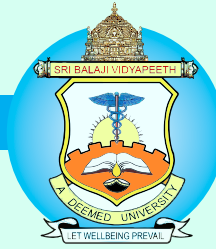


**SRI BALAJI**

ACCREDITED BY NAAC  
WITH 'A' GRADE



**VIDYAPEETH**

**DEEMED TO BE UNIVERSITY**  
DECLARED U/S 3 OF THE UGC ACT, 1956

**NIRF - INDIA RANKINGS 2019 : 72 among Universities in India**

# INDIRA GANDHI INSTITUTE OF DENTAL SCIENCES

## FELLOWSHIP IN IMPLANTOLOGY

### SYLLABUS & REGULATIONS



**2019-2020 ONWARDS**

**( As Approved in the Academic Council at the Meeting held on 22.05.2019 )**



**SRI BALAJI VIDYAPEETH**

**INDIRA GANDHI INSTITUTE OF DENTAL SCIENCES**



**FELLOWSHIP IN ORAL IMPLANTOLOGY**

- **COURSE STRUCTURE** -

<b>Name of the course</b>	<b>: Certificate course in Oral Implantology</b>
<b>Eligibility</b>	<b>: Post BDS, MDS</b>
<b>Degree offered by</b>	<b>: Sri Balaji Vidyapeeth</b>
<b>Type of Programme</b>	<b>: Training Heutagogy/Evaluation by Credit points</b>
<b>Total credits</b>	<b>: 35</b> <b>[10 credits for theory and</b> <b>25 credits for practicals and clinics]</b>
<b>Course Duration</b>	<b>:1 year [ July to July].</b>

**TABLE -1: COURSE OUTLINE [35 CREDITS]**

<b>Sl No</b>	<b>Activity</b>	<b>Description</b>	<b>Credits</b>
1 <b>Table 2</b>	Academic activity and Assignment	Academic Presentations by Faculty and Participants	10
2 <b>Table 3</b>	Demonstrations	On Simulated model with Discussion on the procedure, components of instruments, armamentarium and of materials.	4
3 <b>Table 4</b>	Apprenticeship Training	Assisting and also performance under guided supervision	8
4 <b>Table 5</b>	Practical Assignment	Selected Cases[5] performed individually of the total 10 cases, documented and presented stepwise including treatment planning and execution. [Basic Implant Placement to loading]	9
5 <b>Table 5</b>	Practical Can Choose any one of the mentioned types of cases	Selected cases [1] performed [under guidance] documented and presented stepwise including treatment planning and execution. [Surgical adjuncts including graft/membrane placement, sinus lift, ridge split, autologous bone grafts, periodontal soft tissue procedures for esthetic enhancement, immediate implant placement, immediate loading, advanced abutment options]	4
<b>Total</b>			<b>35</b>

<b>1 Academic activity [lecture/presentation]</b>	<b>:1 educational hour</b>
<b>2 hours in Clinic or Demonstration/Preclinical</b>	<b>:1 educational hour</b>
<b>16 educational hours of lecture</b>	<b>: 1 credit</b>

# PLANNED ACTIVITIES DURING THE FELLOWSHIP PROGRAMME

## TABLE 2: THEORY ACTIVITY [10 credits]

SI No	Topic	Department Involved	No of Hours in Class
<b>ACADEMIC PRESENTATION BY FACULTY</b>			
<b>BASICS – MODULE 1</b>			
1	Introduction	Periodontics	1
2	Implants and Components	Prosthodontics	3
3	Diagnostic work up	Oral medicine & radiology	3
4	Selection of cases for implant -single tooth	Periodontics	2
5	Selection of cases for implant -Completely Edentulous	Prosthodontics	2
6	Investigation used –RADIOLOGY	Oral medicine & radiology	4
7	Treatment planning including prosthetic and diagnostic work up	Prosthodontics	4
8	Asepsis	Oral surgery	2
9	Armamentarium	Oral surgery	2
<b>Total Hours</b>			<b>23</b>
<b>PROTOCOLS and PROCEDURES – MODULE -2</b>			
10	Surgical protocol for placement of single tooth implants	Oral surgery	2
11	Surgical protocol for placement of implants for complete dentures	Prosthodontics	2
12	Preparing case for prosthetic phase	Prosthodontics	2
13	Prosthetic option for single tooth & completely edentulous	Prosthodontics	2
14	Prosthetic phase-Implant Impression	Prosthodontics	2
15	Selection of Abutment and fabrication of superstructure	Prosthodontics	2
16	Surgical adjuncts in implants	Prosthodontics	4
17	Maintenance and care for implants	Periodontics	2
18	Survival and success in implants	Periodontics	4
19	Aesthetics in Implants – Surgical, Periodontal and Prosthetic	Periodontics Prosthodontics Oral surgery	4
<b>Total Hours</b>			<b>26</b>
<b>ACADEMIC PRESENTATION BY PARTICIPANTS</b>			
20	Osseointegration	Oral surgery	1
21	Surface modification	Oral surgery	2
22	Bone density & quantity	Oral surgery	2
23	Success/Survival Assessment in various options	Oral surgery	2
24	Surgical Adjuncts	Oral surgery	2
25	Implant Biomechanics	Prosthodontics	2
26	Recent advancements	Periodontics	2
27	Complications	Oral surgery	2
<b>Total Hours</b>			<b>15</b>
<b>Total hours of Theoretical Activity in contact [16 educational hour – 1 credit]</b>			<b>64 [4 credits]</b>
<b>Total hours of Theoretical Activity Self Study* [32 educational hours – 1 credit]</b>			<b>192 [6 credits]</b>
<b>Theory Credits</b>			<b>10</b>

