

# DATTA MEGHE INSTITUTE OF MEDICAL SCIENCES (DU)

## SCHOOL OF ALLIED SCIENCES



## **DISCOVER A NEW WAY OF LEARNING**

## Proposed

## **Curriculum Document for**

**Regular Mode& ODL Mode** 

## B.Sc. IT (Healthcare)

[Bachelor of Science in Information Technology for Healthcare]



Year of Implementation

Implemented from the AY 2020-21.



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## **Preamble:**

Significant steps are undertaken by the Datta Meghe Institute of Medical Sciences to enhance academic standards and education quality, including innovation and curriculum changes, the teaching-learning process, assessment and evaluation processes, in addition to governance and other matters. From time to time, the university formulates different rules and guidelines to strengthen the education system and ensure minimum standards and quality.

The grading system is considered to be higher than the system of traditional marks and has therefore been adopted in India and abroad by top institutions. The implementation of a standardized grading system is also beneficial. This will promote student mobility between institutions within and across countries and will also enable future employers to evaluate student results.



#### Need for BSC IT Healthcare-Regular& ODL Mode Program

BSC IT Healthcare (Bachelor of Science in Information Technology for Healthcare) (Regular Mode) is a three-year professional Bachelor's Degree in Information Technology awarded in India. The graduate program is designed to meet the growing demand for qualified professionals in the field of Information Technology. The program is inclined more toward Application Development and thus has more emphasis on latest programming language and tools to develop better and faster applications.

BSC IT is a course exclusively designed to meet the requirements for IT trained students for various organizations. This course significantly emphasizes planning, designing and building of complex commercial application software and system software. The course also places equal importance on functional knowledge in various areas. Now, it is specialized with Healthcare system so that, students will have full knowledge about the System used in Medical field, its Complex data and predictive analysis for clinical data. Healthcare providers realized that Technology can play vital role and adopted it intensively in operations to improve patients care.

A three year full-time course is not just a graduate course; it is also a complete professional grooming for students for a successful career in the IT Industry with Emerging trends in Healthcare.

#### **BSC IT Healthcare- Regular Mode- Goal & Objectives**

- **PEO 1:**To progress their career productively in software industry, medical, academia, research, entrepreneurial pursuit, government, consulting firms and other Information Technology enabled services especially in Healthcare.
- PEO 2:To achieve peer-recognition; as an individual or in a team; by adopting ethics and professionalism and communicate effectively to excel well in cross culture and interdisciplinary teams.
- **PEO 3:**To continue a lifelong professional development in computing that contributes in self and societal growth.



# DATTA MEGHE INSTITUTE OF MEDICAL SCIENCES - VISION AND MISSION:

#### Vision:

To emerge as the Global Centre of excellence in the best evidence based higher education encompassing a quality centric, innovative and interdisciplinary approach, generating regulative research and offering effective and affordable health care for the benefit of the mankind.

#### Mission:

DMIMS shall develop competent, confident, concerned, compassionate globally relevant professionals by quality, learner, community and evidence centric 'competency-based model' of higher education with value orientation, through all its constituent units. It shall foster a conducive milieu for interdisciplinary research practices generating consequential and meaningful outcomes for the nation in general and the region in particular. It shall deliver comprehensive quality health care services to the rural, needy, marginalized and underprivileged populace. This shall be achieved through appropriate collaborative linkages and a proactive, transparent and accountable decentralized governance system.

## About School of Allied Sciences:

#### VISION, MISSION AND VALUES

Building a professional workforce of allied research experts. Not only for the current jobs but also for the tasks proposed to be generated in times to come, to invoke the required talents, logical reasoning, out of box thought.

#### THE MISSION OF OURS:

Meeting the needs of lifelong learning by providing learners of all ages with high-quality, affordable, creative and sensitive education and training services, drawing on the strengths of and working with the resources of the university and the community.

#### VALUES OF OURS:

- Providing superb service
- Promoting a working and learning atmosphere that is respectful
- Engaging alliances for outreach and partnerships and giving back to the community
- Providing a range of state, national and international quality programmes and services
- Bringing together the university, continuing education, and our culture
- Opening inclusive, open and protected routes for all students
- Growing Creative Chances
- Responsibly managing capital.



