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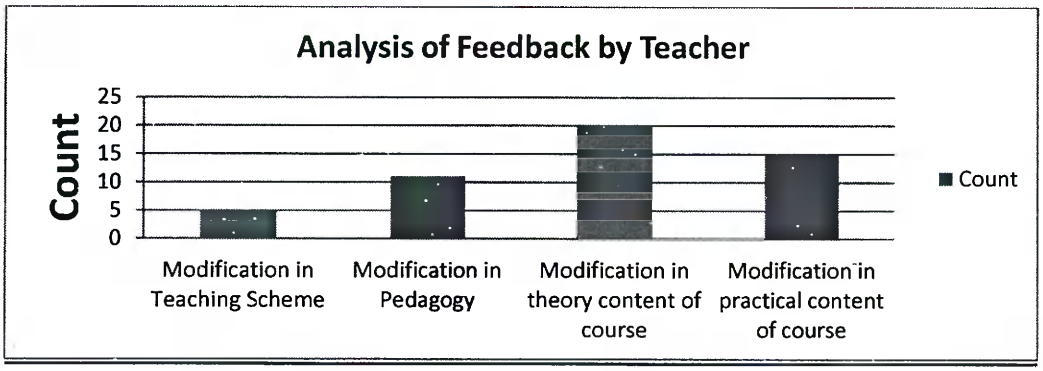
Department of Information Technology

Analysis of Feedback on Syllabus

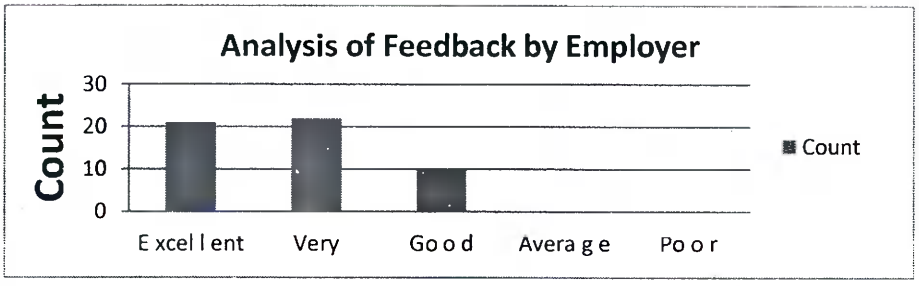
AY: 2016-17

- **Analysis of Feedback by Teacher**



- **Analysis of Feedback by Student**
  - The Teaching Scheme is good to very good as per most of the student's feedback.
  - Examination Scheme is good as per most of the student's feedback.
  - Majority of students are satisfied with the updated syllabus.
  - As per the feedback of some students, there should not be more than 2 hour's lab work for the same subject in one day.
  - Theory and Programming related subjects pedagogy has been revised and focuses more on Practical compared to last few years.

- **Analysis of Feedback by Employers**



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Department of Information Technology

Analysis of Feedback on Syllabus

AY: 2016-17

- **Analysis of Feedback by Alumni**

Course	Suggestion
Java	• To incorporate new features of Java 8 like lambda functions. • Java Collection Framework should have more weightage compared to other topics listed in the current draft of syllabus.
Advanced Java Prog.	• Suggestion to incorporate Spring and Hibernate Framework in place of Java Media Framework.
Intelligent Sys.	• More weightage to Introduction to Machine learning and NLP.
Digital Marketing	• Suggestion to add new course: "Digital Marketing" including following topics: • Social Media, SEO, Content Writing and Copywriting.

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Chandubhai S Patel Institute of Technology

Summary and Action Taken Report of Feedback on Curriculum
AY: 2016-17

Category	Comments	Action Taken
Alumni	• To incorporate new features of Java 8 like lambda functions. • Java Collection Framework should have more weightage compared to other topics listed in the current draft of syllabus.	• Java 8 and Java collection framework have been added into the syllabus of "Java Programming" Course. • Considered in 12th BoS 03-sep-2016
	Suggestion to incorporate Spring and Hibernate Framework in place of Java Media Framework.	• Hibernate Framework and related practicals have been incorporated into the course. • Considered in 12th BoS 03-sep-2016
	More weightage to Introduction to Machine learning and NLP.	• Department has Introduced machine Learning as a course in our curriculum. NLP has been covered as a part of an AI course. • Considered in 13th BoS 26-Aug-2017
	• Suggestion to add new course: "Digital Marketing" including following topics: • Social Media, SEO, Content Writing and Copywriting.	• The suggested topic will be covered in the mode of workshop. (Annexure-1)
Employer	Maybe there is a gap between industry needs to the academia, try to take into consideration to reduce the gap.	• Department has introduced student internships every summer vacation. • Syllabus is aligned with industry needs. • Considered in 13th BoS 26-Aug-2017.
Student	Latest technologies can be offered as an elective course.	• Department started offering all the latest areas relevant to the branch as an elective course in final and pre-final year. • Considered in 13th BoS 26-Aug-2017.
	Number of lab sessions should be increased and internal exams are preferred over unit tests.	• Department has increased the practical credits of courses which require more practical exposure. • Considered in 13th BoS 26-Aug-2017.
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.

