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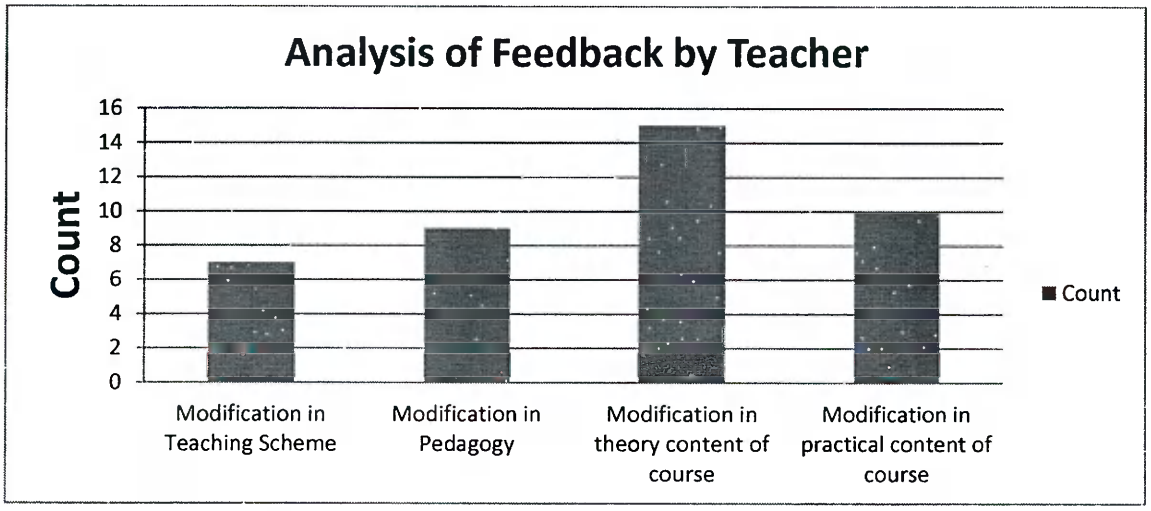
Department of Information Technology

Analysis of Feedback on Syllabus

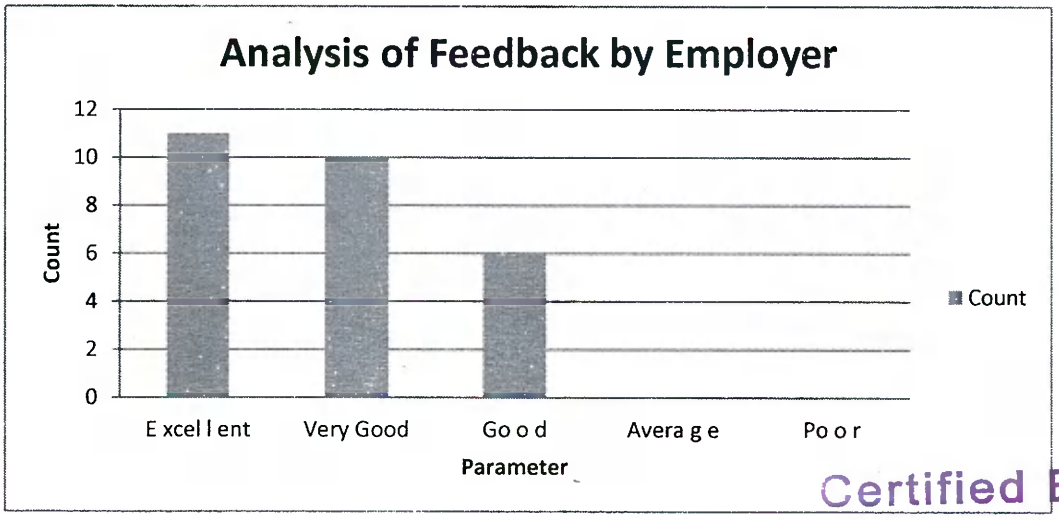
AY: 2015-16

- **Analysis of Feedback by Teacher**



- **Analysis of Feedback by Student**
  - Capstone Course was introduced in curriculum which is very helpful for various technical competitive exams.
  - Some students insist there should be 50-50 ratio of practical and theory exam.
  - Almost all students were satisfied with updated syllabus.

- **Analysis of Feedback by Employers**



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Analysis of Feedback on Syllabus

AY: 2015-16

- **Analysis of Feedback by Alumni**

  - There should be inclusion of some topics like XSLT, XPath, XML, XQuery, RDF & RSS in advanced web technology.
  - The course "Language Processor" is important for competitive exam hence it should be offered as compulsory course.
  - The department should offer the courses related to recent technology like machine learning and cloud computing.
  - There should be more practical hours and are more connected to real world.

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Chandubhai S Patel Institute of Technology

Summary and Action Taken Report of Feedback on Curriculum
AY: 2015-16

Category	Comments	Action Taken
Alumni	• There should be inclusion of some topics like XSLT, XPath, XML, XQuery, RDF & RSS in advanced web technology.	• The course of "Advanced Web Technology" has been updated as per suggestion. • Considered in 12th BoS 03-sep-2016.
	• The course "Language Processor" is important for competitive exam hence it should be offered as compulsory course.	• Language processor course has been considered to offer as regular course in final year. • Considered in 12th BoS 03-sep-2016.
	• The department should offer the courses related to recent technology like machine learning and cloud computing.	• Department has Introduced machine Learning as a course in our curriculum. NLP has been covered as a part of an AI course. • Considered in 12th BoS 03-sep-2016.
Student	• Capstone Course was introduced in curriculum which is very helpful. More such courses will help in preparing competitive exams.	• Department teachers have started solving Gate exam questions in every course to prepare student for competitive exam.
	• There should be 50-50 ratio of practical and theory exam.	• The suggestion was not incorporated as it was not feasible and considered for resolution in future.
Employers	• There is need to change the sequence of few courses as per their relevancy and dependency.	• The proposed teaching scheme has been prepared as per suggestion and presented in 12th BoS for approval.
Teacher	Modification in, • Teaching scheme, • Theory contents, • Practical contents of few courses.	• Department has considered suggested changes by the teachers into BOS and incorporated it into the new teaching scheme. • Considered in 12th BoS 03-sep-2016.

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Minutes – 12th Meeting of Board of studies of Department of Information Technology

Date : September 03, 2016, Saturday
Time : 10:00 am
Venue : Conference Room, Building-II, CSPIT, CHARUSAT Campus

The 12th meeting of the Board of studies, Department of Information Technology, FTE, Charotar University of Science & Technology (CHARUSAT) was held on 3rd September, 2016 at 10:00 a.m. onwards at conference room (CE/IT), CSPIT, CHARUSAT campus.
Following BOS members were remained present:

1.	Prof. Parth Shah	Chairman	HOD, IT Dept
2.	Dr. Amit Ganatra	Member	Dean, Faculty of Tech & Engg
3.	Prof. M A Zaveri	External	Professor, SVNIT, Surat
4.	Prof. M T Savaliya	External	Head, CE Dept., VGEC, Chandkheda
5.	Mr. Dipak Patel	External	Director, Charlie Computers, Ahmedabad
6.	Prof. Amit Thakkar	Member	Asso. Prof.
7.	Mr. Chintan Gajjar	Member	Asst. Prof.
8.	Mr. Amit Nayak	Member	Asst. Prof.
9.	Mr. Bimal Patel	Member	Asst. Prof.
10.	Mr. Nirav Bhatt	Member	Asst. Prof.
11.	Ms. Purvi Prajapati	Member	Asst. Prof.
12.	Ms. Ayesha Shaikh	Member	Asst. Prof.