## **PROGRAMME OUTCOMES (PO) for BSC IT HEALTHCARE:**

PO1) Computational knowledge: Acquire knowledge of Computing Fundamentals, Basic Mathematics, Computing Specialization and Domain Knowledge of proper computing models from defined problems.

PO2) Problem analysis: Identify, formulate review research literate and analyze complex engineering problems reading substantiated conclusions using first principles mathematics, computing science and relevant domains.

PO3) Design/development of solutions: Ability to design system s/w or process as per needs and specifications.

PO4) Conduct investigations of complex computing problems: Use research-based knowledge and research methods including design of experiments, analysis & interpretation of data & synthesis of information to provide valid conclusions.

PO5) Modern Tool Usage: Ability to demonstrate skills to use modern s/w & h/w tools to analyze problems.

PO6) Professional Ethics: Apply ethical principles and commit to professional ethics and cyber regulations.

PO7) Life-Long Learning: Ability to develop confidence for self-education and life-long learning in the broadest context of technological change.

PO8) Project management and finance: Ability to demonstrate knowledge & understanding of the engineering and management principles and apply them as a member & as a leader in a team to manage multidisciplinary projects.



## **ELIGIBILITY FOR ADMISSION:**

Passed Higher Secondary (10+2) with Science (Mathematics or Biology)

#### **INTAKE CAPACITY-**

30 For Regular Mode

#### **TEACHING LEARNING METHODOLOGY -**

- The modality of teaching for teaching learning modules will be in the form of didactic
- Lectures, self-directed learning, seminars presentation Microteaching, Practical in Computer Lab etc.

#### **MEDIUM OF INSTRUCTION:**

• English shall be the medium of instruction for all the subjects of study and for examination of the course.

#### **ATTENDANCE:**

A candidate has to secure minimum 80% attendance in overall with at least-

- 1. 75% attendance in class room teaching.
- 2. 80% in computer skills training (practical) for qualifying to appear for the final examination

#### **COURSE DURATION-**

The duration of BSC IT Healthcare programme, under this Direction, shall be of Three years consisting of six semesters i.e. Semesters-I & II in first year and Semesters-III &IV in second year and Semesters-V & VI in third year.



#### CAREER OPPORTUNITY FOR BSC IT HEALTHCARE (REGULAR MODE):

- Software Developer: As a software developer, you would have a central role in building, testing, installing, and maintaining software systems for your clients. Career opportunity will be as Software Developer in IT and in Healthcare or Medical Field.
- Hardware Engineer
- Database Engineer
- Cloud Architect
- Data Scientist in Healthcare: As a Data Scientist in Healthcare plays a huge role in data management. By crunching numbers, data scientists in healthcare are exploring opportunities to predict drug behavior and better understand human disease.
- Business Analyst
- Healthcare Analyst: As a Healthcare Analyst gathers and interprets data from a variety of sources (e.g., the electronic health record, billing claims, cost reports, and patient satisfaction surveys) to help organizations improve the quality of care, lower the cost of care, and enhance the patient experience.
- Technical Writer



#### PROGRAMME STRUCTURE

BSC IT Healthcare is a 3 year program, comprising of 6 semesters. Full BSC IT Healthcare Regular program will be 140 credits program. Semester I have core subjects of IT. Semester II, III, IV and V have specialized Healthcare subjects included along with core subjects from IT. Semester VI is embedded with Apprenticeship /Internship with Sector Skill Councils certification or at any Hospital. Project is also included in Semester VI.

#### BSC IT Healthcare Regular & ODL Programme Course Types & Evaluation Pattern:

		Internal/			Pract	Total		Marks				
Course Code	Core Courses	Universi ty Exam			ical	Hour s	Semeste r End Exam	Internal Assessm ent	Tota 1	Credits		
	BSC IT Healthcare Semester –I											
BSC	Communicatio											
H-	n skills/	Uni	50	10	-	60	70	30	100	4		
101	English											
BSC												
H-	Discrete Mathematics-I	Uni	50	10	-	60	70	30	100	4		
102	Wrathematics-1											
BSC												
H-	Basic Computer studies	Uni	50	10	-	60	70	30	100	4		
103	studies											
BSC	Introduction to	Uni	50	10	-	60	70	30	100	4		
H- 104	Digital Electronics	Om	50	10								
BSC	Programming	Uni	50	10	-	60	70	30	100	4		
H- 105	Concepts using C	Om	50	10								
BSC								• •				
	Basic Computer studies Practical	Uni	-	-	30	30	70	30	100	2		
I)												
BSC H107	Programming	Uni			30	30	70	30	100	2		
(PR- II)	Concepts using C Practical	UIII	-	-	20				100			



