



KAHER's
Reaccredited 'A' Grade by NAAC (2 cycle) and
Placed in Category 'A' by MHRD (GoI)



Shri BMK Ayurveda Mahavidyalaya
Post Graduate Studies and Research Centre
Shahapur, Belagavi-590003, KARNATAKA

Title
Course on Ayurtechnology

About the Course:

Ayurveda is an ancient and the oldest surviving medical system in the world. Dating back almost 5000 years, and considered to be an ancient science of healing that enhances longevity.

Ayurtechnology incorporates Application of engineering principles and design concepts in Ayurveda. This field seeks to close the gap between technology and Ayurveda combining the design and problem solving skills of engineering with ancient medicine to advance health care treatment.

Ayurtechnology online course will be taught jointly by Dr APJ Abdul Kalam Dept. of Ayurtech of KAHER's Shri BMK Ayurveda Mahavidyalaya Belagavi in collaboration with KLE Society's Dr M S Shehsgiri college of Engineering and Technology, Belagavi.

The course comprises of 5 credits and 10 modules with 8 weeks of course duration, underpinning topics such as fundamentals of Ayurveda, Fundamental of instruments explained in different branches of Ayurveda, Basics of engineering and applications, Fundamentals of Electronics, Measurement Systems ,Motors and Pumps, concept of Force and Motion etc.

Aim:

To bridge the gap and bring Technological Advancements in Ayurveda to Meet the Global Standards which facilitate precision and proper execution of any activities in Human Health care Systems.

Objectives:

At the end of course one should be able to,

1. Understand the Basics of instrumentation viz. diagnostic, pharmaceuticals & therapeutic measurements in Ayurveda
2. Compute the knowledge from the basics of Ayurveda and Technology for the development of an instrument.
3. Exposure to the latest developments in Ayurveda with particular reference to various instruments used for the treatment.
4. Construct Basic Concepts of Ayurveda instruments and their applicability.
5. Integrating principles of Ancient Medical System with Recent Technology
6. Comprehend the thrust areas of research in Ayurveda

Learning Outcome:

Will be able to

1. Collect Data, Evaluate Data and define specification for device development
2. Apply engineering concepts and build a prototype of the desired instrument
3. Develop testing parameters for functionality of the gadget
4. Understand the validation process of the designed models.

Type of Course: Interdisciplinary

Eligibility: Graduate students of any Medical Stream, Engineering Graduates & Polytechnic Students

Language: English

Intake capacity: 30

Duration: 10 weeks

Total Hours: 30

Credits: 05

Evaluation: Online

Evaluation: Assignment based Assessment

Five Credits:

- Each credit includes 06 hours
- After completion of each credit assessment & evaluation is done
- After completion of 5 credits, final assessment & feedback.

Teaching Learning Methods:

1. Teaching aids – Didactic Lectures
 - Audio-visual Classes
 - Demo
2. Assignments

Syllabus:

1. Introduction about Ayurveda and Knowledge of Ashtanga Ayurveda
2. Fundamental theory of classification of yantra and shastra in Ayurveda
3. Basics of Engineering and its Application
4. Fundamentals of Electronics and Computing and Measurement System
5. Understanding Fundamental Concept of Motors and Pumps, Force & Motions
6. Advancements in Technology & Research Updates in Ayurveda

Reference Books

Sl. No.	Name of Authors	Title of the Book	Latest Edition	Name of the Publisher
1.	Tatsuo Togawa	Biomedical transducers and instruments	No edition	CRC Press
2.	R K Jain	Mechanical Measurements	5 th	Khanna Publishers
3.	Beckwith	Mechanical Measurements	6 th	Pearson Education
4.	O P Khanna	Material Science and Metallurgy	2 nd	DhanpatRai Publishers
5.	Anthony Esposito	Fluid Power Systems	6 th	Pearson Education
6.	K R Gopalkrishna	Elements of Mechanical Engineering	31 st	Subhas Publishers
7.	Rajendra Prasad	Fundamentals of Electrical Engineering	2 nd	PHI Publishers
8.	David A Bell	Electronic Devices and Circuits	5 th	Oxford University Press
9.	Ambika data Shastri	Sushruta Samhita	Ed1 2010	Choukamba publishers.
10.	Chakrapani	Charak Samhita	Ed1 2007	Choukamba publishers.
11.	Vaghbata	Astanga Hrudaya	Ed2 2008	Krishna das Academy.

Weekly Schedule

1. Day 1 –Pre Recorded Video & Learning Material
2. Day 5 – Assignment
3. Day 6 – Key Answers

(Next for Every 6th day videos and learning materials will be released which will be followed by above mentioned assignments and key answers)

For More Details:

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Course Coordinator

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Registration Form:

https://docs.google.com/forms/d/e/1FAIpQLSfzroYmoPilM2U1mElhN9Bv5XQuRPL1wcxq6H_q81dUuecKQQ/viewform?usp=sf_link