Initiation:

Head of the Department of Information Technology, Prof. Parth Shah welcomed all the members of Board of Studies to the 12th meeting. He briefed the overall activities carried out by the department during last year.

Agenda Proceedings & Resolutions:-

Item 12.01: For Discussion and Approval;

To approve the proposed teaching scheme for all the semesters of B Tech CBCS courses effective from 2016 admitted batch.

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Proceedings 12.01:

- Department had collected feedback of industry experts, academician, students and faculty members. Based on those feedbacks, proposed teaching scheme, examination scheme and syllabus of different courses were prepared.
- Different course groups have been formed for design and update of detail syllabus which will be offered in proposed CBCS teaching scheme (Course Group Information available in Annexure-I). Minutes of details discussion of each course group have been attached in Annexure-II.
- Experts have suggested change in nomenclature of Computer concepts & programming to Computer program practices in semester-I.
- Experts have suggested change in nomenclature of Basics of electronics engineering to Basics of Electrical & Electronics in semester-I.
- Experts have suggested change in nomenclature of ICT workshop in semester-I.
- Experts have suggested change in nomenclature of English language & literature to English language in semester-II.
- Experts have suggested change in nomenclature of Object-Oriented Programming with C++ in semester-II.
- Experts have suggested change in nomenclature of Operating System Fundamentals to Operating Systems in semester-V.
- Experts have suggested change in nomenclature of Computer Networking to Computer Networks in semester-V.
- Experts have suggested including XSLT, XPath, XML, XQuery, RDF & RSS etc. in Advanced Web Technology in semester-V.
- Experts have suggested that Operating System Administration could not be offered as Elective subject in semester-V.
- Experts have suggested that Language Processor should not be offered as Elective subject in semester-VI.
- Experts have suggested change in nomenclature of Intelligent System to Artificial Intelligence or Machine Learning in semester-VI.
- Experts have suggested change in nomenclature of Image Processing & Multimedia System to Multimedia Communication in semester-VII.

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- Experts have suggested that Advanced Computer Graphics, Big Data & Analytics, Information Retrieval & Optimization Methods can be offered as Elective courses in semester-VII.
- Experts have suggested that Modeling Simulation & Operation Research should not be offered in semester-VII
- Experts have suggested change in nomenclature of Capstone course to Capstone Project or Comprehensive course. Or it could be removed from semester-VII.
- Experts have suggested that Data Compression should not be offered as Elective subject in semester-VII.
- Experts have suggested change in nomenclature of Advanced Computing to Cloud Computing as an elective in semester-VII.

Resolutions 12.01:

- Computer concepts & programming, Basics of electronics engineering English language & literature courses are offered in 1st year, which have been already executed for the current academic year. Hence nomenclature is not possible for the current academic year. It would be proposed in future revision.
- As per the suggestion of experts, Computer Networking, Intelligent System, Image Processing & Multimedia System, Advanced Computing have been renamed to Computer Network, Machine learning, Multimedia Communication, Cloud Computing respectively.
- Capstone course and Modeling Simulation & Operation Research have been removed from semester-VII.
- Based on the suggestions groups of electives have been reformed. (Annexure III)

Item 12.02: For Discussion and Approval;

To approve the Teaching scheme and detailed syllabus for 2nd year CBCS courses effective for 2016-17 admitted batch during 2017-18 academic year.

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Proceedings 12.02:

- The teaching and examination scheme with detailed syllabus of 2nd year B Tech (CBSC) scheme for 2016-17 admitted batch (Annexure-III) and 2nd year B Tech (Existing Teaching Scheme) with detailed syllabus as per attached in (Annexure-IV) were presented to the board members.
- Experts have suggested change in nomenclature of Discrete Mathematics and Application to Discrete Mathematics in semester-III.
- Experts have suggested change in nomenclature of Data Communication & Networking to Data Communication in semester-III. For the same Data Communication & Networking by Behrouz A. Forouzan book can be used as textbook.
- Experts have suggested that Java Programming subject name should have same name in both CE & IT branch. It should be Java Programming or Object-oriented programming using Java in semester-III.
- Experts have suggested change in nomenclature of Digital logic & design to Digital Electronics in semester-III and also suggested to include TTL & CMOS topics in syllabus.
- Experts have suggested theme-based ITC project in different semester for Software Group Project (SGP-I, SGP-II & SGP-III). It should have some broad theme like ITC in digital India, Agriculture, and Governance etc.
- Experts have suggested change in nomenclature of Probability, Statistic & Numerical Analysis to Probability & Statistical Methods in semester-IV.
- Experts have suggested change in nomenclature of Computer Organization & Microprocessor to Computer Organization & Microprocessor Interfacing in semester-IV.
- Experts have suggested change in nomenclature of Web Technologies to Web Engineering in semester-IV and also suggested to include web interfaces, web server etc. topics in syllabus.
- Experts have suggested change in nomenclature of Critical Thinking and Logic to Critical Thinking in semester-IV.

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Resolutions 12.02:

- The teaching and examination scheme of 2nd year B Tech (CBCS) with detailed syllabus of 3rd and 4th semester of B Tech courses scheme effective from 2016-17 was reviewed by the experts.
- Experts have suggested change in nomenclature of Java Programming semester-III.
- Discrete Mathematics and Application course name has been changed to Discrete Mathematics in semester-III.
- Data Communication & Networking course name has been changed to Data Communication in semester-III.
- Digital logic & design course name has been changed to Digital Electronics in semester III and suggested contents have been included.
- Experts have suggested change in nomenclature of Statistical And Numerical Techniques semester-IV.
- Experts have suggested change in nomenclature of Data Structures & Algorithms semester-IV.
- Experts have suggested change in nomenclature of Database Management System semester-IV.
- Computer Organization & Microprocessor has been changed to Computer Organization & Microprocessor Interfacing in semester-IV.

Item 12.03: For Discussion and Approval;

To approve the syllabus of Final year for 2013 admitted batch.

Proceedings 12.03:

- Final year syllabus of 2013 admitted batch had been already approved in 10th BOS meeting which was held on 23rd August, 2014.

Resolutions 12.03:

- Based on expert suggestion teaching and examination scheme had been approved for B Tech 4th year (7th & 8th semester) in 10th BOS.

Item 12.04: For Discussion and Approval;

To review and approve any change in PG Syllabus of CBCS courses.