		Total Ser	mester -I C	redits					700	24
		<mark>BSC I</mark>	T Healthca	ire Seme	ster –I	I			1 1	
BSC H - 201	Discrete Mathematics-II	Uni	50	10	-	60	70	30	100	4
BSC H - 202	Data Structure and Algorithm	Uni	50	10	-	60	70	30	100	4
BSC H - 203	Web Page Design (HTML+CSS)	Uni	50	10	-	60	70	30	100	4
BSC H - 204	Object Oriented Programming using C++	Uni	50	10	-	60	70	30	100	4
BSC H - 205	Principles of Healthcare Management	Uni	50	10	-	60	70	30	100	2
BSC H - 206 (PR- I)	Web Page Design Practical	Uni	-	-	30	30	70	30	100	2
BSC H - 207 (PR- II)	Object Oriented Programming using C++ Practical	Uni	-	-	30	30	70	30	100	2
		Total Ser	nester -II C	Credits					700	22
BSC IT Healthcare Semester –III										
BSC H - 301	Numerical Methodology & Statistics	Uni	50	10	-	60	70	30	100	4
BSC H - 302	Micro- processor and Microcontroller	Uni	50	10	-	60	70	30	100	4



BSC H - 303	Introduction to Computer Networks	Uni	50	10	-	60	70	30	100	4
BSC H - 304	Hospital Administration in IT	Uni	50	10	-	60	70	30	100	2
BSC H - 305	Operating System & Shell Programming	Uni	50	10	-	60	70	30	100	4
BSC H - 306 (PR- I)	Micro- processor and Microcontroller Practical	Uni	-	-	30	30	70	30	100	2
BSC H - 307( PR- II)	Operating System & Shell Practical	Uni	-	-	30	30	70	30	100	2
		Total Sen	nester -III (	Credits					700	22
		BSC I	<mark>Г Healthca</mark>	re Seme	ster – <mark>F</mark>	V			<u> </u>	
BSC H - 401	Database Management Systems	Uni	50	10	-	60	70	30	100	4
BSC H - 402	Introduction To Core java	Uni	50	10	-	60	70	30	100	4
BSC H - 403	Data Mining and Warehousing	Uni	50	10	-	60	70	30	100	4
BSC H - 404	Clinical Instrumentation with Embedded Systems	Uni	50	10	-	60	70	30	100	4
BSC H - 405	Artificial Intelligence for Healthcare	Uni	50	10	-	60	70	30	100	4
BSC H - 406 (PR- I)	Database Management Systems Practical	Uni	-	-	30	30	70	30	100	2
BSC H - 407 (PR-	Introduction To Core java Practical	Uni	-	-	30	30	70	30	100	2



II)										
		Tota	al Semester	-IV Cre	dits				700	24
	<u> </u>	<mark>BSC ľ</mark>	T Healthca	re Seme	ster – V	/			ļ	
BSC H- 501	Visual Basic Programming	Uni	50	10	-	60	70	30	100	4
BSC H- 502	Python	Uni	50	10	-	60	70	30	100	4
BSC H- 503	Compiler Construction	Uni	50	10	-	60	70	30	100	4
BSC H- 504	Cyber Security for Healthcare	Uni	50	10	-	60	70	30	100	4
BSC H- 505	Applied Health Informatics	Uni	50	10	-	60	70	30	100	4
BSC H- 506(P R-I)	Visual Basic Programming Practical	Uni	-	-	30	30	70	30	100	2
BSC H- 507 (PR- II)	Python Practical	Uni	-	-	30	30	70	30	100	2
		Total Ser	nester -V C	Credits					700	24
		BSC I	F Healthca	re Semes	ster –V	Ί			ļ	
BSC H - 601	Apprenticeship /Internship with Sector Skill Councils certification or at any Hospital	-	10	50	_	60	0	100	100	4
BSC H- 602	RDBMS using Oracle	Uni	50	10	-	60	70	30	100	4
BSC H- 603	Image Processing for Healthcare	Uni	50	10	-	60	70	30	100	4