\*Indicate the self study hours which is in table 7

**PRACTICAL & CLINICALS [25 credits – hours]**

**TABLE 3: PRACTICAL SESSIONS [4 credits]**

SI NO	Topics	No of hours
1	Implants and Components	4
2	Diagnostic work up	4
3	Investigation used –RADIOLOGY	4
4	Asepsis	4
5	Armamentarium	4
6	Surgical protocol for placement of single tooth implants	4
7	Prosthetic phase-Implant Impression	4
8	Preparing case for prosthetic phase	4
<b>Total Hours spent in preclinical set up</b>		<b>32 [1 credit]</b>
<b>Total hours spent in self study and preparation of assignment*</b>		<b>96[3 credits]</b>
<b>Total hours spent in preclinical and self study</b>		<b>4 credits</b>

**TABLE 4: CLINICAL APPRENTICESHIP TRAINING [8 credits]**

SI No	Topics	No of hours
1	Preparing surgical set up (5 cases)	16
2	Assistance in surgery (5 cases)	16
3	Assisting in prosthetic phase – impression (5 cases)	16
4	Assisting in prosthetic phase – Exposure, Healing abutment, Loading (5 cases)	16
<b>Total Hours spent in clinics</b>		<b>64[2 credits]</b>
<b>Total hours spent in self study and preparation of assignment*</b>		<b>192 [6 credits]</b>
<b>Total hours spent in clinics and self study</b>		<b>8 credits</b>

**TABLE 5: CLINICAL PERFORMING INDEPENDENTLY [9+4=13 credits]**

SI No	Topics	No of hours
1	Performance of atleast 10 cases of single tooth implant cases till loading and atleast one month follow up and systematic documentation	120
2	Clinical Presentation of 2 of the above mentioned cases with complete documentation and atleast 2 months follow up	40
<b>Total Hours spent in clinics</b>		<b>160 [3credits]</b>
<b>Total hours spent in self study and preparation of assignment*</b>		<b>480 [9credits]</b>
<b>Total hours spent in clinics and self study for Implant cases</b>		<b>9 credits</b>
1	Performance of Single tooth Implant Case involving surgical adjunct from Case Selection, Documentation, Surgical / Prosthetic planning and execution with meticulous follow up [atleast 2 Among the types of cases mentioned in Table 1]	24
2	Clinical Presentation of one of the above mentioned cases with the completion of surgical protocol and complete documentation	8
<b>Total Hours spent in clinics</b>		<b>32 [1credits]</b>
<b>Total hours spent in self study and preparation of assignment*</b>		<b>96 [3 credits]</b>
<b>Total hours spent in clinical and self study</b>		<b>4 credits</b>

\*Indicate the self study hours which is in table 7

**TABLE 6: ASSESSMENT STRATEGY**

SI No	Activity	Description	Assessment
1	Academic activity	Academic Presentations by Faculty and Participants	Seminar Presentations and Submission of Assignments Portfolio
2	Demonstrations	On Simulated model with Discussion on the procedure, components of instruments, armamentarium and of materials.	Assessment of performance in simulation Submission of Assignment on Instruments, Armamentarium and Materials used. Portfolio
3	Apprenticeship Training	Assisting and also performance under guided supervision	Portfolio and submission of Documented Evidence
4	Practical and Assignment	Selected Cases[10] performed individually, documented and presented stepwise including treatment planning and execution. [Basic Implant Placement to loading]	Direct Observation of competencies Documentation and Clinical presentation of Cases Portfolio
5	Practical Assignment [Electives]	Selected cases [1] performed individually documented and presented stepwise including treatment planning and execution. [Surgical adjuncts including graft/membrane placement, sinus lift, ridge split, autologous bone grafts, periodontal soft tissue procedures for esthetic enhancement, advanced abutment options ] can choose any of the above	Direct Observation of competencies during performance Documentation and Clinical presentation of Cases Portfolio