Proceedings 12.04:

- No change has been made to current syllabus of PG CBCS.

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Item 12.05: For Discussion and Approval;

Preparation, Discussion and approval for the elective courses (University, Institute and Program Electives)

Approval of IT771-Cyber Security and Laws course as a University Elective in PG.

Approval of teaching and examination scheme for proposed PG in information and Network Security.

Proceedings 12.05:

- As per directives of university certain courses have been introduced as university elective in M Tech 1st and 2nd semester as per list given below: (Annexure-V)

Course Code	Semester 1 (University Elective I)	Course Code	Semester 2 (University Elective II)
MA771	Reliability and Risk Analysis	EE782	Energy Audit and Management
EE781	Optimization Techniques	CE771	Project Management
ME781	Occupational Health and Safety	IT771	Cyber Security and Laws
CE772	Research Methodology	CA842	Mobile Application Development
CA730	Internet and Web Designing	PT796	Fitness and Nutrition
PT795	Health and Physical Activity	NR752	Epidemiology and Community Health
NR751	Women's Health	OC733	Introduction to Polymer Science
RD701	Introduction to Analytical Techniques	MB651	Software based Statistical Analysis
RD702	Introduction to Nano science and Technology	PH826	Intellectual Property Rights
MB650	Creative Leadership	MA772	Design of Experiments
PH825	Community Pharmacy Ownership		

Resolutions 12.05:

- IT771 is approved to be offered as a University Elective from IT Dept.
- Rests of the courses have been found appropriate as university elective for PG.
- Experts have reviewed proposed teaching and examination scheme and approved.

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Item 12.06: For Discussion and Approval;

Approval of PO & PEO

Proceedings 12.06:

- Discussion on current PO & PEO of department.
- University has been accredited grade 'A' by NAAC and NBA.
- Placement record and result analysis as per attached in Annexure-VI & Annexure-VII.

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Chairman - BOS

Prof. Parth Shah
Head of Department of Information Technology
CSPIT - CHARUSAT

Dean- Faculty of Technology

Dr. A P Ganatra
Dean- Faculty of Technology
Head of U & P U Patel Department of Computer Engineering
CSPIT - CHARUSAT

External Experts

Prof M A Zaveri
Assoc Professor, SVNIT,
Surat

Prof. M T Savaliya
Head, Computer Dept,
VGEC, Chandkheda

Mr. Dipak Patel
Director, Charlie Computers,
Ahmedabad

BOS members

Prof. Amit Thakkar
CSPIT - CHARUSAT

Prof. Chintan Gajjar
CSPIT - CHARUSAT

Prof. Amit Nayak
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Prof. Bimal Patel
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CSPIT - CHARUSAT

Prof. Nirav Bhatt
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Prof. Ayesha Shaikh
CSPIT – CHARUSAT

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CHARUSAT Campus, Changa, ANAND District-388 421 (Gujarat) India. Ph # +91-2697-265011,265021
Fax # +91-2697-265007 E-mail : info@charusat.ac.in Web : www.charusat.ac.in

Date: 30th Aug, 2016

To,

Prof M T Savaliya
Head
VGEC, Chandkheda

Subject: To invite you to upcoming Board of Studies (BoS) meet

Dear Sir,

As you aware that Education Campus - Changa, with its constituent technical institutes, is now transformed into Charotar University of Science & Technology (CHARUSAT) - A University Par Excellence.

In view of this development, we take the privilege to invite you in meet of Board of studies as an External Expert. Herewith the agendas for the meeting are enclosed.

Day and Date	: 3rd September, 2016, Saturday
Time	: 10:00 a.m. onwards
Venue	: Conference Hall, Building II (CE/IT Building, CSPIT)

We do hope you will be able to act as an expert in the panel; your experience and comments will add an important dimension to what is potentially a very important discussion for the field.

Thank you again for your continued support.

Sincerely,

Prof Parth Shah
Chairman, BoS
Department of Information Technology

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Course Group for CBCS Detailed syllabus design/modification

Course Group	Courses	Faculty
JAVA & Web Development Group:	JAVA,AJAVA,WT,.Net	PDS,PKS,SMP,JHV,RVP,HNY,JHV,HPP
Network & Security Group:	DCN,CN,WCMC,CRNS,	AJN,BHP,PMP,NHB,PNP,RVP,HNY
Computing Group:	COM,OS,AOS,HPCA,AC,LP	PDS, CHS,JC,HSS,PPP,SPP, CHS,AS, JC, CAG, NHB,PNP,HNS
Data Management Group:	DSA,DAA,DBMS,ADBMS,DWDM	ART,PMP,CAG,SPR,AMP,JC,PNP,JHV, BHP,NHB,NAP,AS
Software Development & Management Group:	SE,ERP	BHP,MDP,SBS
Comp. Vision & Image Processing Group:	GP[Graphics Prog],IP,DC	JC,CAG,ART,PPP
Embedded Group:	ES,IOT,DE	BLK,JP,BG
MSOR Group:	MSOR	SBS,JRP

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Existing

CHAROTAR UNIVERSITY OF SCIENCE & TECHNOLOGY (CHARUSAT 2014) Existing

TEACHING & EXAMINATION SCHEME FOR B TECH PROGRAMME IN CE/IT/EC ENGINEERING

Sem	Course Code	Course Title	Teaching Scheme					Examination Scheme				
			Contact Hours				Credit	Theory		Practical		Total
			Theory	Practical	Tutorial	Total		Internal	External	Internal	External	
FY Sem-1	MA101	Engineering Mathematics-I	4	0	1	5	4	30	70	0	0	100
	HS101-HS106	A Course from Liberal Arts	2			2	2			50	50	100
	ME102	Fundamentals of Mechanical Engineering	4	2	0	6	5	30	70	25	25	150
	EC101	Basics of Electronics Engineering	3	2	0	5	4	30	70	25	25	150
	CE103	Computer Concepts & Programming	3	4	1	8	5	30	70	50	50	200
	IT102	ICT Workshop Practicies	0	2	0	2	1			25	25	50
	CL102.01	Environmental Sciences	2	0	0	2	2	30	70	0	0	100
		Student Counselling/Self Study				6						
			18	10	2	36	23	150	350	175	175	850
FY Sem-2	MA102	Engineering Mathematics-II	4	0	1	5	4	30	70	0	0	100
	HS121A	English Language & Literature	2			2	2	25	25	25	25	100
	CL104	Basics of Civil Engineering	2	2	0	4	3	30	70	25	25	150
	ME101.01	Engineering Graphics	2	4	1	7	4	30	70	50	50	200
	CE104	Object Oriented Programming with C++	3	4	0	7	5	30	70	50	50	200
	PY101	Engineering Physics	3	2	0	5	4	30	70	25	25	150
		Remedial Classes/Make-up Classes/Mentoring				6						
			16	12	2	36	22	175	375	175	175	900

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CHAROTAR UNIVERSITY OF SCIENCE & TECHNOLOGY (CHARUSAT)