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1.

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
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Prof. Bimal Patel
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CSPIT - CHARUSAT

Prof. Nirav Bhatt
CSPIT - CHARUSAT

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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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
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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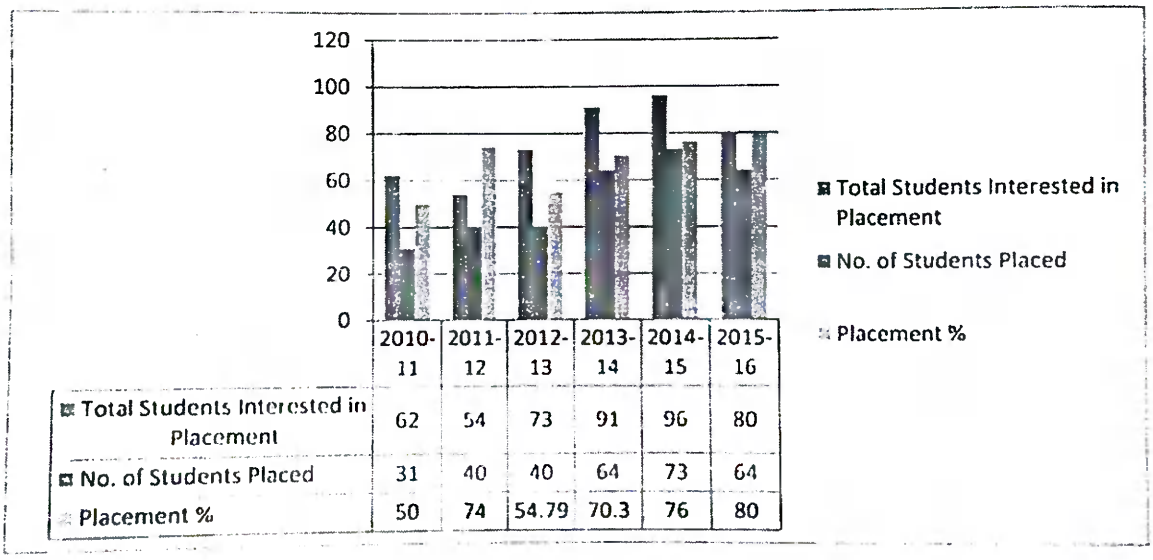
CHARUSAT
CSPIT
Department of Information Technology