BSC H- 604 (PR- I)	Image Processing for Healthcare Practical	Uni	-	-	30	30	70	30	100	2
BSC H- 605 (PR- II)	RDBMS using Oracle Practical	Uni	-	-	30	30	70	30	100	2
BSC H - 606	Project	Uni	30	30	-	60	150	50	200	8
Total Semester -VI Credits								700	24	
Total Credits										<mark>140</mark>



## BSC IT Healthcare- (Bachelor of Science in

## Information Technology for Healthcare)

## <mark>Regular Mode</mark>

#### Semester -I

			Ma	ontinuous Summative Assessment		Regular Mode
Course Code	Course Title	Credits	Formative Continuous Assessment			course delivery: Learner's engagement in hours
BSCH- 101	Communication skills/ English	4	30	70	100	60
BSCH- 102	Discrete Mathematics-I	4	30	70	100	60
BSCH- 103	Basic Computer studies	4	30	70	100	60
BSCH- 104	Introduction to Digital Electronics	4	30	70	100	60
BSCH- 105	Programming Concepts using C	4	30	70	100	60
BSCH1 06 (PR- I)	Basic Computer studies Practical	2	30	70	100	30
BSCH1 07 (PR- II)	Programming Concepts using C Practical	2	30	70	100	30
	Total	24			700	

Semester-II



			Ma	Marks		Regular Mode course
Course Code	Course Title	Credits	Formative Continuous Assessment	Summative Assessment	Total Marks	delivery: Learner's engagement in hours
	Discrete Mathematics-II	4	30	70	100	60
	Data Structure and Algorithm	4	30	70	100	60
BSCH - 203	Web Page Design	4	30	70	100	60
204	Object Oriented Programming using C++	4	30	70	100	60
BSCH -	Principles of Healthcare Management	2	30	70	100	30
BSCH - 206 (PR- I)	Web Page Design Practical	2	30	70	100	30
207 (PR-	Object Oriented Programming using C++Practical	2	30	70	100	30
	Total	22			700	

## Semester -III

			Ma	arks		Regular Mode course
Course Code	Course Title	Credits	Formative Continuous Assessmen t	Summative Assessment	Total Marks	delivery: Learner's engageme nt in hours
BSCH -301	Numerical Methodology & Statistics	4	30	70	100	60



BSCH -302	Micro-processor and Microcontroller	4	30	70	100	60
BSCH -303	Introduction to Computer Networks	4	30	70	100	60
BSCH -304	Hospital Administration in IT	2	30	70	100	60
BSCH -305	Operating System & Shell Programming	4	30	70	100	60
BSCH -306 (PR-I)	Micro-processor and Microcontroller Practical	2	30	70	100	30
BSCH - 307(PR-II)	Operating System & Shell Practical	2	30	70	100	30
	Total	22			700	

## Semester-IV

Course Code	Course Title	Credits	Ma Formative Continuous Assessment	arks Summative Assessment	Total Marks	Regular Mode course delivery: Learner's engagement in hours
BSCH - 401	Database Management Systems	4	30	70	100	60
BSCH - 402	Introduction To Core java	4	30	70	100	60
BSCH - 403	Data Mining and Warehousing	4	30	70	100	60
BSCH - 404	Clinical Instrumentation with Embedded Systems	4	30	70	100	60
BSCH -405	Artificial Intelligence for Healthcare	4	30	70	100	60
BSCH - 406 (PR-I)	Database Management Systems Practical	2	30	70	100	30



BSCH - 407 (PR- II)	Introduction To Core java Practical	2	30	70	100	30
	Total	24			700	

## Semester- V

			Ma	Marks		Regular Mode course
			Formative	Summative		delivery: Learner's
			Continuous	Assessment	Total	engagement
Course Code	Course Title	Credits	Assessment		Marks	in hours
BSCH-501	Visual Basic Programming	4	30	70	100	60
BSCH-502	Python	4	30	70	100	60
BSCH-503	Compiler Construction	4	30	70	100	60
BSCH-504	Cyber Security for Healthcare	4	30	70	100	60
BSCH-505	Applied Health Informatics	4	30	70	100	60
BSCH- 506(PR-I)	Visual Basic Programming Practical	2	30	70	100	30
BSCH-507 (PR-II)	Python Practical	2	30	70	100	30
	Total	24			700	