TEACHING & EXAMINATION SCHEME FOR B TECH PROGRAMME IN IT

\	Course Code	Course Title	Teaching Scheme					Examination Scheme				
			Contact Hours				Credit	Theory		Practical		Total
			Theory	Practical	Tutorial	Total		Internal	External	Internal	External	
SY Sem-3	MA207	Discrete Mathematics and Application	4	0	0	4	4	30	70	0	0	100
	IT217	Digital Logic & Design	4	2	1	7	5	30	70	25	25	150
	IT216	Java Programming	2	4	1	7	4	30	70	50	50	200
	EM201.01	Fundamentals of Management	4	0	0	4	4	30	70	0	0	100
	IT210	Data Communication	4	2	1	7	5	30	70	25	25	150
	HS122A	Values and Ethics	2	0	0	2	2	30	70	0	0	100
	IT211	Software Group Project-I	0	2	0	2	1	0	0	25	25	50
		Assignement Practices/Student Counseling/Remedial Classes	0	3	0	3	0	0	0	0	0	0
			20	13	3	36	25	180	420	125	125	850
SY Sem-4	MA206.01	Statistical & Numerical Methods	3	0	1	4	3	30	70	0	0	100
	IT212	Computer Organization & Microprocessor	3	2	1	6	4	30	70	25	25	150
	IT213	Web Technologies	2	4	0	6	4	30	70	50	50	200
	IT214	Data Structures & Files	3	4	1	8	5	30	70	50	50	200
	IT201.01	Database Management System	3	2	1	6	4	30	70	25	25	150
	HS123	Critical Thinking and Logic	2	0	0	2	2	50	50	0	0	100
	IT215	Software Group Project-II	0	2	0	2	1	0	0	25	25	50
		Assignement Practices/Student Counseling/Remedial Classes	0	2	0	2	0	0	0	0	0	0
			16	16	4	36	23	200	400	175	175	950

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CHAROTAR UNIVERSITY OF SCIENCE & TECHNOLOGY (CHARUSAT)

TEACHING & EXAMINATION SCHEME FOR B TECH PROGRAMME IN IT

\	Course Code	Course Title	Teaching Scheme					Examination Scheme				
			Contact Hours				Credit	Theory		Practical		Total
			Theory	Practical	Tutorial	Total		Internal	External	Internal	External	
TY Sem-5	IT302.02	Design & Analysis of Algorithm	4	2	0	6	5	30	70	25	25	150
	MA301.01	Modelling Simulation & Operation Research	3	0	1	4	3	30	70	0	0	100
	IT314	Operating System Fundamentals	4	4	0	8	6	30	70	50	50	200
	IT303.02	Advanced Database Management System	3	2	1	6	4	30	70	25	25	150
	HS124A	Professional Communication	0	2	0	2	2	0	0	30	70	100
		Elective I	2	4	0	6	4	30	70	50	50	200
	IT318	Software Group Project-III	0	2	0	2	1	0	0	25	25	50
		Assignment Practices/Student Counseling/Remedial Classes	0	2	0	2	0	0	0	0	0	0
			16	18	2	36	25	150	350	205	245	950
TY Sem-6	IT315	Computer Networking	4	2	0	6	5	30	70	25	25	150
	IT319	Capstone Course	4	0	1	5	4	30	70	0	0	100
	IT306.02	Cryptography & Network Security	4	4	0	8	6	30	70	50	50	200
	IT307.02	Software Engineering	3	2	1	6	4	30	70	25	25	150
		Elective II	3	2	0	5	4	30	70	25	25	150
	IT322	Software Group Project-IV	0	2	0	2	1	0	0	25	25	50
	HS125A	Society, Governance and International Studies	0	2	0	2	2	25	25	25	25	100
		Assignment Practices/Student Counseling/Remedial Classes	0	2	0	2	0	0	0	0	0	0
			18	16	2	36	26	175	375	175	175	900

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CHAROTAR UNIVERSITY OF SCIENCE & TECHNOLOGY (CHARUSAT)

TEACHING & EXAMINATION SCHEME FOR B TECH PROGRAMME IN IT

\	Course Code	Course Title	Teaching Scheme					Examination Scheme				
			Contact Hours				Credit	Theory		Practical		Total
			Theory	Practical	Tutorial	Total		Internal	External	Internal	External	
Final Year Sem-7	IT415	Data Warehousing & Data Mining	4	2	0	6	5	30	70	25	25	150
	IT409	High Performance Computer Architecture	3	2	1	6	4	30	70	25	25	150
	IT402	Wireless Communication & Mobile Computing	4	4	1	9	6	30	70	50	50	200
	IT410	Enterprise Resource Planning & E-Commerce	3	0	0	3	3	30	70	0	0	100
		Elective III	4	2	0	6	5	30	70	25	25	150
	IT414	Software Group Project-V	0	2	0	2	1	0	0	25	25	50
		Assignment Practices/Student Counseling/Remedial Classes	0	2	0	2	0	0	0	0	0	0
			18	14	2	34	24	150	350	150	150	800
Final Year Sem-8	IT407	Software Project Major	0	36	0	36	20	0	0	250	350	600
			0	36	0	36	20	0	0	250	350	600
Total			122	135	17	286	188	1180	2620	1430	1570	6800

CHAROTAR UNIVERSITY OF SCIENCE & TECHNOLOGY (CHARUSAT)

LIST OF ELECTIVE SUBJECTS FOR B TECH PROGRAMME IN IT

ELECTIVES	Code	Elective - I	Code	Elective - II	Code	Elective - III
	IT316	Advanced Java programming	IT320	Service Oriented Architecture	IT405.01	Advanced Computing
	IT317	Advanced Programming using .NET Framework	IT321	Intelligent System	IT412	Image Processing & Multimedia System
	IT313.01	Embedded Systems	IT323	Advanced Operating System	IT404.01	Language Processor

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Proposed

CHAROTAR UNIVERSITY OF SCIENCE & TECHNOLOGY (CHARUSAT 2016)

TEACHING & EXAMINATION SCHEME FOR B TECH (CBCS) PROGRAMME IN IT

Sem	Course Code	Course Title	Teaching Scheme								Examination Scheme				
			Contact Hours					Credit			Theory		Practical/Project		Total
			Theory	Practical	Tutorial	Project	Total	Theory	Practical	Total	Internal	External	Internal	External	
FY Sem-1	MA141	Engineering Mathematics-I	4	0	1	0	5	4	0	4	30	70	0	0	100
	CE141	Computer Concepts & Programming	4	4	0	0	8	4	2	6	30	70	50	50	200
	EE141	Basics of Electronics & Electrical Engineering	4	2	0	0	6	4	1	5	30	70	25	25	150
	CL142	Environmental Sciences	2	0	0	0	2	2	0	2	30	70	0	0	100
	HS101 A - HS106 A	A Course from Liberal Arts	2			0	2	0	2	2			50	50	100
	IT142	ICT Workshop	0	4	0	0	4	0	2	2			50	50	100
		Assignment Practices/Student Counseling/Remedial Classes/Library/Sports/Extra curricular &					9								
			14	12	1		36	14	7	21	120	280	175	175	750
FY Sem-2	MA142	Engineering Mathematics-II	4	0	1	0	5	4	0	4	30	70	0	0	100
	CE142	Object Oriented Programming with C++	4	4	0	0	8	4	2	6	30	70	50	50	200
	ME144	Elements of Engineering	4	2	1	0	7	4	1	5	30	70	25	25	150
	PY141	Engineering Physics	3	2	0	0	5	3	1	4	30	70	25	25	150
	HS121 A	English Language & Literature	2			0	2	2	0	2	25	25	25	25	100
		Assignment Practices/Student Counseling/Remedial Classes/Library/Sports/Extra curricular &				0	9								
			16	9	2	0	36	17	4	21	145	305	125	125	700

