE STAFF
I	17/10/23 Tuesday	10.00am – 1.30pm	Surgical Site Infection (SSI)	Dr. M. B. Nagamoti
II			LRTI with Septicemia	Dr. Jyoti Nagamoti
Lunch break (1:30 pm-2:30 pm)				
III	17/10/23 Tuesday	2.30pm -5.30pm	Diarrhea & Dysentery	Dr. Sumati. Hogade
IV			URTI	Dr. Sheetal Harakuni

DAY 2:

STATION	Date/Day	TIME	TOPIC (CASE BASED DISCUSSION)	IN CHARGE STAFF
I	18/10/23 Wednesday	9.00am – 12.30pm	Blood stream infections (BSI)	Dr.Madhumati. Patil
II			Ear infections	Dr. Soumya. S
Lunch break (12.30 pm – 1.30 pm)				
III	18/10/23 Wednesday	1.30pm-4:00pm	Genital ulcer	Dr. Rubeena Mulla
IV			Urinary tract infection (UTI)	Dr. Manjula Vagarali
4.00pm -5.00pm			Post test followed by Valedictory	

 **E- Certificate distribution: soft copy will be sent to respective email ID provided**

For Further Enquiry, Please Contact:

Resource persons: Faculty of Microbiology

Coordinator:

Dr. Ahuti Pandya

Senior resident

Contact no: 8949514633

Email ID :ahutipandya05@gmail.com

Dr. Anugula. Amritha

Senior resident

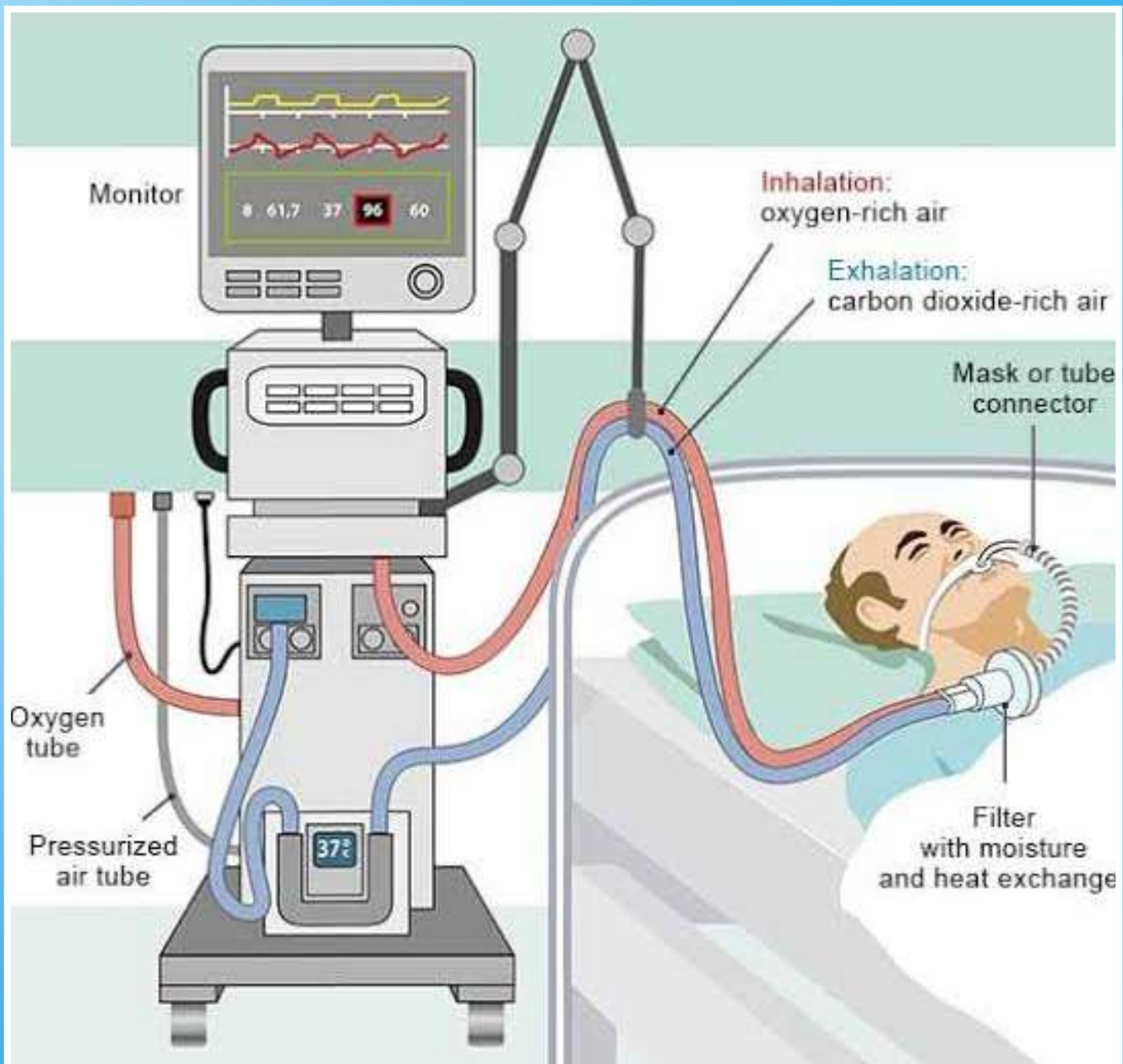
Contact no : 9766198050

Email ID : dramritha2111@gmail.com

Google form link for registration:

https://docs.google.com/forms/d/e/1FAIpQLSfKi5REKXy4wiPxRLlcvjKRecnocQ-9J7pMNAhff-Iw8LDBDQ/viewform?usp=sf_link

“BASICS OF MECHANICAL VENTILATION”



Aims and Objectives : Department of Cardiac Anaesthesia has started the Basic course in Mechanical ventilation targeting the Allied health sciences students and the interns of MBBS in view of need of the knowledge of mechanical ventilation. In view new and emergent epidemics like COVID 19 and other viral respiratory illnesses requiring oxygen and ventilatory support requires the knowledge of such treatment strategy. The health care needs are increasing and so the hands should. Targeted training of allied health sciences students will make it possible.

Course: “Basics of Mechanical Ventilation”

Course duration: 18 hours (Completed over 3 weeks)

Target audience: MBBS interns, Post Graduate students in
Internal Medicine, Surgery, M. Sc. in Nursing.

Course contents: Introductory remarks from Course Director: 30 min.

1. Faculty lectures: 9 lectures (45 min each)

- Basics of ventilation and oxygen delivery.
- Respiratory physiology and mechanics.
- Respiratory failure and ARDS
- Modes of oxygen delivery.
- Modes of ventilation – CPAP and HFNV.
- Modes of mechanical ventilation – Pressure and volume control.
- Modes of mechanical ventilation – SIMV and Pressure support.
- Weaning from mechanical ventilation.
- ECMO: - basics, indications and role in respiratory failure.

2. Demonstration lectures: 7 lectures (45 min each)

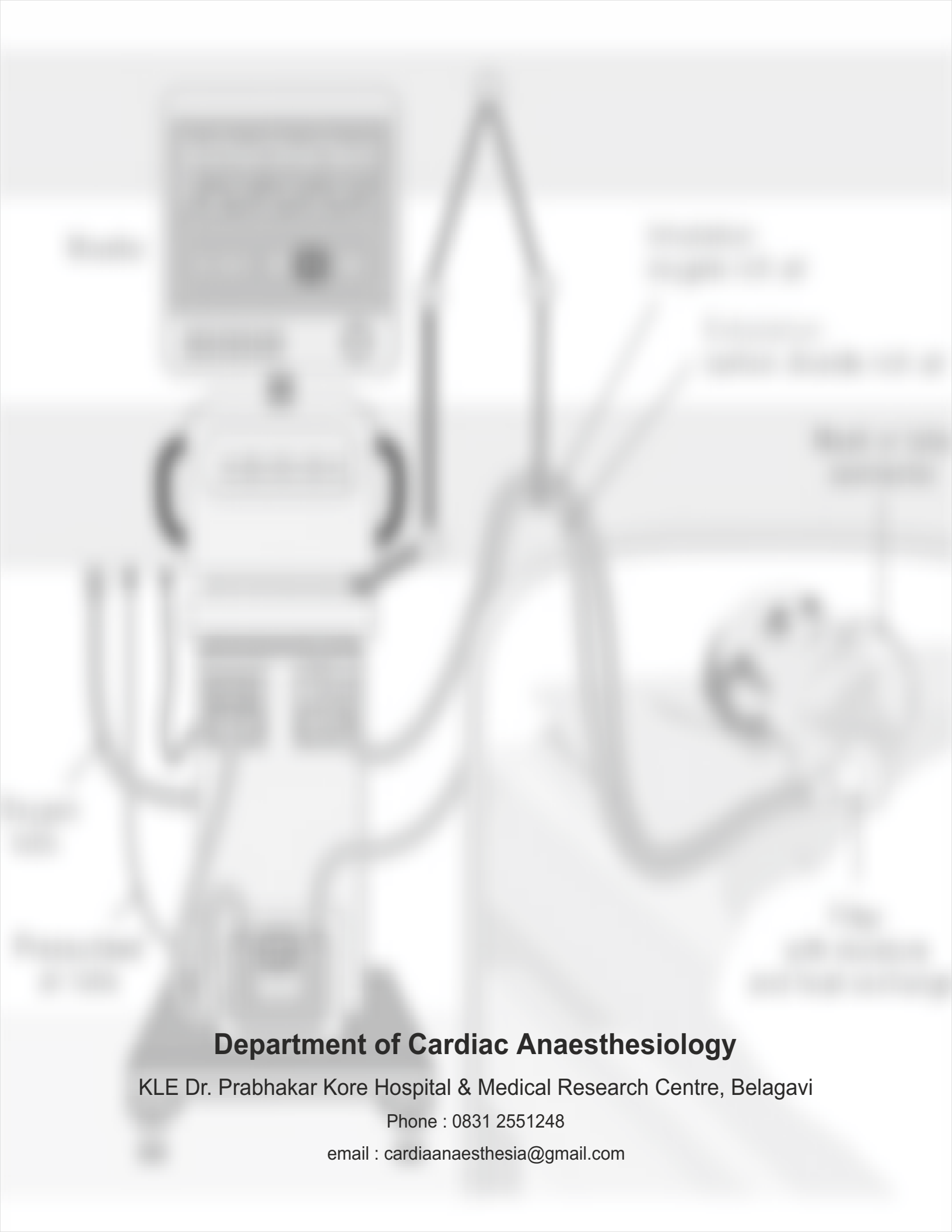
- Introduction to ventilator machine and knobology.
- Introduction to instrumentation and gadgetry required for mechanical ventilatory support.
- Setting up and initiation of CPAP and Non-invasive ventilation.
- Setting up and initiation of mechanical ventilation.
- Demonstration of Modes of mechanical ventilation.
- Weaning criteria and Strategies for weaning off ventilator.
- Video demonstration of ECMO.
- Two hours hands on training.

Course Completion address from Course Director: 15 min.

Certificate distribution: 15 min.

Course Director: Dr. Anand Vagarali.

Course Co-ordinator: Abhijeet Shitole.



Department of Cardiac Anaesthesiology

KLE Dr. Prabhakar Kore Hospital & Medical Research Centre, Belagavi

Phone : 0831 2551248

email : cardiaanaesthesia@gmail.com



Accredited at 'A+' Grade by NAAC (3rd Cycle)
Placed in 'A' Category by MoE (GoI)

VALUE ADDED
CERTIFICATE COURSE IN

“BASICS OF PERIOPERATIVE TRANSESOPHAGEAL ECHOCARDIOGRAPHY”

DEPARTMENT OF CARDIAC ANAESTHESIA

Aims and Objectives : Department of Cardiac Anaesthesia has started Basic course in Perioperative Transesophageal Echocardiography targeting the Allied health sciences related to cardiovascular system like cardiac perfusion technology, Cardiac care technology, Masters in Echocardiography students and the Post graduate students in Anaesthesia in view of need of the knowledge of Echocardiography. This knowledge is required for diagnosing Perioperative cardiac function and diagnosis of causes of Perioperative hemodynamic instability. On time diagnosis and treatment will help in improving the outcome.

Course: “Basics of Perioperative Transesophageal Echocardiography”

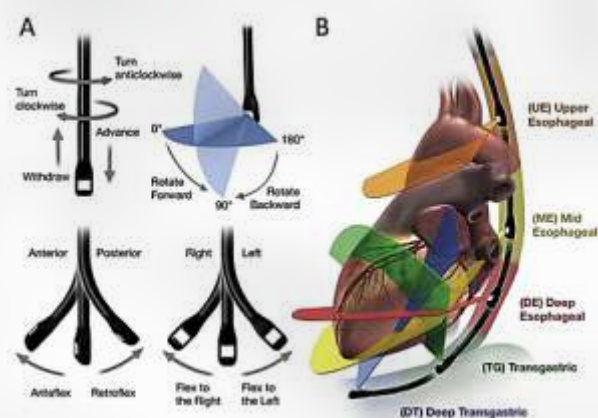
Course duration: 20 hours (Completed over 4 weeks)

Target audience: Post Graduates in Anaesthesia, Cardiology, Medicine, CVTS, B.Sc. and M.Sc. in cardiac care technology and Echocardiography.

Course contents: Introductory remarks from course director: - 30 min.

1. Faculty lectures: 8 lectures (45 min each)

- Basic physics of TEE Echocardiography.
- Comprehensive perioperative TEE.
- Assessment of LV systolic function using TEE.
- Assessment of LV diastolic function using TEE.
- Assessment of RV function using TEE.
- Assessment of mitral valve using TEE.
- Assessment of Aortic valve using TEE.
- Assessment of Tricuspid Valve using TEE.



2. Demonstration lectures: 8 lectures (45 min each)

- Basic Knobology of TEE workstation with understanding of physics of TEE Echocardiography.
- Comprehensive perioperative TEE views.
- Measuring LV systolic function using TEE.
- Grading LV diastolic function using TEE.
- Measuring the RV function using TEE.
- Assessment of Mitral valve using TEE.
- Assessment of tricuspid valve using TEE.
- Assessment of Aortic valve using TEE.

3. Hands on training: 180 min (6sessions of 30 min)

4. Flip Class: 8 classes (30 min each)

- Physics of TEE Echocardiography Ultrasound.
- Comprehensive perioperative TEE.
- Assessment of LV systolic function using TEE.
- Assessment of LV diastolic function using TEE.
- Assessment of RV function using TEE.
- Assessment of mitral valve using TEE.
- Assessment of Aortic valve using TEE.
- Assessment of Tricuspid valve using TEE.

Course Completion address from Course Director: 15 min.

Certificate distribution: 15 min.

Course Director: Dr. Abhijeet Shitole.

Course Co-ordinator: Dr. Anand Vagarali.

Department of Cardiac Anaesthesiology

KLE Dr. Prabhakar Kore Hospital & Medical Research Centre, Belagavi

Phone : 0831 2551248

email : cardiaanaesthesia@gmail.com

JAWAHARLAL NEHRU MEDICAL COLLEGE

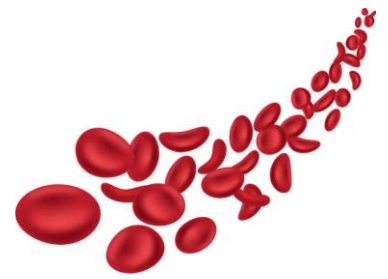
**A Constituent Unit of KLE Academy of Higher
Education and Research**

(Deemed –to-be-University)



DEPARTMENT OF PATHOLOGY

**BASIC COURSE IN
HEMATOLOGY**



INTRODUCTION:

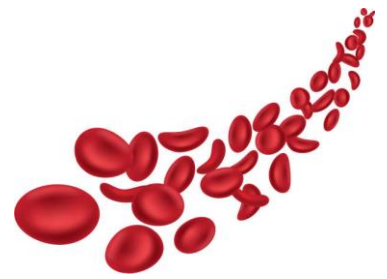
Hematology investigations have become indispensable tools in diagnosis and management of patients. The interpretation of the investigations requires in-depth understanding of pathophysiology of the disease, the criteria used in diagnosis and defining the various terms used in the reports. The clinicians need to understand the language of the laboratory physicians so that the information given is beneficial to patient care.

The junior residents working in the clinical departments play a very important role in the health care team and are often very important in conveying the reports of investigations to the clinicians. It is necessary that the residents are able to interpret the reports appropriately and convey the same to clinicians.

Pre-analytical factors play a very important role in quality control of the hematological investigations measures.

Junior residents are involved in facilitating sample collection and transfer to the laboratory, hence they need to understand various pre-analytical factors which need to be considered before analyzing the sample.

Hence the course intends to train the junior residents regarding the interpretation of the hematology reports and also about the quality control measures with main focus on pre-analytical factors in their early residency program.

**Course eligibility:**

Post graduate students admitted to clinical departments in the first 6 months of their residency.

Duration of Course:

2 ½ days with 16 hours of interactive teaching.

Course fees: Nil

Vision:

Empowering clinical postgraduates in handling Hematology laboratory investigation reports and quality control.

Mission:

1. To educate the clinical postgraduate students regarding the pre-analytical factors affecting hematological investigations.
2. To educate the clinical postgraduate regarding the basics of quality control in hematology laboratory.
3. To provide basic training to the clinical post graduates about the interpretation of hematology investigations.

GOAL:



To be competent in interpretation of hematology reports and understand the importance of pre-analytical factors in the Quality control of Hematology laboratory.

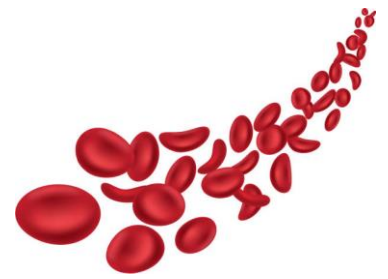
Objectives:

At the end of the course the postgraduate students should be able to-

1. Apply the knowledge of pre-analytical factors in quality control of hematology investigations.
2. Interpret the hematology laboratory reports in the context of a clinical situation appropriately.

Course Content:

<u>Topics</u>	<u>Duration</u>	<u>Mode of Conduct</u>
Pretest		Objective type Questions
1. Blood Collection, Types of vacutainers, Precautions, Anticoagulants	2 hrs	Lecture, observation
2. Importance of Clinical details & Fully filled requisition Forms	2 hrs	Lecture
3. Preanalytical variables affecting reporting & interpretation	2 hrs	Lecture
4. Interpretation of Common hematology tests & Bone marrow tests reports	2 hrs	Lecture, observation
5. Anaemias – Overview with clinical importance, Recent advances	2 hrs	Interactive lecture & Demonstration



6. Leukemias – Overview with clinical importance & recent advances	2 hrs	Interactive lecture & Demonstration
7. Blood Banking- Blood group, Crossmatching, Coomb's Test	2 hrs	Lecture, observation
8. Blood Banking – Blood components, Transfusion reactions	2 hrs	Lecture, observation

Post test & Feedback

Objective type Questions

Teaching learning methods

Interactive Lectures, Small group case-based discussion, Demonstration, Observation

Resources:

- Teaching faculty,
- Laboratory resources including analyzers,
- Teaching facility (Lecture halls, Laboratory space)

Assessment: Objective type questions

Criteria for certification: 100% attendance for all the sessions

Department of Public Health

Value-Added Course

Bioethics in Patient Care

2016-17



Accredited 'A' Grade by NAAC (2nd Cycle)

Placed in Category 'A' by MHRD (GoI)

KLE ACADEMY OF HIGHER EDUCATION AND RESEARCH

JNMC Campus, Nehru Nagar, Belagavi – Karnataka, India

Phone: +91 0831-2472777, 2493779, FAX: +91 0831 – 249377

E-mail: info@kledeemeduniversity.edu.in Website: kledeemeduniversity.com

Bioethics in Patient Care

1. Name of the course: Bioethics in Patient Care

2. Aim: This course aims at developing skills for making appropriate decisions based on morale, values and facts for highest patient care.

Objectives: The program is designed to focus on the acquisition of knowledge and skills applicable to deal with patients. Upon completion of the programme, the student will be:

- Aware of ethical issues, principles of ethics in patient care,
- Gain knowledge and skills of communication and empathy.

3. Course contents:

Topics:

- Introduction to Bioethics in patient care
- Essential competencies
 - Interpersonal communication
 - Cognitive skills
 - Work related skills
 - Professionalism
- Principals of Health care ethics
- Code of conduct
- Beginning and end of life:
 - Right to life
 - Assisted reproductive technologies
 - Care of terminally ill
 - Euthanasia
- Ethics consultation

4. Duration of the course: 8 weeks

5. Timing of the course: 2 hours per week

6. Eligibility Criteria: Candidate should have completed graduation in any Health science stream with as basic courses or equivalent course established under law considered equivalent thereto by KAHER.

7. Fees:

8. Resource persons:

1. Dr. B. S. Kodkany,
2. Dr. Mubashir Angolkar
3. Dr. Manisha Bandenkar
4. Dr. Ashwini Narasannavar

9. Method of assessment:

- Completion of 2 assignments
- Online quiz,

10. Feedback: Online google form

11. List reference books:

1. C.M. Francis, Medical ethics, Jaypee Brothers, Medical Publishers.1st Edition 1993
2. What Is Medical Ethics, and Why Is It Important?
<https://www.medscape.com/courses/section/898060>
3. Internet Encyclopedia of Philosophy <https://www.iep.utm.edu/h-c-ethi/#H1>

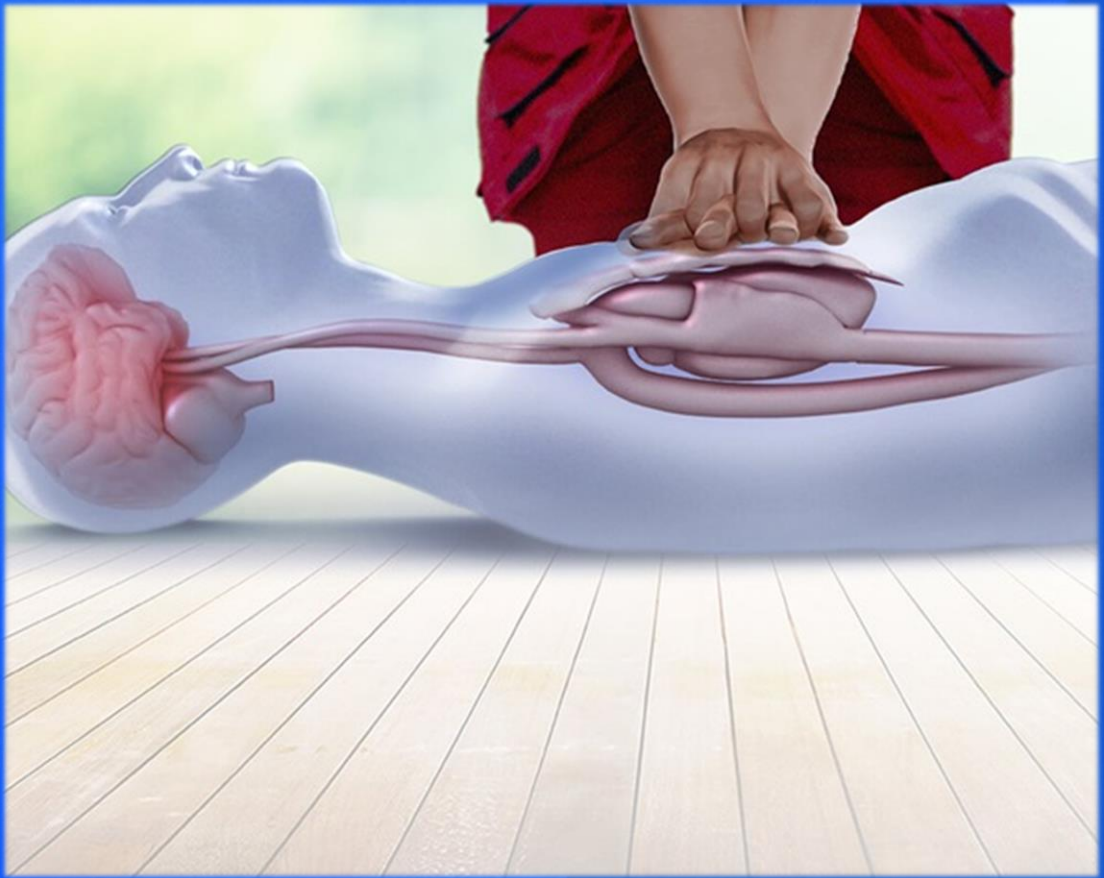
12. Criteria for completion:

- Completion of assignments
- 50 marks MCQ
- One case presentation



KLE ACADEMY OF HIGHER
EDUCATION & RESEARCH
BELAGAVI
Deemed-to-be-University
(Formerly known as KLE University)

DEPARTMENT OF ANAESTHESIOLOGY



Value Added Course

**BASIC LIFE
SUPPORT**

The Department of Anaesthesiology, Jawaharlal Nehru Medical College, KLE Academy of Higher Education and Research, Belagavi has been in the forefront in conducting Basic Life Support (BLS) workshops since the 2000s.

The faculty of the Department are trained BLS & ACLS instructors and are updated as per the latest BLS guidelines regularly brought out by the American Heart Association (AHA).

The main aim of the course is to train the participants in the skills and knowledge need to provide immediate medical care in cardiorespiratory arrest until proper medical care at a hospital can be given

Objectives of the course

- Identification of Cardio-respiratory Arrest
- Understanding the concepts of Basic Life Support
- Hands on Skills development of BLS on Mannequins

Target Participants

Medical, Dental, Nursing, Physiotherapy Faculty and Students

Duration of Course: 16 hours

Course Content includes:

- Early recognition and activation
- Early high-quality CPR
- Early defibrillation
- Early transfer

Method of Conduction:

- Didactic Lectures: 3 hours
- Online Module Teaching: 3 hours
- Hands on Workshop: 10 hours



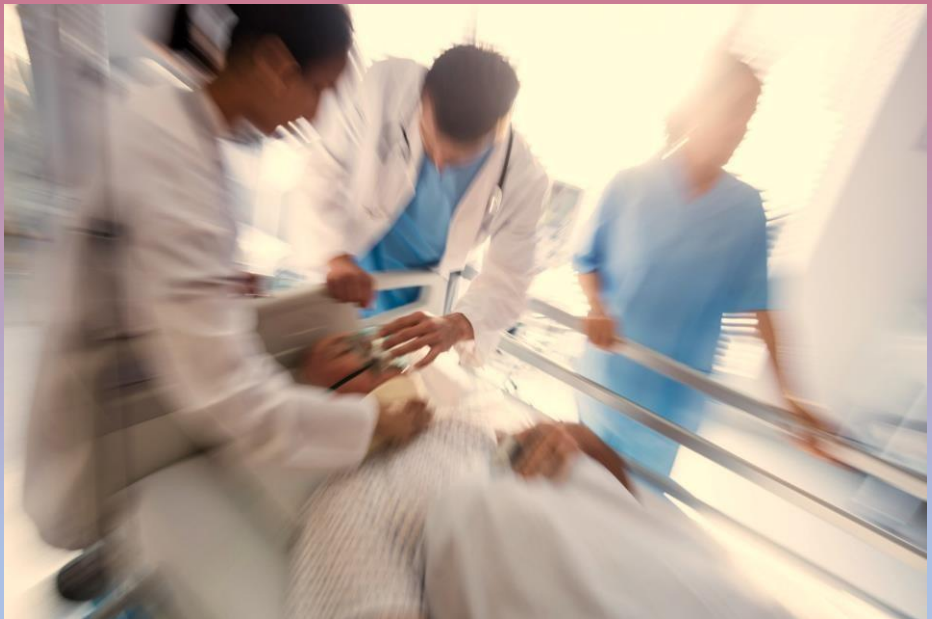
Department of Anaesthesiology
KLE Dr.Prabhakar Kore Hospital & MRC
Belagavi
Phone: 0831-2551292/2551293
Email:anaesthesia47@gmail.com



Value Added Course



Advanced Trauma Life Support



DEPARTMENT OF ANAESTHESIOLOGY

The Department of Anaesthesiology, Jawaharlal Nehru Medical College, KLE Academy of Higher Education and Research, Belagavi has been in the forefront in conducting Advanced Trauma Life Support (ATLS) workshops.

Objectives of the course

- Assess the patient's condition rapidly and accurately
- Have an organized approach for evaluation & management of seriously injured patients
- Resuscitate and stabilize the patients according to priority
- Arrange appropriately for the patient's definitive care
- Ensure that optimum care is provided

Target participants

- Post MBBS
- Post graduates
- Medical and Paramedical courses

Duration of course

- 16 hours (3days)

Course content

- Initial Assessment and Management of Trauma patient
- Airway and Ventilatory Management
- Management of Shock
- Thoracic Trauma Management
- Abdominal and Pelvic Trauma Management
- Spine and Spinal Cord Trauma Management
- Head Trauma Management
- Musculoskeletal Trauma Management
- Paediatric Trauma Care
- Thermal Injuries
- Geriatric Trauma
- Trauma in Pregnancy
- Transfer to Definitive

DAY 1

9.00 AM to 9.30AM	Pretest
9:30AM to 10.00AM	Introduction to ATLS
10:00AM TO 11.00AM	Initial assessment & management of trauma patient
11:00AM TO 11.15AM	Tea Break
11:15AM TO 12.15PM	Airway and ventilation management
12.15PM TO 1.15PM	Management of shock
1.15PM TO 2.00PM	Lunch
2:00PM TO 3.00PM	Triage scenarios
3:00PM TO 4.00PM	Skills stations
4.00PM	Tea Break

DAY 2

9.00 AM to 9.30AM	Thoracic trauma
9.30AM to 10.00AM	Abdominal and pelvic trauma
10:00AM TO 11.00AM	Skills stations
11:00AM TO 11.15PM	Tea break
11.15AM TO 12.15PM	Musculoskeletal trauma
12.15PM TO 1.15PM	Skills stations
1.15PM TO 2.00PM	Lunch
2:00PM TO 2.30PM	Head trauma
2.30PM TO 3.00PM	Spine and spinal cord trauma
3.00PM TO 4.00PM	Skills stations
4.00PM	Tea Break

DAY 3

9.00 AM to 10.00AM	Paediatric Trauma
10.00AM to 11.00AM	Obstetric Trauma
11:00AM TO 11.15AM	Tea Break
11:15AM TO 12.15PM	Skills stations
12.15PM TO 1.00PM	Assessment
1.00PM onwards	Lunch break



Department of Anaesthesiology
KLES Prabhakar Kore Hospital & MRC,
Jawaharlal Nehru Medical College Campus, Belagavi

Phone: 0831-2551292
Email: anaesthesia47@gmail.com

Department of Public Health

Value-Added Course

Disaster Management

2016-17



Accredited 'A' Grade by NAAC (2nd Cycle)

Placed in Category 'A' by MHRD (GoI)

KLE ACADEMY OF HIGHER EDUCATION AND RESEARCH

JNMC Campus, Nehru Nagar, Belagavi – Karnataka, India

Phone: +91 0831-2472777, 2493779, FAX: +91 0831 – 249377

E-mail: info@kledeemeduniversity.edu.in Website: kledeemeduniversity.com

Disaster Management

1. Name of the course: Health communication

2. Aim: This course aims to raise the level of awareness and preparedness as well as to enhance analytical skills and professional competencies of different key stakeholders in various areas of Disaster Risk Management.

Objectives-

- To professionalise disaster risk reduction and emergency management in India by developing an independent cadre of professionally trained emergency and mitigation managers.
- To promote formal training and education for disaster management in India and in the region

3. Course contents:

Topics

1. Understanding Disasters and Disaster Management
2. Disaster Health care management
3. Disaster Trends
4. Geological Disasters
5. Hydro-Meteorological Disasters
6. Dos' and Don'ts' For Various Hazards/Disasters
7. Differential Impact of Disasters on Women and Men
8. Engendering Disaster Management
9. Empowering Women and Men in Disaster Risk Management
10. Village Disaster Management Plan

4. Duration of the course: 8 weeks

5. Timing of the course: 3 days a week

6. Eligibility Criteria : Life science students, Doctors, Practitioners, BSW & MSW students, School Counsellors, Health Inspectors and Health Care Workers.

7. Fees:

8. Resource persons:

1. Dr. Mubashir Angolkar
2. Dr. Ashwini Narasannavar
3. Dr. Nagaraj Patil
4. Dr. Rajashree Koppad

9. Method of assessment – multiple choice questions at the end of every week

10. Feedback – Google forms

11. List reference books

1. Disaster Management by G.K. Ghosh
2. Emergency Medical Services And Disaster Management: A Holistic Approach by P.K. Dave
3. Disaster Management - Recent Approaches by Arvind Kumar
4. Textbook of Preventive and Social Medicine by Mahajan & Gupta
5. Textbook of Community Medicine by Dr Sunder Lal, Dr Adarsh and Dr Pankaj
6. K. Park, Park's Textbook of preventive and social medicine.

12. Criteria for completion – the student must have attended at least 80% of the lectures and completed all the assignments.

Department of Public Health

Value-Added Course

Health Communication

2017-18



Accredited 'A' Grade by NAAC (2nd Cycle)

Placed in Category 'A' by MHRD (GoI)

KLE ACADEMY OF HIGHER EDUCATION AND RESEARCH

JNMC Campus, Nehru Nagar, Belagavi – Karnataka, India

Phone: +91 0831-2472777, 2493779, FAX: +91 0831 – 249377

E-mail: info@kledeemeduniversity.edu.in Website: kledeemeduniversity.com

Health communication

1. Name of the course: Health communication

2. Aim: This course aims to introduce the basic principles of communication and provide an understanding of effects of communication in promoting various health goals

Objectives:

- Explain the role of health education in health care.
- Articulate and clearly understand health communication models and strategies
- Establish effective communication with people in diverse health fields.

3. Course contents:

Topics

1. Introduction to communication: Definition, principles of communication, communication skills
2. Communication process
3. Types of communication and barriers in communication
4. Application of communication in health education.
5. Models of communication process.
6. Media of communication.
7. Behaviour change communication.
8. IEC Strategy

4. Duration of the course - 3 weeks

5. Timing of the course – 3 days a week

6. Eligibility Criteria : Life science students, Doctors, Practitioners, BSW & MSW students, School Counsellors, Health Inspectors and Health Care Workers.

