



Bapuji
Oral  Implantology
Course





Bapuji Educational Association is one of the oldest and famed association running Educational Institutions in Davangere, Karnataka, India. This small seed sown in 1958 has now grown into a giant tree with more than 50 Institutions under its arms. These Institutions has carved a niche for themselves attracting students not only from India but across the globe.

Dr. Shamanur Shivashankarappa M.L.A.

Chairman
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Forward

Fired by the zeal to create world class institutions, Bapuji Dental College was founded in the year 1979 by Bapuji Educational Association. This college has been one of the most vibrant and dynamic institution in the field of dental education. It has nurtured thousands of dentists to reach the zenith of their profession.

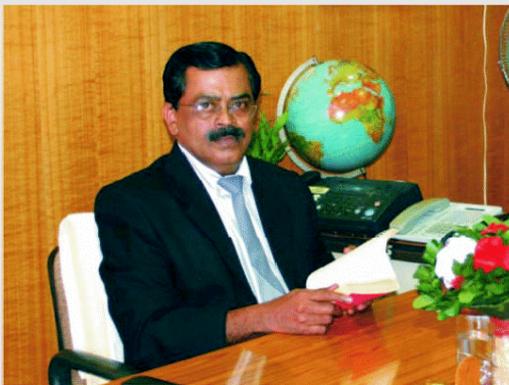
Every day brings forth new discoveries and therefore an exponential increase in knowledge is inevitable. The college makes every effort to provide the required technology to assist students to keep abreast with the latest developments in the dental field to carve their own niche in the dental society.

An exotic discovery of this era is dental implants. Implant dentistry has grown tremendously in the past 25 years. From Branemark's era, oral implantology has grown to become one of the most lucrative specialities in dentistry and now is in the pinnacle of dental innovations. Hence there is a need to train more and more dentists in the field of implantology. In view of this, Bapuji dental college has started Bapuji oral implantology course to provide delegates with the theoretical knowledge and practical experience to start their implant career within their existing general dental practice.

With so many dentists becoming involved in implant dentistry, the emphasis must now shift towards looking at the quality of training and education available. The dental journals often have several advertisements for a variety of courses and we all receive flyers through the post from a number of commercially run events. For the inexperienced clinician, this presents a real dilemma with very little guidance as to which type of course to choose.

Implant dentistry is unavoidably linked with the implant industry due to the individual design features and subtle differences between different systems. Fortunately, the main companies involved generally take the responsibility for basic system training seriously with courses teaching the 'nuts and bolts' on offer throughout the year. The question is 'do they alone offer appropriate implant training?' Unfortunately at the moment, for many dentists, the answer is 'no'. The shorter one and two-day courses can only cover a small aspect of the subject and to expect anything more would be wrong. Care needs to be taken by the prospective applicant to ensure that a course will meet their individual training needs. A course that somehow integrates evidence based clinical practice with a structured, literature-based teaching is probably the best model of training for many clinicians. Keeping all this pitfalls in mind Bapuji Oral implantology course has been designed to give a holistic training to all dentists enrolling for the course.

The implantology activities at the Bapuji dental college have formed a centre of excellence for research, education and treatment. The state of the art Implant center at Bapuji Dental college offers the best possible clinical education complemented by opportunities in research and community service.



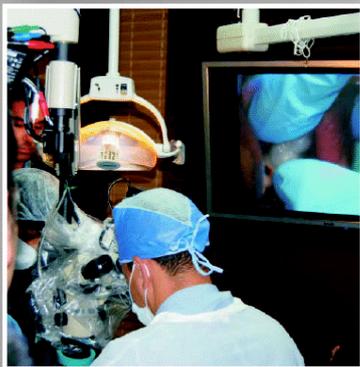
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INTRODUCTION

Theme of the course : One to One Implant Training Program

This will be a Multi-system Implant course conducted by the college and will be a comprehensive course for the dental practitioner wishing to introduce implants into their everyday practice.