**All assessments are formative. Marks and credits are awarded as soon as the student completes the stipulated work. The candidate can accumulate his credits at his own pace. Flexibility is made minimal for the fellowship course. Minimum course duration is 11 months and maximum course duration is 13 months with which the candidate is expected to complete 100% of the assigned activities at an acceptable level of competency for the award of fellowship degree.**



**TABLE: 7 SELF STUDY DISTRIBUTIONS OF HOURS**

Sl No	Self Study Topics for presentation or further reading and Assessment	No of hours allotted	Submission / Presentation / Portfolio	Marks
<b>Academic grounding</b>				
1	Screw retained vs cement retained Implants	10	Assignment	5
2	Abutment options for implants	10	Assignment	5
3	Implant fixture – macroscopic and microscopic features with surface modifications and recent advancements	10	Assignment	5
4	Prosthetic Options for completely edentulous	10	Assignment	5
5	Systemic Conditions/diseases that preclude or modify implant treatment options	10	Presentation	10
6	Success criteria and modes of assessment	12	Presentation	10
7	Osseointegration, Evolution, science and bone implant interface	12	Assignment	5
8	Surgical adjuncts	12	Assignment	5
9	Biomechanics in implants	20	Assignment	5
10	Biological, mechanical and esthetic Complications	12	Assignment	5
11	Predictable esthetics in implants	12	Assignment	5
12	Investigative aids including CBCT for implants	13	Assignment	5
<b>Total</b>		<b>192</b>		
<b>Pre Clinical</b>				
13	Principles of surgery and suturing	10	Assignment	5
14	Implant Loading protocols	10	Presentation	5
15	Implant abutment junction	10	Assignment	5
16	Socket Shield Technique	10	Presentation	10
17	Platform Switching concept	10	Presentation	10
18	Physiodispenser – Parts and features	10	Assignment	5
19	All on four concept	10	Assignment	5
20	Zygomatic and Pterygoid implants	10	Assignment	5
21	Simulation Model Exercise	15	Submission	25
<b>Total</b>		<b>96</b>		
<b>Apprenticeship training</b>				
1	Implant placement 10 cases	100	Assistance	50
2	Implant impression making 5 cases	50	Assistance	15
3	Follow up pictures, radiographs, chart documentation – 5 cases	42	Independent	15
<b>Total</b>		<b>192</b>		
<b>Basic Implant</b>				
1	Clinical Photographs, radiograph, diagnostic work up, treatment plan chart for 10 cases	340	Independent	40
2	Follow up protocol for 4 cases – 2months after loading	120	Independent	30
3	Preparing a powepoint presentation	20		
<b>Total</b>		<b>480</b>		
<b>Advanced with an elective</b>				
1	Clinical Photographs, radiograph, diagnostic work up, treatment plan chart for 1 case	22	Independent	
2	Surgical adjuncts including graft/membrane placement, sinus lift, ridge split, autologous bone grafts, periodontal soft tissue procedures for esthetic enhancement, immediate implant placement, immediate loading, advanced abutment options – documentation of planning and rationale	34	Independent	
3	Preparing a powerpoint presentation	20	Independent	
3	Follow up protocol for 1 case for 1 month	20	Independent	

**TABLE -8 : EVALUATION AND SCORING**

<b>TRANSCRIPT - GRADE SHEET</b>					
<b>Outcomes</b> Within bracket are credits awarded for each outcome	<b>Total marks</b>	<b>Marks Obtained</b>	<b>Grade Point /10</b>	<b>Credit point = Credit X Grade Point</b>	<b>GPA = Credit points/Total number of credits</b>
<b>Academic Activity [10]</b>	<b>Total Marks</b>				
Seminar Presentations	2x10 = 20				
Assignment Submission	10x5 = 50				
Examination	30				
<b>Total</b>	<b>100</b>				
<b>Practical Sessions [4]</b>	<b>Total Marks</b>				
Simulation Exercises	100				
<b>Total</b>	<b>100</b>				
<b>Clinical Session – Apprenticeship [8]</b>	<b>Total Marks</b>				
Assistance of 10 implant cases in placement procedure Submission of proof of assistance	5x10 = 50				
Assistance of 5 implant cases in impression making. Submission of proof of assistance	5x 5 =25				
Follow up of 5 cases already done in the department and evaluation of implant success Submission of radiographs	5x5 = 25				
<b>Total</b>	<b>100</b>				
<b>Clinical Session – Performs Independently and electives [9]</b>	<b>Total Marks</b>				
Performance of 10 implant cases – Comprehensive documentation	5x10=50				
Follow up 2 month after loading	2x10=20				
Clinical Presentation of 5 cases	5x6 = 30				
<b>Total</b>	<b>100</b>				
Performance of single implant case requiring one additional enhancement	50				
Follow up 1 month after surgery	30				
Clinical presentation of the case	20				
<b>Total</b>	<b>100</b>				
<b>Portfolio</b>	<b>100</b>				

CGPA = [Credit points X GPA ] of all sessions divided by 35 = presented to two decimals.