7. Fees

8. Resource persons:

1. Dr. Ashwini Narasannavar
2. Dr. Annapurna Kari
3. Dr. Nagaraj Patil
4. Dr. Pooja Nilgar

9. Method of assessment – multiple choice questions at the end of every week

10. Feedback – Google forms

11. List reference books

1. Health behavior and health education : theory, research, and practice by Karen Glanz, Barbara K. Rimer, and K. Viswanath.
2. Theoretical Foundations of Health Education and Health Promotion by Manoj Sharma and John A. Romas.
3. Textbook of Preventive and Social Medicine by Mahajan & Gupta
4. Textbook of Community Medicine by Dr Sunder Lal, Dr Adarsh and Dr Pankaj
5. Promoting Health: A Practical Guide To Health Education by Ewles L and Simnet I
6. K. Park, Park's Textbook of preventive and social medicine

Criteria for completion – attended at least 7 out of the 9 lectures and completed all the assignments.

Department of Public Health

Value-Added Course

Leadership Skills

2017-18



Accredited 'A' Grade by NAAC (2nd Cycle)

Placed in Category 'A' by MHRD (GoI)

KLE ACADEMY OF HIGHER EDUCATION AND RESEARCH

JNMC Campus, Nehru Nagar, Belagavi – Karnataka, India

Phone: +91 0831-2472777, 2493779, FAX: +91 0831 – 249377

E-mail: info@kledeemeduniversity.edu.in Website: kledeemeduniversity.com

Leadership Skills

1. Name of the course: Leadership Skills

2. Aim: Leadership is the process of leading individuals as a group to achieve a common objective. The aim of the leadership training is to make leaders competent to function effectively and manage and influence the employees. It assists in organizing and synthesizing complex ideas into a tapestry of words and images.

Objectives:

- To bring out the best in employees by communicating effectively about what needs to be done and why it matters.
- To bring out the best in employees through careful instruction as well as management practices aimed at motivating workers to do their best.
- To improve the critical skill- visioning process and eventually aiding in analyzing the past, understanding the present and exploring options to craft a clear future vision.

3. Course contents:

Topics:

1. SWOC Analysis
2. Leadership Qualities and Challenges
3. Types of Leaders
4. Motivation
5. Ethics and responsibilities
6. Communication
7. Management
8. Team Building

4. Duration of the course: 5 weeks

5. Timing of the course: Weekly 3 classes of 1 hour duration.

6. Eligibility Criteria: Life science students, Doctors, Practitioners, BSW & MSW students, School Counsellors, Health Inspectors and Health Care Workers.

7. Fees:

8. Resource persons:

1. Dr. Mubashir Angolkar
2. Dr. Ashwini Narasannavar
3. Dr. Annapurna Kari
4. Mr. S. G. Patil

9. Method of assessment: Assignments and Quiz

10. Feedback: Google feedback forms

11. List reference books:

1. The Leader in You - by Dale Carnegie
2. How to Develop Self-Confidence & Influence People by Public Speaking - by Dale Carnegie
3. The Power of your Subconscious Mind - by Joseph Murphy

12. Criteria for completion: If the participants attend 10 hours out of 15 hours and complete assignments & quiz

Department of Public Health

Value-Added Course

Personality Development

2017-18



Accredited 'A' Grade by NAAC (2nd Cycle)

Placed in Category 'A' by MHRD (GoI)

KLE ACADEMY OF HIGHER EDUCATION AND RESEARCH

JNMC Campus, Nehru Nagar, Belagavi – Karnataka, India

Phone: +91 0831-2472777, 2493779, FAX: +91 0831 – 249377

E-mail: info@kledeemeduniversity.edu.in Website: kledeemeduniversity.com

Personality Development

1. Name of the course: Personality Development

2. Aim: The programme **aims** at grooming the participants through sensitizing them about proper behavior, socially and professionally, in formal and informal circumstances.

Objectives: The **objective** of the programme is to build self-confidence, enhance self-esteem and improve overall **personality** of the participants.

3. Course contents:

Topics:

1. Personality development
2. Types of personality
3. Influencing factors
4. Leadership qualities
5. Five factor model
6. Freud's tripartite theory
7. Developmental stage theories
8. Motivation and confidence

4. Duration of the course: 5 weeks

5. Timing of the course: Weekly 3 classes of 1 hour duration.

6. Eligibility Criteria: Life science students, Doctors, Practitioners, BSW & MSW students, School Counselors, Health Inspectors and Health Care Workers.

7. Fees:

8. Resource persons:

1. Dr. Mubashir Angolkar
2. Dr. Annapurna Kari
3. Mr. S. G. Patil
4. Dr. Sphootrhi Mastiholi

9. Method of assessment: Assignments and Quiz

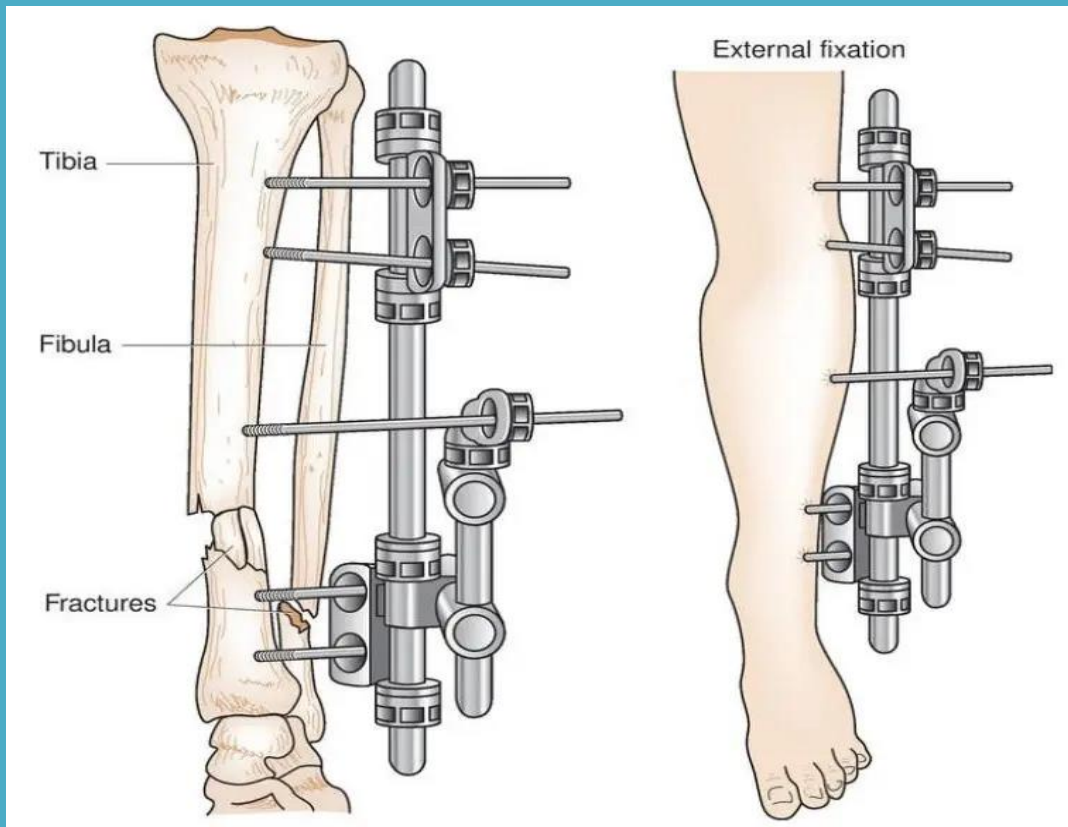
10. Feedback: Google feedback forms

11. List reference books:

1. Personality Development and Soft Skills - by Barun Mitra
2. The Ace of Soft Skills: Attitude, Communication and Etiquette for Success -
by Gopalaswamy Ramesh
3. Communication Skills - by Sanjay Kumar, Pushp Lata

12. Criteria for completion: If the participants attend 10 hours out of 15 hours and complete assignments & quiz.

DEPARTMENT OF ORTHOPAEDICS



VALUE ADDED COURSE – EXTERNAL FIXATION

The Department of Orthopaedics, Jawaharlal Nehru Medical College, KLE Academy of Higher Education and Research, Belagavi has been in the fore front in conducting Workshop on External Fixator since the 2000s.

The faculty of the Department are trained Workshop on External Fixator instructors and are updated as per the latest Workshop guidelines.

The main aim of the course is to train the participants in the skills and knowledge need to provide Fracture Managements at a Hospital level.

Objectives of the course

- 1. To understand fractures and indications for fracture fixation**
- 2. To appreciate the varieties of orthopaedic instruments**
- 3. To appreciate the types of orthopaedic implants**
- 4. To understand the principles of fracture fixation**

Target Participants

25 Under-Graduates Students

Duration of Course: 16 hours

Course Content includes:

- Fractures and indications for fracture fixation**
- Appreciate the varieties of Orthopaedic instruments**
- Appreciate the types of Orthopaedic implants**
- Understand the principles of fracture fixation**

Method of Conduction:

- Didactic Lectures: 3 hours**
- Online Module Teaching: 3 hours**
- Hands on Workshop: 10 hours**



**Department of Orthopaedics
KLE Dr. Prabhakar Kore Hospital & MRC
Belagavi**

**Phone: 0831-2551312/2551314
Email: orthopaedic.inm c@gmail.com**



Department of Pharmacology ,Jawaharlal Nehru Medical College,
KAHER (Deemed to be University)
Organizing



Value Added Course On:

“Utilization of Artificial Intelligence in Drug Research”

Name of the Department: Pharmacology, J. N. Medical College.

Course Co-ordinator: Dr. Nayana K. Hashilkar & Dr. Anupama M.G.

Venue : Department of Pharmacology, J.N. Medical College.



Sr.No	Details	
1.	Name of the Value Added Course	“Utilization of Artificial Intelligence in Drug Research”
2.	Need of the course	Artificial intelligence and machine learning (AI/ML) have made significant progress in recent years, particularly in terms of deep learning (DL) approaches in pharmacology. Artificial intelligence is expected to have a significant impact on clinical pharmacologists at all levels in the coming decade, including drug research, medical education, and providing information and advice about the actions and proper uses of medicines in humans, as well as implementing that knowledge in clinical practice. The link between chemical structure and physical attributes or biological activity is often modeled in medicinal chemistry. The representation that is utilized to transfer a molecular structure into a form that can be processed by a machine learning algorithm is an important part of this process. From peptide synthesis to molecule design, virtual screening to molecular docking, quantitative structure-activity relationship to drug repositioning, protein misfolding to protein-protein interactions, and molecular pathway identification to poly-pharmacology, artificial intelligence has been applied to various aspects of the drug design and development process
3.	Objectives of the course	At the end of the course the student should be able to, 1. Understand Various techniques of Artificial Intelligence 2. Apply the principles of AI in drug research.
4.	Target Group	Postgraduate students of Medical Course & Pharmacy course (40 Students/ Batch)
5.	Duration-	16 hrs
6.	Conducted	4 Days
7.	Frequency	Once a year
8.	Teaching Methods	Interactive Lectures, Demonstration & Activities.
9.	Fees	Rs. 500/- Per student
10.	Assessment and Certification Done	Yes
11.	Feedback collected	Yes
12.	Pre Tests & Post Tests	Yes

Day 1

First half

Introduction to Bioinformatics & its applications

Biological databases:

- Literature search NCBI, PubMed
- Primary and secondary databases
- Protein and nucleic acid Sequence databases
- Structure databases
- Small molecule databases
- File formats for sequences and structures

Second half

Demonstration



Day 2

First half

Sequence analysis

- Characterizing the disease causing mutations at structural and functional level biomolecular structure retrieval and its visualization using Rasmol, Pymol, Chimera
- Protein structure prediction
- Homology modeling & Validation of modeled structure

Network pharmacology

- Mining of phytocompounds from traditional medicinal plants using online databases.
- Chemical information of phytocompounds using PubChem database
- ADMET profile prediction using AdverPred, ADMETlab 2.0, admetSAR,
- Phytocompounds Probable protein Target prediction using BindingDB and SwissTargetPredcition and others

Scond half

Demonstration of Modeller

Demonstration of above steps of network pharmacology

Day 3

First half

Biomolecular docking

Secondary structure analysis

Prediction of binding site

Biomolecular docking: AutoDock

Analysis of docked complexes

Protein-Protein/peptide docking

Second half

Demonstration of docking using AutoDock.

Demonstration of Gene set pathway enrichment analysis. (Cont. day 2 network pharmacology)



Day 4

First half

Molecular dynamics simulation

- Introductions and applications
- ADMET analysis, Lipinski rules

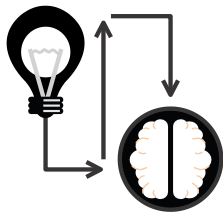
Second half

- Demonstration of MD and its analysis
- Demonstration of Network Pharmacology (Cont. day 3 network pharmacology)

OBJECTIVE - Bridging the gap between Healthcare & Technology

WHAT IS THE PROBLEM?	WHAT IS THE CURRENT STATE ?	WHAT ARE THE CHALLENGES ?
➤ During the UG or PG courses in medical domain, students are not trained with respect to basic digital literacy skills, health-tech skills and regarding the recent upgrades or trends in the industry. ➤ Which in return increases the gap between the providers and health-tech	➤ Doctors, dentists or nurses are using telemedicine platforms, EMR/EHR/HIMS ➤ Technicians/phlebotomist/pathologists uses LIMS ➤ Pharmacist uses e-prescription, opt for research & remote patient monitoring in clinical trials. ➤ Individuals want to explore other opportunities beyond being a clinician but lack of in depth knowledge, awareness and training in digital healthcare. 	➤ Non availability of courses in college curriculum. ➤ Lack of awareness in med- school students regarding opportunities in healthcare sector with digital revolution in industry. ➤ Unaware how grab new opportunities, what are requirements, how to start & get through.

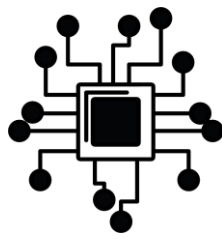
BENEFITS...



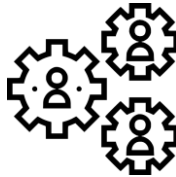
**BRODER HORIZON
WITH COURSE
EXPOSURE**



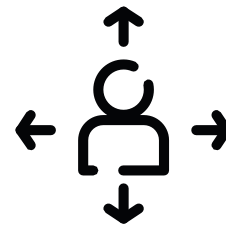
**EFFICIENT CLINICAL
PERFORMANCE**



**DIGITAL LITERACY &
AWAENESS**



**NEW HEALTH-TECH
SKILLS ACQUIRED**



**INCREASED OPPORTUNITIES
IN HEALTHCARE ECOSYSTEM**



**SHOWCASE SKILLS IN
RESUME FOR PLACEMENTS**



Course Content

1 & 2nd SUNDAY

HEALTHCARE SOFTWARES

- EMR, EHR
- HIMS, LIMS
- Medical imaging, billing, database
- e-prescription, appt. scheduling
- Health tracking Apps
- and much more....

3rd SUNDAY

HEALTHCARE TECHNOLOGIES

- Telemedicine
- Remote patient monitoring
- Wearables & IOT devices
- Digital health & therapeutics
- In Home-Care
- e-clinical trails

4 & 5th SUNDAY

MARKET UNDERSTANDING

- Healthcare market research
- User persona building
- Competitive Analysis
- Research evaluation & metrics
- Healthcare business development
- and much more....

LEARN:

- About each software used in hospitals, labs, clinics etc
- What & how each technology work in industry
- Get hands-on experience
- Understand with case studies
- Learn about data flow, benefits, usage & features
- Exposure to companies in market & Indian players
- Understand models
- Learn with concept videos



- Learn with concept videos
- Understand models
- Exposure to companies in market & Indian players
- Learn about data flow, benefits, usage & features
- Understanding with case studies
- Get hands-on experience



Course Content

7th SUNDAY

CLINICAL DATA UNDERSTANDING

- Healthcare Data
- Using Excel-Pivot
- Derive insights from clinical data
- Sequential Query Language
- Clinical Statistics
- and much more....

8th SUNDAY

HEALTH PROGRAM MANAGEMENT

- Healthcare programme planning
- Plan implementation
- Plan evolution metrics & outcomes
- Problem state identify, define & resolve
- and much more....

9th SUNDAY

HEALTH-TECH ETHICS

- HIPPA Compliance
- Healthcare rules & regulation
- HL 7
- CDA
- and much more....

LEARN:

- Understanding what is healthcare data & how it works
- Understand models
- Learn with concept videos
- Get hands-on experience
- Understand with case studies
- Exposure to companies in market & Indian players



- Exposure to companies in market & Indian players
- Understand with case studies
- Get hands-on experience
- Learn with concept videos
- Understanding what is healthcare data & how it works



Who can apply?

Clinicians who want to get into corporate & management

Clinicians looking to manage their practice better

Clinicians looking for alternative non- clinical careers in healthcare industry

Students of UG or PG looking for side contribution in R&D along clinician practice.

Pharma students looking for better alternative & want to increase recruitment opportunities in well-known companies.

Open for: MBBS/BDS/Nursing/Pharma/ Physiotherapy

Duration :1 Week [5 days, 2 hours per day]

2 days [3 hours per day]

Number of Participants – 50 students/ session

Frequency – 4 times a year

Sessions: Offline

Fees: Rs 2000/- per candidate

Speaker: Dr. Himani Singh

Professor and Head of Department of Pharmacology

Dr. Nayana K Hashilkar

Course Co-ordinator

Dr. Aarti Bhosale

Assistant Professor

Department of Pharmacology

For further queries, kindly contact

Dr. Aarti Bhosale

Assistant Professor, Department of Pharmacology

Email - draartibhosale.mbbs@gmail.com

Phone - 9632707766

J. N MEDICAL COLLEGE

CONSTITUENT UNIT OF

KLE ACADEMY OF HIGHER EDUCATION & RESEARCH

Accredited "A" Grade by NAAC (2nd cycle)

Placed in Category "A" by MHRD (Gol)

DEPARTMENT OF PUBLIC HEALTH

Value Added Course



SKILLS IN DIET MANAGEMENT

Aim of this course is to improve the understanding of Fundamentals of Nutrition and acquire skills in planning diets for different age groups and common health conditions.

ELIGIBILITY

UG & PG- Allied Programs, Medical Students & Dental Students, Ayurveda, Pharmacy, Nursing, Physiotherapy and PhD Scholars.



TAKEAWAY FROM THIS COURSE

1. To understand the basics of Nutrition and its application at personal level.
2. To plan diets according to the individual's requirement in health and disease conditions at personal level.

DURATION: 6 Weeks (3 hours a week)

PROPOSED INTAKE – 25

MEDIUM OF INSTRUCTION: English

COURSE CONTENT

Introduction to Nutrition

Macronutrients & Micronutrients- Definition, types, sources and significance in health & disease.

- Basics of Dietetics
 - Dietary Guidelines
 - Food Groups & Food Composition Tables
 - Meal Planning and Food Exchange
 - Lifecycle Nutrition
 - Nutritional & Dietary Considerations across lifespan- Pregnancy and fetal development, Lactation, Childhood years, adults and Old age.
 - Role of Diet and Exercise in management of NCD – Diabetes, CVD, Hypertension, Stroke and Cancer.
 - Trends in Nutrition & Healthy Practices
 - Functional foods & Nutraceuticals, Probiotics & Prebiotics, Nutrigenomics
 - Basic Cooking Techniques and ways to prevent nutrient losses, Basics on Storage, Food Safety.
- 
- 

DEPARTMENT OF ORTHOPAEDICS



VALUE ADDED COURSE –
Plaster Techniques and Splinting

The Department of Orthopaedics, Jawaharlal Nehru Medical College, KLE Academy of Higher Education and Research, Belagavi has been in the fore front in conducting Value added courses on Plaster Techniques & Splinting since many year.

The faculty of the Department are trained for Workshop on Plaster Techniques and Splinting and are regularly updated as per the latest Workshop guidelines.

The main aim of the course is to train the participants in the skills and knowledge needed to provide Plaster Techniques and Splinting Techniques at the Hospital level.

Objectives of the course

- 1. Enhance Clinical Competence:** Provide participants with comprehensive knowledge and hands-on skills in plaster technology and splinting techniques, enabling them to apply orthopedic casts effectively and with precision in diverse clinical scenarios.
- 2. Optimize Patient Care:** Equip healthcare professionals with advanced expertise in plaster technology and splinting, empowering them to contribute to improved patient outcomes through accurate assessment, customized casting solutions, and the prevention of complications related to orthopedic interventions.

Target Participants

25 MBBS Under-Graduates Students

Duration of Course: 16 hours

Course Content includes:

Module 1: Fundamentals of Plaster Technology

Module 2: Anatomy and Physiology Relevant to Casting

Module 3: Techniques in Plaster Application

Module 4: Splinting Techniques

Module 5: Complications and Management

Module 6: Advanced Applications and Emerging Trends

Module 7: Patient Communication and Care

Module 8: Practical Assessment and Certification

Method of Conduction:

- Didactic Lectures: 3 hours + 3 hours = 6 hours**
- Simulation Model Teaching: 3 hours+3 hours =6 hours**
- Hands on Workshop: 2 hours + 2 hours = 4 hours**
- = 16 hours**



A



B



C



D



E



F



**Department of Orthopaedics
KLE Dr.Prabhakar Kore Hospital & MRC
Belagavi**

**Phone: 0831-2551312/2551314
Email:orthopaedic.jnm.c@gmail.com**

VALUE ADDED COURSE: UROLITHIASIS AND DIET

Eating RIGHT
in **KIDNEY
STONE**



**KLE ACADEMY OF HIGHER EDUCATION
AND RESEARCH**

**JAWAHARLAL NEHRU MEDICAL COLLEGE,
BELAGAVI**

DEPARTMENT OF UROLOGY

VENUE:
TIMINGS:-
REGISTRATION FEE:- AS PER KAHER UNIVERSITY

Co-ordinators:-
DRS.I.NEELI
DR VIKRAM PRABHA
DR VISHAL KADELI

**KLE ACADEMY OF HIGHER EDUCATION AND
RESEARCH**

JAWAHARLAL NEHRU MEDICAL COLLEGE, BELAGAVI

DEPARTMENT OF UROLOGY

VALUE ADDED COURSE

As per

Competency Based Medical Education Curriculum

Name: _____ **Roll No:** _____

University Registration No. _____

VALUE ADDED COURSE:

Value Added Course: A Value Added Course is a learning experience created in the curriculum to provide an opportunity for the learner to explore, discover and experience areas or streams of interest.

Log Book: Is a verified record of the progression of the learner documenting the acquisition of the requisite knowledge, skills, attitude and/or competencies.

Portfolio: is a collection of the learner's progression in tasks and competencies. A portfolio is an evidence of events documented in the log book. It includes selected assignments, self-assessment, feedback, work-based and in-training formative assessments, reflections and learnings from planned activity in the curriculum.

Log books are thus linked to portfolios and may be included in the portfolio.

Objectives:

To provide the learner with opportunities:

- (a) For diverse learning experiences,
- (b) To do research/community projects that will stimulate enquiry, self-directed, experiential learning and lateral thinking.

It is mandatory for learners to do a value added course. The course time should not be used to make up for missed clinical postings, shortage of attendance or other purposes.

Structure:

- (a) The learner shall rotate 16 lectures in total
- (b) These lectures will cover the basics and provide insights into the field which will help the students gain interest in that particular science

During the course, regular clinical postings shall continue.

A Grade during elective postings is required for eligibility to appear in the final MBBS examination.

Grading: Percentage above 70 % = A+

Percentage above 50 to 70 % = A

Percentage less than 50 % = B

	VALUE ADDED COURSE
WHEN AND WHOIM	AFTER TEACHING HOURS, ANY HEALTH CARE PROFESSIONAL STUDENT
FOCUS OF ELECTIVES	CLINICAL SPECIALITIES
NATURE OF LEARNING	SUPERVISED, SELF DIRECTED
REGULAR CLINICAL POSTINGS	WILL NOT BE OFFERED
ATTENDANCE	MANDATORY 75%
ASSESSMENT	LOG BOOK & REFLECTION
OUT OF INSTITUTION EXPERIENCE	NOT ALLOWED
OUT OF CITY OR STATE EXPERIENCE	NOT ALLOWED

INTRODUCTION TO THE COURSE

UROLITHIASIS & DIET

Urolithiasis is a global problem spanning all geographic regions with an estimated annual incidence of 1%, prevalence of 3–5% and a lifetime risk of 15–25%. Once afflicted, urolithiasis tends to be recurrent in the majority of cases. The 50% of kidney patients have reappearance within 10 years. In a recent study the recurrence rates are estimated at about 10% per year, totaling 50% over a 5–10 years period and 75% over 20 years. In India, 12% of the people is estimated to have urinary stones, out of which 50% may end up with loss of kidneys or renal damage.

Because of the high diagnostic and treatment costs of kidney stones and their association with serious complications it is important to target modifiable risk factors for the prevention of developing urinary tract stone formation. Accumulating evidence has shown that higher urinary excretion of calcium, oxalate, uric acid, and creatinine as well as lower excretion of urinary citrate are potential urinary metabolic risk factors for kidney stone formation. About 80% of kidney stones are made up calcium salts, of which calcium oxalate stones are the main calcium-containing stones. The tendency to calcium oxalate crystal formation is directly associated with urinary concentrations of uric acid, oxalate and calcium, and inversely related to citrate and magnesium excretion.

Many urinary etiologic factors in the development of kidney stones could be sufficiently modified by diet, as the urine ionic composition and supersaturation are straightly associated with diet. Certain dietary factors, especially low intake of fiber, potassium, calcium, and fluids well as high intake of sodium, animal protein and fat, have been identified to be main dietary contributors to the risk of kidney stones. The dietary guidelines for prevention of kidney stones focus on the nutrients and foods having effects on the urinary saturation. A diet which is high in vegetables and fruits, legumes and nuts, low-fat dairy products, whole grains, and low in animal protein, sweetened beverages, and sodium has a potential for kidney stone prevention.

Course Content:

1. Introduction to Urolithiasis
 2. Prevalence of urolithiasis
 3. Risk factors for Urolithiasis
 4. Saturation, Nucleation and Crystal growth
 5. Inhibitors and Promoters of Crystal formation
 6. Anatomic pre-disposition to stones
 7. Classification of Urolithiasis
 8. Symptoms and signs of Urolithiasis
 9. Dietary assessment in stone formers
 10. Nutrition therapy for low volume urine
 11. Nutrition therapy for High Urine Calcium
 12. Nutrition therapy for High Urine Oxalate
 13. Nutrition therapy for Low Urine Citrate/ Magnesium/ Potassium
 14. Nutrition therapy for High Urine Uric acid
 15. Therapeutic Nutritional Strategies when no risk factors are apparent
 16. Strategies for providing nutritional therapy and education to patients
-

ASSESSMENT

ACTIVITY	FACULTY COMMENTS & SIGNATURE	GRADING
INTERACTIVE LECTURE 1 (INTRODUCTION TO UROLITHIASIS)	INTERACTIVE IN SESSION YES/NO	FAIR/ SATISFACTORY/ EXCELLENT
INTERACTIVE LECTURE 2 (PREVALENCE OF UROLITHIASIS)	INTERACTIVE IN SESSION YES/NO	PRESENT/ ABSENT

ACTIVITY	FACULTY COMMENTS & SIGNATURE	GRADING
INTERACTIVE LECTURE 3 (RISK FACTOR FOR UROLITHIASIS)	INTERACTIVE IN SESSION YES/NO	FAIR/ SATISFACTORY/ EXCELLENT
INTERACTIVE LECTURE 4 (SATURATION, NUCLEATION AND CRYSTAL GROWTH)	INTERACTIVE IN SESSION YES/NO	PRESENT/ ABSENT

ACTIVITY	FACULTY COMMENTS & SIGNATURE	GRADING
INTERACTIVE LECTURE 5 (ANATOMIC PREDISPOSITION OF STONES)	INTERACTIVE IN SESSION YES/NO	FAIR/ SATISFACTORY/ EXCELLENT
INTERACTIVE LECTURE 6 (INHIBITORS AND PROMOTERS OF CRYSTAL FORMATION)	INTERACTIVE IN SESSION YES/NO	PRESENT/ ABSENT

ACTIVITY	FACULTY COMMENTS & SIGNATURE	GRADING
INTERACTIVE LECTURE 7 (CLASSIFICATION OF UROLITHIASIS)	INTERACTIVE IN SESSION YES/NO	FAIR/ SATISFACTORY/ EXCELLENT
INTERACTIVE LECTURE 8 (SYMPTOMS AND SIGNS)	INTERACTIVE IN SESSION YES/NO	PRESENT/ ABSENT

ACTIVITY	FACULTY COMMENTS & SIGNATURE	GRADING
INTERACTIVE LECTURE 9 (DIETARY ASSESSMENT IN STONE FORMERS)	INTERACTIVE IN SESSION YES/NO	FAIR/ SATISFACTORY/ EXCELLENT
INTERACTIVE LECTURE 10 (NUTRITION THERAPY FOR LOW VOLUME URINE)	INTERACTIVE IN SESSION YES/NO	PRESENT/ ABSENT

ACTIVITY	FACULTY COMMENTS & SIGNATURE	GRADING
INTERACTIVE LECTURE 11 (NUTRITION THERAPY FOR SPECIFIC LITHOGENIC RISK HIGH URINE CALCIUM)	INTERACTIVE IN SESSION YES/NO	FAIR/ SATISFACTORY/ EXCELLENT
INTERACTIVE LECTURE 12 (NUTRITION THERAPY FOR SPECIFIC LITHOGENIC RISK HIGH URINE OXALATE)	INTERACTIVE IN SESSION YES/NO	PRESENT/ ABSENT

ACTIVITY	FACULTY COMMENTS & SIGNATURE	GRADING
INTERACTIVE LECTURE 13 (NUTRITION THERAPY FOR SPECIFIC LITHOGENIC RISK LOW URINE CITRATE, MAGNESIUM AND POTTASIUUM)	INTERACTIVE IN SESSION YES/NO	FAIR/ SATISFACTORY/ EXCELLENT
INTERACTIVE LECTURE 14 (NUTRITION THERAPY FOR SPECIFIC LITHOGENIC RISK HIGH URINE URIC ACID)	INTERACTIVE IN SESSION YES/NO	PRESENT/ ABSENT

ACTIVITY	FACULTY COMMENTS & SIGNATURE	GRADING
INTERACTIVE LECTURE 15 (THERAPEUTIC NUTRITIONAL STRATEGIES WHEN NO RISK FACTORS ARE APPARENT)	INTERACTIVE IN SESSION YES/NO	FAIR/ SATISFACTORY/ EXCELLENT

INTERACTIVE LECTURE 16 (STRATEGIES FOR PROVIDING NUTRITIONAL THERAPIES AND EDUCATION TO PATIENTS)	INTERACTIVE IN SESSION YES/NO	PRESENT/ ABSENT
---	--	----------------------------

STUDENT INTERPRETATION

INTRODUCTION TO UROLITHIASIS

WHAT DID YOU LEARN?

PREVALENCE OF UROLITHIASIS

WHAT DID YOU LEARN?

RISK FACTORS OF UROLITHIASIS

WHAT DID YOU LEARN?

SATURATION, NUCLEATION AND CRYSTAL GROWTH

WHAT DID YOU LEARN?

INHIBITORS AND PROMOTERS OF CRYSTAL FORMATION

WHAT DID YOU LEARN?

ANATOMIC PREDISPOSITION OF STONES

WHAT DID YOU LEARN?

CLASSIFICATION OF UROLITHIASIS

WHAT DID YOU LEARN?

SYMPTOMS AND SIGNS OF UROLITHIASIS

WHAT DID YOU LEARN?

DIETARY ASSESSMENT IN STONE FORMERS

WHAT DID YOU LEARN?

NUTRITION THERAPY FOR LOW VOLUME URINE

WHAT DID YOU LEARN?

NUTRITION THERAPY FOR HIGH URINE CALCIUM

WHAT DID YOU LEARN?

NUTRITION THERAPY FOR HIGH URINE OXALATE

WHAT DID YOU LEARN?

NUTRITION THERAPY FOR LOW URINE CITRATE/MAGNESIUM/POTASSIUM

WHAT DID YOU LEARN?

NUTRITION THERAPY FOR HIGH URINE URIC ACID

WHAT DID YOU LEARN?

THERAPEUTIC NUTRITIONAL STRATEGIES WHEN NO RISK FACTOR IS APPARENT

WHAT DID YOU LEARN?

STRATEGIES OF PROVIDING NUTRITIONAL THERAPIES AND EDUCATION TO PATIENTS

WHAT DID YOU LEARN?

PREVENTIVE NEPHROLOGY



**VALUE ADDED COURSE:
PREVENTIVE NEPHROLOGY**



DEPARTMENT OF NEPHROLOGY

PREFACE

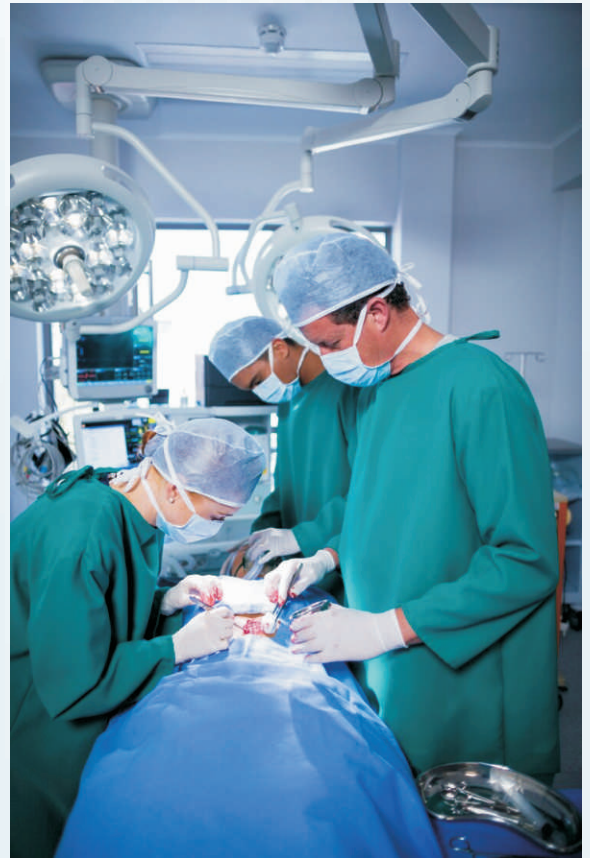
The worldwide incidence of CKD is inexorably on the rise&India is not spared from the alarming statistic. Currently kidney disease is included in the list of top 10 causes of morbidity and mortality.And for developing country, the burden of the disease and its economic implication is staggering. The urgency at its emergence has never been more vital.