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TEACHING & EXAMINATION SCHEME FOR B TECH (CBCS) PROGRAMME IN IT

	Course Code	Course Title	Teaching Scheme								Examination Scheme				
			Teaching Scheme								Examination Scheme				
			Contact Hours					Credit			Theory		Practical/Project		Total
			Theory	Practical	Tutorial	Project	Total	Theory	Practical	Total	Internal	External	Internal	External	
SY Sem-3	MA242	Discrete Mathematics & Applications	4	0	0	0	4	4	0	4	30	70	0	0	100
	IT241	Digital Logic & Design	4	2	0	0	6	4	1	5	30	70	25	25	150
	IT242	Java Programming	4	4	0	0	8	4	2	6	30	70	50	50	200
	XXXXX	University Elective- I	2	0	0	0	2	2	0	2	30	70	0	0	100
	IT243	Data Communication & Networking	4	2	0	0	6	4	1	5	30	70	25	25	150
	HS122A	Values and Ethics	2	0	0	0	2	2	0	2	30	70	0	0	100
	IT244	Software Group Project-I	0	0	0	2	2	0	2	2	0	0	50	50	100
		Assignment Practices/Student Counseling/Remedial Classes	0	6	0	0	6			0	0	0	0	0	0
			20	14	0	2	36	20	6	26	180	420	150	150	900
SY Sem-4	MA244	Probability, Statistic & Numerical Analysis	4	0	0	0	4	4	0	4	30	70	0	0	100
	IT245	Computer Organization & Microprocessor	4	2	0	0	6	4	1	5	30	70	25	25	150
	IT246	Web Technologies	2	4	0	0	6	2	2	4	30	70	50	50	200
	IT247	Data Structures & Algorithms	4	2	0	0	6	4	1	5	30	70	25	25	150
	IT248	Database Management System	4	2	0	0	6	4	1	5	30	70	25	25	150
	HS123	Critical Thinking and Logic	2	0	0	0	2	2	0	2	50	50	0	0	100
	XXXXX	University Elective- II	2	0	0	0	2	2	0	2	30	70	0	0	100
		Assignment Practices/Student Counseling/Remedial Classes	0	6	0	0	6			0	0	0	0	0	0
			22	16	0	0	38	22	5	27	230	470	125	125	950

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TEACHING & EXAMINATION SCHEME FOR B TECH (CBCS) PROGRAMME IN IT

	Course Code	Course Title	Teaching Scheme								Examination Scheme				
			Teaching Scheme								Examination Scheme				
			Contact Hours					Credit			Theory		Practical/Project		Total
			Theory	Practical	Tutorial	Project	Total	Theory	Practical	Total	Internal	External	Internal	External	
TY Sem-5	IT341	Design & Analysis of Algorithm	4	2	0	0	6	4	1	5	30	70	25	25	150
	IT342	Advanced Web Technolgies	2	2	0	0	4	2	1	3	30	70	25	25	150
	IT343	Operating System Fundamentals	4	2	0	0	6	4	1	5	30	70	25	25	150
	IT344	Computer Networking	4	2	0	0	6	4	1	5	30	70	25	25	150
	HS124A	Professional Communication	0	2	0	0	2	0	1	1	0	0	30	70	100
		Elective-I	2	4	0	0	6	2	2	4	30	70	50	50	200
	IT345	Software Group Project-II	0	0	0	2	2	0	2	2	0	0	50	50	100
		Assignment Practices/Student Counseling/Remedial Classes	0	4	0	0	4			0	0	0	0	0	0
			16	18	0	2	36	16	9	25	150	350	230	270	1000
TY Sem-6	IT347	Software Engineering	4	2	0	0	6	4	1	5	30	70	25	25	150
	IT348	Cryptography & Network Security	4	2	0	0	6	4	1	5	30	70	25	25	150
	IT349	Wireless Communication & Mobile Computing	4	4	0	0	8	4	2	6	30	70	50	50	200
		Elective-II	4	2	0	0	6	4	1	5	30	70	25	25	150
	IT350	Software Group Project-III	0	0	0	2	2	0	2	2	0	0	50	50	100
	HS125A	Society, Governance and International Studies	0	2	0	0	2	0	1	1	25	25	25	25	100
		Assignment Practices/Student Counseling/Remedial Classes	0	6	0	0	6			0	0	0	0	0	0
			16	18	0	2	36	16	8	24	145	305	200	200	850

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TEACHING & EXAMINATION SCHEME FOR B TECH (CBCS) PROGRAMME IN IT

	Course Code	Course Title	Teaching Scheme								Examination Scheme				
			Teaching Scheme								Examination Scheme				
			Contact Hours					Credit			Theory		Practical/Project		Total
			Theory	Practical	Tutorial	Project	Total	Theory	Practical	Total	Internal	External	Internal	External	
Final Year Sem-7	IT441	Data Warehousing & Data Mining	4	2	0	0	6	4	1	5	30	70	25	25	150
	IT442	Modeling Simulation & Operation Research	4	0	0	0	4	4	0	4	30	70	0	0	100
	IT443	Advanced Database Management System	4	2	0	0	6	4	1	5	30	70	25	25	150
	IT444	Capstone Course	4	0	0	0	4	4	0	4	30	70	0	0	100
		Elective III	4	2	0	0	6	4	1	5	30	70	25	25	150
	IT445	Software Group Project-IV	0	0	0	2	2	0	2	2	0	0	50	50	100
	IT446	Summer Internship-II	0	0	0	3	3	0	3	3	0	0	50	50	100
		Assignment Practices/Student Counseling/Remedial Classes	0	6	0	0	6			0	0	0	0	0	0
			20	12	0	5	37	20	8	28	150	350	175	175	850
Final Year Sem-8	IT447	Software Project Major	0	36	0	0	36	0	20	20	0	0	250	350	600
			0	36	0	0	36	0	20	20	0	0	250	350	600
Total			124	135	3	11	291	125	67	192	1120	2480	1430	1570	6600

