



Programme Specifications

BDS Programme

Programme:
Bachelor of Dental Surgery

Department:
Dental Sciences

Faculty of Dental Sciences
M.S. Ramaiah University of Applied Sciences

Programme Specifications: Bachelor of Dental Surgery

Faculty	Dental Sciences
Programme	BDS
Dean of Faculty	Dr B V Sreenivasa Murthy

- 1 **Title of The Award**
Bachelor In Dental Surgery
- 2 **Modes of Study**
Full Time
- 3 **Awarding Institution /Body**
M.S. Ramaiah University of Applied Sciences
- 4 **Joint Award**
Not Applicable
- 5 **Teaching Institution**
Faculty of Dental Sciences,
M.S. Ramaiah University of Applied Sciences
- 6 **Date of Programme Specifications**
July 2018
- 7 **Date of Programme Approval by the Academic Council of MSRUAS**
July 2018
- 8 **Next Review Date**
July 2022
- 9 **Programme Approving Regulating Body**
Dental Council of India, New Delhi
- 10 **Programme Accredited Body and Date of Accreditation**
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- 11 **Grade Awarded by the Accreditation Body**
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- 12 **Programme Accreditation Validity**
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- 13 **Programme Benchmark**
Dental Council of India, New Delhi

14 **Rationale for the Programme**

The art and science of dentistry, though considerably advanced from where it began, is still in a progressive stage of research. Awareness of dental health amongst the population, is increasing by the day, even in semi urban and non-urban areas with increased demand for conservative and esthetic treatment. Dentists form a crucial component of the healthcare delivery system of the country. While the WHO states that the ideal ratio of dentist to population is 1:7500, the current proportions are at 1:13,500 in urban areas based on a report from the DCI. This gap is much more in rural areas where it can be as high as 1: 150,000. Therefore, the education of dentistry is in greater demand than ever before. At the same time, standards of healthcare and education of the healthcare provider have been escalating in India, to match world standards.

There are a large number of institutions world over which are producing dentists and yet, there is a shortage of quality dental graduates who may have limited exposure to patients, to state of art clinical equipment, faculty focused on research, or all.

The FDS at MSRUAS has state of art clinical equipment; such as CBCT, Skill labs and others; that is constantly upgraded to be at par or beyond the best in the country. This with excellent clinical exposure to patients in addition to our rural health programs and innovative teaching methodologies with stringent quality control protocols gives our students a competitive advantage. The value additions of patient safety, basic life support, ethics and jurisprudence, advanced information communication technologies simulation labs and inter-university internships overseas raise the bar of education for our students preparing them better for employment and future research.

The presence of other faculties of applied sciences on the campus enables the student to seek education beyond the conventional curriculum; for example, the use of 3D printing and rapid prototyping from the Faculty of Engineering and Technology. The presence of a 1400 bed hospital on the same campus offers invaluable clinical experience. This enables our graduates to take an entrepreneurial route, management positions in hospitals, employment in the corporate sector or armed forces, and prepare them for higher education. The FDS at MSRUAS is pleased to offer this Bachelor of Dental Surgery program to address the oral health problems of society through highly motivated and well prepared graduates.

15. **Programme Mission**

The purpose of the programme is creation of innovative problem solvers in multi-disciplinary settings, entrepreneurs and leaders applying the knowledge, understanding, cognitive abilities, practical skills and transferable skills gained through systematic, flexible and rigorous learning in the chosen academic domain.

16. Graduate Attributes

1. Ability to apply knowledge of biological sciences to solve problems in oral health care
2. Ability to analyse maxillofacial health care problems, interpret data and arrive at meaningful conclusions involving scientific inferences
3. Ability to treat a patient for oral health problems with a holistic approach
4. Ability to understand and solve complex oral health care problems by conducting experimental investigations
5. Ability to apply appropriate tools and techniques and understand utilization of resources
 - a. appropriately to oral health care activities
6. Ability to understand the effect of maxillofacial health care solutions on legal, cultural, social and public health and safety aspects
7. Ability to develop sustainable solutions and understand their effect on society and environment
8. Ability to apply ethical principles to healthcare practices and professional responsibilities
9. Ability to work as a member of a team, to plan and to integrate knowledge of various disciplines in health care and to lead teams in multidisciplinary settings
 - a. Ability to make effective oral presentations and communicate technical ideas to a broad audience using written and oral means
10. Ability to lead and manage multidisciplinary teams by applying management principles
11. Ability to adapt to the changes and advancements in technology and engage in independent and life-long learning
12. Ability to address oral health care issues at a community level

17. Programme Goal

The Programme Goal is to produce graduates with excellent clinical skills equipped with critical, analytical and problem solving skills and ability to think independently to pursue a career in Oral health care profession.