In an effort to quell kidney disease at its roots, knowledge regarding kidney disease as well as its preventive aspect is considered to be paramount importance. Acute kidney injury as such has no awakening in the society as well as practitioners, which can progress to CKD calling for continuous dialysis and renal transplantation. One such example is diagnosing surgical cause of AKI. If treated timely and accurately, most patients walk out of the hospital without need for dialysis in feature.

A good diet, active life style and drugs may slow the progression of CKD in the early stages and assist to maintain the vital bodily equilibriums that the kidneys normally regulate. When the kidneys are not functioning properly, fluid and metabolic waste build up and must be removed from the body.

People must take care of end stage renal disease for the rest of their lives, since it is incurable. Patients progression toward renal failure can be slowed down if it is caught early in up. Heart attacks and strokes can as well be triggered by CKD itself loading to early death or disability. The cost of end stage renal disease care as well as its limited availability in developing country like India have a big influence on both the patient's and their carer givers quality of life.

So, it goes without saying 'PREVENTION IS BETTER THAN CURE'and in the aspect prevention is the foremost, since chronic disease is incurable and can take of its heavy toll on patient and care givers life.



COURSE CONTENT

1. **INTRODUCTION:** ANATOMY
RENAL PHYSIOLOGY
-

2. **URINE EXAMINATION**

3. **PREVENTION OF AKI:** Major Risk Factors for Acute Kidney Injury
ICU
DIABETICS
LIVER DISEASE
CARDIAC DISEASE
ELDERLY POPULATION
RENAL STONE DISEASE
COLLAGEN VASCULAR DISEASE
CONTRAST INDUCED NEPHROPATHY
IN PREGNANCY
IN CANCER PATIENTS
Drugs Used in Prevention of Acute Kidney Injury
-

4. **PREVENTION OF PROGRESSION OF CKD**
DM
RENAL STONE DISEASE
ADPKD
-

5. **ROUTINE HEALTH CHECK UP AND PREVENTION/ RETARDING PROGRESSION OF RENAL DISEASE**

6. **DRUGS AND AKI-ATN**
Drugs Responsible for AIN/CIN
-

7. **CHRONIC INTERSTITIAL NEPHRITIS ASSOCIATED WITH HEAVY METAL EXPOSURE**

8. **ANTI CANCER DRUGS AND KIDNEY DISEASE**



DEPARTMENT OF NEPHROLOGY

KLE Dr. Prabhakar Kore Hospital & Medical Research Centre, Belagavi

Phone : 0831 2551302

email : nephrologydept28@gmail.com



Jawaharlal Nehru Medical College

KLE ACADEMY OF HIGHER EDUCATION AND RESEARCH. BELAGAVI

(Deemed-to-be university established u/s 3 of the UC Act, 1956),

Re-accredited A+ Grade by NAAC (3rd cycle)

Placed in Category 'A' by MoE (Gol)

Value Added course on *Beyond the Books: Essential Life Skills for medical students*

ORGANIZED BY
Department of Pathology



Introduction:

Medicine is one of the longest and most stressful courses of undergraduate study program. It is a complex and demanding field of study where medical undergraduates not only require, skill and competence in multiple disciplines, they also need to acquire knowledge on a wide-range of subjects over a limited time period. Medical students go through stress as the course is long, lot of hard work required, less scope for relaxations/vacations, Over packed curriculum with continuous formative and summative assessments. Students come from diverse background, with varied personalities, Intelligence Quotient, Emotional Quotient, learning styles.

In addition, students face issues like Peer pressure (FOMO), Family pressure / Support, Financial background, Distractions: Relationships/Social media/Substance abuse, psychological ailments like depression, anxiety, panic attacks etc. Stress in medical students is a major concern with significant implications for their academic performance, mental health, and future careers.

Hence, there is a need to support students to navigate through the emotional issues, multitasking, enhance performance and build resilience in them to sail smoothly through the long course.

Program schedule

S. No	Topic	Duration
Day 1		
1	Self awareness: Know yourself	2 hours
2	Life skills : General aspects	2 hours
3	Multi tasking and Time management	2 hours
4	Ways to Study smart	2 hours
Day 2		
5	Balancing Emotions and Mental well being	2 hours
6	Physical Health – Fitness and Nutrition	2 hours
6	Developing good Interpersonal relationships	2 hours
7	Learn to relax	2 hours
8	Spirituality in student life	2 hours
Total		16 hours



KLE Academy of Higher Education and Research
(Deemed-to-be-University)
Re-accredited by NAAC 'A+' (3rd Cycle) | Placed in Category 'A' by MoE, Govt. of India

JAWAHARLAL NEHRU MEDICAL COLLEGE, BELAGAVI
DEPARTMENT OF COMMUNITY MEDICINE

Biomedical Communication
A Value Added Course for Postgraduate Students

Course Content

Title	Biomedical Communication
Target Group	Post Graduate Students
Goal & Objectives of Course	In the era of Evidence Based Medicine, it is very essential that the Post Graduate Students know about Publications & Ethics. Publishing plays a pivotal role in the academic world, serving as a cornerstone for the dissemination of knowledge, fostering intellectual discourse, and contributing to the continuous advancement of various fields of study. Through the publication of research papers and academic writing, scholars can contribute to the development of their field, building upon the collective body of knowledge and pushing the boundaries of understanding. Publishing a research paper is often essential for career progression within academia. Furthermore, publishing allows academics to establish themselves as experts, enhancing their professional reputation and opening doors to collaborations and networking opportunities. At the end of the Value Added Course the students should be able 1. To identify different types of Publication. 2. To know the basic structure of Scientific Paper. 3. To discuss various Sections of Manuscript. 4. To learn the importance of Publication Ethics. 5. To learn how to choose a relevant Journal for Publication. 6. To learn how to get your paper published. Course outcome At the end of the successful completion of this course the students will be able to prepare Manuscripts for submission in good indexed Journal. Certificate will be awarded at the end of the course.
Course content	Duration of the Course: 16 hours
Teaching Learning Method	Each Topic of this course will be introduced with lectures followed by hands on training.
Planned Method of Assessment	Examination: MCQs Presentation of Manuscripts developed by the groups
Infrastructure	Lecture Hall, Laptops, Internet facility

Proposed program schedule

SI No	Topic	Duration
Day-1		
1	Objectives of the Value Added Course	30 Minutes
2	Type of Publications & The structure of Scientific paper	1 Hour 30 Minutes
3	Title, Abstract & Keywords Group Activity	1 Hour
4	Introduction Group Activity	1 Hour
5	Material and Method Group Activity	2 Hours
6	Results Group Activity	2 Hours
Day -2		
1	Discussion & Conclusion Group Activity	1 Hour
2	Reference Group Activity	1 Hour
3	Publication Ethics	1 Hour
4	How to choose a Journal Group Activity	1 Hour
5	How to get your paper published	1 Hour
6	Presentation of Manuscripts developed by the groups	3 Hours
	Total	16 Hours



KLE Academy of Higher Education and Research
(Deemed-to-be-University)

Re-accredited by NAAC 'A+' (3rd Cycle) | Placed in Category 'A' by MoE, Govt. of India

JAWAHARLAL NEHRU MEDICAL COLLEGE, BELAGAVI
DEPARTMENT OF COMMUNITY MEDICINE

*A Value Added Course on
Research Methodology
for Undergraduate Students*

Course Content

Title	Research Methodology
Target Group	MBBS Students Phase II & Phase III, Part I
Goal & Objectives of Course	In the era of publish or Perish, it is very essential for the undergraduate students to know about Research methodology. It is a way of explaining how a researcher intends to carry out their research. It's a logical, systematic plan to resolve a research problem. A methodology details a researcher's approach to the research to ensure reliable, valid results that address their aims and objectives. It provides a roadmap for researchers to follow, ensuring that their studies are conducted in a systematic, rigorous, and objective manner. Without a well-defined research methodology, it is difficult to obtain accurate and reliable results, draw meaningful conclusions, and contribute to the body of knowledge. At the end of the Value Added Course the students should be able 1. To design a Research Proposal using the Eight Steps Approach. 2. To perform an Electronic Literature Search on the selected topic. 3. To discuss various study designs. 4. To design Data Collection Instrument. 5. To learn the importance of Ethical Issues in Research. 6. To apply Basic Statistical Measures in Research. 7. To learn Referencing in a Proposal writing. Course outcome At the end of the successful completion of this course the students will be able to prepare a roadmap for research, ensuring that their studies are conducted in a systematic, rigorous, and objective manner. Certificate will be awarded at the end of the course.
Course content	Duration of the Course: 16 hours
Teaching Learning Method	Each Topic of this course will be introduced with lectures followed by hands on training.
Planned Method of Assessment	Examination: MCQs Presentation of proposals developed by the groups
Infrastructure	Lecture Hall, Laptops, Internet facility

Proposed program schedule

Sl No	Topic	Duration
Day-1		
1	Objectives of the Value Added Course Group Activity – Synthesis of Broad Idea	1 Hour
2	The Eight Steps Approach to Design a Research Project Group Activity – Framing of Research Question, Title and Objectives	1 Hour 30 Minutes
3	Review of Literature, Performing an Electronic Literature Search Group Activity – Search relevant articles (Min. 5 nos.)	1 Hour 30 Minutes
4	Methodology – Cross sectional & Longitudinal Study – Case-control study and Cohort Studies – Clinical trials Group Activity: Selecting appropriate study design	2 Hours
5	Sampling Technique and Sample size calculation Group Activity – Calculation of Sample size and appropriate sampling technique	2 Hours
Day -2		
1	Designing Data Collection Instrument Group Activity – Designing the Questionnaire	1 Hour 30 Minutes
2	Ethical Issues in Research & Informed Consent Form	1 Hour
3	Data Management – Coding, data entry	1 Hour 30 Minutes
4	Basic Statistical Measures in Research	1 Hour
5	Referencing in a Protocol	1 Hour
6	Presentation of proposals developed by the groups	3 Hours
	Total	17 Hours



KLE ACADEMY OF HIGHER EDUCATION & RESEARCH

JAWAHARLAL NEHRU MEDICAL
COLLEGE, BELAGAVI - 590010
DEPARTMENT OF OBSTETRIC S
AND GYNAECOLOGY



VALUE ADDED COURSE ON -

“MEDICO LEGAL ASPECTS
OF OBSTETRICS AND
GYNAECOLOGY PRACTICE”



Medico legal aspects in
medical practice is
becoming a global issue.
There has been a dramatic
increase in the Medico legal
claims by almost 104%
every year since the past few years.



To add to this problem, violence against medical
professionals has increased affecting the well-being of
the medical community and the society at large.

Several factors have contributed to these issues.
Improper use of technology, false information, poor
communication between doctor and patient, poor
documentation, inadequate knowledge and awareness
both among service providers and patients are some of
the common causes.



In order to address these issues
and equip the undergraduates
with better knowledge and
relevant skills, Department of
Obstetrics and Gynaecology has
designed this course. It is structured to include several
advantages, expert faculty from different disciplines
like Department of law and order, lawyers , senior
faculty of OBG , paediatrics who will sharing their rich
experience and practical tips.

The course duration is of 16 hours and includes
theory, practical sessions and will be in hybrid
mode, details of which are attached.

An evaluation test will be conducted at the end
of the course and certificate will be issued.

We request to enrol in large numbers and avail
the benefits of the course.

Registration fees – 500 /- Rs





KLE ACADEMY OF HIGHER EDUCATION & RESEARCH

THEORY LECTURE FOR VALUE ADDED COURSE
TOTAL : 12 HOURS
DAY 1 14/9/24

Sl no	Time	Topic	Hours	Faculty
1	9am - 1 pm	POCSO Act	4 hours	
	9am - 9:45	Police perspective	1 hour	Dept of law and order faculty
	9:45am - 10:30am	Lawyer's legal	1 hour	Lawyer
	10:30 am - 12 pm	Pediatrician, gynaecologist - A Team effort	2 hours	Dr. Sujata Jali, Dr, Gauri Prabhu
	12pm-1pm	Discussion		
	1pm - 2pm	Lunch		
2	2pm - 2:45 pm	Consumer protection act 1986 and medical negligence	1 hour	Dr. MC Patel (online)
3	2:45pm - 3:15 pm	Medico legal case scenarios	1 hour	Dr. MC Patel (online)
4	3:15 pm - 4 pm	Preconception and pre natal diagnostic techniques Act 1994	1 hour	Dr. Yeshita Pujar/ Dr. M B Bellad
	4pm - 5 pm	Discussion		
	Practical	Visit to USG	1 hour	Dr. Manjunath Hukkeri



DAY 2 15/9/24

Sl no	Time	Topic	Hours	Faculty
1	9am - 9:45	Medical termination of pregnancy Act - Provisions and penalties	1 hour	Dr. Hema Patil
2	9:45am - 11:15 am	Consent, communication and documentation	1 hour	Dr. Gurudatt K S
3	11:15 am - 12 pm	Prevention of violence against doctors, medical professionals and medical institutions bill, 2018	1 hours	Dr. Somshekar patil Dr. M B Bellad
4	12pm - 12:45 pm	Clinical establishments Act 2010. (registration and regulations)	1 hour	Dr. Kivadasannavar
	12:45pm - 1:30 pm	Discussion		
	1:30 pm - 2 pm	Lunch		
	2 pm - 4 pm	Visit to OT and Demonstration		
	4pm - 5 pm	Visit to labour room and D		

Timings : 9 am to 5 pm

Venue : hybrid mode :

Practical :

1. Visit to Ultrasound facilities – 1 Hour

2. Visit to OT – 2 hours

3. Visit to labour room – 1 hour



VALUE ADDED COURSE IN ENDOCRINOLOGY

– ART & SCIENCE OF INSULIN THERAPY



Jawaharlal Nehru Medical College
A Constituent Unit of
KLE Academy of Higher Education & Research
(Deemed-to-be-University)

Accredited 'A+' Grade by NAAC (3rd cycle)

Placed in Category 'A' by MoE (GoI)

Department of Endocrinology

Website: <http://www.jnmc.edu> | Dept.: 0831- 2551302
Email: endojnmc@gmail.com | Ext. 1806, HOD: Ext. 1029



PREFACE

Insulin remains the cornerstone of therapy in treatment of type 2 diabetes mellitus, insulin therapy becomes inevitable in a substantial number of patients as disease progresses. According to recent estimates 4 out of 10 patients with OADS at any given point of time. Since its discovery nearly a century ago, insulin has revolutionized the treatment landscape, offering individuals with diabetes a lifeline to manage their condition effectively. This therapy plays a pivotal role in controlling blood sugar levels, preventing acute complications such as Diabetic ketoacidosis as well as mitigating the risk of long term complications including cardiovascular disease, neuropathy and nephropathy. Understanding the significance of insulin therapy encompasses appreciating its ability to restore physiological insulin levels, improve quality of life and enhance overall health outcomes for millions worldwide.

Mastering the art and science of insulin therapy is essential in addressing the growing diabetes epidemic, improving patient outcomes and reducing socioeconomic burden associated with this chronic condition. It represents a critical component of comprehensive diabetes care and underscores the importance of ongoing education and training for healthcare professionals. Development of newer insulin represents a significant stride in diabetes care, offering enhanced precision, convenience and safety in insulin therapy. These advancements provide healthcare providers and individuals with diabetes with valuable tools to achieve optimal glycemic control and improve quality of life.

Our Value added Course on art and science of insulin therapy, we explore the multifaceted aspects of insulin therapy, combining evidence based practices with personalized approaches to enhance patient outcomes. As future healthcare leaders, understanding the delicate balance between science and art in insulin therapy is paramount in delivering exceptional patient care. With a focus on evidence based medicine and practical application this course aims to equip with knowledge and skills necessary to navigate landscape of diabetes treatment. From understanding insulin pharmacology to mastering patient education techniques, each module is meticulously crafted to empower you as compassionate and competent practitioners. Embrace this opportunity for a transformative learning experience to shape your understanding of insulin therapy and to provide holistic care to individuals living with diabetes.

Course Content - Insulin Therapy Modules	Time	Session Trained By
1. Introduction	2 Hours	Dr Vikrant Ghatnatti
2. Physiology Of Insulin Secretion	2 Hours	Dr Vikrant Ghatnatti
3. Evolution Of Insulin	2 Hours	Dr Vanishri Ganakumar
4. Types Of Insulin	2 Hours	Dr Vanishri Ganakumar
5. Insulin Techniques	2 Hours	Dr Manjunath Goroshi
6. Dos And Dents In Insulin Therapy	2 Hours	Dr Manjunath Goroshi
7. Recent Advances In Insulin Therapy	2 Hours	Dr Sandeep Donagaon
8. Case Based Discussion of Insulin Related Complications	2 Hours	Dr Sandeep Donagaon

WHO CAN APPLY:

- a. NURSING STAFF
- b. NURSING STUDENTS
- c. INTENSIVIST INTERNS
- d. POST GRADUATES



**VALUE ADDED COURSE IN
ENDOCRINOLOGY**
- ART & SCIENCE OF INSULIN THERAPY



Jawaharlal Nehru Medical College
A Constituent Unit of
KLE Academy of Higher Education & Research
(Deemed-to-be-University)

Accredited 'A+' Grade by NAAC (3rd cycle)

Placed in Category 'A' by MoE (GoI)

Department of Endocrinology

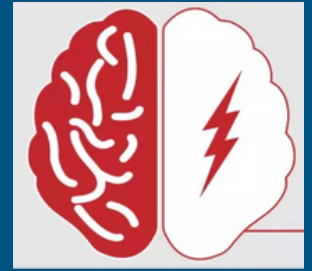
Website: <http://www.jnmc.edu>

Dept.: 0831- 2551302

Email: endojnmc@gmail.com

Ext. 1806, HOD: Ext. 1029

STRIKEOUT STROKE



Empowering healthcare
professionals to work
towards better stroke care

A value added course for healthcare
and allied professionals to better
understand their roles and
responsibilities in a stroke care unit.

Target audience

Emergency medical service
personnel (EMS),
Emergency medicine
residents and nursing staff,
Nursing staff, Interns,
Medical officers.



Department of Interventional Radiology, J N Medical
College, KAHAR

COURSE OVERVIEW

This value-added course uses a curriculum around prevention and awareness to help healthcare & allied professionals learn the basic care of stroke and to learn the roles and responsibilities of each professional in prompt & streamlined response for accurate diagnosis and management of stroke.

Mode of conduct: Online & Offline

Programme Outline

Sl.No	Topics	Duration
1.	Introduction & Definitions of Stroke, etiopathogenesis, symptomatology, TIA and acute stroke (ischemic & hemorrhagic) triage protocol	1 hour
2.	Emergency medical services (EMS), Onsite mini clinical evaluation, Prehospital notification and evaluation, CODE STROKE, Inter & intrahospital transfer, HUB & SPOKE Model / Drip & Ship model	1 hour
3.	Code Stroke Teams & task designation	1 hour
4.	Emergency initial clinical assessment of stroke, stroke mimics, lab investigations and initial management	1 hour
5.	Neuroimaging in stroke	

Sl.No	Topics	Duration
6.	Protocols: IV thrombolytics	1 hour
7.	Protocols: Endovascular thrombectomy	1 hour
8.	Protocols: Neurosurgical Decompression Hemicraniotomy	1 hour
9.	Protocols: ICH & stroke mimic protocols	1 hour
10.	Acute Stroke care pathway & ICU management	1 hour
11.	Stroke neurorehabilitation protocols & pathway	1 hour
12.	Primary & secondary prevention, palliative care	1 hour
13.	AI in stroke	1 hour
14.	Training of stroke team and personnel	1 hour
15.	Documentation and analysis, health safety, quality strategic & risk management,	1 hour
16.	Amendment to stroke management protocols	1 hour

JOIN US IN THE FIGHT AGAINST STROKE

Course Faculty

Dr Navin M Mulimani

Professor & HOD

Dr Abhinandan C Ruge

Associate Professor

Dr Iranna M Hittalamani

Assistant Professor

Dr Abhiman Baloji

Assistant Professor

Contact US



7676963001



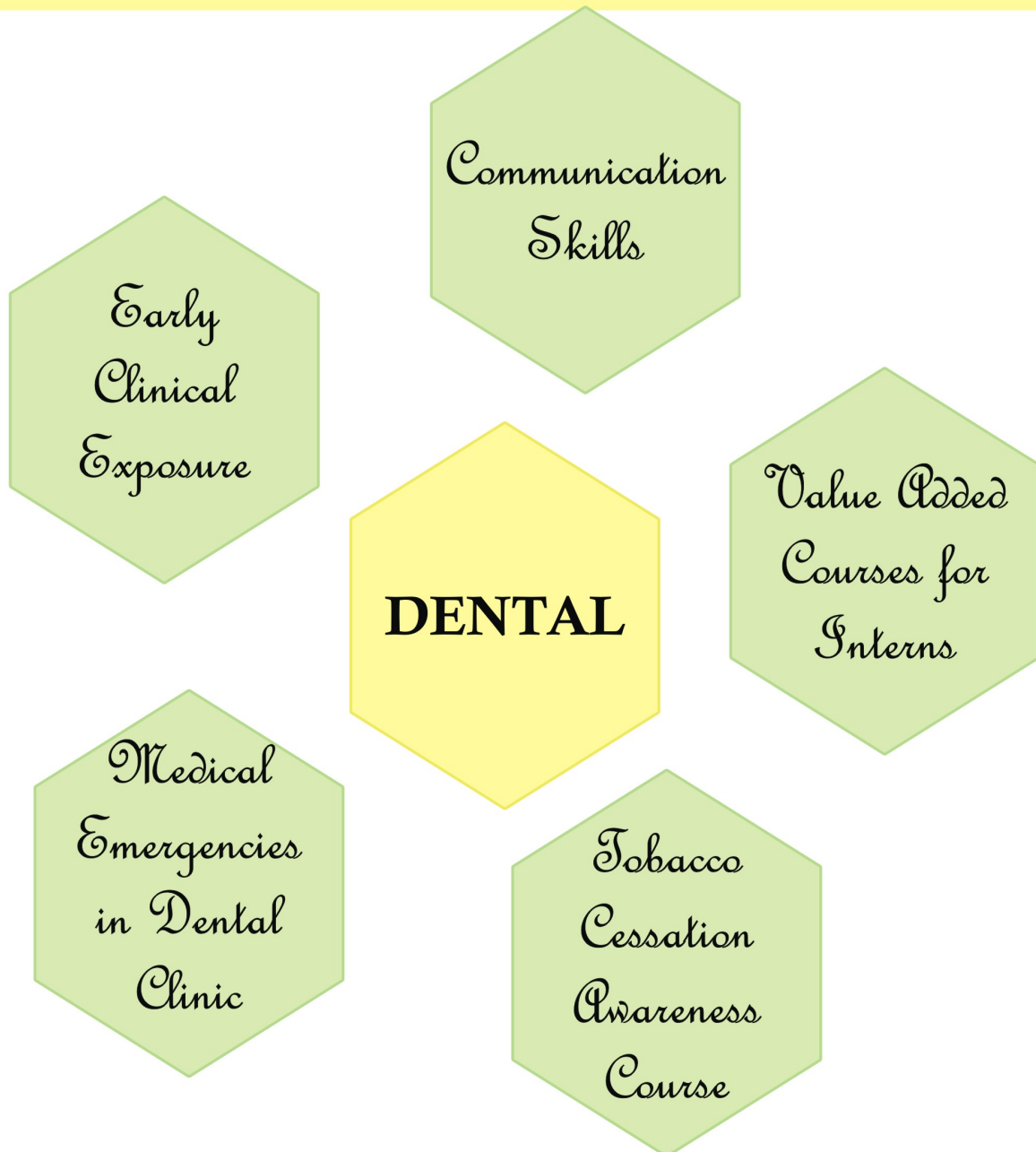
nvirjnm@gmail.com



Department of Interventional
Radiology, OPD 28A, KLEs Dr
Prabhakar Kore Hospital &
Research Centre, Belagavi

**Department of Interventional Radiology, J N Medical
College, KAHAR**

Value Added Courses of KLE VK Institute of Dental Sciences Belagavi



PREFACE

Supplementing the curriculum with value added courses for higher education institutions is to prepare students to meet the global demand as well as inculcate in them the true ethos of health science education to not only be good health care providers but also good human beings.

KLE VK Institute of Dental Sciences offers not only the dental degrees but offers a variety of short term certificate courses. These courses are conducted by professionals and experts that help students stand apart from the rest, by adding further value to their learning resources, aptitude, knowledge and resume.

These value added courses aim to provide additional learner centric, graded, skill-oriented training, with the objective of improvising clinical skills, attitude and professionalism in students.

Objectives:

- To provide students an understanding of the expectations of patients.
- To improve skills in management of students.
- To foster competencies in students to compete at global level.
- To provide an opportunity to develop inter-disciplinary skills.

This booklet is prepared by
Principal
KLE VK Institute of Dental Sciences
Nehru Nagar, Belagavi – 590010
Phone : 0831-2470362
email : principal@kledental-bgm.edu.in

Edition Year : 2019

CONTENTS

Sl. No.	Particulars	Page No.
1	Communications Skills	1-9
2	Early Clinical Exposure	8-13
3	Medical Emergencies in Dental Clinic	14-19
4	Tobacco Cessation Awareness Programme	20-23
	Value Added Courses for Interns	24
5	Extra Oral Radiographic Techniques	25
6	Preparation for Entrance Examination	27
7	Smile Designing Principles & Veneer preparation : Hands-on course	28
8	Hematological Interpretations	30
9	Trans-alveolar method of Tooth Extraction and IM/IV Demonstration	32
10	Stainless Steel Crown in Primary Molars of Children	34
11	Molar Endodontics (Root Canal Treatment on Extracted molar tooth using hand instruments)	35
12	General & Clinical Photography	37
13	Minor Surgical Periodontics	39

COMMUNICATION SKILLS

PREAMBLE

Communication is the key to education, understanding and peace.

Communication

Oral communication is the process of expressing information or ideas by word of mouth. This book will help you to find out how you can improve your own oral communication abilities while dealing with patients and relatives. Great communication skills are your ticket to success in the clinical work in urban & rural set and academic. But have you ever been overcome by fear or anxiety prior to speaking in front of patients? Knowing when to choose oral communication and polishing your speaking skills can help you at every stage of your career.

‘Communication’ comes from Latin *commūnicāre*, meaning "to share" which is the purposeful activity of information exchange between two or more participants in order to convey or receive the intended meanings through a shared system of signs and semiotic rules.

Communication takes place inside and between three main subject categories: human beings, living organisms in general and communication-enabled devices (for example sensor networks and control systems). Communication in living organisms (studied in the field of biosemiotics) often occurs through visual, auditory, or biochemical means. Human communication is unique for its extensive use of language.

Human language can be defined as a system of symbols (sometimes known as lexemes) and the grammars (rules) by which the symbols are manipulated. The word "language" also refers to common properties of languages. Language learning normally occurs most intensively during human childhood. Most of the thousands of human languages use patterns of sound or gesture for symbols which enable communication with others around them. Languages tend to share certain properties, although there are exceptions. There is no defined line between a language and a dialect. The communication is two way process instead of one way.

The "information communication revolutions":

1. Written communication first emerged through the use of pictographs. The pictograms were made in stone, hence written communication was not yet mobile.

2. The next step occurred when writing began to appear on paper, papyrus, clay, wax, etc. with common alphabets. Communication became mobile.
3. The final stage is characterized by the transfer of information through controlled waves of electromagnetic radiation (i.e., radio, microwave, infrared) and other electronic signals.

Communication is thus a process by which meaning is assigned and conveyed in an attempt to create shared understanding. This process, which requires a vast repertoire of skills in interpersonal processing, listening, observing, speaking, questioning, analyzing, gestures, and evaluating enables collaboration and cooperation.

Misunderstandings can be anticipated and solved through formulations, questions and answers, paraphrasing, examples, and stories of strategic talk. *'Good Communication is the bridge between confusion and clarity'*. Written communication can be clarified by planning follow-up talks on critical written communication as part of the everyday way of doing business. A few minutes spent talking in the present will save valuable time later by avoiding misunderstandings in advance. A frequent method for this purpose is reiterating what one heard in one's own words and asking the other person if that really was what was meant.

'Communication works for those who work at it'.

(compiled from <https://en.wikipedia.org/wiki/Communication>)

OBJECTIVES

1. To formally impart education on communication skills.
2. To enhance the capacity of students in communicating with patients, relatives, colleagues and facilitators.
3. To conduct interactive session and workshop to augment the skills acquired.
4. To develop effective communication skills required in academics, practice of Dentistry and in general.

DURATION OF COURSE : 72 Hours

Course will contain 3 phases

Phase I will be conducted during I BDS Course : Total 22 hours. (16 days)

Phase II will be conducted in II BDS : Total 18 hours. (16 days)

Phase III will be conducted in III and Final BDS : Total 32 hours – (16 days)

ELIGIBILITY

1. Phase I will be for all I BDS Students.
2. Phase II will be for all II BDS Students.
3. Phase III will be for III and Final BDS students

LIST OF MODULES AND COURSE CONTENT

**** Phase I ****

Module I : 6 Hours

Communications skills

- Introduction
- Fundamentals of Articulation
- Body Language :
 - i) Types
 - ii) Effects of Body language
 - iii) How to improve body language
- Importance of Grooming

Module II : 8 Hours

Presentation skills & Public Speaking

- Introduction
- Crucial Elements
- Requisites for Effective Presentation :
 - i) Controlling anxiety
 - ii) Audience centered
 - iii) Accomplished objective
 - iv) Create interest in audience (fun for audience and self)
 - v) Conduct within time frame
- Presentation sequence
- Creating Effective Visual Aids
- Presentation Techniques
- Practice

Module III : 8 Hours

Interpersonal skills

Ability to convey your point and listen and value others speak

- What are Interpersonal Skills
- Why do Interpersonal Skills matter
- 10 key Interpersonal Skills
 - i) Self confidence
 - ii) Work ethic
 - iii) Relationship Management
 - iv) Receptiveness to feedback
 - v) Body language
 - vi) Listening
 - vii) Collaboration
 - viii) Showing Appreciation
 - ix) Positive attitude
 - x) Work place etiquette

**** Phase II ****

Module IV : 10 Hours

Time management

- Planning : Understanding the difference between urgent and important
- Time management skill
 - i) Delegate tasks
 - ii) Prioritize work
 - iii) Schedule task
 - iv) Set up deadlines
 - v) Avoid Procrastination
 - vi) Avoid stress
 - vii) Avoid multitasking
 - viii) Start Early
 - ix) Take regular breaks
 - x) Learn to say no
- Increase in effectiveness and efficiency

Module V : 8 Hours

1. Interactive Session and group activity with Resource Person and participants.
2. Oral presentations by the students.
3. Assessment of Log Book by Resource Person.

Note :

Phase I will consist of modules I, II and III

Phase II will consist of modules IV & V

Phase III will consist of modules VI

Assessment Method

1. Interactive Sessions will be graded throughout the programme.
2. At the end of Phase I the log book of activities will be assessed and signed off by the Resource Person.
3. At the end of Phase II the log book of activities will be assessed and signed off by the Resource Person and by the Principal.

About the Resource Person

- Resource person is a well-known trainer on communication and soft skills with deep knowledge and wide experience in areas of business communication, oral presentation and public speaking

COMMUNICATION SKILLS

**** Phase III ****

Preamble

Communication skill plays an important role in health care. Effective communication helps establish rapport with patient and helps to obtain information, explain the findings of the diseases to patient, explain need for any further investigation. It also helps to discuss various treatment options to patient and the family member / relative and obtain informed consent before examination or any procedures. The effectiveness of treatment depends on post treatment and follow-up instructions. Patient care could be multidisciplinary, it necessary for student to understand and develop sound interpersonal relationship so as to provide holistic management. An effective communication will help in case presentation and scientific deliberation. Hence communication has become a core clinical skill rather than an optional curricular component. Thus including formal training in communication skills is an integral part of the undergraduate dental curriculum. Students can be trained through series of skill that can be taught, learned and retained. In the light of above knowledge an informal program to impart communication skill is planned.

Target Learners – III BDS and Final BDS students

(Module to be conducted during the clinical postings in each department)

Aim : To impart training on communication skills which includes listening, observing, speaking understanding interpersonal process, questioning, analyzing, non-verbal and written communication.

Course objectives – Every under graduate will understand and use communication (verbal and written) effectively.

Objectives – By end of the training session every student will be able to

- a. Collect relevant information for diagnosis and effective management of patient
- b. Convey relevant information (before / during and after) pertaining to effective management
- c. Communicate written information / write notes about patient care including clinical observations, lab notes, referral notes for other investigations, prescription etc.
- d. Demonstrate an appropriate non-verbal communication during entire procedure of patient care. (body language and gestures)
- e. Demonstrate effective interpersonal skill during team work with colleagues, paramedics and support staff.

Educational strategies

Module VI (Continued from the previous modules done in I & II BDS)

The III BDS students will have refresher programme at the beginning of the course. The students will be trained for effective communication for the following : -

1. Counselling – for diet, oral health care and tobacco
2. Case history taking
3. Consent and assent
4. Advising chair side lab investigations
5. Advise for radiography
6. Instructions during treatment procedures
7. Post treatment instructions
8. Conveying and handling mishaps

Protocol for Training

1. Counselling – for diet, oral health care and tobacco – will be taken by the Department of Public Health Dentistry

2. Case history taking – will be taken by the Department of Periodontics
3. Consent - will be taken by the Department of Oral Surgery
4. Assent - will be taken by the Department of Pedodontics
5. Advising chair side lab investigations - will be taken by the Department of Oral Pathology and Microbiology
6. Advise for radiography - will be taken by the Department of Oral Medicine and Radiology
7. Instructions during treatment procedures - will be taken by the Department of Orthodontics
8. Post treatment instructions - will be taken by the Department of Prosthodontics
9. Conveying and handling mishaps - will be taken by the Department of Conservative Dentistry

Students will be instructed about the various communication skills required in each dental department and about the criteria of assessment. Every student will receive feedback on their performance in the clinic.

1. History taking – relevant to each dental department
2. Informed consent – for diagnostic and treatment procedures
3. Advising investigations – referral writing
4. Interpreting investigations and advising treatment
5. Explain the procedure to the patient / relative (before and during treatment)
6. Post treatment instructions
7. Counseling for tobacco / stress related diseases, diet, oral hygiene
8. Breaking bad news (fracture of instruments, accidental trauma from burs, chemical burns etc)

Assessment - Through checklist, log books and feedbacks

Programme evaluation

1. Department-wise assessment
 - a. Immediate outcome for understanding the skill and use effectively
 - b. Mid-term outcome : fair well in assessment conducted
 - c. Long-term outcome : communication skill will be integral part of dental curriculum and all the objectives will be achieved.