LIST OF ELECTIVE SUBJECTS FOR B TECH IN IT

ELECTIVES

Code	Programme Elective - I	Code	Programme Elective - II	Code	Programme Elective - III
IT371	Advanced Java programming	IT375	Internet of Things	IT471	Advanced Computing
IT372	Advanced Programming using .NET Framework	IT376	Intelligent System	IT472	Image Processing & Multimedia System
IT373	Embedded Systems	IT377	Advanced Operating System	IT473	Data Compression
IT374	Operating System Administration	IT378	Language Processor	IT474	Enterprise Resource Planning & Ecommerce

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TEACHING & EXAMINATION SCHEME FOR B TECH (CBCS) PROGRAMME IN IT

Sem	Course Code	Course Title	Teaching Scheme								Examination Scheme				
			Contact Hours					Credit			Theory		Practical/Project		Total
			Theory	Practical	Tutorial	Project	Total	Theory	Practical	Total	Internal	External	Internal	External	
FY Sem-1	MA141	Engineering Mathematics-I	4	0	1	0	5	4	0	4	30	70	0	0	100
	CE141	Computer Concepts & Programming	4	4	0	0	8	4	2	6	30	70	50	50	200
	EE141	Basics of Electronics & Electrical Engineering	4	2	0	0	6	4	1	5	30	70	25	25	150
	CL142	Environmental Sciences	2	0	0	0	2	2	0	2	30	70	0	0	100
	HS101 A - HS106 A	A Course from Liberal Arts	2			0	2	0	2	2			50	50	100
	IT142	ICT Workshop	0	4	0	0	4	0	2	2			50	50	100
		Assignment Practices/Student Counseling/Remedial Classes/Library/Sports/Extra curricular &					9								
			14	12	1		36	14	7	21	120	280	175	175	750
FY Sem-2	MA142	Engineering Mathematics-II	4	0	1	0	5	4	0	4	30	70	0	0	100
	CE142	Object Oriented Programming with C++	4	4	0	0	8	4	2	6	30	70	50	50	200
	ME144	Elements of Engineering	4	2	1	0	7	4	1	5	30	70	25	25	150
	PY141	Engineering Physics	3	2	0	0	5	3	1	4	30	70	25	25	150
	HS121 A	English Language & Literature	2			0	2	2	0	2	25	25	25	25	100
		Assignment Practices/Student Counseling/Remedial Classes/Library/Sports/Extra curricular &				0	9								
			16	9	2	0	36	17	4	21	145	305	125	125	700

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TEACHING & EXAMINATION SCHEME FOR B TECH (CBCS) PROGRAMME IN IT

	Course Code	Course Title	Teaching Scheme								Examination Scheme				
			Teaching Scheme								Examination Scheme				
			Contact Hours					Credit			Theory		Practical/Project		Total
			Theory	Practical	Tutorial	Project	Total	Theory	Practical	Total	Internal	External	Internal	External	
SY Sem 3	MA242	Discrete Mathematics	4	0	0	0	4	4	0	4	30	70	0	0	100
	IT241	Digital Electronics	4	2	0	0	6	4	1	5	30	70	25	25	150
	IT242	Java Programming	4	4	0	0	8	4	2	6	30	70	50	50	200
	XXXXX	University Elective- I	2	0	0	0	2	2	0	2	30	70	0	0	100
	IT243	Data Communication	4	2	0	0	6	4	1	5	30	70	25	25	150
	HS122A	Values and Ethics	2	0	0	0	2	2	0	2	30	70	0	0	100
	IT244	Software Group Project-I	0	0	0	4	4	0	2	2	0	0	50	50	100
		Assignment Practices/Student Counseling/Remedial Classes	0	6	0	0	4			0	0	0	0	0	0
			20	14	0	4	36	20	6	26	180	420	150	150	900
SY Sem 4	MA244	Probability & Statistic	4	0	0	0	4	4	0	4	30	70	0	0	100
	IT245	Computer Organization & Microprocessor Interfacing	4	2	0	0	6	4	1	5	30	70	25	25	150
	IT246	Web Engineering	2	4	0	0	6	2	2	4	30	70	50	50	200
	IT247	Data Structures & Algorithms	4	2	0	0	6	4	1	5	30	70	25	25	150
	IT248	Database Management System	4	2	0	0	6	4	1	5	30	70	25	25	150
	HS123	Critical Thinking and Logic	2	0	0	0	2	2	0	2	50	50	0	0	100
	XXXXX	University Elective- II	2	0	0	0	2	2	0	2	30	70	0	0	100
		Assignment Practices/Student Counseling/Remedial Classes	0	6	0	0	4			0	0	0	0	0	0
			22	16	0	0	36	22	5	27	230	470	125	125	950

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TEACHING & EXAMINATION SCHEME FOR B TECH (CBCS) PROGRAMME IN IT

	Course Code	Course Title	Teaching Scheme								Examination Scheme				
			Teaching Scheme								Examination Scheme				
			Contact Hours					Credit			Theory		Practical/Project		Total
			Theory	Practical	Tutorial	Project	Total	Theory	Practical	Total	Internal	External	Internal	External	
TY Sem-5	IT341	Design & Analysis of Algorithm	4	2	0	0	6	4	1	5	30	70	25	25	150
	IT342	Advanced Web Technologies	2	2	0	0	4	2	1	3	30	70	25	25	150
	IT343	Operating System	4	2	0	0	6	4	1	5	30	70	25	25	150
	IT344	Computer Networks	4	2	0	0	6	4	1	5	30	70	25	25	150
	HS124A	Professional Communication	0	2	0	0	2	0	1	1	0	0	30	70	100
		Elective-I	2	4	0	0	6	2	2	4	30	70	50	50	200
	IT345	Software Group Project-II	0	0	0	4	4	0	2	2	0	0	50	50	100
		Assignment Practices/Student Counseling/Remedial Classes	0	4	0	0	2			0	0	0	0	0	0
			16	18	0	4	36	16	9	25	150	350	230	270	1000
TY Sem-6	IT347	Software Engineering	4	2	0	0	6	4	1	5	30	70	25	25	150
	IT348	Cryptography & Network Security	4	2	0	0	6	4	1	5	30	70	25	25	150
	IT349	Wireless Communication & Mobile Computing	4	4	0	0	8	4	2	6	30	70	50	50	200
		Elective-II	4	2	0	0	6	4	1	5	30	70	25	25	150
	IT350	Software Group Project-III	0	0	0	4	4	0	2	2	0	0	50	50	100
	HS125A	Society, Governance and International Studies	0	2	0	0	2	0	1	1	25	25	25	25	100
		Assignment Practices/Student Counseling/Remedial Classes	0	6	0	0	4			0	0	0	0	0	0
			16	18	0	4	36	16	8	24	145	305	200	200	850