Implant dentistry is one of the most rapidly expanding fields of dentistry. It is now a requirement for any dentist wishing to train in implantology to meet a number of specific training requirements before treating a patient. With this in mind, we have developed a one year Implantology Course at an economical cost for our participants.

This course provides the theoretical elements and provides a very strong one-on-one Live Surgery component and regular treatment planning group seminars.

Participants will have the opportunity to observe live surgery demonstrations and to treat their own patients under close supervision, from initial assessment to surgery and final restoration. The course is designed for the complete beginner, with no previous experience in implantology required.

Upon completion, the participants will have the knowledge and core skills required to start a career in the rewarding field of implant dentistry.

OBJECTIVES OF THE COURSE

On completion of the course the participant will have completed the following:

- ▶ Clinical assessment of a patient, treatment planning and case documentation (clinical logbook) under guidance of an experienced clinician (mentor).
- ▶ Performance of a surgical dental implant procedure at the Bapuji Dental College & Hospital under one-to-one guidance of the mentor.
- ▶ Review of the clinical case, arrangements for follow up and restorative treatment.
- ▶ Acquisition of enhanced practical skills in implant dentistry.



THESE LEARNING OUTCOMES ARE FOSTERED BY

Individual and small group case planning and discussion
Clinical experiential learning
One-to-one clinical supervision

COURSE BENEFITS

- ▶ Keynote consultant / specialist lecturers
- ▶ Comprehensive teaching programme including hands-on practical sessions
- ▶ Course fee includes placement of TEN implants of different implant designs in different situations
- ▶ Full certification for surgical & restorative implant treatment
- ▶ Full clinical practice support and treatment planning / advisory service
- ▶ Develop knowledge and skills with not just one system but major implant systems in India

COURSE PROGRAMME

MODULE ONE

Day One - Principles, Basic and Clinical Sciences of Implantology

- ▶ Osseointegration: Concept of Osseointegration.
- ▶ Volumetric classification of available bone for implant surgery.
- ▶ Evolution of dental implantology
- ▶ Equipment and hygiene concepts in Implant Practice
- ▶ Asepsis and sterilization





Day Two - Principles, Basic and Clinical Sciences of Implantology

- ▶ Patient selection: clinical examination, diagnostic criteria. Treatment planning: comprehensive patient care from first consultation to final restoration and follow up.
- ▶ Modern dental implant design features
- ▶ Clinical assessment of an implant patient
- ▶ Transfer of radiographic data to anatomic situation
- ▶ Medical contraindications in implantology
- ▶ Practical hands-on placement of implants into models

Day Three - Hands on training: Asepsis, Clinical cases, Surgical techniques

- ▶ Hands on implant placement: Incision, osteotomy, implant insertion, management of soft tissue closure.
- ▶ Hands on asepsis: gowning and patient preparation.
- ▶ Clinical cases: How to plan and prepare a treatment.
- ▶ Literature review.

MODULE TWO

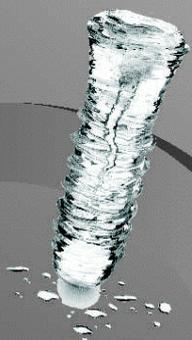
Day one - Healing mechanisms of soft and hard tissues.

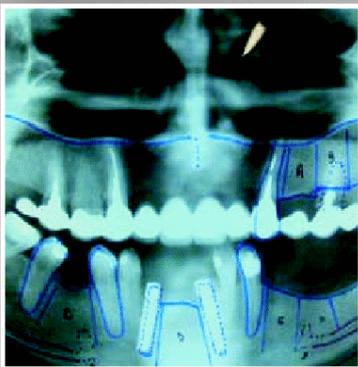
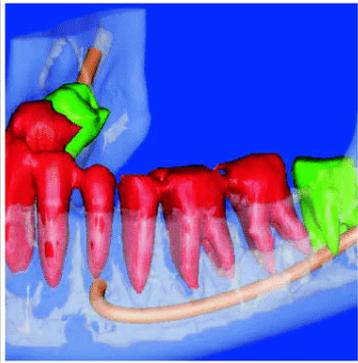
- ▶ Bone: Overview of basic principles of physiology and metabolism, bone modelling and remodelling.
- ▶ Healing: Healing mechanisms of muco-osteoperiosteum, hard and soft tissue necrosis.