Feed back of students on training – Department wise

Feedback by patients – randomly in each department

Necessary revisions in the program as per feed back

References

1. Hannah A. Milli Champ CJ, Ayers KM. A communication skills course for undergraduate dental students. J Dental Educ 2004 ; 68(9) ; 970-7
2. Oh J, Sega R, Gordon J, Boal J, Jotkowitz A Retention and use of patient centered interviewing skills after intensive training. Acade Med 2001 ; 76(6) : 647-50

EARLY CLINICAL EXPOSURE

Aim :

As there is tectonic changes in Dental knowledge, skill, technology, and practice and with changes in the clinical environment, patients expectation, need for accountability of stakeholders, there is need for understanding these basis demand. Early effective approach to the learning and the preparation of learners will be of immense benefit.

Objectives :

- To acquire knowledge about common dental diseases
- To assess knowledge pertaining to oral hygiene aids
- To know the status of dental disease in the community
- Orientation to several aspects of dental practice
- Introduction to clinical skills (history taking, oral examination)
- To learn communication skills, patients perspectives and aspects of professionalism
- To understand oral health and disease
- Orientation to community health education

I BDS

Program Details : 32 hours (7 days)

Phase I - Sensitization Lecture

Phase II – Visit to Dental Health Education Camp

Phase III - Visit to Primary Health Centre and Satellite Centers

Phase IV - Visit to Various Specialty Department of KLE VK Institute of Dental Sciences and Interaction with the Staff

Phase I

Sensitization Lecture : 2 Hours (1 day)

- Gross introduction on common oral health and disease.
- Introduction on Survey procedures and information about Primary Health Care Centre and Satellite Clinic.

Phase II

Visit to Village for Screening and Dental Health Education Camp : 8 hours (1 day)

Students will participate and conduct :

1. Health Education
2. School Oral Health Check Up
3. Door To Door Survey.

Phase III

Visit to PHC Center and Satellite Center : 8 hours (1 day)

The students will be divided into groups for the visit to :

1. Primary Health Centre at Kiniya
2. Satellite centre at KLE Centenary Charitable Hospital and MRC, Yellur, Belagavi

Phase IV : Visit to all speciality Department of KLE VK Institute of Dental Sciences and Interaction with the Staff. – **4 Hours (1 day)**

EARLY CLINICAL EXPOSURE

II BDS

Phase I – Sensitization Lecture : 2 hours (1 day)

1. Research – Cross-sectional studies/Questionnaire studies

In-vitro studies

In-vivo studies

2. Paper/Poster

Presentation - Scientific Convention

Conferences – IDA

3. Publication – Preparation of article for publication in the Journal

Phase II – Visit to Dental and other Laboratories : 5 hours (1 day)

A group of 50 students each in two batches will be taken to :

1. Prosthodontics Laboratories

2. Oral Pathology and Microbiology Laboratories

3. Dr. Prabhakar Kore Basic Science Research Centre, Belagavi (BSRC)

4. National Institute of Traditional Medicine, Belagavi (RMRC/NITM)

Phase III : 3 hours (1 day)

In divided batches students will visit to all departments of Dentistry to observe the ongoing treatment procedures and to have more insight during surgical operation (OT) procedures.

Evaluation of students participation :

1. Attendance of students for every phase to be recorded

2. Recording in log book and preparation of summary report

3. Concerned Teacher in-charge to approve every phase

4. Final approval and completion certificate with grades by the HOD.

MEDICAL EMERGENCIES IN DENTAL CLINIC

Duration : 15 hours

Aim:

To train Post-graduates students to manage complications and medical emergencies in Dental clinics .

Objectives:

By the end of the course the learner will be able to

1. Evaluate and assess the patient by identifying the emergency.
2. Perform emergency procedures and maneuvers (CPR).
3. Understand the emergency cart and drug kit.
4. Administration of appropriate treatment by establishing IV/IM lines.
5. Patient follow up.

Course content:

Sl. No	Topics
1.	BLS, Foreign body, Chocking Airway Management
2.	Anaphylaxis, Drug Trolley, IV, IM, Subcutaneous, ryle's tube insertion
3.	Trauma & Shock
4.	Suturing & Hand eye co-ordination
5.	Case Scenarios

Modules of the course (15 hours)

Proposed topics to be covered – Department wise

5 Modules –

Module 1 - 3 hours

Dept of OMFS

- Syncope
- Anaphylaxis

Dept of Oral Pathology

- Establishing IV Access
- IM Demonstration

Module 2 - 2 hours

Dept of Pedodontics

- Epilepsy
- Asthma

Module 3 - 3 Hours

Dept of Periodontics

- Bleeding in Dental clinics

Module 4 - 2 Hours

Dept of Endodontics

- Foreign Body Aspiration

Module 5 - 5 Hours

Dept of Prosthodontics

- Suturing in Dentistry

Education Strategies

Instruction methods	Assessment Methods
1. Didactical lectures 2. Interactive lectures 3. Case scenarios 4. Power Point presentations	5. Pre-course evaluative test 6. Post-course evaluative test

Program evaluation

- Feedback- students.
- Assessment scores

Mode of conduct of course: IN SKILL LAB, KAHER

- Power point presentations and lectures.
- Case scenarios.
- Perform emergency procedures and maneuvers.

Eligibility: All PG students

Course Duration: 15 hours

- Respective Departments will prepare :
Power point presentations of the given topics.
- As per discussed in meeting with Dr. Abhijeet Gogte, Principal, Vice Principal and all H.O.Ds, Medicine and Anesthesia staff from JNMC will give demonstrations on the required topics.
- The Co-ordinators will co-ordinate the dates with the skill lab, ppts, pre-test and post-test questionnaires and feedbacks.

Course Co-ordinator: Dr. Tejraj P Kale

Department Co-ordinators :

- | | |
|---------------------------|---------------------------|
| • Oral Medicine | - Dr Anjana Bagewadi |
| • Public Health Dentistry | - Dr Vinuta Hampiholi |
| • Prosthodontics | - Dr Swapnil Shankargouda |
| • Oral Pathology | - Dr Deepa Mane |
| • Pedodontics | - Dr Neeraj Gokhale |
| • Maxillofacial Surgery | - Dr Sanjay Rao |
| • Periodontics | - Dr Abhishek Zingade |
| • Orthodontics | - Dr Rohan Hattarki |
| • Conservative | - Dr Sonal Joshi |

Course Co-ordinator: Dr. Tejraj P Kale, Dept of Oral & Maxillofacial Surgery

Member Secretary : Dr. Anjana Bagewadi, Dept of Oral Medicine & Radiology

Members: All Department HODs.

Advisory Committee

- Dr. Alka Kale- Principal, KLE VKIDS
- Dr. Anjana Bagewadi- Vice Principal, KLE VKIDS
- Dr. Sonal Joshi- Dean, KLE VKIDS
- Dr. Abhijeet Gogte, Incharge Skill lab, KAHER

Resource Persons:

- Co-ordinators of all departments.
- Department of Anaesthesia.
- Department of General Medicine.

Expected Outcomes

By the end of this course the learner will be able to

- Identify and analyse a medical emergency situation.
- Perform emergency procedures and maneuvers till further help arrives and knowledge of emergency drugs.
- Utilization of Skill lab.
- Acquire skills to successfully handle an emergency situation in a dental setup.

TOBACCO CESSATION AWARENESS PROGRAMME

III, IV BDS & Interns

Preamble

The chief commercial crop of tobacco is *Nicotina tabacum*, though more than 70 species of tobacco are known, the more potent variant *N. rustica* is also used around the world. Tobacco contains the highly addictive stimulant alkaloid 'nicotine' apart from other alkaloids and chemicals. Dried tobacco leaves are mainly used for smoking in cigarettes, cigars, as well as pipes and shishas (Hookah). They are also consumed as snuff dipping, chewing tobacco and using it as dentifrices.

Tobacco use is a cause or risk factor for many diseases; especially those affecting heart, liver, lungs and oral cavity. The treatment of these diseases and cancer is huge financial burden on patient's family. In 2008, the World Health Organization named tobacco use as the world's single greatest preventable cause of death. Its use is one of the leading causes of preventable morbidity and mortality in the world.

Tobacco dependence is an addiction that is hard to quit and requires repeated intervention and multiple attempts to quit. Oral cancer is the 4th most common cancer in Indian males and 5th most common in Indian females. Dentist get opportunity to see the patients and create awareness among patients at the earliest. Inclusion of education on tobacco cessation into clinical setup provides the opportunities to the doctor to remind the tobacco users about the ill effects of tobacco and motivating them to quit. Identifying and assessing tobacco user increases clinician intervention and thus prevention. Tobacco cessation is the process of discontinuing tobacco smoking. Nicotine withdrawal often makes the process of quitting difficult.

Objectives :

a. Knowledge

At the end of course the student is expected to know :

1. Basic concepts of types of tobacco
2. Use of tobacco in different forms
3. Ill effects of tobacco and common oral lesions caused by tobacco use
4. Methods of bringing about tobacco awareness
5. The protocol to be followed for tobacco cessation

b. Skill

At the end of course the student is expected to make use of the knowledge for :

1. Identify tobacco users in the daily practice
2. Identify any tobacco associated oral diseases
3. Educate patients about the ill effects of tobacco use
4. Counsel the patients to quit tobacco habit
5. Refer the patients to tobacco counseling cells / centres
6. Refer the patient for specific treatment for tobacco associated lesions

Duration of the course : 26 Hours (6 days)

Course will contain : 3 phases

Phase I : III BDS - 8 Hours (2 days)

Phase II : IV BDS – 5 Hours (1 day)

Phase III : Interns – 13 Hours (3 days)

Course Content

Phase	Program	Duration
Phase I for III BDS	a. Lecture on Tobacco : types & uses b. Lecture on ill effects of Tobacco c. Epidemiology of cancer d. Lecture on Tobacco cessation Protocol e. Demonstration of Patient educational tools f. Patient registration for counseling and consent form g. Demonstration on patient counseling h. Observation of actual patient being advised and counseled by tobacco counselor (Demonstration and Patient counseling at the Tobacco cessation cell in the Dept. of Oral Medicine and Radiology)	30 minutes 30 minutes 1 hour 1 hour 1 hour 30 minutes 1 hour : 30 minutes 2 hours (2 Days)
Phase II for IV BDS	a. Students introduced to patients with tobacco habits. b. Registration of patient & filling of consent form c. Perform counseling cessation under staff supervision. d. Feedback is given to the students about their counseling the patients	5 hours (1 Day)
Phase III for Interns	a. One day workshop is conducted to improve the student's knowledge and understanding of Tobacco cessation strategies and boost their skills and ability in providing effective tobacco cessation interventions. b. Intern should counsel 5 patients by the end of internship	8 hours (2 days) 5 hours

Phase	Program	Duration
	c. Reinforcement of tobacco and its associated diseases : Identification, confirmation of diagnosis and treatment plan.	(1 Day) Done during the regular teaching learning process in all departments.

Resources :

1. Faculty : Trained faculty of Tobacco Cessation Cell.
All other faculty members of depts. of Oral Medicine, Oral Pathology, Oral Surgery and Public Health Dentistry.
2. Reading material and educational pamphlets
3. Patients

Methods of Instruction / Training

Lectures, demonstration, videos, case scenario.

VALUE ADDED COURSES FOR INTERNS

Preamble

We believe that Dental education goes beyond addressing the capacity-demand problem and may serve as an ideal starting point for building a new vision for the future of Dental education. In the first year of dental programme if the students are engaged in basic dental care team and involve in meaningful roles of providing care appropriate to their stage of training will motivate them to be more pro-active in subsequent years of training.

We addressed these courses as “value-added courses for interns”, where powerful pragmatic learning experiences will add value and capacity to the dental care delivery system. This can be attained by training and involving dental students in targeted patient care duties. Students are generally motivated and look forward to engage in direct patient care and hence take on the responsibilities with enthusiasm.

Leadership is required to be persuasive to achieve the vision, to build relationships with the clinical training methods. These **course** can provide basis of leadership skills that helps in decision making, effective planning, work independently and as a team for best clinical outcome. This will require to set in early clinical training, including patient communication and physical exam courses. Value-added educational courses have the potential to develop interest, capacity building and actively engage in patient care chores that contribute to the Dental health of their patient populations.

DEPARTMENT OF ORAL MEDICINE AND RADIOLOGY

Topic : Extra Oral Radiographic Techniques

Duration- 20 hours

Aim :

To develop proficiency in identifying and interpretation of various extra oral radiographic views, (normal anatomical landmarks with variations and clinical applications of each radiographic projection).

Course Objectives :

By the end of this course all interns should be able

1. Identify the radiographic view.
2. Identify the normal anatomical landmarks and pathology.
3. Prescribe right radiograph.
4. Provide radiographic differential diagnosis

Course content

Extra oral radiographic views

1. Paranasal sinus
 - PA Projection
 - Standard Occipitomenal view
 - Modified Occipitomenal view
 - Water's View (PNS)
2. Base of the skull
 - Submentovertex
3. Mandible
 - PA mandible
 - Rotated PA mandible
 - Lateral oblique
 - Body
 - Ramus

4. Temporomandibular joint

Transcranial

Transpharyngeal

Transorbital

5. Reverse Towne

6. Skull

Lateral cephalogram

7. Orthopantomograph

Teaching methods :

The topics will be covered through videos, demonstrations, handouts, power-point presentations of normal anatomical landmarks and pathologies.

Assessment :

1. After session - Assessment sheet / checklist

References:

1. Oral Radiology- Principles and Interpretation Stuart C White and Michael J Pharoah 5th and 6th edition
2. Essentials of Dental Radiography and radiology, 4th edition, Author- Eric Whaites

DEPARTMENT OF PUBLIC HEALTH DENTISTRY

Topic : Preparation for Entrance Examination

Duration – 18 hours during clinical rotations

Aim : To sensitize students to the NEET preparation of Public Health Dentistry.

Objective :

By the end of the course at least 90% of the interns will be able to

1. Understand the importance Public Health Dentistry questions in NEET.
2. Improve their competency level in attempting questions of Public Health Dentistry
3. Recall the correct answers of the MCQ's.

Course Content :

1. Indices
2. Preventive dentistry
3. General epidemiology
4. Survey and planning
5. Epidemiology of dental diseases
6. Biostatistics
7. Fluorides
8. Environment and health
9. Health education

Approach:

Lectures and Demonstrations

Assessment and Monitoring :

MCQ Test

Reference Books:

1. Dental Pulse
2. Gouri Shankar
3. Manish Prabakar
4. Vivek Jain
5. Satish Chandra

DEPARTMENT OF PROSTHODONTICS CROWN & BRIDGE

Topic : Smile Designing Principles & Veneer preparation : Hands-on course

Duration : 16 hours

Aim : To provide knowledge to students for Practical orientation of case selection in Veneer preparation for management and esthetic treatment of patients to improve esthetic smile.

Objectives :

By the end of the course the Interns should be able to demonstrate competence in the following skills

1. Learn diagnosis and evaluation of patient for Veneers
2. Understand and use of Diagnostic tools
3. Acquire knowledge in model preparation by incorporating smile design principles
4. Learn the detail techniques of Veneer preparation on study models

Approach :

- Module - 1 Introduction to case selection, use of Diagnostic tools, Crown and Bridge teeth preparation (4 hours)
- Module - 2 Soft Tissue management, Impression making, Temporization. (4 hours)
- Module - 3 Wax pattern fabrication, Temporization cementation procedures (4 hours)
- Lectures and demonstrations (4 hours)

Course Content :

1. Case selection
2. Use of Diagnostic tools
3. Veneer preparation on Study models
4. Wax up
5. Soft Tissue management
6. Impression making
7. Temporization
8. Cementation procedures.

Assessment :

By conducting Objective Structured Clinical Examination (OSCE)

Reference Books :

1. Esthetic in dentistry by R. E. Goldstein, 3rd Edition Vol 1 & 2 willey Publisher
2. Science and art of Porcelain laminate Veneers by Gulop Gurel Quintessence publishing 1st Edition.
3. Change your smile by Ronald E. Goldstein, 4th Edition Quintessence publishers

**DEPARTMENT OF ORAL & MAXILLOFACIAL PATHOLOGY & ORAL
MICROBIOLOGY**

Topic : Hematological Interpretations

Course duration: 15 hrs (One hour every day for 15 days)

Aim: To make interns training programme in clinical pathology effective so as to develop independent capabilities in a student to learn and apply the knowledge of hematology through interpretation of test results in identifying blood related problems and their diagnosis.

Objectives:

1. To train a student so as to ensure higher competency in clinical pathology dealing with blood (blood related diseases, their causes, processes and effects).
2. He/she is expected to perform collection of blood from different sites depending on age of patient and procedures to be done.
3. He/she is expected to perform routine haematological evaluation such as complete blood count (haemoglobin estimation, bleeding time, clotting time, Random blood sugar, total RBC count, total WBC count and Differential WBC count) of collected blood samples.
4. He/she is expected to have an understanding of collection and interpretation of data. He/she is expected to have an understanding of normal ranges and altered values, diseases in which they are altered and processes involved.
5. He/she is expected to deal with correct professional handling, examination, interpretation.

Skills:

1. To develop confidence in graduate students to handle and to manage laboratory and research responsibilities in future.

Course Content:

- I. Introduction and scope of hematology
- II. Physiology of Blood
 - a. Blood cells
 - i. RBC
 - ii. WBC
 - iii. Platelets
 - b. Plasma
- III. Hematology Tests: complete blood count tests
- IV. Interpretation of complete blood count tests
 - a. Normal values
 - b. Altered values
 - i. Conditions in which values are increased
 - ii. Conditions in which values are decreased
- V. Blood disorders and disease processes

Approach: Topics to be covered as didactic lectures, demonstrations and seminars.

Assessment and monitoring:

- 1. Log books.
- 2. Objective structures clinical examination (on patients) with checklist.
- 3. Objective structures practical examination (using previously stained slides of blood smears and questions framed relating to the interpretation).

Reference Books:

- 1. Textbook of Haematology by Tejindar Singh
- 2. Bethesda Handbook of Clinical Hematology 3rd Edition
- 3. Hematology for Students and Practitioners by Ramnik Sood
- 4. Practicals and Quick Review by Ganga S. Pilli
- 5. For Applied aspects : Textbook of Oral Pathology by Shafer
- 6. Text book of human physiology by Chatterjee

DEPARTMENT OF ORAL AND MAXILLOFACIAL SURGERY

Topic : Trans-alveolar method of Tooth Extraction and IM/IV

Demonstration

I. Trans-alveolar method of tooth extraction

Duration : 15 hours

Objectives:

By the end of the course all the interns will be able to

1. Understand the indications for transalveolar extraction.
2. Identify instruments required for trans-alveolar extraction.
3. Understand the principles of incision and flap design, methods of bone cutting, tooth removal, suturing.
4. Perform transalveolar extraction (open extraction) on patients.

Course Content for transalveolar extraction : -

1. Introduction of trans-alveolar extraction – 1 hour
2. Indications of trans-alveolar extraction – 1 hour
3. Principles of incision and flap design – 1 hour
4. Methods of bone removal, tooth division, socket toilet – 2 hours
5. Video demonstration of bone removal, tooth division, socket toilet – 1 hour
6. Suturing and aftercare – 1 hour

Approach :

1. Lectures
2. Video demonstration
3. Live demonstration of transalveolar extraction

Assessment and monitoring

1. Assessment while performing on patients using checklist

II. IM/ IV injection Techniques - 8 hours

Aim : To train the students perform IM/ IV injection

Objective:- At end of the course, students should be able to explain how to give IM/ IV injection and individually perform IM/IV injections

Duration: – 8 hours

1. Power Point Presentation on anatomical landmarks for IV – 1 hour
2. Power Point Presentation on anatomical landmarks for IM – 1 hour
3. Video demonstration of IV / IM - 2 hour
4. Demonstration on the patient for IM - 1 hour
5. Demonstration on the patient for IV - 1 hour
6. Students to perform on patient - 2 hours

Course contents:-

1. Introduction and Brief anatomy at the area of injection.
2. Technique of IM/IV injection - theoretic knowledge and demonstration

Approach :

1. Power point presentation of IM/IV techniques
2. Video demonstration
3. Live demonstration of IM/IV techniques

Assessment of students – To assess how much each student has understood about the course by observation and checklist.

Reference Books :

1. Clinical Surgery – Michael H.
2. Fundamental of Nursing Potter and Perry and Jeoffrey Thomson

DEPARTMENT OF PEDODONTICS AND PREVENTIVE DENTISTRY

Topic : Stainless Steel Crown in Primary Molars of Children

Duration : 16 hours

Aims :

The interns should acquire adequate knowledge and necessary skills towards placement of a Stainless Steel Crown also understand the basic concepts in occlusion.

Objectives :

The interns should acquire the following during the period of training:

1. Knowledge about Anatomy of primary and permanent teeth
2. Attributes, Indications and contraindications for stainless steel crowns.
3. Demonstrate Crown Preparation methods for Stainless steel crowns.

Skills :

1. Able to differentiate indications and contraindications for placement of Stainless Steel Crown.
2. Acquire skills to prepare a tooth for receiving a Stainless Steel Crown.
3. Select an appropriate size crown.
4. Skills to maintain occlusal relation and to identify any occlusal disharmony and take measures to correct it if any need arises.

Course Content :

Week 1:

1. Introduction to anatomy of primary and permanent teeth in brief and different crowns in Pediatric Dentistry
2. Introduction to stainless steel crowns.
3. Indications and contraindications for stainless steel crowns.
4. Crown Preparation for Stainless steel crowns.

Week 2:

1. Methods of Placement of Stainless steel crowns.
2. Demonstration of Placement of Stainless steel crown on typhodont/ extracted teeth by the faculty.
3. Placement of Stainless steel crown on typhodont/ extracted teeth by the Interns.

Week 3:

1. Live Demonstration on placement of Stainless steel crown on patient by faculty.
2. Placement of Stainless steel crown on extracted tooth by interns.

Approach :

1. Lectures and demonstrations
2. Hands-on training with dummy models.

Assessment :

Review of Performance by the Interns

References Books :

1. Mathewson R. J. Fundamentals of Pediatric Dentistry, 3rd Edition.
Boston : Quintessenec Books, 1995
2. Kennedy DB, Roberts JF, Curzon ME, J Kennedy's Pediatric Dentistry,
4th edition, Oxford Wright, 1997
3. Tandon S. Textbook of Pedodontics. 2nd Eition. Hydrabad : Paras
Publications 2009

DEPARTMENT OF CONSERVATIVE DENTISTRY & ENDODONTICS

Topic : Molar Endodontics (Root Canal Treatment on Extracted molar tooth using hand instruments)

Duration of Course : 15 Hours Maximum

Aim : To provide basic knowledge about molar root canal therapy to aid in clinical practice

Objectives :

By the end of this course all the interns should be able

1. To know the root canal anatomy of molar teeth.
2. To identify and use endodontic hand instruments and material required for the procedure.
3. Perform all the steps involved in Molar Endodontics
4. Perform RCT on extracted molar using endodontic hand instruments.

Course Content :

1. Basic knowledge on anatomy of molar and root canal system – 1 hour
2. Lecture and demonstration on Access Opening - 2 hours
3. Methods of measurement of Working Length - 2 hours
4. Demonstration of Cleaning and Shaping - 2 hours
5. Discussion on Irrigation Protocol - 2 hours
6. Interaction on Master Cone - 2 hours
7. Methods of Obturation - 2 hours
8. Techniques of Core Buildup - 2 hours

Approach : Discussion and Demonstrations

Assessment and Monitoring :

1. Observation using check list
2. The Faculty on intern duty will be monitoring the work done by interns.

Reference Books :

1. Grossman's Endodontics Practice – 12th Edition B. Suresh Chandra V. Gopi C. Krishna
2. Ingle's Endodontics 6th Edition Ingle, Bakland, Baumgartner.

**DEPARTMENT OF ORTHODONTICS AND DENTOFACIAL
ORTHOPAEDICS**

Topic : General & Clinical Photography

Duration : 15 hours

Aim : –

1. To train to students in clinical dental Photography

Objectives :-

By the end of the course at least 80% of the Interns will be able to

1. Recall Theoretical , practical, esthetic aspects of photography
2. Recall concepts in Medical and Dental photography
3. Demonstrate proficiency in Dental photography

Course Content :-

1. Applications of Photography for

- i. Documentation and record
- ii. Progress of the case
- iii. Education, Teaching, Presentation
- iv. Publication, Communication, Teledentistry
- v. Marketing

Approach :

Lectures and demonstrations

1. Specific lenses
2. Standardized views
 - a. Extra-oral
 - b. Intra-oral
 - c. Single tooth
 - d. Pathology

Assessment

3 rounds of Practical assessment

1. Extra oral front photograph
2. Extra oral lateral photograph
3. Extra oral 3/4th photograph
4. Intraoral front photograph
5. Intraoral right lateral photograph
6. Intraoral left lateral photograph
7. Intraoral upper occlusal photograph
8. Intraoral lower occlusal photograph

Reference Books :

1. Clinical photography in Dentistry – A new perspective – Peter Sheridan

DEPARTMENT OF PERIODONTICS

Topic : Minor Surgical Periodontics

Duration : 41 hours

Objectives :-

At the end of the training the Intern should be able to:

Recall, understand and perform procedure of Gingivectomy, Gingivoplasty, Frenectomy & Frenotomy

Course Content :

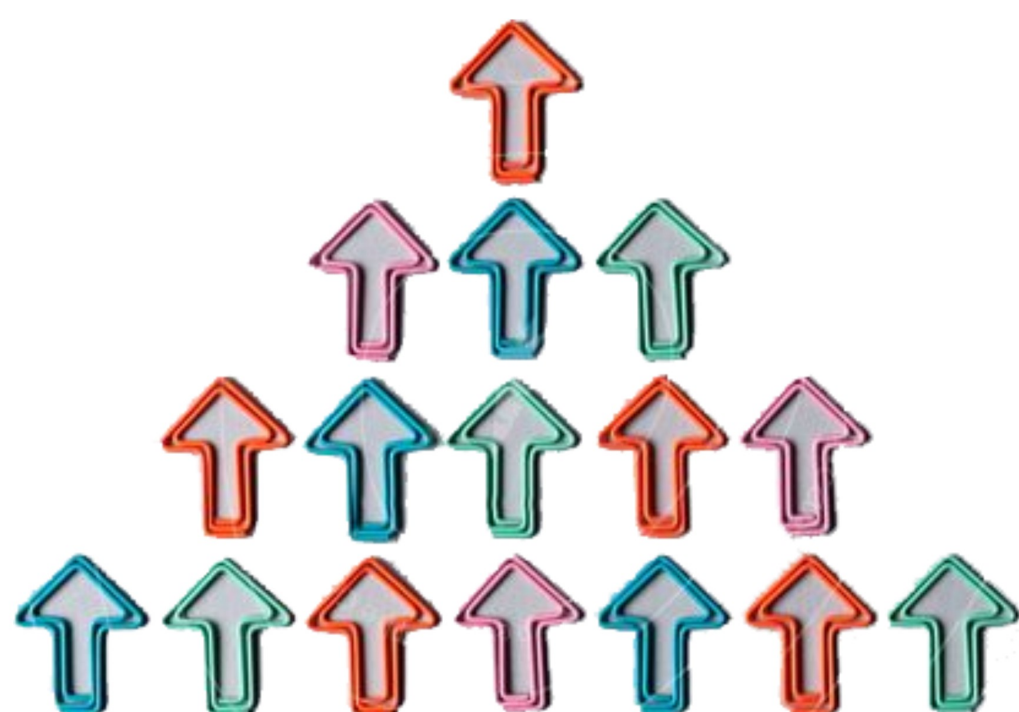
1. Nonsurgical
2. Root Planning
3. Treatment
4. Local Drug Delivery
5. Subgingival irrigation
6. Treatment of dentinal
7. Hypersensitivity
8. Use of Electrocautery Frenotomy
9. Frenectomy
10. Gingival depigmentation
11. Hemostasis
12. Use of Laser Frenotomy
13. Frenectomy
14. Gingival depigmentation

Approach : Lectures and demonstrations

Assessment : Observed assessment

Reference Books :

1. Carranza's Clinical Periodontology – 13th edition
2. Clinical Periodontology and Implant Dentistry volume 1 and volume 2 – 6th edition
3. Decision making in Periodontology 3rd edition
4. Periodontal Medicine - 2000



INSTITUTE COURSE BROCHURE

• **UG PROGRAM**

- BAMS

• **POST GRADUATION PROGRAMS**

- Dravyaguna
- Rasashastra & Bhaishajya Kalpana
- Agada Tantra
- Swasthavritta
- Kayachikitsa
- Prasooti and Striroga
- Rasajana and Vajikarana
- Kaumarabritya
- Panchakarma
- Shalyatantra
- Shalakyatantra
- Roga Nidana

• **INTERDISCIPLINARY COURSES**

- Yoga and Wellness course
- Online Meditation course

• **FELLOWSHIP COURSES**

- Ayurveda Oncology
- Ayurcardiology
- Sthoulya

• **VALUE ADDED COURSES**

- SADHANA
- SAMSKARA
- Good Clinical Practise
- Good Lab Practise
- Intellectual Property Rights
- Medical Education Technology
- Personality Development
- Financial Management

• **DIPLOMA COURSES**

- Diploma in Ayurveda Pharmacy

• **NCISM ELECTIVES**

- Fundamentals of Ayurveda
- Basics of Preventive Cardiology
- Introduction to Phytochemistry
- Basic techniques of Pharmacognosy
- Basic techniques of medicinal plantation
- Basics of Physiotherapy
- Introduction to Vrikshayurveda
- Basics of Biomedical Engineering / Medical instrumentation / Technological development in ISM
- Basics of Sports medicine
- Architecture in ISM
- Introduction to Pharmacology
- Introduction to Epidemiology

PRIVILEGED TO HOST ABOVE 14

NCISM ELECTIVES

- Introduction to Sowa - Rigpa system of medicine
- Introduction to Shilpa shastra
- Basic of Manuscriptology
- Introduction to science in Sanskrit
- Introduction to Siddha system of medicine
- Introduction to Unani system of medicine
- Basics of Pedagogy
- Introduction to Samkhya karika
- Introduction to medical astrology
- Fundamentals of child psychology
- Basic techniques of medicinal plantation
- Introduction to Shilpa shastra

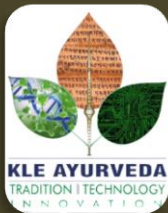
KAHER's
SHRI B. M. KANKANAWADI
AYURVED MAHAVIDYALAYA
SHAHAPUR BELAGAVI

**Post Graduate Studies &
Research Centre**

A Constituent Unit of

**KLE ACADEMY OF HIGHER
EDUCATION & RESEARCH**

**_(Re-Accredited "A+" Grade by NAAC
(3rd Cycle))**



**First AYUSH Institution
Having NAAC & NABH
Accreditation**

Brochure of Value Added Courses - 2023

Value Added Course - 2023

1. Samsiddha Level III
2. Personality Development
3. Samsiddha Level IV
4. Medical Ethics-UG & PG
5. Sadhana(Interns)
6. Finance Management
7. Samskara
8. GCP
9. GLP
10. IPR
11. Medical Education
Technology
12. Medical Marketing &
Medical Tourism

Samsiddha Level III

• **Aim**

The course is aimed at triggering interest and preparing mindset in proactive learning among third year BAMS students.

• **Objectives**

1. To make the students to be acquainted with third year subjects and learning methods.
2. To impart good teaming skills and adopting techniques about third year BAMS subjects.
3. To prepare student's mindset to learn the subjects with practical approach.

Personality Development

• **Aim**

1. To create awareness amongst the UG and PG Scholars regarding the principles Success
2. To Train UG and PG Scholars on developing a stronger inner personality

Samsiddha Level IV

• Aim:

1. Acquaint Comprehensive Understanding of Clinical Curricular design and develop propensity to understand the importance knowledge based skillful learning.
2. Develop Professional Attitude, High-Quality Communication, Professional & etiquettes in order to acquaint with the IV professional clinical curriculum.
3. Develop scientific aptitude and expertise relating to hospital management acquaintance

• Objectives:

1. Knowledge based skillful learning is addressed through orientation of the students by Professional & hospital etiquettes.
2. Enhancement of the Professional attitudes and communication skills by orienting the
3. students through code of conduct professional responsibilities.3.Quality in health care is addressed through Approach towards doctor-centered, patient centered, disease-onented and problem-orientation. Students are onented to hospital administration and documentation of policies.

Medical Ethics-UG & PG

• Aim:

1. Enable the medical professionals to practice sound medical ethics and overcome the conflicts with more competencies.
- ### • Objectives:
1. To understand the importance of ethics and professionalism in the practice of medicine To understand the relationship between medical ethics and medical professionalism
 2. To understand ethical and legal aspects relating to informed consent, decision making and advance directives etc.

Sadhana (Interns)

• Aims:

1. To enable the participants to understand concept of clinical skills and effective administration in Healthcare organizations.

• Objectives:

1. To enhance clinical skills
2. To orient the responsibilities and duties in OPD and IPD.
3. To develop diagnostic and management skills of all specialties
4. To incorporate the NABH standard in Healthcare organizations

Finance Management

• Aim:

1. Develop Proficiency in students to - Over-viewing and planning of current Financial status with funds management

• Objectives:

1. To understand the concept of finance system in Indian society and various ways to increases income sources
2. Safe and Risky funds management system
3. Planning of Saving and expenditure in term of future saving

Samskara

• Aims and Objectives:

1. To make the PG scholars familiar and acclimatize with the college campus.
2. To prepare PG scholar well to identify the research area and expertise in quality synopsis
3. To the make them they aware of rule and regulations of Instution, Society and University.
4. To make them familiar with basics of PG general academic activities.

Good Clinical Practice **(GCP)**

- **Aim & Objectives:**

1. GCP training aims to ensure that: The rights, safety, and well-being of human subjects are protected Clinical trials are conducted in accordance with approved plans with rigor and integrity
2. The responsibilities of investigators, sponsors, monitors in the conduct of clinical trials are well understood. Data derived from clinical trials are reliable.

Good Laboratory Practice **(GLP)**

- **Aim:**

1. Proficient to Understand and follow the SOP for Drug testing.
2. Identification of instruments and equipment. Quality control standards for Ayurveda formulations/ drugs

- **Objectives:**

1. Able to identify laboratory reagents and instruments and equipment's used for analytical testing of Ayurvedic drugs.
2. Able to incorporate advance analytical procedure and standardization techniques of different procedures.
3. Able to establish a Good laboratory for Ayurvedic pharmaceuticals.