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TEACHING & EXAMINATION SCHEME FOR B TECH (CBCS) PROGRAMME IN IT

	Course Code	Course Title	Teaching Scheme								Examination Scheme				
			Teaching Scheme								Examination Scheme				
			Contact Hours					Credit			Theory		Practical/Project		Total
			Theory	Practical	Tutorial	Project	Total	Theory	Practical	Total	Internal	External	Internal	External	
Final Year Sem-7	IT441	Data Warehousing & Data Mining	4	2	0	0	6	4	1	5	30	70	25	25	150
	IT442	High Performance Computer Architecture	3	2	0	0	5	3	1	4	30	70	25	25	150
	IT443	Advanced Database Management System	4	2	0	0	6	4	1	5	30	70	25	25	150
	IT444	Internet of Things	3	2	0	0	5	3	1	4	30	70	25	25	150
		Elective III	4	2	0	0	6	4	1	5	30	70	25	25	150
	IT445	Software Group Project-IV	0	0	0	4	4	0	2	2	0	0	50	50	100
	IT446	Summer Internship-II	0	0	0	3	3	0	3	3	0	0	50	50	100
		Assignment Practices/Student Counseling/Remedial Classes	0	6	0	0	1			0	0	0	0	0	0
			18	16	0	7	36	18	10	28	150	350	225	225	950
Final Year Sem-8	IT447	Software Project Major	0	36	0	0	36	0	20	20	0	0	250	350	600
			0	36	0	0	36	0	20	20	0	0	250	350	600
Total			122	139	3	19	288	123	69	192	1120	2480	1480	1620	6700

LIST OF ELECTIVE SUBJECTS FOR B TECH IN IT

ELECTIVES

Code	Programme Elective - I	Code	Programme Elective - II	Code	Programme Elective - III
IT371	Advanced Java programming	IT375	Parallel and Distributed Systems	IT471	Cloud Computing
IT372	Advanced Programming using .NET Framework	IT376	Automata Theory & Compiler Design	IT472	Multimedia Communication
IT373	Embedded Systems	IT377	Advanced Operating System	IT473	Intelligent System

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TEACHING & EXAMINATION SCHEME FOR M TECH (CBCS) PROGRAMME IN INFORMATION TECHNOLOGY

Sem	Course Code	Course Title	Teaching Scheme				Examination Scheme				
			Contact Hours			Credit	Theory		Practical		Total
			Theory	Practical	Total		Internal	External	Internal	External	
FY Sem I	IT741	Algorithms & Computational Complexity	3	2	5	4	30	70	25	25	150
	IT742	Advanced Computer Network	3	2	5	4	30	70	25	25	150
	IT743	High Performance Computing	3	4	7	5	30	70	50	50	200
		Programme Elective-I	3	2	5	4	30	70	25	25	150
		Programme Cluster Elective-I	3	2	5	4	30	70	25	25	150
	HS701A	University Core-I Advance Critical Thinking & Logic	2	0	2	2	30	70	0	0	100
		University Elective-I	2	0	2	2	30	70	0	0	100
			19	12	31	25	210	490	150	150	1000
FY Sem II	IT744	Information and Network Security	3	4	7	5	30	70	50	50	200
	IT745	Data Science & Modelling	3	2	5	4	30	70	25	25	150
	IT746	Computational Intelligence	3	2	5	4	30	70	25	25	150
		Programme Elective-II	3	2	5	4	30	70	25	25	150
		Programme Cluster Elective-II	3	2	5	4	30	70	25	25	150
	HS702A	University Core-II Academic Writing and Communication Skills	0	2	2	2	0	0	30	70	100
		University Elective-II	2	0	2	2	30	70	0	0	100
			17	14	31	25	180	420	180	220	1000

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TEACHING & EXAMINATION SCHEME FOR M TECH (CBCS) PROGRAMME IN INFORMATION TECHNOLOGY

Sem	Course Code	Course Title			Credit	Examination Scheme					Total
						Internal		External			
						Progress Report	Progress Seminar	Report	Seminar	Viva -voce	
SY Sem III	IT811	Project Preliminaries			4	50	50	0	50	50	200
	IT812	Project Phase-I			18	100	100	100	100	100	500
					22	150	150	100	150	150	700
SY Sem IV	IT813	Project Phase-II			30	200	200	200	200	200	1000
					30	200	200	200	200	200	1000
Total			36	26	102	400	740	1210	680	720	3700

Course Code	Semester 1 (Programme Elective I)	Course Code	Semester 2 (Programme Elective II)
IT761	Advanced Operating System	IT764	Web Services & Service Oriented Computing
IT762	Information Storage and Retrieval	IT765	Internet of things
IT763	Language Processor	IT766	Cloud Computing
Course Code	Semester 1 (Programme Cluster Elective I)	Course Code	Semester 2 (Programme Cluster Elective II)
IT767	Micro Device Programming	IT768	Applied Cryptography
EC767	Embedded System Design	EC768	Digital Image & Speech Processing
CE767	Operating System Design & Concepts	CE768	Software Project Management & Quality Assurance
EE771	Digital Signal Processing & its Applications	EE772	Restructuring and Deregulation of Power Systems

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TEACHING & EXAMINATION SCHEME FOR M TECH (CBCS) PROGRAMME IN INFORMATION TECHNOLOGY

Course Code	Semester 1 (University Elective I)	Course Code	Semester 2 (University Elective II)
MA771	Reliability and Risk Analysis	EE782	Energy Audit and Management
EE781	Optimization Techniques	CE771	Project Management
ME781	Occupational Health and Safety	IT771	Cyber Security and Laws
CE772	Research Methodology	CA842	Mobile Application Development
CA730	Internet and Web Designing	PT796	Fitness and Nutrition
PT795	Health and Physical Activity	NR752	Epidemiology and Community Health
NR751	Women's Health	OC733	Introduction to Polymer Science
RD701	Introduction to Analytical Techniques	MB651	Software based Statistical Analysis
RD702	Introduction to Nanoscience and Technology	PH826	Intellectual Property Rights
MB650	Creative Leadership	MA772	Design of Experiments
PH825	Community Pharmacy Ownership		

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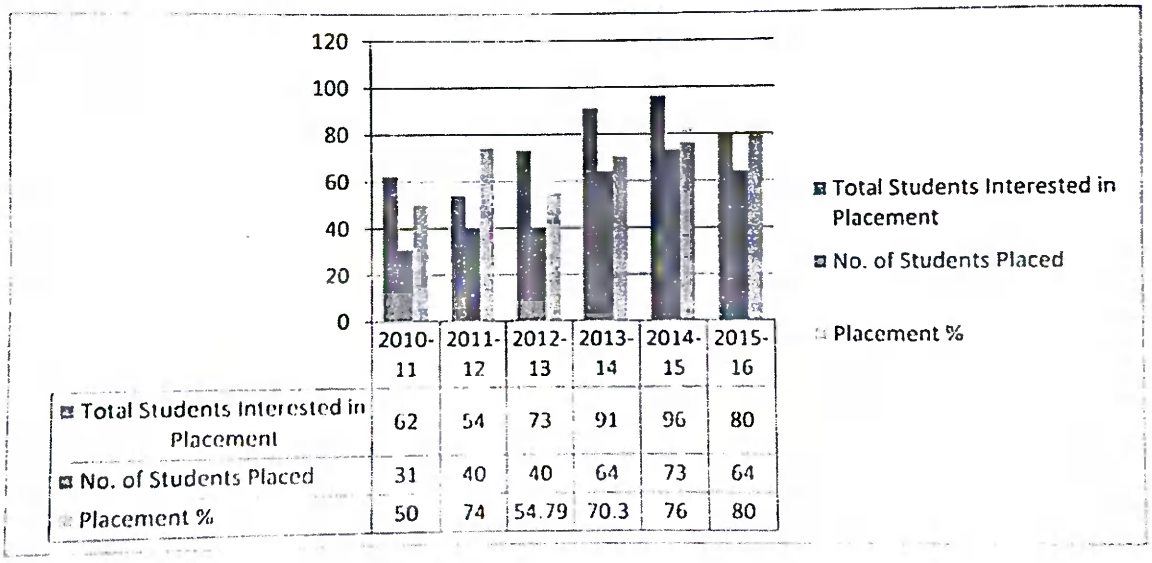
CHARUSAT
CSPIT
Department of Information Technology