## Semester-VI



		<u> </u>				
		Ma	arks		Regular Mode course	
			Formative	Summative		delivery:
			Continuous	Assessment	Total	Learner's engagement
Course Code	Course Title	Credits	Assessment		Marks	in hours
BSCH - 601	Apprenticeship /Internship with Sector Skill Councils certification or at any Hospital	4	Nil	100	100	60
BSCH-602	RDBMS using Oracle	4	30	70	100	60
BSCH-603	Image Processing for Healthcare	4	30	70	100	60
BSCH- 604(PR-I)	Image Processing for Healthcare Practical	2	30	70	100	30
BSCH-605 (PR-II)	RDBMS using Oracle Practical	2	30	70	100	30
BSCH - 606	Project	8	150	50	200	120
	Total	24			700	

**Programme Title** 

**BSC IT Healthcare- (Bachelor of Science in Information** 

**Technology** 

<u>for Healthcare)</u>

ODL Mode



## Semester -I

			Marks			ODL Mode
Course Code	Course Title	Credits	Formative Continuous Assessment	Summative Assessment	Total Marks	delivery: Learner's engagement in hours
BSCH-101	Communication skills/ English	4	30	70	100	120
BSCH-102	Discrete Mathematics-I	4	30	70	100	120
BSCH-103	Basic Computer studies	4	30	70	100	120
BSCH-104	Introduction to Digital Electronics	4	30	70	100	120
BSCH-105	Programming Concepts using C	4	30	70	100	120
BSCH106 (PR-I)	Basic Computer studies Practical	2	30	70	100	60
BSCH107 (PR-II)	Programming Concepts using C Practical	2	30	70	100	60
	Total	24			700	

## Semester-II

	Marks	ODL Mode course
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Course Code	e Course Title	Credits	Formative Continuous Assessment	Summative Assessment	Total Marks	delivery: Learner's engagement in hours
	Discrete Mathematics-II	4	30	70	100	120
	Data Structure and Algorithm	4	30	70	100	120
BSCH - 203	Web Page Design	4	30	70	100	120
204	Object Oriented Programming using C++	4	30	70	100	120
BSCH -	Principles of Healthcare Management	2	30	70	100	60
BSCH -	Web Page Design Practical	2	30	70	100	60
207 (PR-	Object Oriented Programming using C++ Practical	2	30	70	100	60
	Total	22			700	

### Semester -III

	Marks	ODL
		Mode
		course



Course Code	Course Title	Credits	Formative Continuous Assessment	Summative Assessment	Total Marks	delivery: Learner's engagemen t in hours
BSCH - 301	Numerical Methodology & Statistics	4	30	70	100	120
BSCH - 302	Micro-processor and Microcontroller	4	30	70	100	120
BSCH - 303	Introduction to Computer Networks	4	30	70	100	120
BSCH - 304	Hospital Administration in IT	2	30	70	100	60
BSCH - 305	Operating System & Shell Programming	4	30	70	100	120
BSCH - 306 (PR-I)	Micro-processor and Microcontroller Practical	2	30	70	100	60
BSCH - 307(PR-II)	Operating System & Shell Practical	2	30	70	100	60
	Total	22			700	

## Semester-IV

Course Code	Course Title	Credits	Ma Formative Continuous Assessment	rks Summative Assessment	Total Marks	ODL Mode course delivery: Learner's engagement in hours
BSCH - 401	Database Management Systems	4	30	70	100	120
BSCH - 402	Introduction To Core java	4	30	70	100	120
BSCH - 403	Data Mining and Warehousing	4	30	70	100	120
BSCH - 404	Clinical Instrumentation with Embedded	4	30	70	100	120



	Systems					
BSCH -405	Artificial Intelligence for Healthcare	4	30	70	100	120
BSCH - 406 (PR-I)	Database Management Systems Practical	2	30	70	100	60
BSCH - 407 (PR- II)	Introduction To Core java Practical	2	30	70	100	60
	Total	24			700	