Intellectual Property Rights **IPR**

- **Aim and Objectives**

1. To Impart basic knowledge regarding Intellectual property Rights and its outlines.
2. To stimulate inventive and creative ideas of their minds and intellect.
3. To connect the bridge between Ayurveda and Intellectual property Rights
4. To support in filing of Patent and their guidelines of National and International level.

Medical Education Technology

- **Aims**

1. To create awareness amongst the PG Scholars regarding the principles of Medical education technology.

- **Objective.:**

1. To Train PGs into different Methods of teaching used for Medical Education
2. To make future teachers as confident teachers making the process of learning and teaching an enjoyable productive process

Medical Marketing & Medical Tourism

- **Aim:**

1. Able to make efficient and expert in planning & executing the conception, pricing, promotion, distribution of ideas, goods & services to create exchanges that satisfy individual & Organizational goals.
2. Able to promote medical tourism.

- **Objectives:**

1. Establishing target customers and preparing Marketing budgets and Marketing system.
2. Developing a product plan in line with corporate strategy maximizing revenue, profit and customer satisfaction by delivering products on time.
3. Creating promotional remedial plans as well as tourist plans for individuals coming from different parts of the world.

Enrollment Form Format

Name:

Branch of Health Sciences:

Name of the College and Address:

I would like to enroll / be informed about course

By Post / E-mail / SMS

Mobile No:

E-Mail ID:

Postal Address

Signature of the participant:

Forwarded by Head of the Institution

Signature and seal



KLE ACADEMY OF HIGHER EDUCATION AND RESEARCH

Belagavi



Reaccredited 'A+' Grade
by NAAC

Placed in category 'A' by MHRD, Govt. of India

Value Added Course on
on

Karyakaushalam - Skill Elevation

2022

Organized by



KLE College of Pharmacy,
Belagavi

Ph.0831-2471399, Fax: 0831-2472387
E-mail: principal@klepharm.edu

KLE Society (Karnataka Lingayat Education Society) was started in 1916 by a group of young dedicated teachers and patrons. This Society aims to empower people through education and is well recognized for its quality education and health care services. Today, KLE Society manages around 250+ institutions with more than 1 lakh student strength, and 16000+ employees offering world-class education in Healthcare, Pharmacy and paramedical sciences, Engineering, Management, Law and Agriculture. The educational services include School, Pre-University, Graduate and Post Graduate education

KLE Academy of Higher Education and Research is sponsored by KLE Society was established in Belagavi in 2006 to highlight the Society's commitment to healthcare and Science education. KAHER is recognized by University Grants Commission (UGC), reaccredited "A" grade by NAAC and placed in category "A" by MHRD, Govt. of India. KAHER provides internationally accepted education and healthcare practices, with impetus on research. University takes immense pride in its top class faculty, curriculum and well equipped infrastructure. The institutions of Medicine, Dentistry, Physiotherapy, Nursing, Pharmacy and Ayurveda are under the ambit of this university.

KLE College of Pharmacy, Belagavi: is a well-reputed and ranked institution offering all professional courses of pharmacy education. All the courses run by the institution are recognized by Pharmacy Council of India, All India Council for Technical Education and University Grants Commission. The college introduced D.Pharm in 1968, B.Pharm degree course in 1975, Post Graduation in 1988, Doctoral Degree from 2000 and Pharm.D. from 2014. It has been accredited by NBA, New Delhi and has received many prestigious research grants from funding agencies such as AICTE, DST, ICMR, and VGST Govt. of Karnataka etc.

About the course:

◦ **Vision:**

New age foundational self-development skills that industry demands for freshmen to face the competitive era.

◦ **Mission:**

- To mold students to handle challenges of present contemporary society
- To develop job ready talents with diverse skills
- Motivate students to achieve their goals with corporate grooming

◦ **Eligibility:**

Undergraduates and Postgraduates students

Total duration: 30 hours

Learning from the course: Students enrolled in this course will learn principles of interview techniques, basic management and leadership communication skills.

Resource persons:

- Faculty of reputed management and academic institutes

Topics:

- ✓ Developing soft skills and personality
- ✓ Verbal and nonverbal communication
- ✓ Critical thinking and Decision making
- ✓ Guiding for optimistic career (Competitive exams)
- ✓ Self-learning resources
- ✓ Time management
- ✓ Team Building and Coordination
- ✓ Interview techniques and resume building
- ✓ Group discussion etiquettes
- ✓ Be industry ready (Pharmaceutical Industrial Prospects)
- ✓ Mock aptitude test and interviews

Total time proposed: 30 Hrs

Schedule: 24th Dec 2021 to 10th June 2022

Classes: 3hrs per module

Please contact the Program Co-Ordinator for further details:

CHIEF PATRON

Dr. Prabhakar B. Kore,

Hon. Chancellor

KLE Academy of Higher Education and Research
(Deemed to be University)

PATRON

Prof. (Dr.) Vivek A Saoji

Hon. Vice-Chancellor

KLE Academy of Higher Education and Research
(Deemed to be University)

CHIEF CO-ORDINATOR

Dr. Sunil S. Jalalpure

Principal,

KLE College of Pharmacy, Belagavi

PROGRAM CO-ORDINATOR

Dr. Bhuvaneshwari R Sharannavar

Associate Professor

KLE College of Pharmacy
Belagavi

Mrs. Nisha Shirkoli

Asst. professor

KLE College of Pharmacy
Belagavi

--	--	--

Enrollment Form Format

Name:

Branch of Health Sciences:

Name of the College and Address:

I would like to enroll / be informed about course

By Post / E-mail / SMS

Mobile No:

E-Mail ID:

Postal Address

Signature of the participant:

Forwarded by Head of the Institution

Signature and seal



KLE ACADEMY OF HIGHER EDUCATION AND RESEARCH

Belagavi



Reaccredited 'A+' Grade
by NAAC

Placed in category 'A' by MHRD, Govt. of India

Value Added Course on on

Basic Entrepreneurship Skills 2023

Organized by



KLE College of Pharmacy,
Belagavi

Ph.0831-2471399, Fax: 0831-2472387

E-mail: principal@klepharm.edu.

KLE Society (Karnataka Lingayat Education Society) was started in 1916 by a group of young dedicated teachers and patrons. This Society aims to empower people through education and is well recognized for its quality education and health care services. Today, KLE Society manages around 293+ institutions with 1.38+ lakh student strength, and 18000+ employees offering world-class education in Healthcare, Pharmacy and paramedical sciences, Engineering, Management, Law and Agriculture. The educational services include School, Pre-University, Graduate and Post Graduate education

KLE Academy of Higher Education and Research is sponsored by KLE Society was established in Belagavi in 2006 to highlight the Society's commitment to healthcare and Science education. KAHER is recognized by University Grants Commission (UGC), reaccredited "A+" grade by NAAC and placed in category "A" by MHRD, Govt. of India. KAHER provides internationally accepted education and healthcare practices, with impetus on research. University takes immense pride in its top class faculty, curriculum and well equipped infrastructure. The institutions of Medicine, Dentistry, Physiotherapy, Nursing, Pharmacy and Ayurveda are under the ambit of this university.

KLE College of Pharmacy, Belagavi: is a well-reputed and ranked institution offering all professional courses of pharmacy education. All the courses run by the institution are recognized by Pharmacy Council of India, All India Council for Technical Education and University Grants Commission. The college introduced D.Pharm in 1968, B.Pharm degree course in 1975, Post Graduation in 1988, Doctoral Degree from 2000 and Pharm.D. from 2014. B.Pharm program has been accredited by NBA(4th Cycle) for a period of 6 years(Up to June 2025) It has been accredited by NBA, New Delhi and has received many prestigious research grants from funding agencies such as AICTE, DST, ICMR, VGST Govt. of Karnataka etc.

About the course:

Entrepreneurship can be defined as the activity of setting up a business, taking on financial risks in the hope of profit. Entrepreneurs need to explore various business opportunities from unmet needs of society, think of innovative products and solutions. Entrepreneurs need to have knowledge and skills relevant to leadership, innovations, market research, start-up establishment, intellectual property and idea management, business plan development and control, team-building, networking management and market strategies.

“Basic Entrepreneurship Skills” value added certificate course teach students principles of entrepreneurship, basic management and leadership communication skills. Course aims to improve personal characteristics, interpersonal skills, critical and creative thinking skills and practical business skills which may help students for better performance role as business, financial, management analyst and as franchise owners. This course will help you understand basic of entrepreneurship, how to turn ideas into profit, develop a business plan. Course also aims to impart you the necessary skills and confidence to make your dream a reality.

Learning from the course: Students enrolled in this course will learn principles of entrepreneurship, basic management and leadership communication skills

Resource persons:

- **Faculty of reputed management and academic institutes**
- **Successful entrepreneurs and business people**

Topics :

- ✓ **Basic entrepreneurship skills**
- ✓ **How to start an enterprise?**
- ✓ **Financial opportunities for Entrepreneurs**
- ✓ **Institutional support for entrepreneurs.**
- ✓ **Leadership skills**
- ✓ **Key to Successful Entrepreneurship**
- ✓ **Marketing strategies**
- ✓ **Case studies of successful entrepreneurs**

Eligibility:

Students of health science institutes who have genuine interest in Entrepreneurship or Self business, and ideal for those who are interested to start their own business.

Course is designed with 4 modules 5hrs each, Total time proposed: 20 Hrs

Final grading and evaluation

On the basis of formative, summative and continuous mode assessment which includes submission assignment, report and presentation.

Schedule: February-May 2023

Classes: 2 Hrs per week

Please contact the Program Coordinators for further details:

Chief Patron

Dr. Prabhakar B. Kore, M.P

Hon. Chancellor, KLE University, Belagavi

Patron

Dr. Nitin Gangane

Hon. Vice-Chancellor

KLE Academy of Higher Education and Research
(Deemed to be University)

Chief Coordinator

Prof. (Dr.) Sunil S Jalalpure

Principal,

KLE College of Pharmacy, Belagavi

Program Coordinators

Prof. (Dr.) Dr M S Palled,

Department of Pharmaceutical chemistry

KLE College of Pharmacy, Belagavi

E-mail: mspalled@klepharm.edu

Mobile: 9448634244

Dr. D.Nithyananda Sastry.

Department of Pharmacognosy

KLE College of Pharmacy, Belagavi

E-mail: dnsastry@yahoo.com

Mobile: 9342250794

Enrollment Form Format

Name:

Branch of Health Sciences:

Name of the College and Address:

I would like to enroll / be informed about
courseby Post / E-mail / SMS

Mobile No:

E-Mail ID:

Postal Address:

Signature of the participant:

Forwarded by Head of the Institution
Signature and seal

Eligibility:

Students of health, life science institutes who have genuine interest in Regulatory Affairs and Regulatory Sciences.

Course is designed with 4 modules,

Total time proposed: 30 Hrs.

Final grading and evaluation

On the basis of formative, summative and continuous mode assessment which includes submission assignment, report and presentation.

Schedule: February-May 2024

Classes: 2-3 Hrs. per week as per the need.

Please contact the Program Coordinators for further details.



**KLE ACADEMY OF HIGHER EDUCATION
AND RESEARCH, Belagavi**



Reaccredited 'A+' Grade by NAAC
Placed in category 'A' by MHRD,
Govt. of India

**Value Added Course on
on
Drug Regulatory Affairs**

Organized by



**Department of Pharmaceutical Quality
Assurance**

**KLE College of Pharmacy,
Belagavi**

Ph.0831-2471399, Fax: 0831-2472387

E-mail: principal@klepharm.edu

KLE Society (Karnataka Lingayat Education Society) was started in 1916 by a group of young dedicated teachers and patrons. This Society aims to empower people through education and is well recognized for its quality education and health care services. Today, KLE Society manages around 306 institutions with 1.38+ lakh student strength, and 18000+ employees offering world-class education in Healthcare, Pharmacy and paramedical sciences, Engineering, Management, Law and Agriculture. The educational services include School, Pre-University, Graduate and Post Graduate education.

KLE Academy of Higher Education & Research is sponsored by KLE Society was established in Belagavi in 2006 to highlight the Society's commitment to healthcare and Science education. KAHER is recognized by University Grants Commission (UGC), reaccredited "A+ " grade by NAAC and placed in category "A" by MoE, Govt. of India. KAHER provides internationally accepted education and healthcare practices, with impetus on research. University takes immense pride in its top-class faculty, curriculum and well-equipped infrastructure. The institutions of Medicine, Dentistry, Physiotherapy, Nursing, Pharmacy and Ayurveda are under the ambit of this university.

KLE College of Pharmacy, Belagavi: is a well-reputed and ranked institution offering all professional courses of pharmacy education. All the courses run by the institution are recognized by Pharmacy Council of India, All India Council for Technical Education and University Grants Commission. The college introduced D. Pharm in 1968, B. Pharm degree course in 1975, Post-Graduation in 1988, Doctoral Degree from 2000 and Pharm.D. from 2014. B. Pharm program has been accredited by NBA (4th Cycle) for a period of 6 years (Up to June 2025) It has been accredited by NBA, New Delhi and has received many prestigious research grants from funding agencies such as AICTE, DST, ICMR, VGST Govt. of Karnataka etc.

About the course:

Pharmaceutical Regulatory Affairs is an emerging specialized discipline that is vital in successfully delivering a safe and effective product to the market. It is the key player in drug development and their approval by taking into account the global laws and regulations. It also plays an important role in bringing about new policy implementation and research. Helps in developing writing skills to fill dossier for various products across the globe with due consideration of the respective legalities.

Course objectives:

- This course is designed to impart advanced knowledge and skills required to learn the concept of generic drugs and their development, various regulatory filings in different countries, different phases of clinical trials and submitting regulatory documents: filing process of IND, NDA and ANDA

Course Outcomes:

Upon completion of the course, it is expected that the students will be able to:

1. Explain the concepts of innovator and generic drugs, drug development process
2. Describe the Regulatory guidance's and guidelines for filing and approval process
3. Enlist the Submission of global documents in CTD/ eCTD formats
4. Discuss post approval regulatory requirements for actives and drug

products

5. Evaluate the clinical trials requirements for approvals for conducting clinical trials.

Resource persons:

Faculty of reputed management and academic institutes, Successful entrepreneurs and businesspeople

Syllabus Content:

- ✓ **Module 1.** Introduction to ICH and WHO Guidelines, Audits and Drug product development: Q series guidelines for product development, cGMP guidelines, types of audits and regulatory compliance, phases of clinical trials and GCP
- ✓ **Module 2.** Regulatory requirements for product approvals: Active Pharmaceutical Ingredients, Investigational New drug Application (IND), New Drug Application (NDA), Abbreviated New Drug Application (ANDA), Hatch-Waxman act and amendments, Code of Federal Regulations (CFR), Drug product performance – in-vitro, Bioequivalence and Drug Product Assessment – in-vivo, Post marketing surveillance, Pharmaceutical Labeling, Scale up Post approval changes
- ✓ **Module 3.** Regulatory Filing systems in different countries: EU - ASMF, CEP, EU – DMF, US – DMF application. Various types of DMF, CTD –Module 1,2,3,4. Quality Overall Summary (QOS), Laws and Act, Orange Book, Purple Book
- ✓ **Module 4.** Registration procedures in various countries: India (CDSCO), US (FDA), UK (MHRA), Australia (TGA), Canada (HPFB), Japan (MHLW) – Introduction, structure, and application process.

Chief Patron

Dr. Prabhakar B. Kore, M.P

Hon. Chancellor, KAHER, Belagavi

Patron

Dr. Nitin Gangane

Hon. Vice-Chancellor

KLE Academy of Higher Education and Research
(Deemed to be University)

Chief Coordinator

**Prof. (Dr.) Sunil S Jalalpure
Principal,**

KLE College of Pharmacy, Belagavi

Program Coordinators

Dr. Anjana A Adhyapak

Associate professor,

Department of Pharmaceutical Quality
Assurance

KLE College of Pharmacy, Belagavi

E-mail: anjanaadhyapak@klepharm.edu

Mobile: 9845428290

**Dr. Vinodh Kumar S Mannur
Professor and Head**

Department of Pharmaceutical Quality
Assurance

KLE College of Pharmacy, Belagavi

E-mail: vvinnodmannur@klepharm.edu

Mobile: 9164500550



KLE ACADEMY OF HIGHER EDUCATION & RESEARCH

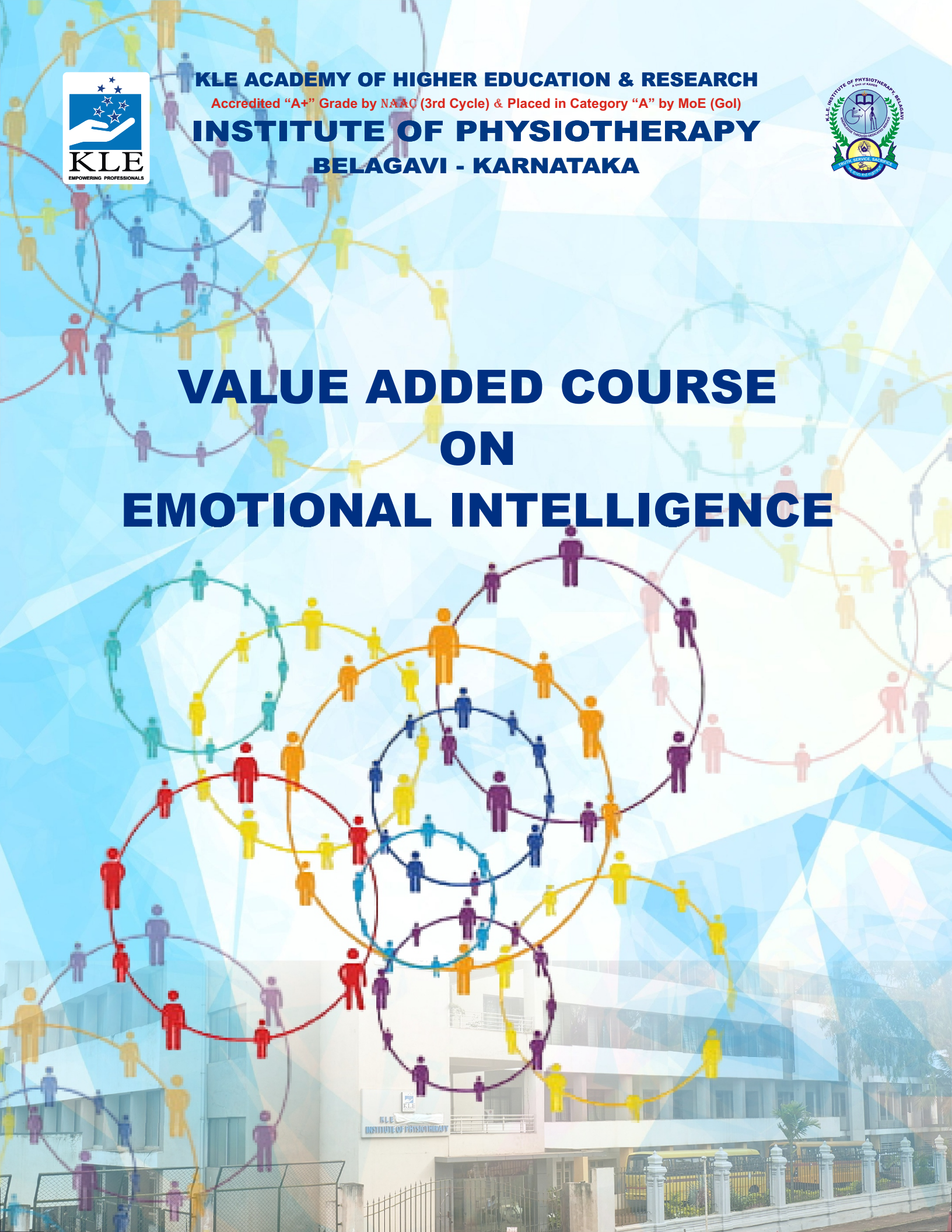
Accredited "A+" Grade by NAAC (3rd Cycle) & Placed in Category "A" by MoE (GoI)

INSTITUTE OF PHYSIOTHERAPY

BELAGAVI - KARNATAKA



VALUE ADDED COURSE ON EMOTIONAL INTELLIGENCE





Value Added Course on Emotional Intelligence

PREAMBLE

- ➔ Emotional intelligence (EQ) describes ability, capacity, skill or self-perceived ability to identify, assess, and manage the emotions of one's self, of others and of groups. emotional intelligence varies from one person to another. While some people are gifted by birth in the way they understand and deal with people, others may need help to build their emotional skills. A high EQ helps you to build relationships, reduce team stress, defuse conflict and improve job satisfaction.

OBJECTIVE

- ❖ To define and explain the value of emotional and social intelligence for professional success
- ❖ To assess your current emotional and social intelligence skills
- ❖ To evaluate your strengths and weaknesses to build self-awareness
- ❖ To identify areas of growth in self-management and be able to implement strategies of self-regulation
- ❖ To compare and contrast between empathy and sympathy.
- ❖ To implement strategies to help build relationships and connections at work

DURATION : 15 hours

MEDIUM OF INSTRUCTION : English

FREQUENCY: Once a year

No. of Seats : 50

CONTENT

- ➔ Introduction to Emotional Intelligence
- ➔ Self Awareness
- ➔ Self-Management
- ➔ Social Awareness and Empathy
- ➔ Relationship Management

Enrollment Form Format

Name:

Branch of Health Sciences:

Name of the College and Address:

I would like to enroll / be informed about course

By Post / E-mail / SMS

Mobile No:

E-Mail ID:

Postal Address

Signature of the participant:

Forwarded by Head of the Institution

Signature and seal



KLE ACADEMY OF HIGHER EDUCATION AND RESEARCH

Belagavi



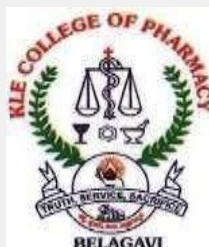
Reaccredited 'A+' Grade
by NAAC

Placed in category 'A' by MHRD, Govt. of India

Value Added Course on

Preclinical and Toxicological Studies 2024

Organized by



KLE College of Pharmacy,
Belagavi

Ph.0831-2471399, Fax: 0831-2472387

E-mail: principal@klepharm.edu

KLE Society(Karnataka Lingayat Education Society) was started in 1916 by a group of young dedicated teachers and patrons. This Society aims to empower people through education and is well recognized for its quality education and health care services. Today, KLE Society manages around 293+ institutions with 1.38+ lakh student strength, and 18000+ employees offering world-class education in Healthcare, Pharmacy and paramedical sciences, Engineering, Management, Law and Agriculture. The educational services include School, Pre-University, Graduate and Post Graduate education

KLE Academy of Higher Education and Research is sponsored by KLE Society was established in Belagavi in 2006 to highlight the Society's commitment to healthcare and Science education. KAHER is recognized by University Grants Commission (UGC), reaccredited "A+" grade by NAAC and placed in category "A" by MHRD, Govt. of India. KAHER provides internationally accepted education and healthcare practices, with impetus on research. University takes immense pride in its top class faculty, curriculum and well equipped infrastructure. The institutions of Medicine, Dentistry, Physiotherapy, Nursing, Pharmacy and Ayurveda are under the ambit of this university.

KLE College of Pharmacy, Belagavi: is a well-reputed and ranked institution offering all professional courses of pharmacy education. All the courses run by the institution are recognized by Pharmacy Council of India, All India Council for Technical Education and University Grants Commission. The college introduced D.Pharm in 1968, B.Pharm degree course in 1975, Post-Graduation in 1988, Doctoral Degree from 2000 and Pharm.D. from 2014. B.Pharm program has been accredited by NBA(4th Cycle) for a period of 6 years(Up to June 2025) It has been accredited by NBA, New Delhi and has received many prestigious research grants from funding agencies such as AICTE, DST, ICMR, VGST Govt. of Karnataka etc.

About the course:

Toxicology seeks to understand the nature and mechanism of adverse effects of toxicants such as those found in industry, in the household, in food, in medicine and those that occur naturally in the environment.

The purpose and intent of toxicity studies is a review, to demonstrate the extensive scientific parameter assessments, basic preclinical toxicology screening models, alternative animal models and skill develop to research design and reporting.

The course is designed for students majoring the natural environment, the influence of pollutants upon the environment and also focus on the toxicants biotransformation of drugs, carcinogens and other toxicants, its implication on human and animals health

Learning from the course: Students enrolled in this course will learn

1. To develop a conceptual framework to identify toxins and its remedies
2. To Provide toxicological information at an introductory level while combining regulatory guidelines enough comprehensive information to meet the unmet needs of students studying in the fields.
3. To generate an applicable practical knowledge on preclinical toxicological studies using computer aided software predictions and alternative to animal studies.
4. To appreciate the basic concepts on ADME profiling of toxicants, interactions at cellular toxicity and chemical actions on body organs systems.
5. To understand their research approach and research design of toxicology studies.

Chief Patron

Dr. Prabhakar B. Kore,
Hon. Chancellor, KLE University, Belagavi

Patron

Dr. Nitin Gangane
Hon. Vice-Chancellor
KLE Academy of Higher Education and
Research(Deemed to be University)

Chief Coordinator

Prof. (Dr.) Sunil S Jalalpure
Principal,
KLE College of Pharmacy, Belagavi

Program Coordinators

Prof. (Dr.) Nayeem A Khatib
Head of the Department
Department of Pharmacology and Toxicology
KLE College of Pharmacy, Belagavi
E-mail: nayeemkhatib@klepharm.edu
Mobile: 9986514313

Mr. Prakash R Biradar
Associate Professor
Department of Pharmacology and
Toxicology KLE College of Pharmacy,
Belagavi
E-mail: prakashbiradar@klepharm.edu
Mobile: 9880213934

Resource persons:

- Faculty of Department of of Pharmacology and Toxicology, KLE College of Pharmacy, Belagavi.
- Specialized resource persons from ICMR , NITM Belagavi

Topics:

- ✓ Determination of ED50, LD50 & NOAEL and dose conversion
- ✓ Regulatory Guidelines for Toxicological studies.
- ✓ Alternate to animal models for toxicity studies
- ✓ Toxicokinetic and Toxicodynamic of Toxicants
- ✓ Environmental toxicity studies
- ✓ Systemic Toxicity studies
- ✓ Designing and writing
- ✓ In-silico, In-vitro, In-vivo Hands on training

Career Prospects: Pre-clinical toxicologist, Pre-clinical regulatory toxicology, Neurotoxicologist, Pre-clinical Data Associate, Safety Pharmacologist and Scientist.

Eligibility:

Students of B Pharmacy, M Pharmacy (Pharmacology), PharmD, MBBS, MD (Pharmacology), BAMS, PG-Ayurveda, MSc Clinical Research, PhD scholars and other allied sciences of health science institutes who have genuine interest in Toxicological studies and Safety Pharmacology.

Final grading and evaluation

On the basis of formative, summative and continuous mode assessment which includes submission assignment, report and presentation.

Schedule: March-May 2024

Classes: 2 Hrs. per week Please contact the Program Coordinators for further details:

Enrollment Application

Name of the Student:

Name of the Course:

Year / Semester of study:

Name of the college and Address:

I would like to enroll / be informed about course

By Post / E-mail / SMS

Mobile No:

E-Mail ID:

Postal Address

Signature of the participant:

Forwarded by Head of the Institution

Signature and seal



KLE ACADEMY OF HIGHER EDUCATION & RESEARCH

Belagavi



Reaccredited A+ Grade by NAAC (3rd Cycle) Placed
in Category 'A' by MoE (Gol)

Value Added Course on
on

PHARMACOVIGILANCE & DRUG SAFETY - 2024

Organized by



Department of Pharmacy Practice,
KLE College of Pharmacy,
Belagavi

Ph.0831-2471399, Fax: 0831-2472387

E-mail: principal@klepharm.edu.

KLE Society (Karnataka Lingayat Education Society) was started in 1916 by a group of young dedicated teachers and patrons. This Society aims to empower people through education and is well recognized for its quality education and health care services. Today, KLE Society manages around 306 institutions with 1.38+ lakh student strength, and 18000+ employees offering world-class education in Healthcare, Pharmacy and paramedical sciences, Engineering, Management, Law and Agriculture. The educational services include School, Pre-University, Graduate and Post Graduate education

KLE Academy of Higher Education & Research is sponsored by KLE Society was established in Belagavi in 2006 to highlight the Society's commitment to healthcare and Science education. KAHER is recognized by University Grants Commission (UGC), reaccredited "A+" grade by NAAC (3rd Cycle) and placed in category "A" by MoE, Govt. of India. KAHER provides internationally accepted education and healthcare practices, with impetus on research. University takes immense pride in its top-class faculty, curriculum and well-equipped infrastructure. The institutions of Medicine, Dentistry, Physiotherapy, Nursing, Pharmacy and Ayurveda are under the ambit of this university.

KLE College of Pharmacy, Belagavi: is a well- reputed and ranked institution offering all professional courses of pharmacy education. All the courses run by the institution are recognized by Pharmacy Council of India, All India Council for Technical Education and University Grants Commission. The college introduced D. Pharm in 1968, B. Pharm degree course in 1975, Post-Graduation in 1988, Doctoral Degree from 2000 and Pharm.D. from 2014. B. Pharm program has been accredited by NBA (4th Cycle) for a period of 6 years (Up to June 2025) It has been accredited by NBA, New Delhi and has received many prestigious research grants from funding agencies such as AICTE, DST, ICMR, VGST Govt. of Karnataka etc.

About the course:

Course Objective

To train about identifying, Assessing, Reporting of ADR, Use of software (Vigiflow) and its importance.

Course Outcomes:

- Search, Compile, Analyze and evaluate reports about adverse drug reactions in scientific literature and databases.
- Detect, Assess & Describe the measures to Prevent / Treatment of ADR.
- Sensitize the participants with regard to the different methods of Causality assessment scales.
- Improve participants to be better communicators with other health care professionals by providing them with relevant information about Adverse Drug Reaction.
- Experience hands on training by using Vigiflow software in reporting of ADRs.

Eligibility:

Students of B Pharmacy, M Pharmacy, PharmD, BSc Nursing, MSC Nursing, BDS, MDS, MBBS, MSc Clinical Research and other allied sciences.

Resource persons:

Experts from Industry & Faculty of Department of Pharmacy Practice.

Topics:

Module 1 – Basics of Pharmacovigilance

Module 2 – Overview of approaches to signal detection

Module 3 – Spontaneously reported drug-safety related information

Module 4 -Database that support signal detection

Module 5- Traditional methods of signal detection

Module 6- Hands on Data entry into Vigiflow

Module-7 Software's – MedDRA, EUDRA, ORACLE ARGUS Safety Application

Final grading and evaluation

On the basis of formative, summative and continuous mode assessment which includes submission of assignment , report and presentation.

Schedule: Feb-April 2024

Total duration: 30 hours

Classes: 2 hours per week

Please contact the Program Co-Ordinator for further details:

CHIEF PATRON

Dr. Prabhakar B. Kore,
Hon. Chancellor
KLE Academy of Higher Education and Research
(Deemed to be University)

PATRON

Prof. (Dr.) Nitin Gangane

Hon. Vice-Chancellor
KLE Academy of Higher Education and Research
(Deemed to be University)

CHIEF CO-ORDINATOR

Prof (Dr). Sunil S. Jalalpure
Principal,
KLE College of Pharmacy, Belagavi

PROGRAM CO-ORDINATORS

Prof (Dr) M S Ganachari
Head & Professor,
Department of Pharmacy Practice,
KLE College of Pharmacy
Belagavi

Dr. Santhosh Reddy
Assistant Professor
Department of Pharmacy Practice
KLE College of Pharmacy
Belagavi

E-mail: santhoshreddy@klepharm.edu
Mobile number: 9494601698

Enrollment Form

Name:

Branch of Health Sciences:

Name of the College and Address:

I would like to enroll / be informed about course

By Post / E-mail / SMS

Mobile No:

E-Mail ID:

Postal Address

Signature of the participant:

Forwarded by Head of the Institution

Signature and seal



KLE ACADEMY OF HIGHER EDUCATION AND RESEARCH

Belagavi



Reaccredited 'A+' Grade
by NAAC

Placed in category 'A' by MHRD, Govt. of India

Value Added Course

on

Bio-innovations & Basics of IPR

2024

Organized by



Department of Pharmacognosy

KLE College of Pharmacy,

Belagavi

Ph.0831-2471399, Fax: 0831-2472387

E-mail: principal@klepharm.edu

KLE Society (Karnataka Lingayat Education Society) was started in 1916 by a group of young dedicated teachers and patrons. This Society aims to empower people through education and is well recognized for its quality education and health care services. Today, KLE Society manages around 306 institutions with 1.38+ lakh student strength, and 18000+ employees offering world-class education in Healthcare, Pharmacy and paramedical sciences, Engineering, Management, Law and Agriculture. The educational services include School, Pre-University, Graduate and Post Graduate education.

KLE Academy of Higher Education and Research is sponsored by KLE Society was established in Belagavi in 2006 to highlight the Society's commitment to healthcare and Science education. KAHER is recognized by University Grants Commission (UGC), reaccredited "A+" grade by NAAC and placed in category "A" by MHRD, Govt. of India. KAHER provides internationally accepted education and healthcare practices, with impetus on research. University takes immense pride in its top class faculty, curriculum and well equipped infrastructure. The institutions of Medicine, Dentistry, Pharmacy, Physiotherapy, Nursing, Homeopathy and Ayurveda are under the ambit of this university.

KLE College of Pharmacy, Belagavi is a well-reputed and ranked institution offering all professional courses of pharmacy education. All the courses run by the institution are recognized by Pharmacy Council of India, All India Council for Technical Education and University Grants Commission. The college introduced D.Pharm in 1968, B.Pharm degree course in 1975, Post-Graduation in 1988, Doctoral Degree from 2000 and Pharm.D. from 2014 B.Pharm program has been accredited by NBA, New Delhi (4th Cycle) for a period of 6 years (Up to June 2025). Institute has received many prestigious research grants from funding agencies such as AICTE, DST, ICMR, VGST Govt. of Karnataka etc.

About the course

Economic competitiveness of a country depends on its ability to innovate, develop and translate excellent and ground-breaking scientific knowledge into the world market. Innovation is defined as translating any new idea, process, or product, or a change to an existing product or process that adds value to that existing product or service. Innovation is the growth engine for knowledge-driven economy and is crucial for value creation, growth and employment.

Bio innovation involves identification, commercialization, and dissemination of novel biological technologies, concepts, models and products in biological sciences. New knowledge, developments, tools, technologies, approaches of biotechnology, life sciences can be explored for commercialization and to strengthen our knowledge-based economy.