**Lettering of Grade Points [Adapted from UGC guidelines]**

O (Outstanding) 10 90-100

A+ (Excellent) 9 80-89

A (Very good) 8 70-79

B+ (Good) 7 60-69

B (Average) 6 50-59

C (Below Average)\* 5 40-49

Reappear (R) 4 39 or below

Ab (Absent) 0

\*But can be compensated by higher grades in other papers to give an overall grade of B

*Penalty Clause: Candidates obtaining F in case of less marks or absent can resubmit the assignment or fulfil the requirement at their pace and obtain the credits and resubmit for evaluation. Can extend the duration of course to more than 1 year till the requirements are fulfilled.*

**Academic Calendar and Deadlines for submission of assignments, presentation date and Clinical work completion**

Activity [minimum no of hours]	MONTHS and maximum working hours available for the candidate to take up										
	1	2	3	4	5	6	7	8	9	10	11
<b>Academic[64]</b>	48AM	48aM									
<b>Preclinical [32]</b>	24PM	24PM	24PM								
<b>Apprenticeship[64]</b>			48AM	48AM	24PM	24PM	24PM				
<b>Clinical– Basic[160]</b>			24PM	24PM	48AM	48AM	48AM	48AM	24PM	24PM	48AM
<b>Elective[32]</b>									48AM	48AM	24PM
<b>Implant</b>				<b>Implant Placement</b>		<b>Osseointegration</b>			<b>Loading</b>		<b>Follow up</b>
<b>Elective Case</b>							<b>Implant placement</b>			<b>Follow up</b>	
<b>Presentations</b>	Academic and Preclinical – All seminars, assignments and submission of preclinical work completed and audited at the end of 3 <sup>rd</sup> month					Clinical presentation of Implant surgical protocol				Clinical presentation of Implant Loading and completion of audit of 10 implant cases at the end of 10 <sup>th</sup> month	
<b>Viva</b>	All submissions will be accompanied by viva which would assess the students understanding of the subject					All presentations will be accompanied by viva which would assess the students understanding of the subject				All presentations will be accompanied by viva which would assess the students understanding of the subject	
<b>Documentation</b>	Checked intermittently and compiled to be submitted at the end of 3 <sup>rd</sup> month for academic and preclinical activities			Checked intermittently and compiled to be submitted at the end of 10 <sup>th</sup> month for implant cases. Elective Case loading documentation will be checked.				Checked for final completion of all cases and electives with follow ups			
<b>Portfolio</b>	8:30 to 9:00am every day will be assessment and update of portfolio and reflections with remarks of the mentor.										

AM- Morning, PM – Afternoon,

Academic Presentations and Demonstrations 9:00am to 1:00pm each day 3 days a week for the first two months

Preclinical module 2:00 to 4:00pm each day 3 days a week for the first three months

Clinical Apprenticeship 9:00 to 1:00pm each day 3 days a week for the 3<sup>rd</sup> 4<sup>th</sup> and 5<sup>th</sup> months

Course Designed and credit hours planned by Dr. Manoharan PS, Professor and Head, Prosthodontics and Crown & Bridge, Indira Gandhi Institute of Dental Sciences, Puducherry



# **PROGRAM OVERVIEW**

## **COURSE HIGHLIGHTS**

- **96 HOURS OF THEORY – GUEST LECTURES BY LEADERS IN THE FIELD**
- **192 HOURS AND MORE OF CLINICALS AND PRACTICALS – FACILITATED LEARNING**
- **ONE ON ONE TRAINING**
- **30 CASES OF TRAINING IN SURGICAL PROSTHETIC AND LOADING PHASES**
- **PRE CLINICAL TRAINING ON MODELS**
- **TIMELY RESOLUTION OF DOUBTS**
- **SEMINARS AND ASSIGNMENTS – DEVELOPING STRONG PORTFOLIO**

## **TOP SKILLS YOU WILL LEARN**

- **SYSTEMATISED LEARNING OF CONCEPTS**
- **PLANNING FOR IMPLANT CASES**
- **SURGICAL PHASES**
- **PROSTHETIC PHASES**
- **LOADING STRATEGIES AND PROTOCOLS**
- **DOCUMENTATION AND EVALUATION SKILLS**
- **PLAN FOR FOLLOW UP**

## **WHO CAN DO THIS COURSE [ELIGIBILITY] ?**

- **POST BDS / POST MDS ASPIRING FOR LEARNING DENTAL IMPLANT TECHNOLOGY**