18. Programme Objectives

The objectives of the programme are to produce competent and skilled dental graduates who are also responsible leaders of society with entrepreneurial and managerial skills.

The objectives are

1. To acquire knowledge about the scientific foundations on which dentistry is based and the principles of biological functions to evaluate and analyse scientifically established data
2. To acquire knowledge on the development, structure and function of the stomatognathic system both in health and disease and to relate their effect to the general state of health of the patient
3. To enable the student to diagnose and manage various common dental problems encountered in general dental practice and demonstrate competence in pain control and anxiety management during dental treatment
4. To enable the student to perform and interpret required investigative procedures
5. To maintain a high standard of professional ethics and conduct and apply these in all aspects of professional life
6. To empathise with the needs of the individual patient and the community and work together to bring about a positive change in society
7. To develop an attitude to seek lifelong learning to update knowledge and professional skills and participate as a team member, in the implementation of National Health Programmes
8. To cope in various situations, irrespective of the different cultures or constraints involved and develop leadership skills by means of interaction with peers and leaders within and outside the University

19. Programme Intended Learning Outcomes

The intended learning outcomes are listed under four headings

1. Knowledge and Understanding, 2. Cognitive skills 3. Practical skills 4. Transferable/Capability Skills

Knowledge and Understanding

After undergoing this programme, a student will be able to

KU1: Identify and describe the anatomy and physiology of the stomatognathic system

KU2: Identify and describe various pathology associated with the stomatognathic system and understand relevant diagnostic aids

KU3: Describe treatment methodologies to restore the stomatognathic system to health

KU4: Explain methods of prevention of oral diseases in the individual and the community

Cognitive Skills

After undergoing this programme, a student will be able to

CS1: Diagnose the oral condition of the patient in relation to systemic conditions and Interpret diagnostic data to design a treatment plan

CS2: Apply multidisciplinary simulation techniques available to optimise treatment plans

CS3: Modify known treatment methodologies to best resolve the patient's oral disease

CS4: Develop a cost effective strategy based on Principles of Oral Health promotion for the community at large to improve oral health status while valuing patients and community as partners

Practical Skills

After undergoing this programme, a student will be able to

PS1: Differentiate manifestations of oral diseases by performing clinical examination in an ethical and empathetic manner

PS2: Perform relevant procedures for oral diseases to restore oral health of the patient by selecting appropriate equipment, instruments, simulation labs and materials

PS3: Construct a treatment plan for patients with oral symptoms of systemic health conditions and perform procedures and referral to restore health of the patient with compassion

PS4: Alleviate pain and infection by administration of appropriate medications and manage medical emergencies associated with dental treatment and maxillofacial trauma in an empathetic manner

Capability/ Transferrable Skills

After undergoing the programme, a student will be able to

TS1: Manage information, develop technical reports and make presentations

TS2: Build, Manage and Lead a team to successfully complete a project and communicate across teams and organizations to achieve professional objectives

TS3: Work under various constraints to meet project targets

TS4: Adopt to the chosen profession by continuously upgrading his/her knowledge and understanding through Life-long Learning philosophy