Course objectives:

- Make participants aware of key concepts of innovation, patenting and entrepreneurship
- Apprise the participants with cutting edge bioscience developments and their translational to bio innovations
- Teach participants the skills of patent search, market research analysis, identifying unmet needs, challenges and opportunities for developing various innovative bio based products.
- Nurture and hone the innovation and entrepreneurship skills of participants
- Develop team work and effective communication skills of participants.

Resource persons:

Faculty of reputed management and academic institutes, Successful entrepreneurs and business people

Topics:

Module 1: Bio-Innovations and Entrepreneurship
Understanding innovation

Module 2: Basics of Intellectual property rights

Module 3: Biotechnology, food, nutraceutical, agricultural technology innovations

Module 4: Innovations, IPR opportunities in herbal products

Module 5: Innovations and IPR in Natural dyes and applications

Module 6: Innovations and IPR opportunities drug discovery & bioinstrumentation

Eligibility:

- *Students of health, life science institutes who have genuine interest in entrepreneurship, bio innovations.*
- *Ideal for techno entrepreneurs those who are interested in developing innovative pharma, biotech, herbal and other life science products and who wish start their own business.*

Course is designed with 6 modules

Total time proposed: 30 Hrs.

Final grading and evaluation

On the basis of formative, summative and continuous mode assessment which includes submission assignment, report and presentation.

Schedule: February-May 2024

Classes: 2-3 Hrs. per week as per the need.

Please contact the Program Coordinators for further details.

Chief Patron

Dr. Prabhakar B. Kore

Hon. Chancellor,

KLE Academy of Higher Education and Research
(Deemed to be University)

Patron

Dr. Nitin Gangane

Hon. Vice-Chancellor

KLE Academy of Higher Education and Research
(Deemed to be University)

Chief Coordinator

Prof. (Dr.) Sunil S Jalalpure

Principal,

KLE College of Pharmacy, Belagavi

Program Coordinators

Dr. D. Nithyananda Sastry.

Associate professor,

Department of Pharmacognosy

KLE College of Pharmacy, Belagavi

E-mail: nithyanandasastri@klepharm.edu

Mobile: 9342250794

Dr. Kalpana Patil

Professor and Head

Department of Pharmacognosy

KLE College of Pharmacy, Belagavi

E-mail: kalpanapatil@klepharm.edu

Mobile: 9449024899

Enrollment Application

Name of the Student:

Name of the Course:

Year / Semester of study:

I would like to enroll / be informed about course

By Post / E-mail / SMS

Mobile No:

E-Mail ID:

Postal Address

Signature of the participant:

Forwarded by Head of the Institution

Signature and seal



KLE ACADEMY OF HIGHER EDUCATION & RESEARCH

Belagavi



Reaccredited 'A+' Grade by
NAAC

Placed in category 'A' by MoE, Govt. of India

Value Added Course
on

INDUSTRIAL PERSPECTIVE FOR PHARMACEUTICAL PRODUCT DEVELOPMENT AND TECHNOLOGY TRANSFER

Organized by



Department of Pharmaceutics,
KLE College of Pharmacy,
Belagavi

Ph.0831-2471399, Fax: 0831-2472387

E-mail: principal@klepharm.edu

KLE Society (Karnataka Lingayat Education Society) was started in 1916 by a group of young dedicated teachers and patrons. This Society aims to empower people through education and is well recognized for its quality education and health care services. Today, KLE Society manages around 306 institutions with 1.38+ lakh student strength, and 18000+ employees offering world-class education in Healthcare, Pharmacy and paramedical sciences, Engineering, Management, Law and Agriculture. The educational services include School, Pre-University, Graduate and Post Graduate education

KLE Academy of Higher Education & Research is sponsored by KLE Society was established in Belagavi in 2006 to highlight the Society's commitment to healthcare and Science education. KAHER is recognized by University Grants Commission (UGC), reaccredited "A+" grade by NAAC and placed in category "A" by MoE, Govt. of India. KAHER provides internationally accepted education and healthcare practices, with impetus on research. University takes immense pride in its top-class faculty, curriculum and well-equipped infrastructure. The institutions of Medicine, Dentistry, Physiotherapy, Nursing, Pharmacy and Ayurveda are under the ambit of this university.

KLE College of Pharmacy, Belagavi: is a well- reputed and ranked institution offering all professional courses of pharmacy education. All the courses run by the institution are recognized by Pharmacy Council of India, All India Council for Technical Education and University Grants Commission. The college introduced D. Pharm in 1968, B. Pharm degree course in 1975, Post-Graduation in 1988, Doctoral Degree from 2000 and Pharm.D. from 2014. B. Pharm program has been accredited by NBA (4th Cycle) for a period of 6 years (Up to June2025) It has been accredited by NBA, New Delhi and has received many prestigious research grants from funding agencies such as AICTE, DST, ICMR, VGST Govt. of Karnataka etc.

About the course:

Course Objective

This course involves a scientific value addition approach for the candidates to know the insights of Pharmaceutical Product Development in industry.

The modules strengthen the literature search capabilities for the regulatory markets.

It shall be a value addition for the technology transfer and the automation process during manufacturing.

Course Outcomes:

- Relate literature search for various regulatory market for generic product development.
- Appraise skills in handling various stages of Product Development and Tech Transfer
- Design technical Scale-up parameters of Rapid mixer granulator, Blender, Tablet Compression machine.
- Compute strategies for Business Development, Project Management and Automation in Manufacturing.

Eligibility:

Students of B Pharmacy, M Pharmacy who have genuine interest in research and development, and technology transfer. Ideal for the formulators those who are interested in developing innovative pharma products.

Resource persons:

Faculty of reputed management and academic institutes, Successful entrepreneurs and business people.

Topics:

Module 1 – Literature search for regulatory market for generic drug development

Module 2 – Pharmaceutical Product Development and its stages

Module 3 – Technology Transfer

Module 4 -Business Development, Project Management and Automation in Manufacturing

Eligibility:

Students of health, life science institutes who have genuine interest in development and technology transfer of drug product for regulated market

Course is designed with 4 modules

Schedule: February to May 2024

Total duration: 24 hours

Classes: 2 hours per week

Final grading and evaluation

On the basis of formative, summative and Continuous mode assessment which includes submission assignment, report and presentation.

Please contact the Program Co-Ordinator for further details:

CHIEF PATRON

Dr. Prabhakar B. Kore,
Hon. Chancellor

KLE Academy of Higher Education and Research
(Deemed to be University)

PATRON

Prof. (Dr.) Nitin Gangane

Hon. Vice-Chancellor

KLE Academy of Higher Education and Research
(Deemed to be University)

CHIEF CO-ORDINATOR

Prof (Dr). Sunil S. Jalalpure
Principal,

KLE College of Pharmacy, Belagavi

PROGRAM CO-ORDINATORS

Prof.(Mrs) Rajashree. Masareddy

Head & Professor,
Department of Pharmaceutics,
KLE College of Pharmacy
Belagavi

Mr. Ravikiran Kanabargi

Assistant Professor
Department of Pharmaceutics
KLE College of Pharmacy
Belagavi

E-Mail: ravikiranabargi@klepharm.edu

Mob: 9538601921

Enrollment Form

Name:

Branch of Health Sciences:

Name of the College and Address:

I would like to enroll / be informed about course

By Post / E-mail / SMS

Mobile No:

E-Mail ID:

Postal Address

Signature of the participant:

Forwarded by Head of the Institution

Signature and seal



KLE Academy of Higher Education and Research, Belagavi, Karnataka, India



Reaccredited 'A+' Grade
by NAAC & Placed in category 'A' by MHRD,
Govt. of India

Value Added Course

on

COMPUTATIONAL TOOLS IN DRUG DESIGN

2024

Offered by



**Department of Pharmaceutical Chemistry,
KLE College of Pharmacy, Belagavi**
Ph.0831-2471399, Fax: 0831-2472387
E-mail: principal@klepharm.edu

KLE Society (Karnataka Lingayat Education Society) was started in 1916 by a group of young dedicated teachers and patrons. This Society aims to empower people through education and is well recognized for its quality education and health care services. Today, KLE Society manages around 306 institutions with 1.38+ lakh student strength, and 18000+ employees offering world-class education in Healthcare, Pharmacy and paramedical sciences, Engineering, Management, Law and Agriculture. The educational services include School, Pre-University, Graduate and PostGraduate education.

KLE Academy of Higher Education and Research is sponsored by KLE Society was established in Belagavi in 2006 to highlight the Society's commitment to healthcare and Science education. KAHER is recognized by University Grants Commission (UGC), reaccredited "A+" grade by NAAC and placed in category "A" by MHRD, Govt. of India. KAHER provides internationally accepted education and healthcare practices, with impetus on research. University takes immense pride in its top-class faculty, curriculum and well-equipped infrastructure. The institutions of Medicine, Dentistry, Physiotherapy, Nursing, Pharmacy and Ayurveda are under the ambit.

KLE College of Pharmacy, Belagavi is a well-reputed and ranked institution offering all professional courses of pharmacy education. All the courses run by the institution are recognized by Pharmacy Council of India, All India Council for Technical Education and University Grants Commission. The college introduced D. Pharm in 1968, B. Pharm degree course in 1975, post-graduation in 1988, Doctoral Degree from 2000 and Pharm.D. from 2014. B. Pharm program has been accredited by NBA, New Delhi (4th Cycle) for a period of 6 years (Up to June 2025). Institute has received many prestigious research grants from funding agencies such as AICTE, DST, ICMR, VGST Govt. of Karnataka etc.

About the course

The proposed Course title is dealing with “Computational Tools in Drug Design” which covers various tools and techniques in Drug Design. It is one of the essential courses for UG, PG, students and Ph. D scholars as this course imparts and orients students about drug design tools with more emphasis on hands on training.

Scope: This course is designed to deliver essential knowledge of computational tools in drug design with practical emphasis.

Course Objectives:

The main objectives of proposed course are to:

1. Understand the basics of Drug Design and Discovery.
2. Know the various softwares, servers and databases in drug design.
3. Perform Molecular Docking.

Course Outcomes:

Upon the completion of course, students shall able to:

1. Explain the process of drug discovery and drug design.
2. Discuss about various softwares, servers and databases in drug design.
3. Describe the role of molecular docking in development of new lead molecules.
4. Handle drug design related softwares, serves and databases.
5. Identify the suitable drug-like candidates using molecule docking.

Highlights of the Course:

- Introduction to basics of Drug Design and Discovery.
- Orientation to various software, servers & databases employed in drug design.
- Insight into Molecular Docking approaches, Result Analysis & Prediction of Binding
- Hands-on training on Drug Design Tools

Resource persons:

Faculty of reputed management and academic institutes, Successful entrepreneurs and industry persons.

Topics

Module I: Drug Discovery and Drug Design

Module II: Computer Aided Drug Design

Module III: Molecular Docking Approaches

Module IV: Hands on Training on Drug Design Tools

Module V: Overview to Advanced Excel

Eligibility: Students of UG, PG, and Ph. D Scholars in Science Discipline.

Duration: 24 Hours

Added Benefits for the Participating Students:

- Hands on training
- Certificate of course completion
- Exposure to computational chemistry labs
- Post training
- Assistance to conduct project work related to course
- Placement assistance

Career Prospects:

- Drug Discovery Research
- Computational Chemistry
- Drug Design Specialist
- Computational drug discovery scientist
- Molecular modelling and drug designing
- Computational biology data management
- Proteomics bioinformatics data analyst

Chief Patron

Dr. Prabhakar B. Kore

Hon. Chancellor,
KLE Academy of Higher Education and Research
(Deemed to be University)

Patron

Dr. Nitin Gangane

Hon. Vice-Chancellor
KLE Academy of Higher Education and Research
(Deemed to be University)

Chief Coordinator

Dr. Sunil S Jalalpure

Principal,
KLE College of Pharmacy, Belagavi

Course Coordinators

Mr. Shailendra S. Suryawanshi

Assistant Professor, Dept. of Pharmaceutical Chemistry,
Email: shailendrasuryawanshi@klepharm.edu
Mobile: 9620165211

Ms. Pooja Kagawad

Assistant Professor, Dept. of Pharmaceutical Chemistry,
Email: poojakagawad58425@gmail.com
Mobile: 9844252608

Dr. Shankar G. Alegaon

Professor & Head Dept. of Pharmaceutical Chemistry,
KLE College of Pharmacy, Belagavi
Email: sgalegaon@klepharm.edu
Mobile: 9480397673

Eligibility : Pharmacy (B. Pharm V to VIII Semester)

Duration : 45 hrs

Theory : 25 hrs

Practical : 20 hrs

Course Description : The course is designed to:

- Identify importance of Nutrition in health & wellness of different age groups.
- Know the therapeutic diet for patients suffering for various disease conditions.
- Understand the national programs related to Nutrition – Yoga – Immune system – Pharmacist.



Contact Details :

Principal, KLE College of Pharmacy

Vidyanagar, Hubballi-580031.

Phone : 0836-2373174

Email: principal.klescoph@gmail.com



**KLE COLLEGE OF PHARMACY
HUBBALLI**

A Constituent Unit of KLE Academy of Higher Education and Research, Belagavi.



**Value added Course
on**

YOGA & NUTRITION



Value Added Course on

“Entrepreneurial & Commercial Thinking”

Preamble

Entrepreneurial thinking skills refer to the ability to identify market place opportunities and discover the most appropriate ways and time to capitalize on them. Entrepreneurial thinking is the ability to see things differently than the rest of the world but, it is not necessarily an inherent trait and can be easily developed or improved. It is more like a state of mind that opens your eyes to new learning opportunities and helps you grow in your role.

Having entrepreneurial thinking skills and putting them to good use is not important for business owners alone but for everyone pursuing a successful career. Employees with such skills stand out because they tend to think creatively and take ownership of their jobs as well as performance.

Commercial Thinking simply the knowledge of the business and industry, your role operates in. When applied to work it shows whether or not you have a deep understanding of the commercial models and strategies that underpin the business, product or service you provide. The more senior your role, the more you engage with business strategy and the more important commercial thinking becomes.

Scope

- Entrepreneurship stimulates the economy which enables societal change not only for fulfilling a need but also to generate revenue for the entrepreneur
- Entrepreneurship thus provides jobs for the society and develops communities.

Objectives

- Define entrepreneurial and commercial thinking; understand how they are important to your role and the business.
- Promote and support the use of entrepreneurial and commercial thinking within the teams.
- Discuss the blockages and behaviors that can affect entrepreneurial and commercial thinking.
- Use decision-making and problem solving tools to achieve a high performance mindset.

Outcomes

Upon the completion of course students shall be able to:

1. Understand the functions of an Entrepreneur and concept of Entrepreneurship
2. Explain the competencies of an Entrepreneur and the importance of Ethics
3. Understand the reasons for success and failure of business plan.
4. Scan the market environment and learn how to conduct market research.

Future Prospects and Job Opportunities

- ✓ Innovation and entrepreneurship
- ✓ Competitive Startups

Course Content

30 Hours

MODULE NO.	TITLE OF THE MODULE	DURATION (HOURS)
I	Entrepreneurship: Concept and Functions	6
II	An Entrepreneur Competencies Motivation and Ethics.	6
III	Entrepreneurship Journey Scanning the environment; Information seeking; creativity and Innovativeness.	6
IV	Innovation and Problem Solving Risk taking; Determination; Initiative and Adaptability to changing technologies	6
V	Understanding the Market	6

Modules Wise Content

Module-I	Entrepreneurship: Concept and Functions	6 Hours
1	Entrepreneurship – Concept, Functions and Need	1 Hour
2	Why Entrepreneurship	1 Hour
3	Myths about Entrepreneurship	1 Hour
4	Advantage and Limitations of Entrepreneurship	1 Hour
5	Process of Entrepreneurship	1 Hour
6	Entrepreneurship – The Indian Scenario	1 Hour

Module Outcomes:

Upon the completion of this module students will be able to:

1. Appreciate the need for Entrepreneurship in our economy.
2. Describe the current scenario of Entrepreneurial activity in India

II	An Entrepreneur Competencies Motivation and Ethics.	6 Hours
7	Why be an Entrepreneur?	1 Hour
8	Competencies and characteristics	1 Hour
9	Entrepreneurial Values, Attitudes and Motivation	1 Hour
10	Intrapreneur: Meaning and Importance	3 Hour

Module Outcomes: Upon completion of this module the students will be able to:

1. Explain the competencies of an Entrepreneur
2. Appreciate the importance of Ethical Entrepreneurship
3. Appreciate the difference between Entrepreneur and Intrapreneur

III	Entrepreneurship Journey Scanning the environment; Information seeking; creativity and Innovativeness.	6 Hours
11	Idea generation.	2 Hour
12	Feasibility Study and opportunity assessment	1 Hour
13	Business Plan: meaning, purpose and elements	1 Hour
14	Execution of Business Plan	2 Hour

Module Outcomes: Upon completion of this module the students will be able to:

1. Understand ways of idea generation and discuss the concept of types of feasibility study.
2. Draft a basic business plan.

IV	Innovation and Problem Solving Risk taking; Determination; Initiative and Adaptability to changing technologies	6 Hours
15	Entrepreneurs as problem solvers	2 Hour
16	Innovations and Entrepreneurial Ventures – Global and Indian	1 Hour
17	Role of Technology – E-commerce and Social Media	2 Hour
18	Social Entrepreneurship - Concept	1 Hour

Module Outcomes: Upon completion of this module students will be able to:

1. Appreciate the role of global and Indian innovations in entrepreneurial ventures
2. Understand the use of technology and digitization for new businesses.

V	Understanding the Market	6 Hours
19	Market: Concept and Types	2 Hour
20	Micro and Macro Market Environment	1 Hour
21	Market Research - Concept, Importance and Process	2 Hour
22	Marketing Mix	1 Hour

Module Outcomes: Upon completion of this module students will be able to:

1. Scan the market environment and learn how to conduct market research
2. Understand the elements of marketing mix
3. Appreciate the role of global and Indian innovations in entrepreneurial ventures

Assessment

30 % Formative assessment:

- Theory Assignment: 05 marks
- Experimental Case Studies: 10 Marks

70 % summative assessment:

- Continuous Mode: 10 Marks
- Theory Exam (Objectives, Long Essay and Short Essay): 25 Marks

Reference Books:

1. Harrigan, P., Ramsey, E., & Ibbotson, P. (2011). Critical factors underpinning the e-CRM activities of SMEs. *Journal of Marketing Management*, 27(5–6), 503–529
2. Lepoutre, J., Van den Berghe, W., Tilleuil, O., & Crijns, H. (2011). A new approach to testing the effects of entrepreneurship education among secondary school pupils. In *Entrepreneurship, growth and economic development*. Edward Elgar Publishing
3. Venkatesh, V., & Davis, F. D. (2000). A theoretical extension of the technology acceptance model: four longitudinal field studies. *Management Science*, 46(2), 186–204.
4. Zhao, J., & Wang, J. (2020). Health advertising on short-video social media: A study on user attitudes based on the extended technology acceptance model. *International Journal of Environmental Research and Public Health*, 17(5), 1501.

Eligibility: B. Pharm (I to Final Year) and PG Students

Duration: 30 Hours

Added Benefits for the Participating Students:

- Visit to entrepreneur cell
- Certificate of course completion
- Post training
- Assistance to conduct project work related to course

Course Coordinators:

Chief Co-Coordinator:

Dr.AHM Viswanatha Swamy
Principal, KLECOP, Hubballi.

Program Coordinators:

Dr. S.P. HIREMATH

Department of Pharmaceutics
KLE College of Pharmacy, Hubli
9483765838

Mr. RAVINDRA KARADI

Department of Pharmacognosy
KLE College of Pharmacy Hubli
9844605181

KLE COLLEGE OF PHARMACY BENGALURU

A CONSTITUENT UNIT OF KLE ACADEMY OF HIGHER EDUCATION & RESEARCH, BELAGAVI



VALUE ADDED COURSE IN AROMATHERAPY

VALUE ADDED COURSE IN AROMATHERAPY

KLE COLLEGE OF PHARMACY, BENGALURU

(A Constituent College of, KLE Academy of Higher Education and Research)

Course Name: Aromatherapy

Aromatherapy helps one to get peaceful mind along with peaceful attitude. Many of the ailments are naturally healed or treated by aromatherapy. Bring the change in routine with a new learning and applying the same to heal the various parts of a body and mind professionally. Get into the celestial world of essential oils and Nature's wonder. Join Certificate course in aromatherapy course and training.

KLE College of Pharmacy, Bengaluru, offers the Certificate course in Aromatherapy, empowering the candidates with all necessary theoretical and practical knowledge of the course content.

Objectives:

- ✓ Provide a basic understanding of how to use essential oils safely for health and wellness.
- ✓ Understand essential oil dilution rates.
- ✓ Learn basic methods of extraction and identification of essential oils.
- ✓ To know the properties of essential oils and its adulterants.
- ✓ Gain knowledge of formulating natural aroma products
- ✓ Become aware of precautions and contraindications before applying an aromatherapy treatment.

Course outcome:

- **You can become your personal guide to alternative healing.**
- **You'll learn about the methods of extracting essential oils and their uses.**
- **You can become entrepreneur.**
- **The various carrier oils and their benefits when mixed, and be guided through creating your own blends.**
- **Aromatherapy can either supplement another healing art, such as massage or reflexology, or can be practiced on its own.**
- **Aromatherapy careers are recognized as an excellent natural healing method to promote wellness and enhance mood through fragrant substances.**
- **Many also utilize their aromatherapy education as an added component to enhance an existing natural or allopathic health care practice. Often, trained aromatherapists successfully incorporate their newly gained knowledge in their current professional health care practice.**

Eligibility	Duration	Programme Convener	Programme coordinator
B.Pharm (During 4 th yr) / Pharm D.(After 3 rd yr) B.Sc, BSc Horti.	3 months	Dr. Rajamma.A.J Principal Professor & HOD, KLECOP, Bengaluru	Dr. Raman Dang Principal, KLECOP. Dr. Rajamma AJ Professor & HOD, KLECOP, Bengaluru

Here are a few potential aromatherapy career opportunities:

- Aromatherapeutic counsellor
- Entrepreneur
- Essential oil store manager
- Essential oil production manufacturer
- Custom aromatherapy blender or formulator
- Community holistic health clinic participator
- Aromatherapy consulting business entrepreneur
- Essential oils retailer
- Aromatherapy writer and book author
- Aromatherapy tutor

Course content:

1. The History of Aromatherapy
2. Introduction to Essential Oils and Aromatherapy
3. Specific essential oil blending techniques used by herbalists and aromatherapists
4. Basic skills and techniques for incorporating essential oils into your daily routine
5. In depth understanding of properties essential oils and their healing properties
6. Instruction on creating your own essential oil blends with free blend recipes (Formulation)

Module	Contents	hrs
MODULE 1 Theory	Introduction to aromatherapy	1
	Discovering aromatherapy	1
	Aroma therapy-past, present and future	1
MODULE 2 Theory	Exploring essential oils & how essential oils are produced	1
	The therapeutic properties of important 20+ essential oils	1
MODULE 3 Practicals	Hydrosols and preparation of hydrosols	2
	Best ways to use hydrosols	2
MODULE 4 Theory	Exploring carrier (base) Oils	1
	The basics about vegetable fixed oils using as carrier	1
	Criteria's to select carrier oil	1
MODULE 5 Theory	Toxicity and safety of essential oils	1
	Approaches for safe use of essential oil	1
MODULE 6 Practicals	Blending and creating essential oil combination for summertime	2
	Blending and creating essential oil combination for wintertime	2
	Blending and creating favourite essential oils that is right one for you	2
MODULE 7 Practicals	Blending and creating a hand cleanser	2
	Blending and creating a body massage oil	2
	Essential oil combination for children body massage	2
MODULE 8 Practicals	Diffusing essential oils, how to make a personal inhaler	2
	Aromatherapy for depression and anxiety	2
MODULE 9 Practicals	Essential oil for Hair therapy	2
	Aromatherapy for hair fall prevention	2
MODULE 10 Practicals	Essential oil for skin therapy	2
	Aromatherapy for skin health	2
	Formulations of your choice	4
*****Note	Theory in week days Practicals on Saturday	

(Formulation of your choice)

Some of the products are listed below for different types of skin are

Cleanser
Toner
Moisturiser
Lotion
Fairness cream
Anti-wrinkle cream
Face packs
Face scrubs
Sun protection lotion
Cleansing oils and Gel
Exfoliating Creams

Treatment for wrinkles

Anti-aging
Pigmentation
Scars
Under-eye dark circles
Facial oils

Lip care - Lip Balm/Lip Gloss/Sun protection

Hand and Foot treatment- Lemon/Butter/Cuticle cream

Foot cream- Rose water/Chamomile and Lavender water/Deodorants/MulthaniMitti (Clay)
Kasturi Arshna/Shea Butter

Aromatic hair treatments:

Scalp treatment oil
Lice treatment oil
Anti-Dandruff oil
Preventing Hair Fall oil
For Grey Hair
Shampoo for normal hair
Anti-Dandruff Shampoo
Aromatic Mehndi
Aromatic Shikakai (Soap Nut Powder)

Aromatic HealthCare Treatments are available for:

Headache
Sinusitis
Migraine
Feet cracks
Hair Rinse
Constipation
Oral Hygiene
Eczema

Arthritis/Rheumatism/Muscle Pain
Menstrual problems
General allergies and Health Disorders

Aromatherapy helps maintain emotional balance. Mental Health Care Treatments are available for: Stress

Tension
Depression
Anxiety

VALUE ADDED
COURSE

**ANALYTICAL METHOD
DEVELOPMENT AND VALIDATION**

KLE College of Pharmacy, Bengaluru, offers the Certificate course in Analytical Method Development and Validation, empowering the candidates with all necessary theoretical and practical knowledge of the course content.

Course Duration

3 Months

Eligibility : B. Pharmacy 4th year



KLE COLLEGE OF PHARMACY, BENGALURU
(Constituent unit of KLE Academy of Higher Education and Research)

VALUE ADDED COURSE

COURSE SYLLABUS:

DURATION: 30 hours

COURSE NAME: ANALYTICAL METHOD DEVELOPMENT AND VALIDATION

KLE College of Pharmacy, Bengaluru, offers the Certificate course in Analytical Method Development and Validation, empowering the candidates with all necessary theoretical and practical knowledge of the course content.

Course Objectives:

1. To ensure the use of calibrated analytical instruments in Method Development.
2. To identify the steps involved in Calibration of Analytical Instruments
3. To enhance skill in Method Development.
4. To study the ICH Guidelines for Method Validation.

Course Outcomes:

Upon completion of the value added course, the student will be able to

CO1: Understand the importance of calibration of analytical instruments.

CO2: Appreciate the significance of method development and validation in drug development.

CO3: Develop an analytical method for estimation of drugs and their combinations.

CO4: Overcome the troubles encountered during the process.

Eligibility	Duration	Programme Convener	Programme coordinator
B. Pharmacy (During their 4 th year)	3 months certification course	Dr. Vanita Somasekhar Professor & HOD, Department of Pharm. Analysis, KLECOP, Bengaluru	Dr. P. V. Murali Krishna Associate Professor, Department of Pharm. Analysis, KLECOP, Bengaluru

COURSE CONTENT

MODULE-1 : SIGNIFICANCE OF CALIBRATION

06 hours

Sl. No.	Topics	Hours
1	Calibration of Glassware	2 Hrs
2	Calibration of pH Meter	
3	Calibration of UV-Visible Spectrophotometer	
4	Potential issues surrounding the analytical instruments and trouble-shooting strategies	
5	Calibration of HPLC	1 Hr
6	Calibration of Dissolution Apparatus	1 Hr
7	Practical exposure to calibration of analytical instruments	2 Hrs

MODULE-2 : ANALYTICAL METHOD DEVELOPMENT

05 hours

Sl. No.	Topics	Hours
1	Purpose, Steps for development of method, Characterization of analyte standard, Method requirements	2 Hrs
2	Literature review on prior methodology, Choosing a method, instrument set up, Optimization	1 Hr
3	Documentation, Evaluation of developed method, Demonstration of quantities in real samples.	2 Hrs

MODULE-3 : STEPS INVOLVED IN METHOD DEVELOPMENT

05 hours

Sl. No.	Topics	Hours
1	Understanding physiochemical properties of drug molecules	1 Hr
2	Setting up HPLC conditions, Preparation of sample solutions, Method Optimization.	1 Hr
3	Practical Case Studies	1 Hr
4	Preparation of Buffer Solutions	2 Hrs

MODULE-4 : PREPARATIVE HPLC

03 hours

Sl. No.	Topics	Hours
1	Developing HPLC Separation including effect of sample size, Optimizing separations & gradient separations	3 Hrs

MODULE-5 : QUANTITATION**03 hours**

Sl. No.	Topics	Hours
1	Measurement of Signals Quantitation Methods Sources of errors in Quantitation	3 Hrs

MODULE-6 : METHOD VALIDATION AS PER ICH GUIDELINES**04 hours**

Sl. No.	Topics	Hours
1	System suitability, Accuracy, Linearity, Detection limit, Quantification Limit, Specificity, Robustness	2 Hrs
2	Solution stability studies, Forced Degradation studies.	2 Hrs

MODULE-7 : INTERLABORATORY CROSS OVER STUDIES**01 hour**

Sl. No.	Topic	Hours
1	Transferability studies	1 Hr

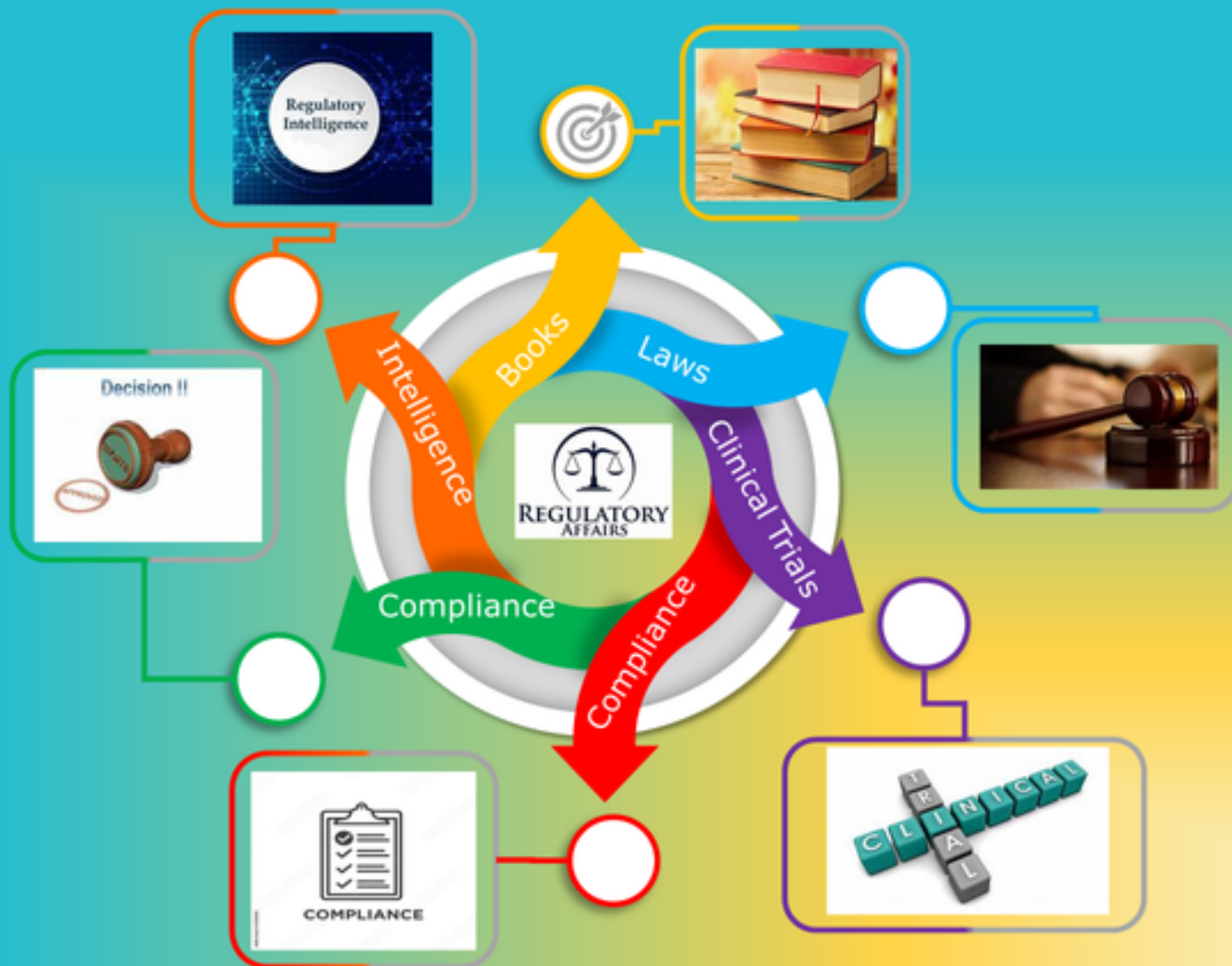
MODULE-8 HANDS-ON TRAINING**03 hours**

Sl. No.	Topic	Hours
1	Practical Session: Handling of HPLC, Solvent Treatment, Sample injection, software handling, input of chromatographic conditions, and evaluation of chromatograms	3 Hrs

References:

1. Practical Pharmaceutical Chemistry, 4th edition, Part 2, by Beckett and Stenlake, CBS publishers and Distributors, P. No: 157-174.
2. Instrumental method of Chemical Analysis by Chatwal Anand, Himalaya Publishing House, P.No:615-623.
3. Govt. of India, Ministry of Health and family Welfare. Vol. 2. Delhi: Publication by controller of publication; 2007. Indian Pharmacopoeia; pp: 484-554.
4. Skoog, West, Holler, Crouch. Fundamentals of Analytical Chemistry, 8th edition, 2012 (Indian Edition), Cengage learning India Pvt Ltd, New Delhi, and Pg.No:271-280.
5. ICH Topic Q2 (R1) Validation of Analytical Procedures: Text and Methodology.
6. Azim Md. Sabir, Mitra Moloy, Bhasin Parminder S. HPLC Method Development and Validation: A review. International research Journal Of Pharmacy, 2013, 4(4): 39-46.
7. G.Santhosh, G. Nagasowjanya, A.Ajitha, Y.UmaMaheswara Rao. HPLC Method Development and Validation: An Overview.2014, 4(4) :274-280.

8. Lloyd R. Snyder, Joseph J. Kirkland, Joseph L. Glajch. Practical HPLC Method Development second edition, A Wiley-Interscience Publication.