Day Two - Surgical anatomy of head and neck

- ▶ Practical and critical anatomic landmarks necessary for the success of implant and reconstructive surgery.
- ▶ Handling and manipulation of bone and soft tissue on animal Jaws

Day Three - Surgical Implant placement by participants.





MODULE THREE

Day One: Contemporary medical imaging in implant and reconstructive surgery

- ▶ Radiography (periapical, panoramic, tomography) CT-scan & MRI.
- ▶ Hands on: Analysis and interpretation of radiographs and CT scans, measurement of bone volume.

Day Two: Live surgery.

- ▶ Briefing and de-briefing of surgeries

Day Three: Biomaterials and biocompatibility in implant and reconstructive surgery

- ▶ Panorama of natural and synthetic metals and metal alloys, organic and inorganic materials.
- ▶ Heterogeneous and autogenous graft materials.
- ▶ Biological interfaces.
- ▶ Precise and successful indications.
- ▶ Literature review

MODULE FOUR

Day one - Overview of graft procedures and guided tissue regeneration techniques

- ▶ Repair of limited volume bone defects, segmental bone defects, and major bone defects.
- ▶ Principles of Guided bone regeneration, classification of membranes, surgical procedures, precautions, advantages, disadvantages, major pitfalls & statistics.
- ▶ Literature review.

Day Two - Live surgery.

- ▶ Briefing and de-briefing of surgeries





Day Three - Immediate implantation. Anesthesia in implant and reconstructive surgery

- ▶ Immediate implantation: Basic sciences, surgical techniques, indications and contraindications.
- ▶ Anaesthesia in implant and reconstructive surgery: Local and block anaesthesia, pharmacopoeia, IV sedation and general anaesthesia.

MODULE FIVE

Day One - Implant prosthetics and occlusion. Bone expansion-compactation technique

- ▶ Basic principles of occlusion, impression techniques and laboratory protocols.
- ▶ Implant abutments: Removable and fixed prostheses, selection of abutments, choice of trays, screw/cement retentions, biomechanics and aesthetics of implant supported prostheses, concept of immediate loading.
- ▶ Bone splitting, bone spreading and expansion technique in management of thin alveolar ridges: Cortical and cancellous bone deformation factors. Indications and contra-indications. Literature review.

Day Two: Live surgery.

- ▶ Briefing and de-briefing of surgeries.
- ▶ Hands on implant prosthetics: Selection of impression copings, abutments and impression taking.

Day Three - Management of complications. Advanced implant and reconstructive techniques

- ▶ Management of complications: Implant complications, abutment complications, prosthetics complications, Reconstructive surgery complications.
- ▶ Overview of maxillary sinus cavities: anatomy and histophysiology, surgical techniques, biomaterials used.
- ▶ Overview of advanced implant techniques: Zygomatic, BOI & Pterygoid implants.





CLINICAL LEARNING HIGHLIGHTS

Course fee includes placement of TEN implants of different implant designs in different situations

Implant Placement In Anterior Maxilla

Implant Placement In Posterior Mandibular Molar

Implant Placement In Posterior Maxilla

Anterior Implant Supported Bridges

The Implant Overdentures

Immediate Implant Placement in Extraction Sockets

Surgical Demonstrations

- Direct and indirect sinus lift procedures.
- Ridge splitting, ridge expansion
- Flapless Implant surgery
- Autogenous Block bone grafting

Examinations and Certification

| Sl.No | Theory | Marks |
|-------|---------------|---------------------|
| 1 | MCQ | 1 X 100 = 100 Marks |
| 2 | Long Answers | 5 X 04 = 20 Marks |
| 3 | Short Answers | 10 X 03 = 30 Marks |

Practical 075 Marks

Viva-voce 025 Marks

All the participants will be awarded Certificate of Implant Dentistry after completing their clinical cases and after successfully passing the examination.