20 Programme content-										
YEAR 1 – I BDS										
	Code	Course Title	Theory			Practical			Total Credits	Max. Marks
			Term 1	Term 2	Total hrs	Term 1	Term 2	Total hrs		
1	BDSMED101	Anatomy – 1 & 2*	45	30	75	75	75	150	10	400
2	BDSMED102	Physiology - 1 & 2*	45	45	90	30	30	60	8	200
3	BDSMED103	Biochemistry - 1 & 2*	30	30	60	30	30	60	6	200
4	BSDDEN101	Dental Histology -1 & 2*	45	30	75	75	75	150	10	400
5	BSDDEN102	Dental Materials - 1 & 2	15	15	30	30	30	60	-	
6	BSDDEN103	Preclin Prosthodontics - 1 & 2	15	15	30	60	60	120	-	
7	AECC01	Law for Dental Profession	15					-	1	
		Total	210	165	360	300	300	600	35	1200
• YEE shall be conducted only for these subjects										
YEAR 2 – 2nd BDS										
	Code	Course Title	Theory			Practical			Total Credits	Max. Marks
			Term 1	Term 2	Total hrs	Term 1	Term 2	Total hrs		
1	BDSMED104	Pathology - 1 & 2*	30	30	60	30	30	60	6	200
2	BDSMED105	Microbiology - 1 & 2*	30	30	60	30	30	60	6	200
3	BDSMED106	Pharmacology - 1 & 2*	30	30	60	-	30	30	5	400
4	BSDDEN102	Dental Materials - 3 & 4*	30	30	60	45	45	90	11	400
5	BSDDEN103	Preclin Prosthodontics - 3 & 4*	15	15	30	90	90	180	14	200
6	BSDDEN104	Preclin Conservative – 1&2*	15	15	30	90	90	180	8	200
7	BSDDEN105	Oral Pathology – 1& 2	15	15	30	30	30	60	--	--
8	AECC02	BLS programme						30	1	
		Total	165	165	330	315	345	690	51	1600
• YEE shall be conducted only for these subjects										
YEAR 3 – 3rd BDS										
	Code	Course Title	Theory			Practical			Total Credits	Max. Marks
			Term 1	Term 2	Total hrs	Term 1	Term 2	Total hrs		
1	BDSMED107	Gen Medicine – 1 & 2*	30	30	60	45	45	90	7	400
2	BDSMED108	Gen Surgery – 1 & 2*	30	30	60	45	45	90	7	400
3	BSDDEN105	Oral Pathology – 3 & 4*	30	15	45	30	30	60	9	400
4	BSDDEN106	Oral Medicine – 1 & 2	15	15	30	25	25	50		
5	BSDDEN107	Pedodontics - 1 & 2	15	15	30	25	25	50		
6	BSDDEN108	Public Health Dent. - 1 & 2	15	15	30	25	25	50		
7	BSDDEN109	Orthodontics - 1 & 2	15	15	30	25	25	50	--	--
8	BSDDEN110	Oral Surgery – 1 & 2	15	15	30	25	25	50		
9	BSDDEN111	Periodontics– 1 & 2	15	30	45	25	25	50		
10	BSDDEN112	Prosthodontics– 1 & 2	15	15	30	25	25	50		
11	BSDDEN113	Conservative Dent. - 1 & 2	15	15	30	25	25	50		
12	AECC03	Patient safety Curriculum						30	1	
13	AECC04	Community orientation Program						150	5	
14	BDSGRP01	UG Group Project/Research	15	15	30	90	90	180	8	
		Total	225	225	450	410	410	1000	37	1200
• YEE shall be conducted only for these subjects										

YEAR 4 – 4th BDS											
	Code	Course Title	Theory			Practical			Total Credits	Max .Marks	
			Term 1	Term 2	Total hrs	Term 1	Term 2	Total hrs			
1	BDSDEN106	Oral Medicine – 3 & 4	15	15	30	50	50	100	9	400	
2	BDSDEN107	Pedodontics - 3 & 4	15	15	30	50	50	100	9	400	
3	BDSDEN108	Public Health Dent. - 3 & 4	15	15	30	50	50	100	9	400	
4	BDSDEN109	Orthodontics - 3 & 4	15	15	30	50	50	100	9	400	
5	BDSDEN110	Oral Surgery– 3 & 4	30	15	45	50	50	100	10	400	
6	BDSDEN111	Periodontics – 3 & 4	15	15	30	50	50	100	10	400	
7	BDSDEN112	Prosthodontics– 3 & 4	30	30	60	50	50	100	11	400	
8	BDSDEN113	Conservative Dent. - 3 & 4	30	30	60	50	50	100	11	400	
9	AECC05	Practice Observership						100	2		
		Total	165	150	315	400	400	900	80	3200	
Year 5 - Compulsory Rotatory Internship											
S. No.	Code	Programme	Practical			Credits					
1	BDSCRI101	Oral Medicine,Diagnosis and Radiology	160			3					
2	BDSCRI102	Periodontology	160			3					
3	BDSCRI103	Pedodontics & Preventive Dentistry	160			3					
4	BDSCRI104	Prosthodontics incl. Crown and Bridge	240			5					
5	BDSCRI105	Public Health Dentistry	160			1					
6	BDSCRI106	Conservative Dentistry and Endodontics	240			5					
7	BDSCRI107	Orthodontics & Dentofacial Orthopedics	160			3					
8	BDSCRI108	Oral & Maxillofacial Surgery	160			3					
9	BDSCRI109	Oral Pathology & Microbiology	160			3					
10	BDSCRI110	Accident & Emergency Medicine	30			1					
11	BDSCRI111	Rural Posting	30			1					
12	BDSCRI112	Comprehensive Oral Health Care	180			3					
13	BDSPCEXX01	Professional Core Elective 1	105			4					
14	BDSPCEXX02	Professional Core Elective 2	105			4					
15	BDSOEXX01	Open Electives	90			3					
TOTAL						46					