VALUE ADDED COURSE ON
REGULATORY GUIDELINES FOR PHARMACEUTICAL PRODUCTS:
An e-Governance Perspective

Offered By:

Dept of Pharmaceutics

KLE College of Pharmacy, 2nd Block, Rajaji Nagar,
Bengaluru, Karnataka-560010

Contact: 080 2332 4529

Course Preamble:

Regulatory Affairs is an integral part of the organizational structure of the company. It liaises at the interphase of drug development, manufacturing, marketing and clinical research and is the key interface between the company and the national or international regulatory authorities. The course covers basics of regulatory industry, through vital documentation with perspective hands-on in addressing regulatory registrations.

Course Objective:

1. To provide an overview of global pharmaceutical market and regulatory concepts
2. To know the importance of documentation and various report generation
3. To understand the regulatory provisions & licensing conditions in cosmetic & medical device sale & manufacturing
4. To introduce an e-governance tool from the Government of India named SUGAM for ease of application and approval process

Course Outcomes:

Upon completion of this course, participants will be able to:

CO1: Understand the key concepts of NDA, ANDA, Clinical research & tech transfer

CO2: Comprehend the importance of audits, inspections, validation and calibration reports

CO3: Know the principles of medical devices and cosmetic sale and manufacturing

CO4: Use SUGAM portal for regulatory applications and approvals in India

Modules:

Module 1: Basics of the regulatory industry

SI No	Value added Topic	Duration
1.	Overview of Pharmaceutical markets and global Drug Regulatory Bodies 1.1 Drug regulation History 1.2 Role of regulatory Affairs 1.3 Indian & US FDA guidelines	01 Hour
2.	Regulatory concepts 2.1. Investigational New drug Application (IND) 2.2 New Drug Application (NDA) 2.3 Abbreviated New Drug Application (ANDA) 2.4 FDA approval process	02 Hours
3.	Clinical Research-Related Guidelines 3.1 Stages of Clinical trials 3.2 Regulation of clinical trials	01 Hour
4.	ICH Q8 stability studies 4.1 Global Harmonization Initiatives 4.2 ICH for better health and accelerated stability testing 4.3 Q8 stability guidelines	01 Hour
5.	Tech Transfer stages with WHO guidelines 5.1 Tech transfer process and team 5.2 WHO guidelines for Technology Transfer 5.3 TT agencies in India	02 Hours
	Total Hours	07 Hours

Upon completion of this module students will able to

- **MO1:** Discuss the functions of global regulatory bodies & importance of clinical research
- **MO2:** Describe the concepts of NDA, ANDA & ICH
- **MO3:** Understand the stages of tech transfer in industrial innovations

Module 2: Vital Documentation

SI No	Value added Topic	Duration
1.	Product lifecycle management 1.1 Pre-formulation aspects 1.2 Development stages 1.3 Pre-submission Auditing 1.4 Validation batches	02 Hours
2.	Calibration & Validation reports 2.1. ICH & WHO guidelines for calibration of equipments 2.2 ICH & WHO guidelines for validation of equipments 2.3 Validation Master Plan (VMP)	03 Hours
3.	Audits & Inspections 3.1 Types of audits in Pharmaceutical Industry 3.2 Classes of inspections 3.3 Preparation and management criteria	02 Hours
	Total Hours	07 Hours

Upon completion of this module students will able to:

- **MO1:** Comprehend the stages of product development guide
- **MO2:** Understand the calibration and validation of equipment
- **MO3:** Admire the importance of audits and inspections for industries

Module 3: Regulatory aspects of Medical Devices and cosmetics

Sl No	Value added Topic	Duration
1.	Essential principles of medical devices 1.1 CDSCO FAQs for Medical Devices 1.2 Medical Devices sector and components 1.3 Regulatory pathway from development to commercialization	03 Hours
2.	Regulatory provisions & licensing conditions in cosmetic sale & manufacturing 2.1 Requirements of factory premises 2.2 Conditions for obtaining license	01 Hour
3.	COSMOS Standards 3.1 Objectives of COSMOS – standard 3.2 Origin and processing of ingredients	02 Hours
	Total Hours	07 Hours

Upon completion of this module students will able to

- **MO1:** Visualise the development of medical device as a commercial product
- **MO2:** Know the requirements to obtain cosmetic manufacturing and exports

Module 4: e-Governance for regulations in India

Sr No	Value added Topic	Duration
1.	Introduction to the SUGAM Portal - An e-Governance solution for CDSCO 1.1 Cosmetic registrations, Blood bank licenses, State FDA manufacturing site approval, BA/BE application, clinical trial registration, drug/device approvals, with medical device and diagnostics approval US (FDA- Food and Drug Administration) 1.2 Steps for registration and online payment of fees & fines to the CDSCO for various purposes. 1.3 An introduction to the User Manual for Post Approval Change (BA/BE Export Division) at CDSCO 1.4 Online Process demonstration for Import of drugs for Personal Use - Form12A 1.5 Method to upload manufacturing sites, formulation Data & State FDA	09 Hours
	Total Hours	09 Hours

Upon completion of this module students will able to

- **MO1:** Use SUGAM portal for registration and license activities in India

Total Course Duration: 30 Hours

TEACHING METHODOLOGY & EVALUATION

- **Professional Activities, Learning Resources and Assessment**
- **Suggested Class Room Activities**
 - FAQs, Case studies, Assignment, Group Discussions
- **25% Formative assessment:**
 - 20% marks will be awarded on the basis of an average of two assignments given in the course (05 Marks)
 - 40% marks will be given on the basis of discussion (10 Marks)
 - 40% marks will be awarded on the basis of an objective / subjective test (10 Marks)

75% summative assessment:

- End term exam of 75 marks will be conducted to award 75% of the total exam score. Exam Score: 40% passing criterion will be based on Formative assessment plus Summative assessment scores.
- Attendance: 80% attendance is compulsory to complete this course.

ELIGIBILITY & OTHER RELEVANT INFORMATION

- **Eligibility:** Students pursuing B. Pharm 6th semester
- **Duration:** 30hrs of lectures spread over 3 Months
- **Fees/Charges:** The course is offered to the students free of cost
- **Added Benefits for the Participating Students:**
 - Attain transferable skills needed to build successful careers in a variety of sectors requiring regulatory affairs expertise and training

- Nurture dedication to safeguard public health while ensuring the safety and effectiveness of various products
- Learn group discussion skill

CAREER OPPORTUNITIES

- Regulatory Affairs Officer
- Junior Regulatory Associate
- Clinical research Co-ordinator
- Drug Safety Specialist

REGULATORY GUIDELINES FOR PHARMACEUTICAL PRODUCTS: An e-governance perspective

Recommended Books and E-References:

1. FDA regulatory affairs: a guide for prescription drugs, medical devices, and biologics.
Edited By Douglas J. Pisano, David Mantus
2. Clinical Trials and Human Research: A Practical Guide to Regulatory Compliance By
Fay A. Rozovsky and Rodney K. Adams
3. Medical Devices Division, Central Drugs Standard Control Organization, Ministry of
Health and Family Welfare, Govt. of India; Doc No.: CDSCO/FAQ/MD/01/2024
4. Generic Drug Product Development, Solid Oral Dosage forms, Leon Shargel and
Isader Kaufer, Marcel Dekker series, Vol.143
5. The Pharmaceutical Regulatory Process, Edited by Ira R. Berry and Robert P. Martin,
Drugs and the Pharmaceutical Sciences, Vol.185, Informa Health care Publishers
6. <http://www.fda.gov/>
7. <http://www.cdsc.nic.in/>
8. <https://www.tga.gov.au/tga-basics>
9. <https://www.canada.ca/>
10. The Basics of Pharmaceutical Regulatory Affairs, Aman Kumar Subudhi

11. Journal of Applied Pharmaceutical Science 02 (03); 2012: 129-138; Stability Testing of Pharmaceutical Products - Sanjay Bajaj, Dinesh Singla and Neha Sakhuja
12. Handbook of Pharmaceutical Sect:2. 15 Generic Development; Chapter2, Product Development Guide
13. WHO Expert Committee on Specifications for Pharmaceutical Preparations. Forty-second report. Geneva, World Health Organization, 2008 (WHO Technical Report Series, No. 948)
14. ICH Draft Consensus Guideline. Pharmaceutical Quality System. Q10. Geneva, ICH Secretariat, 2008 (<http://www.ich.org/LOB/media/MEDIA3917.pdf>, last accessed 27 July 2010)



Enrollment Form Format

Name:

Branch of Health Sciences:

Name of the College and Address:

I would like to enroll / be informed about course

By Post / E-mail / SMS

Mobile No:

E-Mail ID:

Postal Address

Signature of the participant:

Forwarded by Head of the Institution

Signature and seal



**KLE ACADEMY OF HIGHER EDUCATION
AND RESEARCH
BENGALURU**

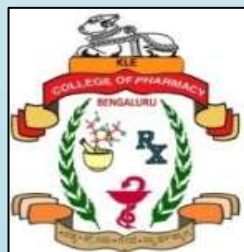


Reaccredited 'A+' Grade
by NAAC
Placed in category 'A' by MHRD, Govt. of
India

**Value Added
Courseon**

**FUNDAMENTAL OF
PRECLINICAL STUDIES And
SCIENTIFIC WRITING 2024**

Organized by



**KLE College of Pharmacy,
BENGALURU
(NAAC & NBA Accredited)
2nd Block, Rajajinagar,
Bengaluru – 560010, Karnataka**

KLE Society (Karnataka Lingayat Education Society) was started in 1916 by a group of young dedicated teachers and patrons. This Society aims to empower people through education and is well recognized for its quality education and health care services. Today, KLE Society manages around 293+ institutions with 1.38+ lakh student strength, and 18000+ employees offering world-class education in Healthcare, Pharmacy and paramedical sciences, Engineering, Management, Law and Agriculture. The educational services include School, Pre-University, Graduate and Post Graduate education. **KLE Academy of Higher Education and Research** is sponsored by KLE Society was established in Belagavi in 2006 to highlight the Society's commitment to healthcare and Science education. KAHER is recognized by University Grants Commission (UGC), reaccredited "A+" grade by NAAC and placed in category "A" by MHRD, Govt. of India. KAHER provides internationally accepted education and healthcare practices, with impetus on research. University takes immense pride in its top-class faculty, curriculum and well-equipped infrastructure. The institutions of Medicine, Dentistry, Physiotherapy, Nursing, Pharmacy and Ayurveda are under the ambit of this university.

KLE College of Pharmacy, Bengaluru was the first private institution in Bangalore to offer a professional Diploma course in Pharmacy in 1976. The college introduced B. Pharm degree course in 1992 and post-Graduation in 2003, Doctoral Degree from 2005 and Pharm.D. from 2014. B. Pharm degree course was reaccredited in 2021 for 6 years by NBA, New Delhi.

About the course:

Preclinical research includes In vitro, In vivo, Ex vivo, and in silico studies to obtain basic information about the safety and biological efficacy of a drug candidate. Preclinical research helps to identify potential organ toxicities, investigate dose response relationship and safety margins with respect to planned clinical doses. To bridge the gap in the existing syllabus, this value-added course was proposed and it mainly focus on important theoretical and practical aspects of preclinical research, which also includes analysis, compilation and reporting of scientific data. It helps to acquire knowledge of drug discovery and scientific writing and communication.

Objective:

- Preclinical research aims at providing information about safety and efficacy of a drug candidate before testing it in humans.
- Provide a basic understanding of In vitro, In vivo, Ex vivo, and in silico studies
- Provide a laboratory hand on practice and gain knowledge of In vitro assay (anti-oxidant property and enzyme inhibition assay) and estimation of biochemical parameters.
- Provide guidelines for protocol and manuscript writing

Resource persons:

- Faculty of Department of Pharmacology and Toxicology, KLE College of Pharmacy, Bengaluru

Chief Patron

Dr. Prabhakar B. Kore,
Hon. Chancellor, KLE University, Belagavi

Patron

Dr. Nitin Gangane
Hon. Vice-Chancellor
KLE Academy of Higher Education and Research (Deemed to be University)

Chief Coordinator

Dr. Rajamma A.J
Principal,
KLE College of Pharmacy, Bengaluru

Program Coordinators

Dr. Hariprasad M.G.
Head of the Department of Pharmacology and Toxicology
KLE College of Pharmacy, Bengaluru
E-mail: hariprasadm2004@yahoo.com
Mobile:9845117850

Mr. Rajashekar s chavan
Assistant Professor Department of Pharmacology and Toxicology
KLE College of Pharmacy, Bengaluru
E-mail:rajashekarchavan18@gmail.com
Mobile:9739338050,8904968759

- Specialized resource persons from
- ### Topics:

- Introduction to In vitro, In vivo, Ex vivo, and in silico studies
- Neuropsychiatric disorders and its biomarkers.
- Metabolic disorders and its biomarkers
- Alternate to animal models.
- Protocol design and writing
- Scientific writing (Manuscript writing)

Career Prospects:

- Preclinical research and development
- Drug Metabolism and Pharmacokinetics Research scientist
- Research Associate (pre-clinical pharmacology and Toxicology)
- Scientific data analyst
- Project specialist
- Scientific writer

Eligibility:

Students of B Pharmacy, PharmD, BAMS, UG-Ayurveda, MSc Clinical Research and other allied sciences of health science institutes who have genuine interest in Toxicological studies and Safety Pharmacology.

Final grading and evaluation

On the basis of formative, summative and continuous mode assessment which includes submission assignment, report and presentation.

Schedule: June-August 2024

Classes: 2 Hrs. per week Please contact the Program Coordinators for further details:

**CERTIFICATE COURSE IN FUNDAMENTALS OF PRECLINICAL
STUDIES AND SCIENTIFIC WRITING
CONDUCTED AT**

KLE COLLEGE OF PHARMACY, BENGALURU

(Certified By KLE Academy of Higher Education and Research)

Course Name: Fundamentals of Preclinical studies and Scientific Writing

Preclinical research includes *In vitro*, *In vivo*, *Ex vivo*, and *In silico* studies to obtain basic information about the safety and biological efficacy of a drug candidate. Preclinical research helps to identify potential organ toxicities, investigate dose response relationship and safety margins with respect to planned clinical doses.

To bridge the gap in the existing syllabus, this value added course was proposed and it mainly focus on important theoretical and practical aspects of preclinical research, which also includes analysis, compilation and reporting of scientific data. It helps to acquire knowledge of drug discovery and scientific writing and communication.

KLE College of Pharmacy, Bengaluru, offers the Certificate course in Fundamental of Preclinical studies, empowering the candidates with all necessary theoretical and practical knowledge of the course content.

Objectives:

- ✓ Preclinical research aim at providing information about safety and efficacy of a drug candidate before testing it in humans.
- ✓ Provide a basic understanding of *In vitro*, *In vivo*, *Ex vivo*, and *In silico* studies
- ✓ Provide a laboratory hands on practice and gain knowledge of *In vitro* assay (anti-oxidant property and enzyme inhibition assay) and estimation of biochemical parameters.
- ✓ Provide guidelines for protocol and manuscript writing

Course outcome:

- ✓ Understand principles of preclinical research
- ✓ Describe pathophysiological features of Neuropsychiatric disorders, metabolic disorders and identification of their biomarkers.
- ✓ Illustrate Alternate to animals (*In silico*, *In vitro*)
- ✓ Appraise frame work of protocol and manuscript writing
- ✓ Understand and correlate practical skills of preclinical *In vitro* studies

Eligibility	Duration	Programme Convener	Programme coordinator
B.Pharm (During 3 rd Yr or 4 th Yr) /	3 months certification course	Dr. Rajamma AJ Principal, KLECOP.	Dr. Hariprasad M.G. Professor & HOD, KLECOP, Bengaluru Mr. Rajashekar S chavan Asst.Prof, KLECOP, Bengaluru

Here are a few potential preclinical studies career opportunities:

- Preclinical research and development
- Drug Metabolism and Pharmacokinetics Research scientist
- Research Associate (pre-clinical pharmacology and Toxicology)
- Scientific data analyst
- Project specialist
- Scientific writer

Course content:

1. Introduction to *In vitro*, *In vivo*, *Ex vivo*, and *In silico* studies
2. Neuropsychiatric disorders and its biomarkers.
3. Metabolic disorders and its biomarkers
4. Alternate to animal models.
5. Protocol design and writing
6. Scientific writing(Manuscript writing)

Module	Contents	hrs
MODULE 1 Theory	• Introduction to <i>In vitro</i> , <i>In vivo</i> , <i>Ex vivo</i> , and <i>In silico</i> studies	04
MODULE 2 Theory	• Neuropsychiatric disorders and their biomarkers	06
MODULE 3 Theory	• Metabolic disorders and their biomarkers	06
MODULE 4 Theory	• Alternate to animals <i>In silico</i> approach (virtual Screening) <i>In vitro</i> (Cell line studies)	04
MODULE 5 Theory	• Protocol design and writing Introduction, Aim and objective, Methodology, Ethical consideration, Research outcome, References	04
MODULE 6 Theory	• Scientific writing Writing and communication of Review article and Research article	04
MODULE 7 Practical	• <i>In vitro</i> Assay: Acetylcholinesterase activity Assay and Antioxidants, LPO Assay	06
MODULE 8 Practical	• <i>In vitro</i> Assay: a. Enzyme inhibition studies (Lipase, alpha amylase and alpha glucosidase inhibition) b. Biochemical estimation: Lipid profile, Liver function tests, renal function tests, OGTT and selected biomarkers of metabolic disorders.	06
*****Note	➤ Where ever applicable, ethical clearance will be obtained ➤ Wherever applicable, <i>Gallus domesticus</i> will be used	

VALUE ADDED COURSE

COMMUNICATION IN CLINICAL RESEARCH

The students from Doctor of pharmacy programme have the knowledge of clinical and pharmacotherapy of the patients with diseases/disorders. Such knowledge is to be integrated while conducting the research in area of pharmacy practice. Therefore, learning communication concepts is prudent in designing, conducting and presentation of the research work to healthcare professionals as clinical pharmacist is one of the core team members of the healthcare system.

COURSE DURATION: 3 MONTHS
(36 HOURS)

WHO IS
ELIGIBLE?

Pharm D.
5th Year

COURSE CONTENTS:

THEORY

- Introduction to communication in clinical research
- Methods of clinical research
- Application of communication for collection of evidence documents
- Communication skills in designing of clinical research protocol
- Clinical study data compilation and integration
- Preparation and presentation of clinical study outcome

PRACTICAL

- To learn the components of clinical research methodology.
- To learn ways of collecting evidence documents for designing the clinical study proposal
- To learn about designing of clinical research protocol.
- To learn about compilation and presentation of clinical research data
- To learn about discussion of research data collected from the clinical study
- To learn about the presentation of clinical research completed

OBJECTIVES OF THE COURSE:

- To understand about the communication in the collection of evidence documents for clinical study
- To design and integrate the results of clinical studies using communication skills
- To learn about presentation of the results of clinical studies using communication skills

OUTCOME OF THE COURSE:

- Able to collect the evidence documents depending on clinical study question
- Able to design and integrate the research results of clinical study
- Able to present the research work to potential healthcare professionals

CAREER OPPORTUNITIES



Medical writing



Pharmacovigilance



Clinical Research



Medical Liaison

KLE College of Pharmacy, Bengaluru
A Constituent Unit Of KLE Academy Of Higher
Education And Research, Belagavi

Value Added Course on
In-Silico Drug Design

Offered By-
Department of Pharmaceutical Chemistry
KLE College of Pharmacy, Bengaluru
2nd Block Rajaji Nagar, Bengaluru (080 2332 4529)

Value Added Course on

IN-SILICO DRUG DESIGN

Preamble

In the dynamic landscape of modern medicine and pharmaceutical research, the emergence of in-silico drug design stands as a pivotal and transformative discipline. This rapidly evolving field harnesses the power of computational tools and cutting-edge technologies to revolutionize the way we discover, design, and develop pharmaceutical compounds.

The In-Silico Drug Design Value-Added Course is designed to be a beacon of knowledge and innovation in this exciting domain. Rooted in the fusion of computational science, biology, chemistry, and healthcare, this course aims to equip learners with the skills and insights needed to navigate the complexities of drug discovery in the digital age.

As we embark on this educational journey, we recognize the pressing need to address the challenges of our time. The rising demand for novel therapeutics, the imperative of personalized medicine, and the quest for faster and more cost-effective drug development solutions are driving the importance of in-silico drug design to unprecedented heights. This course seeks to bridge the gap between theory and practice, empowering participants to contribute to groundbreaking advancements in drug discovery.

Our commitment to excellence is underpinned by several key principles:

1. **Interdisciplinary Expertise:** We believe that the intersection of diverse disciplines is where innovation thrives. Our course draws from the expertise of computational scientists, biologists, chemists, and pharmaceutical professionals to provide a holistic learning experience.
2. **Cutting-Edge Technology:** In the era of artificial intelligence, machine learning, and high-performance computing, we are dedicated to delivering hands-on training that leverages the latest tools and techniques. Participants will gain proficiency in state-of-the-art software and methodologies.
3. **Ethical and Responsible Practice:** We emphasize the importance of ethical considerations in drug design. Our curriculum addresses the ethical and regulatory challenges associated with in-silico drug discovery to ensure that learners develop a strong sense of responsibility in their research and development endeavors.

4. **Collaboration and Networking:** In the spirit of open science, we encourage collaboration and knowledge-sharing among participants. Our course fosters a supportive community where learners can exchange ideas, collaborate on projects, and build lasting professional networks.
5. **Real-World Applications:** Practicality is at the heart of our course. Through case studies, hands-on exercises, and industry insights, participants will gain the practical skills and knowledge necessary to make a meaningful impact in the field.

The In-Silico Drug Design Value-Added Course is not just an educational endeavor but a journey of exploration and innovation. We invite learners from diverse backgrounds who are passionate about transforming the future of healthcare through computational drug discovery. Together, we aim to unlock the full potential of in-silico drug design and usher in a new era of precision medicine, where groundbreaking therapeutics are just a click away.

Scope

The scope of an in-silico drug design value-added course is broad and holds significant relevance in the fields of pharmaceutical research, healthcare, and biotechnology. Such a course can provide participants with valuable skills and knowledge that can be applied in various professional settings like Pharmaceutical research and Development, Bioinformatics and Computational Biology, Data Science and AI in Healthcare etc.

Objectives

The objectives of an in-silico drug design value-added course are

- To provide participants with a comprehensive understanding of the principles, techniques, and practical applications of in-silico drug design.
- To equip learners with the knowledge and skills necessary to contribute effectively to drug discovery and development using computational methods.

Outcomes

Upon the completion of course students shall able to:

1. Explain the process of drug discovery and drug design.
2. Discuss about various approaches used in Insilico drug designing.
3. Describe the role of molecular docking, virtual screening, Pharmacophore mapping and Homology modeling in drug discovery and development.
4. Discuss and able to handle various software, servers and databases used in drug design.
5. Understand the Real-world applications and challenges faced in drug discovery process by industry experts or academicians.

Future Prospects and Job Opportunities

- ✓ Drug Discovery Research
- ✓ Computational Chemistry
- ✓ Bioinformatician
- ✓ Data Scientist in Healthcare

Course Content

30 Hours

MODULE No.	TITLE OF THE MODULE	DURATION (HOURS)
I	Introduction to In-Silico Drug Design	6
II	Molecular Docking	6
III	Pharmacophore Mapping	6
IV	Hands on Training on Software	6
V	Industry Insights and Guest Lectures	6

Modules Wise Content

Module-I	In-Silico Drug Design	6 Hours
1	Overview of Drug Discovery and Development Process	1 Hour
2	Approaches of Drug Design	1 Hour
3	Types of in-silico methods: Molecular docking, Virtual screening, Pharmacophore mapping, QSAR ADMET prediction, Homology modeling.	1 Hour
4	Network Pharmacology: Overview	1 Hour
5	Software tools and databases used in silico drug design	1 Hour
6	Future of in-silico Drug design- Introduction to Artificial intelligence and Machine learning	1 Hour

Module Outcomes:

Upon the completion of this module students will be able to:

1. Explain the basic concepts of Drug Discovery and Drug Design.
2. Discuss about virtual screening techniques and network pharmacology.
3. Discuss about Artificial Intelligence and Machine Learning

Module II	Molecular Docking	6 Hours
7	Introduction	1 Hour
8	Molecular Docking approaches	1 Hour
9	Target Identification and Target preparation	1 Hour
10	Ligand Preparation	1 Hour
11	Molecular Docking Process, Result Analysis and Prediction of Binding site	1 Hour
12	Virtual screening methodologies using Docking approach	1 Hour

Module Outcomes: Upon completion of this module the students will be able to:

1. Describe the approaches of molecular docking.
2. Outline the steps involved in molecular docking.
3. Identify drug like candidates by performing molecular docking.

Module III	Pharmacophore Mapping	6 Hours
13	Definition and significance of Pharmacophores	1 Hour
14	Role of Pharmacophores in drug design	1 Hour
15	Types of Pharmacophore features (e.g., hydrogen bond donors/acceptors, aromatic rings)	1 Hour
16	Pharmacophore hypothesis generation	1 Hour
17	Validation and refinement of pharmacophore models	1 Hour
18	Virtual screening methodologies using Pharmacophore models	1 Hour

Module Outcomes: Upon completion of this module the students will be able to:

1. Describe the approaches of Pharmacophore mapping.
2. Outline the steps involved in Pharmacophore mapping.
3. Identify drug like candidates by performing Pharmacophore based virtual Screening.

Module-IV	Hands on Training on Softwares	6 Hours
19	Drawing chemical Structures(Chemdraw/Chemsketch) and retrieval 3D structure of Protein from Protein databank and its analysis	1 Hour
20	Drug Likeness, ADME and bioavailability Screening(Molsoft/Swiss ADME)	1 Hour
21	Insilico toxicity prediction(Protox-II)	1 Hour
22	Pharmacophore mapping(Ligandscout/Pharmamapper)	1 Hour
23	Homology modeling(Modeller)	1 Hour
24	Molecular Docking and Results analysis (Molegro/CB dock/Swiss Dock etc.) and virtual screening(VSTH server/drug like server)	1 Hour

Module Outcomes: Upon completion of this module students will be able to:

1. Handle basic and advanced tools of Drug Design.
2. Evaluate drug like molecules on the basis of their physicochemical, pharmacokinetic properties, toxicity and binding interactions.

Module-V	Industry Insights and Guest Lectures	6 Hours
25	Invited talks by experts from pharmaceutical industry and academia	2 Hour
26	Real-world applications and challenges faced in drug discovery	2 Hour
27	Interactive sessions with professionals involved in computational drug design	2 Hour

Module Outcomes: Upon completion of this module the students will be able to:

1. List out real-world applications and challenges faced in drug discovery.
2. Exposure to practical in-silico drug design methods and tools.

Reference Books:

1. Smith HJ, Williams H, eds, "Introduction to the principles of Drug Design" Wright Boston.
2. Silverman R.B. "The organic Chemistry of Drug Design and Drug Action" Academic Press New York.
3. Robert GCK, ed., "Drug Action at the Molecular Level" University Park Press Baltimore
4. Martin YC. "Quantitative Drug Design" Dekker, New York.
5. Delgado JN, Remers WA eds "Wilson & Gisvolds's Text Book of Organic Medicinal & Pharmaceutical Chemistry" Lippincott, New York.
6. Foye WO "Principles of Medicinal chemistry 'Lea & Febiger.
7. Koro lkovas A, Burckhalter JH. "Essentials of Medicinal Chemistry" Wiley Interscience.
8. Wolf ME, ed "The Basis of Medicinal Chemistry, Burger's Medicinal Chemistry" John Wiley & Sons, New York.
9. Patrick Graham, L., An Introduction to Medicinal Chemistry, Oxford University Press.

Eligibility: B. Pharm (III & IV Year) and PG Students

Duration: 30 Hours

Added Benefits for the Participating Students:

- Hands on training
- Certificate of course completion
- Exposure to computational chemistry labs
- Post training
- Assistance to conduct project work related to course

Course Coordinator:

Dr. Priyanka Kamaria
Assistant Professor, Department of Pharmaceutical Chemistry
KLE College of Pharmacy, Bangalore

Contact Details:

Dr. S. S. Karki
HOD, Department of Pharmaceutical Chemistry
KLE College of Pharmacy, Bangalore
Contact No.- 9448017123
E mail id- subhasskarki@gmail.com

Dr. Rajamma AJ
Principal
KLE College of Pharmacy, Bangalore
Contact No.- 9731016717
E mail id-
abburjayaramu6@gmail.com



KLE ACADEMY OF HIGHER EDUCATION & RESEARCH
Accredited "A" Grade by NAAC (2nd Cycle) & Placed in Category "A" by MHRD (GoI)
INSTITUTE OF PHYSIOTHERAPY
BELAGAVI - KARNATAKA



Value Added Course
on
COMMUNICATION SKILLS





Value Added Course on Communication Skills

PREAMBLE

Communication skills is a training program for individuals to develop their interpersonal skills and build rapport with others in the community. It covers effective communication strategies to enhance understanding all forms of communication with others.

OBJECTIVE

To communicate and pass the information to others, accept the messages from others and get the work done by understanding the communication aptly

DURATION : 2 days (16 hours)

MEDIUM OF INSTRUCTION : English

FREQUENCY : Twice a Year

No. of Seats : 100

CONTENT

- Definition of Communication Skills
- Modes of Communication
- Types of Communication
- Code and Content of Communication Skills
- Stimulus and response of Communication Skills
- Effective Public Speaking
- Ethics in Communication
- Assessment of Communication Skills



KLE ACADEMY OF HIGHER EDUCATION & RESEARCH
Accredited "A" Grade by NAAC (2nd Cycle) & Placed in Category "A" by MHRD (Govt)
INSTITUTE OF PHYSIOTHERAPY
BELAGAVI - KARNATAKA



Value Added Course
on
Stress Management





Value Added Course on Stress Management

PREAMBLE

Stress in day- today life is a common concern and has implications on quality of life and health parameters. Difficulty/inability to manage work life matters causes stress in students. Identification and managing stress early will benefit the mental and physical health of students. Hence, this course has been planned/designed to help students identify and manage stress during their academic life and in turn apply the same in later life

OBJECTIVE

- To understand the nature and impact of stress on health and behavior.
- To identify signs of stress.
- To understand the impact of stress on physical and mental health.
- To understand and practice different methods to minimize and overcome the effects of stress.
- Apply these methods in life situations.

DURATION : 2 days (16 hours)

MEDIUM OF INSTRUCTION : English

FREQUENCY : Twice a Year

No. of Seats : 100

CONTENT

- Definition and types of stress
- Stress assessment
- Stress management
- Anger management



KLE ACADEMY OF HIGHER EDUCATION & RESEARCH
Accredited "A+" Grade by NAAC (3rd Cycle) & Placed in Category "A" by MoE (Gol)
INSTITUTE OF PHYSIOTHERAPY
BELAGAVI - KARNATAKA



VALUE ADDED COURSE ON ENTREPRENEURSHIP





Value Added Course on Entrepreneurship

PREAMBLE

➔ Entrepreneurship plays an influential role in the economic growth and development of the country. As the world economy is changing so is the dynamism of the business world. The aim of this course is to instill and kindle the spirit of Entrepreneurship amongst students. The idea of this course is to create “job providers rather than job seekers”.

OBJECTIVE

- ❖ To develop Entrepreneurial mindset among students and to enable students to appreciate the dynamic changes happening in the economy.
- ❖ To acquaint the students about the role of Entrepreneurship in the growth and economic development of the nation and types of Entrepreneurship
- ❖ To promote Entrepreneurship as life-skills to improve quality of life, skills of creation and management of entrepreneurial pursuits.

DURATION : 15 hours

MEDIUM OF INSTRUCTION : English

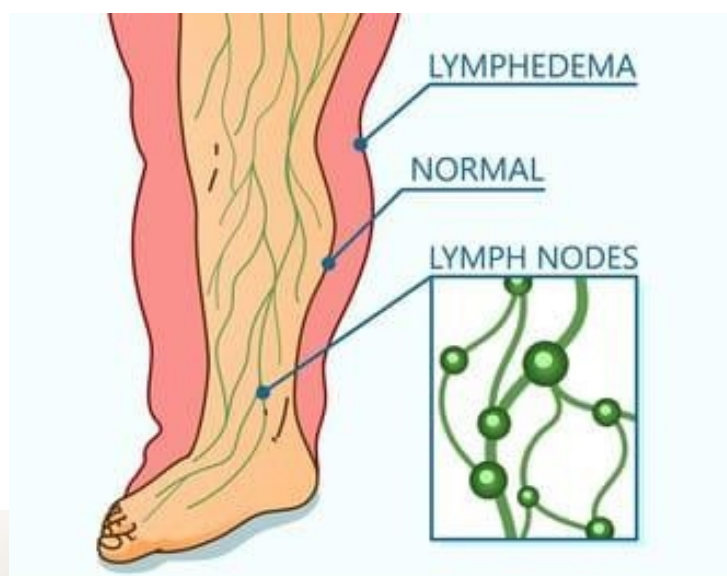
FREQUENCY: Once a year

No. of Seats : 50

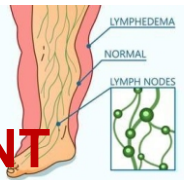
CONTENT

- ➔ Introduction to Entrepreneurship
- ➔ Concept and Functions
- ➔ Types of Entrepreneurs
- ➔ Factors influencing entrepreneurship
- ➔ Organization Forms
- ➔ Idea generation

VALUE ADDED COURSE ON INTRODUCTION TO LYMPHEDEMA MANAGEMENT



VALUE ADDED COURSE ON INTRODUCTION TO LYMPHEDEMA MANAGEMENT



PREAMBLE

- Lymphedema is a common complication in medical conditions like cancer which is preventable in the early stages. Therefore this value added course will add on to the basic knowledge of prevention and treatment of lymphedema with exercises and bandaging

OBJECTIVE

- ❖ Identify the components of the lymphatic system and its function.
- ❖ Identify indications and contraindications for Manual Lymph Drainage (MLD) and Complete Decongestive Therapy (CDT).
- ❖ Able to perform MLD sequences and apply compression bandaging for patients with upper and lower extremity lymphedema

DURATION : 15 hours

MEDIUM OF INSTRUCTION : English

TARGET AUDIENCE: BPT Interns

FREQUENCY: Once a year

No. of Seats : 20 Physiotherapy Interns

CONTENT

- Anatomy, physiology and pathology of the lymphatic system.
- Introduction to Lymphedema.
- Comprehensive Lymphedema assessment.
- Remedial exercises and skin care.
- Multilayer bandaging techniques.
- Principles and application of manual lymphatic drainage.
- Home maintenance program.