Summary of Placement Record

Placement Year	2010-11	2011-12	2012-13	2013-14	2014-15	2015-16
No. Companies Visited	49	34	14	33	46	31
Highest Package	5.22	5.5	5	3.5	9	3.33
Lowest Package	1.8	1.8	1.2	1	1	0.96
Average Package	2.4	2.5	2	2.02	3	2.1
Total Students Interested in Placement	62	54	73	91	96	80
No. of Students Placed	31	40	40	64	73	64
Placement %	50	74	54.79	70.3	76	80



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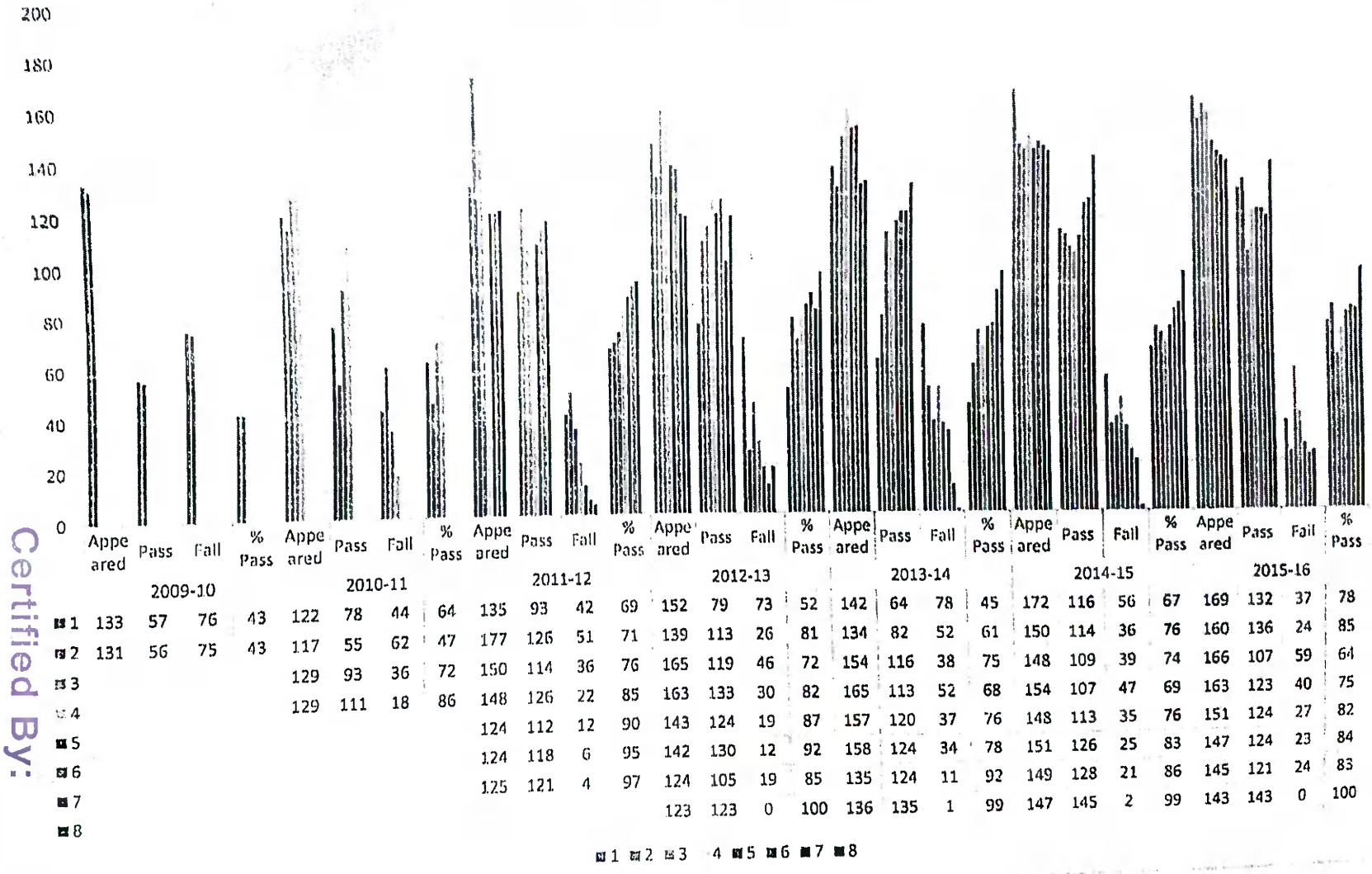
IT Department Result Analysis



	2009-10				2010-11				2011-12				2012-13			
	Appeared	Pass	Fail	% Pass	Appeared	Pass	Fail	% Pass	Appeared	Pass	Fail	% Pass	Appeared	Pass	Fail	% Pass
1	133	57	76	43	122	78	44	64	135	93	42	69	152	79	73	52
2	131	56	75	43	117	55	62	47	177	126	51	71	139	113	26	81
3					129	93	36	72	150	114	36	76	165	119	46	72
4					129	111	18	86	148	126	22	85	163	133	30	82
5									124	112	12	90	143	124	19	87
6									124	118	6	95	142	130	12	92
7									125	121	4	97	124	105	19	85
8													123	123	0	100

	2013-14				2014-15				2015-16			
	Appeared	Pass	Fail	% Pass	Appeared	Pass	Fail	% Pass	Appeared	Pass	Fail	% Pass
1	142	64	78	45	172	116	56	67	169	132	37	78
2	134	82	52	61	150	114	36	76	160	136	24	85
3	154	116	38	75	148	109	39	74	166	107	59	64
4	165	113	52	68	154	107	47	69	163	123	40	75
5	157	120	37	76	148	113	35	76	151	124	27	82
6	158	124	34	78	151	126	25	83	147	124	23	84
7	135	124	11	92	149	128	21	86	145	121	24	83
8	136	135	1	99	147	145	2	99	143	143	0	100

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