Annexure – 1: Credit Structure for the complete programme

Courses	Credit System Structure for BDS					Total Credits
Core Courses	BDSMED101 Anatomy Credits = 10	BDSMED102 Physiology Credits = 8	BDSMED103 Biochemistry Credits = 6	BDSMED104 Pathology Credits = 6	BDSMED105 Microbiology Credits = 6	220
	BDSMED106 Pharmacology Credits = 5	BDSDEN101 Dental Histology Credits = 10	BDSDEN102 Dental Materials Credits = 11	BDSDEN103 Preclinical Prosthodontics Credits = 14	BDSDEN104 Preclinical Conservative Credits = 8	
	BDSDEN105 Oral Pathology Credits = 9	BDSMED107 Gen Medicine Credits = 7	BDSMED108 Gen Surgery Credits = 7	BDSDEN106 Oral Medicine Credits = 9	BDSDEN107 Pedodontics Credits = 9	
	BDSDEN108 Public Health Dentistry Credits = 9	BDSDEN109 Orthodontics Credits = 9	BDSDEN110 Oral Surgery Credits = 10	BDSDEN111 Periodontology Credits = 10	BDSDEN112 Prosthodontics Credits = 11	
	BDSDEN113 Conservative Dentistry Credits = 11					
	BDSMRI101 Oral Medicine, Diagnosis and Radiology Credits = 3	BDSMRI102 Periodontology Credits = 3	BDSMRI103 Pedodontics and Preventive Dentistry Credits = 3	BDSMRI104 Prosthodontics incl. Crown and Bridge Credits = 5	BDSMRI105 Public Health Dentistry Credits = 1	
	BDSMRI106 Conservative Dentistry and Endodontics Credits = 5	BDSMRI107 Orthodontics and Dentofacial Orthopaedics Credits = 3	BDSMRI108 Oral and maxillofacial Surgery Credits = 3	BDSMRI109 Oral Pathology and Microbiology Credits = 1	BDSMRI110 Accident & Emergency Medicine Credits = 1	
	BDSMRI111 Rural Posting Credits = 4	BDSMRI112 Comprehensive Oral Health Care Credits = 3				
Ability Enhancement Compulsory Courses	BDSAECC01 Law for Dental Profession Credits = 1	BDSAECC02 BLS programme Credits = 1	BDSAECC03 Patient safety Course Credits = 1	BDSAECC04 Community Orientation Program Credits = 5	BDSAECC05 Practice Observership Credits = 3	11
Elective: Discipline Specific	BDSPEXX01 Professional Core Elective 1 Credits = 4	BDSPEXX02 Professional Core Elective 2 Credits = 4	BDSGRP01 UG Group Research/ Project Credits = 8			16
Elective: Generic	BDSOEXX1 Open Electives Credits = 3					3
CC = 220, AECC = 11. DSE = 16, GE = 3					Total Credits	250

21 Programme Delivery

As per time table

Teaching and Learning Methods**Theory**

1. Lectures
2. Symposium/Panel Discussion
3. Small Group Discussion
4. Team Teaching
5. Role Play

Practical /Clinical Work

1. Demonstration using ICT /Physical Models / Patients
2. Pre-Clinical Laboratories
3. Clinical Area – FDS
4. Workplace based assessment methods
5. Hospital Setup – MSRMTH

22 Self-Directed learning

1. Assignment
2. Conferences/ seminars/CDE's
3. Workshops
4. Information Centre
5. Observership

3 Assessment and Grading**Assessment of Core Courses**

There are two components for assessment for each course –

Component 1 (Continuous Evaluation CE) and Component- 2 (Year End Exam YEE)

Component 1 (Continuous Evaluation CE) :

It will be assessed for both theory and Practical/clinical for 200 marks except for Pre-Clinical Prosthodontics and Pre-Clinical Operative Dentistry for 100 marks

Theory:

- a. Two Written assessments at the end of term for normally for 50 marks each
- b. One written assignment for 50 marks