KLE ACADEMY OF HIGHER EDUCATION & RESEARCH
Accredited "A+" Grade by NAAC (3rd Cycle) & Placed in Category "A" by MoE (GoI)
INSTITUTE OF PHYSIOTHERAPY
BELAGAVI - KARNATAKA



VALUE ADDED COURSE ON PRE PLACEMENT TRAINING



VALUE ADDED COURSE ON PRE PLACEMENT TRAINING

PREAMBLE

- ➔ The corporate world, as we all know is quite challenging and rewarding the same amount. In order to meet this exceptional demand one has to ensure no stone is left un-turned in supersizing oneself.
- ➔ This “Pre placement Training” Program specially designed to ensure our students are well equipped with knowledge and skill require to step outside in a competitive world

OBJECTIVE

- ❖ To bridge the gap that currently exists between the industry & fresh professionals.
- ❖ To build the logical and reasoning knowledge.
- ❖ Ability to handle pressure and stress during selection process.
- ❖ To have a professional profile.

DURATION : 15 hours

MEDIUM OF INSTRUCTION : English

TARGET AUDIENCE: BPT Interns and Post Graduates

MODE AND FREQUENCY: Hybrid Mode and once a year

No. of Seats : All interns and PGs admitted for the academic year

CONTENT

- ➔ Introduction To The Program
- ➔ Personal And Professional Goal Setting
- ➔ Aptitude Training-1
- ➔ Logical Training -1, Aptitude Training II
- ➔ Tips And Tricks To Build A Professional Profile
- ➔ Interview Skills
- ➔ Mock Interview



KLE ACADEMY OF HIGHER EDUCATION & RESEARCH
Accredited "A" Grade by NAAC (2nd Cycle) & Placed in Category "A" by MHRD (GoI)
INSTITUTE OF PHYSIOTHERAPY
BELAGAVI - KARNATAKA



Value Added Course
on
Life Skills Training



Value Added Course on Life Skills Training

PREAMBLE

Life skills are abilities for adaptive and positive behavior that enables humans to deal effectively with demands and challenges of life. WHO has identified 10 skills that are essential for an individual to live a productive and satisfying life. These are problem solving, critical thinking, empathy, managing/ coping with stress and emotions, communication skills, interpersonal; relationship skills, decision making, self-awareness. These are most essential for today's youth who face various challenges in everyday life due to societal pressure and self-confidence issues.

OBJECTIVE

- To understand different life skills and their importance
- To understand and apply these skills and improve quality of life

DURATION : 2 days (16 hours)

MEDIUM OF INSTRUCTION : English

FREQUENCY : Twice a Year

No. of Seats : 100



CONTENT

- What are life skills? Why are they needed?
- Activities to understand various life skills
- How to apply/ use life skills in everyday life?



KLE ACADEMY OF HIGHER EDUCATION & RESEARCH
Accredited "A" Grade by NAAC (2nd Cycle) & Placed in Category "A" by MHRD (GoI)
INSTITUTE OF PHYSIOTHERAPY
BELAGAVI - KARNATAKA



Value Added Course on Interpersonal Relationship



Value Added Course on Interpersonal Relationship



PREAMBLE

- Interpersonal Relationship is an important component in managing relationship between any 2 persons
- Good relation between 2 persons improves output and avoids conflicts
- Interpersonal relationship requires effort to nurture & maintain to ensure smooth functioning in day to day life
- Interpersonal relationship helps to improve all aspects of life

This course is designed to imbibe good Interpersonal relationship in order to achieve high level of performance and output.

OBJECTIVE

To learn the concept of Interpersonal relationship for improving personal, social and behavioral aspects of individual

DURATION : 2 days (16 hours)

MEDIUM OF INSTRUCTION : English

FREQUENCY : Twice a Year

No. of Seats : 100

CONTENT

- Definition of Interpersonal relationship
- Behavior, attitude, ego
- Rapport
- Transactional activity
- Language
- Evaluation



KAHER
INSTITUTE OF NURSING SCIENCES



A Constituent of unit of
KLE Academy of Higher Education & Research (Deemed-to-be-University) Accredited 'A' Grade
by NAAC (2nd Cycle) Placed in Category 'A' by MHRD (Gol)
NEHRU NAGAR, BELAGAVI- 590010, KARNATAKA, INDIA Office: 091-831-2472303,
Fax: 091-831-2475103, Email: principalnursingbgm@yahoo.com Website:
<http://klenursingbgm.edu.in> Recognized by: Indian Nursing Council (New Delhi- Karnataka
Nursing Council (Bengaluru, Karnataka)

VALUE ADDED COURSE ON



PAIN MANAGEMENT

DEPARTMENT OF MEDICAL SURGICAL

NURSING

Name of the Course : "PAIN MANAGEMENT"

Aim of the Course : To enhance knowledge about the phenomenon of pain, pain alleviation by means of drugs and other methods and providing practice in pain measurement and documentation.

Objectives of the Course

- ❖ Prepares students for advanced practice roles as clinical experts.
- ❖ Apply theoretical, patho physiological and pharmacological principles and evidence base in implementing therapies /interventions in pain management.
- ❖ Students will be able to explain the origin of pain and different mechanism of pain treatments.
- ❖ Identify, analyze and assess causes of pain and evaluate the patients nursing needs in and its treatment.
- ❖ Carry out nursing interventions independently and in cross professional co-operation to mitigate pain in the patient and document nursing interventions.

Duration of course : 3 months

Course Fees : Free for KAHER students

Class Schedule : Every Saturday from 2pm to 5pm

Eligibility : The course is open for all undergraduates

Medium of Instruction: English

Intake Capability : 100

OUR MISSION

Transforming birthing experience of millions



Latest

This is where you'll see which topics are in news right now.



Value added course on Psychosocial Rehabilitation

The main focus of rehabilitation is on: 1. Achieving as full a physical and



Session 1 - NSSK (Navjaat Shishu Suraksha Karyakram)

NSSK known as Navjaat Shishu Surakasha Karyakram is a training module



Continuous Support During Childbirth

Continuous support for women during childbirth is stated as a human right and



Basics of Breastfeeding Course

Audience: Healthcare workers and parents
Approximate Time: 1.5 hours Type of



Point of Learning

Point of Learning



VALUE ADDED COURSE

DIABETIC CARE NURSING

Nursing staff have an important role and clear responsibilities when treating patients with diabetes or who are having tests to diagnose diabetes. This role and associated responsibilities will be specified in local workplace guidance and policies and by each member of the nursing team's level of competence.

Course Objectives:

- Understand the concepts of Diabetic care nursing.
- To understand the effective treatment to normalize blood glucose and decrease complications.
- To stress the importance of complying with the prescribed treatment program.

COURSE OUTLINE

Sl.No	Content	Hours of Instruction	Teaching Methodology
1	Introduction	2 hour	1. Lecture cum Discussion 2. Presentations 3. Assignment Submission 4. Role plays
2	Classification & Pathophysiology	5 hours	
3	Epidemiology of Diabetes	5 hours	
4	Management	5 hours	
5	Prevention of complications & Rehabilitation	3 hours	
6	Practical	10 hours	
	Total	30 hours	

Duration: 30 Hours

Class Schedule: Every Saturday (3pm to 5 pm)

Intake: 30 per batch

Course Coordinator:

Mr. Sanjeev Badli
Senior Tutor
KAHER, INS, Belagavi

Contact Details:

Office: 0831-2472303

Mail: principalnursingbgm@yahoo.com

Name of the course: National Guidelines on Infant & Young Child Feeding

Aim of the course: To provide knowledge and skills for feeding of Infant and Young children.

Objectives of the course:

1. Enhance optimal IYCF in other exceptionally
2. Contribute to the prevention and reduction of childhood and maternal malnutrition
3. Promote, protect and support exclusive breastfeeding.

Duration: 30 hours

Periodicity of course: February, March and April Month of every year

Course fees: Free

Class schedule: Every Tuesday, Thursday and Saturday from 5pm to 6pm

Eligibility: The course is for all Bsc III Year (UG students)

Medium of instruction: English

Intake capacity: 100 per batch, 80% attendance to get Certificate

Contact Details of Course Coordinator:

Mr. Umesh Nandgaon

Asst. Professor

Department of Child Health Nursing
KAHER Institute of Nursing Sciences

Nehru Nagar, Belagavi - 590010, Karnataka State

Email: [klechn2020@gmail.com](mailto:klech2020@gmail.com) Phone No.: 9886219851

Department of Child Health Nursing

KAHER Institute of Nursing Sciences Belagavi



KLE ACADEMY OF HIGHER EDUCATION & RESEARCH

Accredited 'A' Grade by NAAC (2nd Cycle)

Placed in Category 'A' by MHRD (GoI)



INSTITUTE OF NURSING SCIENCES BELAGAVI

Department of Child Health Nursing

VALUE ADDED COURSE

ON

"NATIONAL GUIDELINES ON INFANT & YOUNG CHILD FEEDING"



VENUE: SEMINAR HALL, KAHER INS, BELAGAVI

Introduction to the Course:

Malnutrition undermines individual wellbeing, reduces national productivity, and is the result of direct and underlying causes in a variety of sectors, which are in turn dependent on wider economic, social and political factors. Infant and young child feeding (IYCF) programming is an intervention which can have a significant impact on reducing mortality and morbidity in young children of under nutrition and other related diseases. In fact, broad coverage of breastfeeding and complementary feeding interventions can reduce about 20% of deaths in young children. After focusing predominately on the management of acute malnutrition the nutrition strategies and plans highlighted the necessity and value of shifting the focus and/or parallel focus to more preventative programming and especially to IYCF.

The overall goal of the strategy is to improve through optimal feeding; the nutritional status, growth and development, health, and thus the survival of infants and young children.

Time Table for Value Added Course

From February 2022 to April 2022

Name of the Teacher	Date/Month	Tuesday	Thursday	Saturday
Mrs. Vaishali S.B (Unit I & V)	1,3,8 & 10 Feb	5-6	5-6	Feb 22, 24 & 19,21 April
Mr. Mahaling M (Unit II)	15 & 17 Feb	5-6	5-6	
Mr. Umesh N (Unit II)	3, 8 & 10 March	5-6	5-6	
Mrs. Priyanka G. (Unit III)	15, 22 & 24 March	5-6	5-6	
Mr. Gavi Salimath (Unit IV)	5, 7 & 12 April	5-6	5-6	

Future Prospects:

This value added course can be taken in addition to the current degree especially for UG (B.Sc. Nursing III year) students. Such a short course helps to update student's knowledge and skills. This course is a great way to fill the gaps in knowledge and give competitive edge.

Value Added Course on Lactation Counselor ON ASTRIKA

go.microsoft.com x Captive Portal x LCP excel - shwetadandagi22@g... x Aastrika x +

sphere.aastrika.org/page/home

What do you want to learn today ?

Latest
This is where you'll see which topics are in news right now.



सामान्य प्रसव और जन्म एवं ए.एम.टी.एस.एल आप गर्भावस्था, प्रसव और नवजात स्वास्थ्य और जटिलताओं के सैद्धांतिक प्रबंधन में एक सच्चे



सामान्य आपातकालीन स्थितियों (इमरजेंसी), जलने और टॉमा का प्रबंधन आशा अपने समुदाय में होने वाली आपात स्थितियों और टॉमा के प्रबंधन में महत्वपूर्ण



Value added course on Psychosocial Rehabilitation
The main focus of rehabilitation is on: 1. Achieving as full a physical and

Value Added Course on Lactation Counselor
Published On: Aug 18, 2022
Duration: 7h 12m
Author: INS KAHER
Source: KAHER Institute of Nursing Sciences

[View Course](#)

My Courses
These are the learning activities you've started but haven't finished yet. Ready to keep going?

Value Added Cour...xlsx Value Added Cour...xlsx Value Added Cour...xlsx Value Added Cour...xlsx lactation counsell...docx Show all

11:37 AM 30/08/2022

go.microsoft.com x Captive Portal x LCP excel - shwetadandagi22@g... x Aastrika x +

sphere.aastrika.org/app/toc/do_1134941664409272321316/contents?contentId=do_1134941664409272321316

What do you want to learn today ?

Value Added Course on Lactation Counselor
Duration : 7h 12m
Last updated on : Aug 18, 2022
Source: KAHER Institute of Nursing Sciences
Author : INS KAHER
Progress : 0 %

[Start](#) [Certificate](#)



Overview Contents License Discuss

Table of contents

Value Added Cour...xlsx Value Added Cour...xlsx Value Added Cour...xlsx Value Added Cour...xlsx lactation counsell...docx Show all

11:36 AM 30/08/2022



KLE INSTITUTE OF NURSING SCIENCES

A Constituent Unit of
KLE Academy of Higher Education and Research
(Deemed-to-be-University)

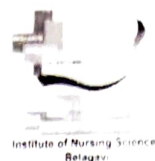
Accredited 'A' Grade by NAAC (2nd Cycle) Placed in Category 'A' by MHRD (GoI)

NEHRU NAGAR, BELAGAVI – 590010, KARNATAKA, INDIA

Office: 091- 831- 2472303, Fax: 091- 831- 2475103, Email: principalnursingbgm@yahoo.com

Website: <http://klenursingbgm.edu.in>

Recognized by : Indian Nursing Council (New Delhi) - Karnataka Nursing Council (Bengaluru, Karnataka)



Date: - 27/06/2022

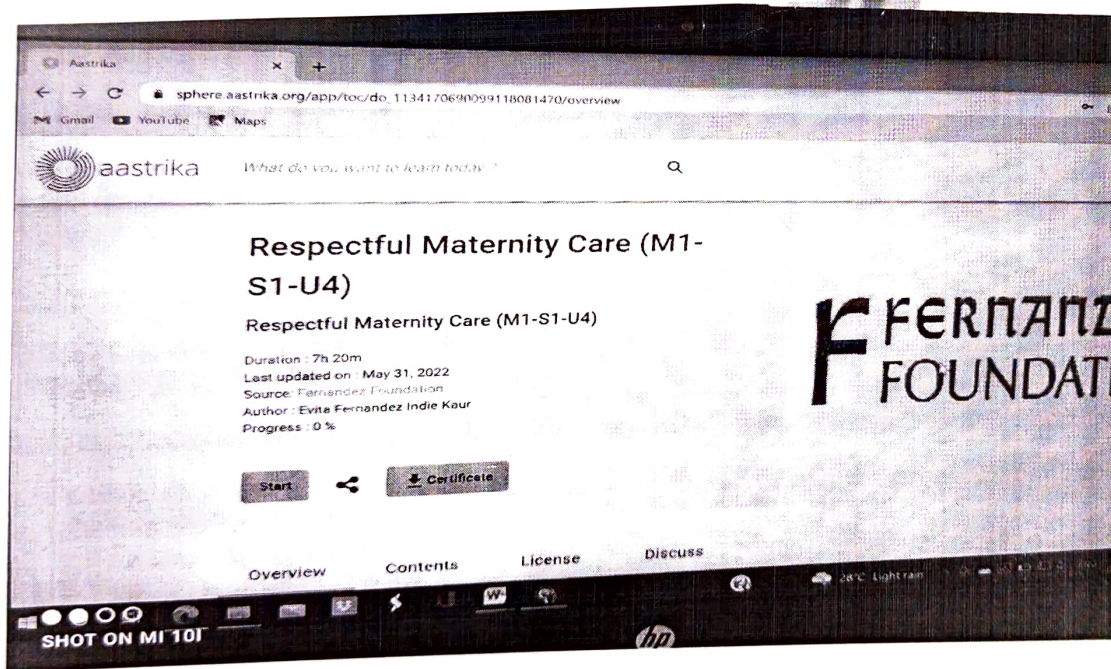
Report on Value added course “Respectful Maternity Care”.

Value added course on “**Respectful Maternity Care**” was offered by Department of OBG Nursing, KAHER Institute of Nursing Sciences, Belagavi on Aastrika Sphere online learning platform.

This module will enable students to be a part of the voice that advocates for women's rights during childbirth and learn how to provide compassionate care to the mother during childbirth which is the most vulnerable at the same time most joyous phase of her life.

The course is open for faculty and students of final year M.Sc. B.Sc. and GNM students. The theory was taught by using the module online and practical was taught during their clinical postings. The duration of the course is 30 hours. (7h 20m online module, 2h 30m videos and 20 hours Practical). The students have to complete the theory part before their postings to the clinical area. The evaluation and final grading were assigned to students based on their response to the questions after each module at Aastrika platform. An e-certificate will get generated after their successful course completion. Total 92 BSc students were benefited by the course. From KAHER Institute of Nursing Sciences, Belagavi.

Name of the Course	Name of the Department	Name of the Course Coordinator	Duration (hours)		Total Hours	No of Students form INS
			Theory	Practical		
Respectful Maternity Care	OBG Nursing	Mrs. Laxmi Kamat	10 (7h 20m online module, 2h 30m videos)	20	30	92



Co-Ordinator
Co-Ordinator
 KAHER INS, Belagavi

HOD
HOD
 KAHER INS, Belagavi

Principal
Principal
 KAHER INS, Belagavi

CERTIFICATE OF COMPLETION

Respectful Maternity Care (M1-S1-U4)
by Ujwala Gawde Pandurang
Completed On 2022-01-22





KLE UNIVERSITY'S HOMOEOPATHIC MEDICAL COLLEGE & HOSPITAL

(Recognized by "National Commission of Homoeopathy")

A Constituent Unit of
KLE Academy of

Higher Education & Research

(Deemed-to-be-University w/s 3 of the UGC Act, 1956)

YELLUR ROAD, BELAGAVI – 590 005.
Ph: 0831-2413863/2413862, Fax: 0831-2493777
www.klehomoeo.edu.in, e-mail:kleuhmc@gmail.com

VALUE ADDED COURSE ON

BASICS OF FOOD SCIENCE AND NUTRITION



Venue: Sushruta Hall,

KLE Centenary Charitable Hospital

CONTACT DETAILS:

Dr. Indira M. Kulkarni

Course Co-ordinator

Professor & HOD Dept of Repertory

M.D.(Repertory), C.F.N. M.S. in Counseling & Psychotherapy

Consultant Homoeopath Nutritionist and Counselor

College: 0831-2413863 email: kleuhmc@gmail.com

Mobile: 9448420974, drindirajoshi@gmail.com

Name of the course-

BASICS OF FOOD SCIENCE AND NUTRITION

- **Aim-** To educate the patients to consume a balanced diet that promotes stronger health and decreases the risk of nutrition-related diseases and promotes longevity of life.

• **Objectives-**

1. To define the food & nutrients and to understand the functions of food
 2. To know the classification of food, nutritive value, macronutrients-micronutrients and effects of deficiency of these nutrients
 3. To know the recommended dietary allowances for Indians and planning a balanced diet
 4. To understand the assimilation of food and its effects on growth and activity
 5. To know the nutritional requirements of a mother & child b. school age to old age
 6. To learn to design a diet chart and meal plan in different conditions
- **Duration of the course** - 25hrs
 - **Timing of the Course** - Friday 4:00pm to 5:00pm
 - **Eligibility Criteria-** UG Students, Interns, and PG's
 - **Resource Person-** Dr. Indira Kulkarni
 - **Future Prospects**
- Students will be trained to plan and design the diet charts as per the patients' health condition and understand the basic health issues related to food and nutrition deficiencies and act accordingly



KLE HOMOEOPATHIC MEDICAL COLLEGE & HOSPITAL

(Recognized by " National Commission of Homoeopathy ")

A Constituent Unit of
**KLE Academy of
Higher Education & Research**

(Deemed-to-be-University u/s 3 of the UGC Act, 1956)

YELLUR ROAD, BELAGAVI – 590 005.
Ph: 0831-2413863/2413862, Fax: 0831-2493777
www.klehomoeo.edu.in, e-mail:kleuhmc@gmail.com

VALUE ADDED COURSE ON PROFESSIONALISM AND HEALTH CARE ETHICS



**Venue: Sushruta Hall,
KLE Centenary Charitable Hospital**

CONTACT DETAILS:

Dr. Rinku Porwal

Course Co-ordinator

Associate Professor & HOD Dept of
Forensic Medicine and Toxicology

M.D.(Homoeopathy), DEMS, DIHM, C.F.N, Soft Skills and Personality
Consultant Homoeopath, Nutritionist and Counselor

College: 0831-2413863 email: kleuhmc@gmail.com

Mobile: 9916987766 , romagporwal@gmail.com

Name of the course-

PROFESSIONALISM AND HEALTH CARE ETHICS

Aim- Students Proficient to:

1. Ensure and Develop Polite behavior , better communication skill, better body language, ethical, humanistic, and interpersonal qualities that define the ideal healthcare provider
2. To bring about a compassionate, respectful, and trust-based doctor-patient relationship

Objectives-

1. Designing and developing a sense of self professional grooming techniques to suit the profession.
2. To bring in the politeness into ones behavior.
3. To learn and adopt verbal and non –verbal effective communication skills, which influence positive health outcomes.
4. Encouraging & developing the skill for patient listening (patience) for better diagnosis.
5. Setting standards to maintain secrecy of patient's data for better Social life of patients.
6. Setting standards for polite behavior and Mannerism.

• **Duration of the course -15 hrs**

• **Timing of the course- Tuesday**

4:00pm to 5:00pm

• **Eligibility Criteria-**

UG students, Interns and PG's

• **Resource Person-** Dr. Rinku Porwal

• **Future Prospects-** On completing the course on “Professionalism” the students can greatly enhance their personality by fostering key traits like responsibility, effective communication, and integrity. It will also help them to develop a strong work ethics and emotional intelligence, which are crucial for building leadership skills and maintaining productive relationships in both professional and personal settings.



KLE Academy of Higher Education &
Research, Deemed-to-be-University,

**KLE HOMOEOPATHIC MEDICAL COLLEGE
& HOSPITAL YELLUR ROAD
BELAGAVI – 590 005.**

Ph: 0831-2413863/2413862,

Fax: 0831-2493777

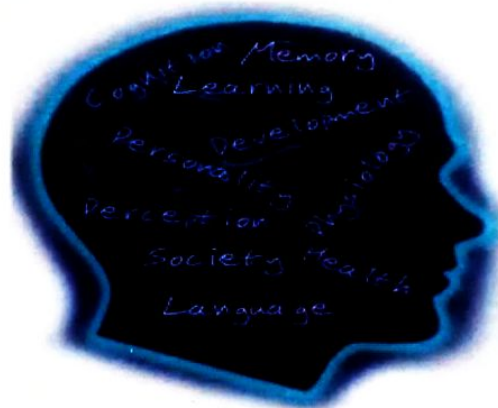
www.klehomoeo.edu.in

e-mail:kleuhmc@gmail.com

prinhomeo@kledeemeduniversity.edu.in

VALUE ADDED COURSE ON

COUNSELLING SKILLS FUNDAMENTALS



**Venue: Sushruta Hall
,KLE Centenary
Charitable Hospital**

Name of the course- COUNSELLING SKILLS FUNDAMENTALS

- **Aim-** The course aims to equip individuals with the fundamental knowledge and skills in counselling

- **Objectives-**

1. Delineate the key elements of successful helping
2. Analyze personal values that could impact the helping relationship
3. Demonstrate how to clarify key issues
4. Demonstrate attending skills
5. Demonstrate active listening skills and responding skills
6. Demonstrate the skill of probing
7. Demonstrate the skill of summarizing

- **Duration of the course -20 hrs**

- **Timing of the course-** Saturday 3:00pm to 5:00pm

- **Eligibility Criteria-**UG students, Interns, and PG's

- **Resource Person-** Dr. Antony Carvelho

- **Future Prospects**

The course will help the students understand human behavior at different stages, recognize behavioral problems and examine strategies for positive behavior, relate counselling theory to issues in counselling, develop an ethical approach to counselling.

Contact Details:

Dr. Rupali A. Telang M.D. (Hom)

Course Co-Ordinator,

**KLE HOMOEOPATHIC MEDICAL COLLEGE,
YELLUR ROAD, BELAGAVI.**

Email ID -kleuhmc@gmail.com

Ph no-0831-2413863



**KLE Academy of Higher Education and Research (KAHER)
Reaccredited 'A Grade' by NAAC (2nd cycle), Placed in
Category A by MHRD, GOI**

**Department of Microbiology,
Jagdaguru Gangadhar Mahaswamigalu Moorusaviramath
Medical College and
KLE's Suchirayu Hospital**

**VALUE ADDED COURSE: GOOD LABORATORY
PRACTICES(GLP)**

DEPARTMENT OF MICROBIOLOGY



COURSE CONTENT

TITLE	"Good Laboratory Practices"
TARGET GROUP	III/II MBBS Students

GOAL & OBJECTIVE OF THE COURSE	Clinical laboratory services play a vital role in patient care, diagnosis, treatment, prevention, and clinical research. NABL accreditation is important to ensure the quality and competence of laboratory testing. Good laboratory practices are the stepwise procedures/guidelines aimed at strengthening the quality of test results to ensure the reliability, integrity and provision of safe working environment for all laboratory personnel. Objectives of the course: ➤ To know the importance of NABL in Good clinical laboratory practices ➤ To learn about importance of quality control and Quality assurance. ➤ To understand the pre-analytical examination- steps of sample collection, sample package, sample transport and storage, sample acceptance and rejection criteria ➤ To understand Analytical examination – SOP's, handling of chemicals and spill management ➤ To understand Post Analytical examination- Reporting results and critical alerts in laboratory Course outcome: At the end of the successful completion of this course the student will be able to understand various factors affecting laboratory results and also will be able to correct interpretation of the laboratory data. The student will also understand how the clinical laboratory helps effectively to meet the requirements of the end users by systematic communication between the clinician and laboratory persons. Certificate will be awarded at end of course.
COURSE CONTENT:	Duration of the Course: The duration of the course will be of 16 hrs. Examination. Theory practical evaluation, skill based, OSPE stations
TEACHING – LEARNING METHOD	Each topic of this course will be introduced with lectures/videos/demonstration. Interactive sessions with the description of role of clinical microbiology laboratory in contribution towards the proper diagnosis, treatment and the follow up in various diseases.
PLANNED METHOD OF ASSESSMENT:	Examination: Theory practical evaluation, skill based, OSPE stations
INFRASTRUCTURE	Lecture hall & Clinical Microbiology laboratory services

TIME	Content	Time duration (in hours)
DAY-1		
9.30 – 10 AM	Pre-test evaluation	30min
10.00 am to 11.00 am	Importance of NABL in Good clinical laboratory practices	1 hr

11.00 am to 12.00 am	Quality control and Quality assurance.	1 hr
12.00 pm to 1.00 pm	Interactive session(Hands on activity)	1 hr
1pm-2pm	LUNCH	
2.00 pm to 4.00 pm	Pre-analytical examination- steps of sample collection, sample package, sample transport and storage, sample acceptance and rejection criteria	2 hr
4.00 pm to 5.30pm	Interactive session-Hands on activity & visit to central laboratory	1 hr
DAY-2		
9.00 am to 11.00 am	Analytical examination – SOP's, handling of chemicals and spill management	2 hr
11.00 am to 12.00pm	Interactive session-Hands on activity	1 hr
12.00 pm to 1.00 pm	Post Analytical examination- Reporting results and critical alerts in laboratory	1 hr
1.00 pm to 2.00 pm	LUNCH	
2.00 pm to 3.00 pm	Post Analytical examination- Reporting results and critical alerts in laboratory	1hr
3.00 pm to 4 pm	Interactive session-Hands on activity	1 hr
4.00 pm to 5.00 pm	Troubleshooting errors	1 hr
5.00 pm to 5.30 pm	Post test Evaluation and certificate distribution	30min
	TOTAL	16 Hours.

Department of Forensic Medicine Jagadguru Gangadhar Mahaswamigalu Moorusaviramath Medical College and KLE's Suchirayu Hospital

Brochure:

COURSE CONTENT:

Name of the Topic	Teaching Hours
Introduction	2hrs
Consent in Medical Practice	2hrs
Public violence against healthcare workers	2hrs
Human Rights	2hrs
Notifiable diseases	2hrs
POCSO Act	2hrs
MTP, PCPNDT Act	2hrs
Medical records	2hrs

TARGET GROUP:
Phase II MBBS students
Phase III Part I MBBS students

ASSESSMENT METHOD:
MCQ test and Hands on assessment of Informed consent

FEEDBACK:
Written feedback will be collected

CERTIFICATE CRITERIA:
Certificate will be given after successful completion of the course (75% attendance and 50% marks in final assessment exam)

LIST OF REFERENCES:

1. Reddy KSN, Murthy OP. The essentials of Forensic Medicine and Toxicology. 35th ed. Jaypee Publishers. 2022.
2. Biswas G. Forensic Medicine and Toxicology for Medical students. 6th ed. Jaypee Publishers. 2024.
3. Aggarwal A. Essentials of Forensic Medicine and Toxicology. 1st ed. Avichal publishers. 2019.
4. The Protection of Children from Sexual Offences act. The Gazette of India. 2012.
5. The Medical Termination of Pregnancy amendment act. The Gazette of India. 2022.
6. The Preconception and Prenatal Diagnostic Techniques act. The Gazette of India. 2002.

RESOURCE FACULTY:
Dr Mallikarjun Ballur
Dr Rekharani Kumbhar
Dr Doddabasappa S Belavagi



Department of Forensic Medicine and Toxicology

**KAHER's Jagadguru Gangadhar Mahaswamigalu
Moorusavirmath Medical College**

KLE Academy of Higher Education and Research (KAHER)
Reaccredited 'A Grade' by NAAC (2nd cycle). Placed in Category A by MHRD, GOI



Value Added Course -

**LEGAL ASPECTS of
SAFE PRACTICES**

in Current Scenario

PREAMBLE

Law and medicine have been intimately associated for at least the past two centuries. A doctor who knows nothing of law, and a lawyer who knows nothing of medicine, are deficient in essential requisites of their respective professions.

Health law, which applies legal principles to the healthcare field, has expanded far beyond anything that could have been imagined.

The recognition of patients' rights and the expansion of regulatory oversight rules have seamlessly evolved in medical practice. This evolution includes the changing roles of physicians in capital punishment, torture, end-of-life care, fetal research, and determining death according to brain stem death criteria.

"Legal issues in medicine," now encompassed under "Health Law, Ethics, and Human Rights," have vastly expanded the field. These issues include abortion, pregnancy, and childbirth; public health concerns; and areas such as research ethics, end-of-life care, and patient rights.

Legal compliance is currently lacking due to physicians' insufficient awareness of the legal obligations concerning patient autonomy, confidentiality, and access to health data. It is crucial for physicians to possess sufficient legal knowledge to effectively and credibly serve as witnesses in court proceedings.

Complaints against healthcare professionals seem to be on the rise, possibly indicating heightened public awareness and instances where healthcare professionals engage in inappropriate practices.

Workplace violence against doctors is a troubling reality in global medical practice, significantly impacting their physical and psychological well-being. Physicians in high-liability specialties often resort to practicing "defensive medicine" due to fear of litigation, which ultimately affects the overall healthcare services provided in the country.

This course aims to address emotional negativity and confusion among physicians regarding legal matters, while also highlighting opportunities for collaboration. By exploring the intersection of law and medicine, it provides practical insights and thoughtful perspectives on critical legal issues. The Value-added course aims to illustrate how clinicians can effectively utilize the law to enhance their professional practice.



This value-added course also aims to raise awareness among participants about legal issues that may arise in medical practice. It will focus on equipping participants with the skills to identify and address these issues, emphasizing the importance of staying updated on recent trends and amendments in medical law.

This value-added course addresses various medicolegal aspects and laws frequently encountered in future medical practice. Topics covered include consent, human rights issues, violence against healthcare workers in public settings, reporting of notifiable diseases, the POCSO Act, the MTP Act, the PCPNDT Act, and the proper maintenance of medical records in clinical settings.

Physicians are responsible not only for adhering to legal requirements but also for leveraging them to benefit their patients. Their engagement with the law should be integral to achieving clinical goals and fostering effective communication with patients. This Value-added course aims to initiate this transformative approach for healthcare professionals.

OBJECTIVES

1. To orient students to take an informed consent from the Patient after explaining the importance of MLC registration in Medicolegal cases
2. To describe the salient features of Protection of Children from Sexual Offences Act (POCSO), 2012
3. To describe the importance of documentation and maintenance of medicolegal records
4. To describe the latest decisions / notifications / resolutions / circulars / standing orders related to medico-legal practice issued by NMC/MCI/ SMC
5. Discuss the responsibilities of a doctor in cases of violation of human rights

Course Duration : 16 hrs

Course Timings : April to June Every Saturday 2pm to 4pm

KLE COLLEGE PHYSIOTHERAPY

Gabbur, Near Kundgol Cross, Kotgondhunshi, Hubballi -Bengaluru Highway

Hubballi-580028, Karnataka

India

principalkcpthbl@gmail.com

Value Added Course

The Multidisciplinary
Integration of Pain Science in
Clinical Practice

Value Added Course On

The Multidisciplinary Integration of Pain Science in Clinical Practice

PREAMBLE: The incorporation of pain science within physiotherapy practice serves as a crucial cornerstone, informing therapeutic approaches and patient education. This value added course helps in embracing current evidence based research and theories on pain mechanisms enables practitioners to customize treatment strategies for optimal individual outcomes.

OBJECTIVE:

- Engage in the reconceptualization of pain in accordance with the latest developments in pain science.
- Comprehend and apply new evidence-based frameworks pertaining to pain, with the aim of advancing clinical practice and optimizing outcomes.
- Effectively integrate the principles of pain science into their clinical practice for enhanced professional proficiency.

Admission Criteria/eligibility: BPT students, BPT Interns, MPT PG Students, BPT Graduate, MPT graduate, & PhD scholars

Course Duration: 16 hrs

Frequency: Once Per year (January/February)

Student Intake: Total Intake of students for the course shall be 30

Medium Of Instructions: English

Mode of conduct: Hybrid mode (80% offline + 20% online)

Course Contents:

- Understanding the Multidimensional Nature of Pain, Pain Mechanisms, Review of Contemporary Pain Theories, Neurophysiology of Pain, & Evidence-Based Pain Interventions
- Pain Management in Acute and Chronic Pain. Interventional pain management
- The complex and Multidimensional Nature of pain Management
- Pre and Post Surgery Management of Pain
- Pharmacological interventions of pain
- Psychological and Psychiatric approaches in understanding and management of pain
- Allied and Associated therapies for pain
- Implementing dietary interventions in pain management
- Hands-On : Reconceptualisation of pain
- Hands-On :Patient-Centered Pain Assessment & Practical Application and Case Studies