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



	2010-11	2011-12	2012-13	2013-14	2014-15	2015-16
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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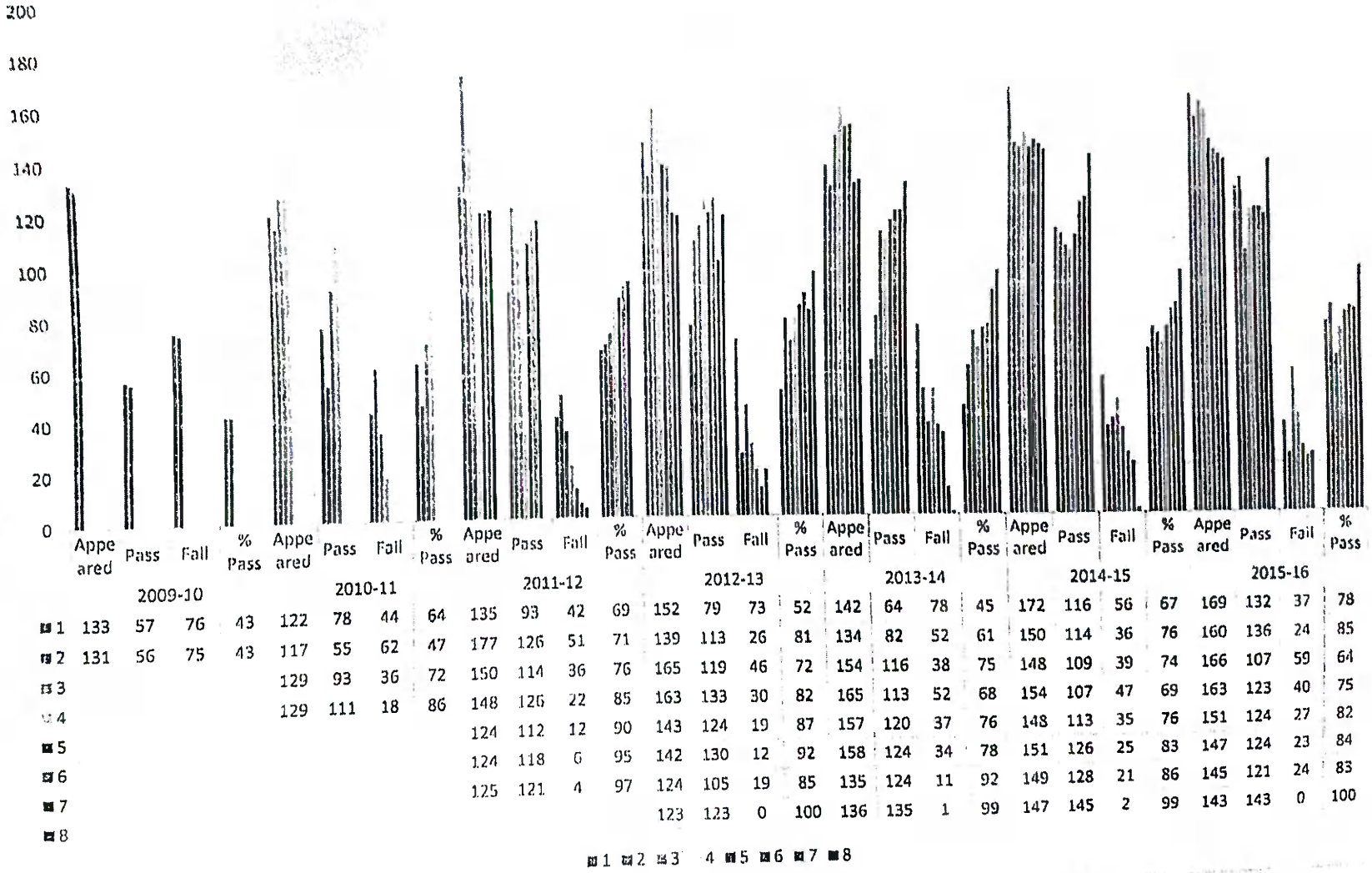
IT Department Result Analysis



	2009-10				2010-11				2011-12				2012-13			
	Appeared	Pass	Fall	% Pass	Appeared	Pass	Fall	% Pass	Appeared	Pass	Fall	% Pass	Appeared	Pass	Fall	% 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	Fall	% Pass	Appeared	Pass	Fall	% Pass	Appeared	Pass	Fall	% 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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CHARUSAT CAMPUS, CHANGA

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Minutes – 13th Meeting of Board of studies of Department of Information Technology

Date : August 26, 2017, Saturday
Time : 10:00 am
Venue : Conference Room, Building-II, CSPIT, CHARUSAT Campus

The 13th meeting of the Board of studies, Department of Information Technology, FTE, Charotar University of Science & Technology (CHARUSAT) was held on 26th August, 2017 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.	Dr. Ketan Kotecha	External	VC, Parul University
4.	Prof. B. V. Buddhadev	External	Head, Dept of CE, GEC-28
5.	Prof. M T Savaliya	External	Head, CE Dept., VGEC, Chandkheda
6.	Dr. Sanjay Chaudhary	External	Dean, Research, Ahmedabad University
7.	Mr. Roshan Shah	External	Technical Evangelist, Cybage, Pune
8.	Mr Nikunj Patel	External	Senior Vice President, Cape Gemini, Gandhinagar
9.	Prof. Amit Thakkar	Member	Asso. Prof.
10.	Mr. Amit Nayak	Member	Asst. Prof.
11.	Mr. Nirav Bhatt	Member	Asst. Prof.
12.	Ms. Purvi Prajapati	Member	Asst. Prof.
13.	Ms. Ayesha Shaikh	Member	Asst. Prof.
14.	Mr. Bimal Patel	Member	Asst. Prof.

Initiation:
Head of the Department of Information Technology, Prof. Parth Shah welcomed all the members of Board of Studies to the 13th meeting. He briefed the overall activities carried out by the department during last year.