Practical/clinical :

- a. Two Practical/clinical assessment for 50 marks each including
 - i. Practical/clinical assessment and record book for 40 marks
 - ii. Viva voce for 10 marks

Component 2 (Year End Exam YEE) :

It will be assessed for both theory and Practical/clinical for 200 marks except for Pre-Clinical Prosthodontics and Pre-Clinical Operative Dentistry for 100 marks at the end of exam year

Theory will have the following components

- a. Written assessment for 70 marks
- b. Viva voce during practical/clinical for 20 marks
- c. 10% weightage of component 1 Theory

Practical/clinical will have the following components

- a. Practical clinical examination for 90 marks
- b. 10% weightage of component 1 Practical/Clinical theory

In case of courses of Pre-Clinical Prosthodontics and Pre-Clinical Operative Dentistry, there will be only Practical exam component for 60 marks and Viva Voce for 20 marks in component 2 and 20% weightage of marks from component 1 will be added to comprise a total of 100 marks.

Assessment of Internship courses, Research and Elective courses and Ability enhancement courses

Assessment will be as per specifications in course specification documents.

24 Attendance

A minimum of 80% attendance compulsory to sit for year-end examinations. Conditions for attendance requirement will be as per Academic Regulations.

25 Award of Class

As per the Academic Regulations.

26 Student support for Learning

1. Course Notes
2. Reference Books in the Library
3. Magazines and Journals
4. Internet Facility
5. Computing Facility
6. Laboratory Facility
7. Clinical / Super specialty facility
8. Staff support
9. Lounges for Discussions
10. Any other support that enhances their learning

27 Quality Control Measures

1. Review of Course Notes
2. Review of Question Papers and Assignment Questions
3. Student Feedback
4. Moderation of assessed work
5. Opportunities for students to see their assessed work
6. Review by external examiners and external examiners reports
7. Staff Student consultative committee meetings
8. Student exit feedback
9. Subject Assessment Board(SAB)
10. Programme Assessment Board(PAB)

28 Curriculum Map

Intended Learning Outcomes																
	Knowledge and Understanding				Cognitive (Thinking) Skills				Practical skills				Transferable skills			
	KU1	KU2	KU3	KU4	CS1	CS2	CS3	CS4	PS1	PS2	PS3	PS4	TS1	TS2	TS3	TS4
CORE COURSES																
BDSMED101	X				X			X	X	X	X					
BDSMED102	X				X	X		X	X	X	X			X		
BDSMED103	X				X	X		X						X		
BDSMED104	X	X		X	X	X			X	X			X	X		
BDSMED105	X	X		X	X	X			X	X			X	X		
BDSMED106			X	X		X	X	X	X	X	X	X	X			
BDSDEN101	X	X			X			X	X	X	X			X		
BDSDEN102			X			X			X	X	X			X		
BDSDEN103	X		X	X		X	X		X			X				
BDSDEN104	X		X	X		X	X		X			X				
BDSDEN105		X	X	X	X	X	X	X	X	X			X	X		
BDSMED107		X	X	X	X	X	X	X	X	X		X	X	X	X	X
BDSMED108	X	X	X		X	X	X		X	X	X		X	X	X	X
BDSDEN106	X	X	X	X	X	X		X	X	X		X	X	X	X	
BDSDEN107	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
BDSDEN108		X	X	X	X	X	X	X	X			X	X	X	X	
BDSDEN109	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
BDSDEN110	X	X	X		X	X	X	X	X	X	X		X	X	X	
BDSDEN111	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
BDSDEN112	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
BDSDEN113	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
INTERNSHIP COURSES																
BDSCRI101	X		X	X	X	X	X		X	X		X			X	X
BDSCRI102	X		X	X	X	X	X	X	X	X		X	X		X	X
BDSCRI103			X	X	X	X	X	X	X	X					X	X
BDSCRI104	X		X	X	X	X	X	X	X	X		X	X		X	X
BDSCRI105	X		X	X		X	X	X	X	X		X	X		X	X
BDSCRI106	X		X	X	X	X	X		X	X		X			X	X
BDSCRI107	X		X	X	X	X	X		X	X		X			X	X
BDSCRI108	X		X	X	X	X	X	X	X	X		X	X		X	X
BDSCRI109			X	X	X	X	X	X	X	X					X	X
BDSCRI110	X		X	X	X	X	X	X	X	X		X	X		X	X
BDSCRI111	X		X	X	X	X	X	X	X	X		X	X		X	X
BDSCRI112	X		X	X	X	X	X	X	X	X		X	X		X	X
BDSPEXX-01	X		X	X	X	X	X	X	X	X		X	X		X	X
BDSPEXX-02	X		X	X		X	X	X	X	X		X	X		X	X
RESEARCH AND ELECTIVE COURSES																
BDSGRP01			X	X			X	X			X	X			X	X
BDSOEXX1	X		X	X	X	X	X		X	X		X			X	X
ABILITY ENHANCEMENT COURSES																
AECC01		X	X	X	X	X	X	X	X	X	X	X		X	X	X
AECC02		X	X		X	X	X	X	X	X	X	X	X		X	X
AECC03		X	X	X	X	X	X	X	X		X	X	X		X	X
AECC04		X	X		X	X	X	X	X		X	X		X	X	X
AECC05		X	X	X	X	X	X	X	X		X	X		X	X	X