## Semester- V

Course Code	Course Title	Credits	Ma Formative Continuous Assessment	arks Summative Assessment	Total Marks	ODL Mode course delivery: Learner's engagement in hours
BSCH-501	Visual Basic Programming	4	30	70	100	120
BSCH-502	Python	4	30	70	100	120
BSCH-503	Compiler Construction	4	30	70	100	120
BSCH-504	Cyber Security for Healthcare	4	30	70	100	120
BSCH-505	Applied Health Informatics	4	30	70	100	120
BSCH- 506(PR-I)	Visual Basic Programming Practical	2	30	70	100	60
BSCH-507 (PR-II)	Python Practical	2	30	70	100	60
	Total	24			700	

## Semester-VI



			Mæ	arks		ODL Mode course
			Formative	Summative		delivery:
			Continuous	Assessment	Total	Learner's engagement
Course Code	Course Title	Credits	Assessment		Marks	in hours
BSCH - 601	Apprenticeship /Internship with Sector Skill Councils certification or at any Hospital	4	Nil	100	100	120
BSCH-602	RDBMS using Oracle	4	30	70	100	120
BSCH-603	Image Processing for Healthcare	4	30	70	100	120
BSCH- 604(PR-I)	Image Processing for Healthcare Practical	2	30	70	100	60
BSCH-605 (PR-II)	RDBMS using Oracle Practical	2	30	70	100	60
BSCH - 606	Project	8	150	50	200	240
	Total	24			700	

Norms of Credit Structure for Self Learning Material Development Non-Print Form



No. of co	ounseling sessions	(theory)				
Syn Chat 5%	Asyn** Discussion Forum (comp)	Syn* (f2f)# (optl) 10%	Size of e-content (in terms of units)	Study input	Credit value of the course	
3 hrs	2-10 topics per course as per the subject	6 hrs	6-8 units	60 hours	2 credits	
6 hrs	-do-	12 hrs	14-16 units	120 hours	4 credits	
9 hrs	-do-	18 hrs	20-24 units	180 hours	6 credits	
	-do-	24 hrs	30-34 units	240 hours	8 credits	

#### Table 3: Norms of Credit Structure for Self Learning Material Development Non-Print Form

\* Syn : Synchronous

\*\*Asyn : Asynchronous

# f2f : face-to-face

Norms for Delivery of Courses in ODL Mode



S. No.	Credit value of the course	No. of Weeks	No. of Interactive Sessions		Hours of Study Material		Self-Study hours	Total Hours of Study
			Synchronous Online Counselling/ Webinars/ Interactive Live Lectures	Discussion Forum/ asynchronous Mentoring (2 hours per week)	e-Tutorial in hours	e-Content hours	nours including Assessme nt etc.	(based on 30 hours per credit)
			(1 hour per week)					
1.	2 credits	6 weeks	6 hours	12 hours	10	10	22	60
2.	4 credits	12 weeks	12 hours	24 hours	20	20	44	120
3.	6 credits	14 weeks	14 hours	28 hours	30	30	66	180
4.	8 Credits	16 weeks	16 hours	32 hours	40	40	88	240



## Elaboration of Norms for Delivery of Courses in ODL Mode BSC IT Healthcare ODL

SR	Credit	No.	e-Tutorial;	e-Content;	Discussion	Assessmen	Self-Study	Total
•	value	of	which shall	which shall	forum/	t, which	hours	Hour
No	of the	Week	contain:	contain;	Webinar	shall	including	s of
	course	s	Video and	self-	for raising	contain;	Assessme	Study
			Audio	instructiona	of doubts	Problems	nt etc	(base
			Content in an	l material	and	and		d on
			organized	(digital Self	clarifying	Solutions,		30
			form,	Learning	the same	which		hours
			Animation,	Material),	on real	could be in		per
			Simulations,	e-Books,	time basis	the form of		credit
			video	illustrations	by the	Multiple		
			demonstratio	, case	Course	Choice		
			ns in Hours	studies,	Coordinato	Questions		
				presentatio	r/ Contact	in Hours		
				ns etc, and	Session in			
				also contain	Hours - 10			
				Web	% of Total			
				Resources	Hours			
				in Hours				
1.	4	12	20 Hrs.	20 Hrs.	12Hrs for	10 Hrs.	50 Hrs.	120
	Credit	Week			Contact			Hrs.
	S	S			Session + 8			
					Hrs. For			
					Discussion			
					Forum			