Agenda Proceedings & Resolutions:-

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Item 13.01: For Discussion and Approval;

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

Proceedings 13.01:

Dean FTE had requested to the chairman BoS of humanities department to introduce and update existing coursed related to B Tech students. Existing offered courses to the B Tech students along with the proposed courses are given below (refer annexure I for old courses and annexure II for new courses):

Program	Semester	Old Course	New Course
B Tech	I	A Course from Liberal Arts	HS Elective-I
	II	English Language & Literature	Communication Skills – I
	III	Values and Ethics	HS Elective-II
	IV	Critical Thinking and Logic	HS Elective-III
	V	Professional Communication	Professional Communication
	VI	Society, Governance and International Studies	HS Elective-IV

Resolutions 13.01:

Suggestions given by the members have been agreed and approved as per annexure II.

Item 13.02: For Discussion and Approval;

To approve the Teaching scheme and detailed syllabus for 3rd year (5th and 6th semester) CBCS B Tech courses.

Proceedings 13.02:

- Department had collected feedback from industry/academic experts, students and faculty members. Based on those feedback, few changes have been proposed in the teaching and examination schemes along with detail syllabi.
- Members have suggested change in nomenclature of Design & Analysis of Algorithm to Design & Analysis of Algorithms in semester-V.
- Members have suggested to offer Operating System fundamentals and operating system internals as a single course in semester-V.
- Members have suggested change in nomenclature of Advanced Programming using .NET Framework to Programming using .NET Framework as an elective course in semester-V.

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- Members have suggested that course on Machine Learning should be combined offered as Intelligent System such that it should include contents of Artificial Intelligence and Machine Learning in semester-VI.
- Members have suggested to introduce summer internship for the 5th semester student to get the awareness about working of industries.

Resolutions 13.02:

Suggestions given by the members have been agreed and approved as per annexure II.

Item 13.03: For Discussion and Approval;

Any change in PG Syllabus of CBCS courses

Proceedings 13.03:

Dean FTE has requested to the chairman BoS of humanities department to introduce and update existing coursed related to M Tech students. Existing offered courses to the M Tech students along with the proposed courses are given below (refer annexure III and IV for old courses and new courses respectively):

Program	Semester	Existing Course	New Course
M Tech	I	Advance Critical Thinking & Logic	Advance Critical Thinking & Logic Languages (French/ German) Academic Speaking
	II	Academic Writing and Communication Skills	Academic Writing

Resolutions 13.03:

Suggestions given by the members have been agreed and approved as per annexure IV.

Item 13.04: For Discussion and Approval;

Preparation, Discussion and approval for the Elective Courses (University, Institute, Program and Program Electives)

Proceedings 13.04:

As per directives of the university and CBCS norms, various departments and institutes have been requested to offer the courses as a University Elective. The list of the courses offered by various department/institute is given in annexure

Resolutions 13.04:

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Members have approved the courses and wished the success for the same as per annexure V.

Item 13.05: For Discussion and Approval;

Additional item(s) other than syllabus to be reviewed during BOS:

Review of University Exam Question Papers (Quality of Question Papers), Experiment Lists, Examiners' Panel, Placement Records and Result Analysis of Academic Year plus Analysis of Semester Results, Reg. Innovation in Pedagogy, World Class Universities, Outcome Based Education (OBE), Research (Publications, Proposals and Grants), Funding Agencies, Reg. NBA Accreditation Status, NAAC Accreditation of the University, Going for International Accreditation, Project works, Panel of Ph D Supervisors, Synopsis submission if any and its Approval, Approval of Reviewer's (Examiners) Panel, Feedback from Students, Identification of Slow Learners, Students Counselling, Quality of Inputs (Admission Scenario), Remedial Coaching, Quality of M Tech Dissertations, Industry Exposure, Responsible University etc. or any other additional items.

Proceedings 13.05:

Members have reviewed the information and data related to the Item.

Resolutions 13.05:

Members have appreciated effort taken by the department to strengthen each and every activity.

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Annexure I

(Agenda – I & II)

Existing Teaching & Examination Schemes

for

B Tech
Information technology

Effective From
(CHARUSAT 2016 Admitted Batch)

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CHARUSAT CAMPUS, CHANGA

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	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 and Numerical Techniques	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
	IT346	Summer Internship-I	0	0	0	3	3	0	3	3	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	7	39	16	12	28	150	350	280	320	1100
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	339	3	22	191	123	72	195	1120	2480	1530	1670	6800

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	Advanced Computing	IT471	Python Programming
IT372	Advanced Programming using .NET Framework	IT376	Language Processors	IT472	Image Processing
IT373	Embedded Systems	IT377	Machine Learning	IT473	Big Data Analytics

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Annexure II

(Agenda – I & II)

Approved Teaching & Examination Schemes

for

B Tech
Information technology

Effective From
(CHARUSAT 2016 Admitted Batch)