Capability/Transferable Skills Map

	GK	SL	WC	VC	P	B	IM	PM	L	AO
CORE COURSES										
BDSMED101	X	X		X	X	X				
BDSMED102	X	X		X	X	X	X			
BDSMED103	X	X	X	X	X	X	X			
BDSMED104	X	X	X	X	X	X	X			
BDSMED105	X	X	X	X	X	X	X			
BDSMED106	X	X	X	X	X	X	X			
BSDSEN101	X	X	X	X	X	X				
BSDSEN102	X	X		X	X	X				
BSDSEN103	X	X		X	X	X		X		
BSDSEN104	X	X		X	X	X		X		
BSDSEN105	X	X	X	X	X	X	X			
BDSMED107	X	X	X	X	X	X	X		X	
BDSMED108	X	X	X	X	X	X	X		X	
BSDSEN106	X	X	X	X	X	X	X			
BSDSEN107	X	X	X	X	X	X	X	X	X	
BSDSEN108	X	X	X	X	X	X	X	X	X	
BSDSEN109	X	X	X	X	X	X	X			
BSDSEN110	X	X	X	X	X	X	X	X	X	
BSDSEN111	X	X	X	X	X	X	X		X	
BSDSEN112	X	X	X	X	X	X	X	X	X	
BSDSEN113	X	X	X	X	X	X	X	X	X	
INTERNSHIP COURSES										
BDSERI101	X	X	X	X	X	X	X		X	
BDSERI102	X	X	X	X	X	X	X	X	X	
BDSERI103	X	X	X	X	X	X	X	X	X	
BDSERI104	X	X	X	X	X	X	X	X	X	
BDSERI105	X	X	X	X	X	X	X	X	X	
BDSERI106	X	X	X	X	X	X	X	X	X	
BDSERI107	X	X	X	X	X	X	X	X	X	
BDSERI108	X	X	X	X	X	X	X	X	X	
BDSERI109	X	X	X	X	X	X	X	X	X	
BDSERI110	X	X	X	X	X	X	X	X	X	
BDSERI111	X	X	X	X	X	X	X	X	X	
BDSERI112	X	X	X	X	X	X	X	X	X	
BDSPEXX-01	X	X	X	X	X	X	X	X	X	
BDSPEXX-02	X	X	X	X	X	X	X	X	X	
RESEARCH AND ELECTIVE COURSES										
BDSGRP01	X	X	X	X	X		X	X	X	
BDSOEX1	X	X	X	X	X	X	X		X	
ABILITY ENHANCEMENT COURSES										
AECC01	X	X	X	X	X					
AECC02	X	X	X	X	X	X		X		
AECC03	X	X								
AECC04	X	X	X	X	X	X	X	X	X	X
AECC05	X	X	X	X	X	X	X	X	X	X

**GK: Group Work; SL: Self Learning; WC: Written Communication; VC: Verbal Communication
P: Presentation; B: Behavioral; IM: Information Management; PM: Personal Management L: Leadership; AO: Any other**

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Co-curricular Activities

Students are encouraged to take part in co-curricular activities like seminars, conferences, symposium, paper writing, attending industry exhibitions, project competitions and related activities for them to enhance their knowledge and network.

31 **Cultural and Literary Activities**

To remind and ignite the creative endeavors annual cultural festivals are held and the students are made to plan and organise the activities.

32 **Sports and Athletics**

Students are encouraged to develop a habit of playing games on daily basis and also take part in annual sports and athletic events.