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CHARUSAT CAMPUS, CHANGA

CHAROTAR UNIVERSITY OF SCIENCE & TECHNOLOGY (CHARUSAT 2017)

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
		HS Elective-I	2			0	2	0	2	2			30	70	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	155	195	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
	HS126.01 A	Communication Skills – I	2			0	2	2	0	2	30	70	0	0	100
		Assignment Practices/Student Counseling/Remedial Classes/Library/Sports/Extra curricular &				0	9								
			16	9	2	0	36	17	4	21	150	350	100	100	700

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CHAROTAR UNIVERSITY OF SCIENCE & TECHNOLOGY (CHARUSAT 2017)

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

	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	
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
	XXXXXX	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
		HS Elective-II	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 and Numerical Techniques	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
		HS Elective-III	2	0	0	0	2	2	0	2	30	70	0	0	100
	XXXXXX	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	210	490	125	125	950

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CHARUSAT CAMPUS, CHANGA

CHAROTAR UNIVERSITY OF SCIENCE & TECHNOLOGY (CHARUSAT 2017)

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

	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	
TY Sem-5	IT341	Design & Analysis of Algorithms	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
	HS124.01A	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
	IT346	Summer Internship-I	0	0	0	3	3	0	3	3	0	0	75	75	150
		Assignment Practices/Student Counseling/Remedial Classes	0	4	0	0	2			0	0	0	0	0	0
			16	**18**	**0**	**7**	**39**	**16**	**12**	**28**	**150**	**350**	**305**	**345**	**1150**
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
		HS Elective-IV	0	2	0	0	2	0	1	1	30	70	0	0	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**	**150**	**350**	**175**	**175**	**850**

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CHARUSAT CAMPUS, CHANGA

CHAROTAR UNIVERSITY OF SCIENCE & TECHNOLOGY (CHARUSAT 2017)

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

	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	
Final Year Sem-7	IT441	Big Data Analytics	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	Service Oriented Architecture	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	22	291	123	72	195	1110	2590	1485	1665	6850

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CHARUSAT CAMPUS, CHANGA

CHAROTAR UNIVERSITY OF SCIENCE & TECHNOLOGY (CHARUSAT 2017)

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

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	Advanced Computing	IT471	Python Programming
IT372	Programming using .NET Framework	IT376	Language Processors	IT472	Image Processing
IT373	Embedded Systems	IT377	Intelligent System	IT473	Cyber Security & Laws

HS Elective - I
HS101.01 A - Painting
HS102.01 A - Photography
HS103.01 A - Sculpting
HS104.01 A - Pottery and Ceramic Arts
HS105.01 A - Media and Graphic Design
HS106.01 A - Art and Craft
HS107.01 A - Fashion Designing
HS108.01 A - Interior Designing
HS109.01 A - Dramatics
HS110.01 A - Contemporary Dance
HS132 A - Academic English

HS Elective - II
HS122 A - Values and Ethics
HS131 A - Philosophy

HS Elective - III
HS123.01 A - Critical Thinking and Logic
HS127.01 A - Communication Skills – II
HS133 A - Creativity, Problem Solving and Innovation

HS Elective - IV
HS125.01 A - Society, Governance and International Studies
HS130 A - Law & Justice
HS134 A - Contributor Personality Development

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Annexure III

(Agenda - III)

Proposed Teaching & Examination Scheme

for

M Tech
Information technology

Effective From
(CHARUSAT 2016 Admitted Batch)

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CHARUSAT CAMPUS, CHANGA

CHAROTAR UNIVERSITY OF SCIENCE & TECHNOLOGY

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 (PE-I)	3	2	5	4	30	70	25	25	150
		Cluster Elective-I (CT-I)	3	2	5	4	30	70	25	25	150
	HS701	University Core-I Advance Critical Thinking & Logic (UC-I)	2	0	2	2	30	70	0	0	100
		Institute Elective-I (IE-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 (PE-II)	3	2	5	4	30	70	25	25	150
		Cluster Elective-II (CT-II)	3	2	5	4	30	70	25	25	150
	HS702	University Core-II Academic Writing and Communication Skills (UC-II)	2	0	2	2	0	0	30	70	100
		Institute Elective-II (IE-II)	2	0	2	2	30	70	0	0	100
			19	12	31	25	180	420	180	220	1000

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CHARUSAT CAMPUS, CHANGA

CHAROTAR UNIVERSITY OF SCIENCE & TECHNOLOGY

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

Sem	Course Code	Course Title	Teaching Scheme: Contact Hours: Theory	Teaching Scheme: Contact Hours: Practical	Teaching Scheme: Contact Hours: Total	Teaching Scheme: Credit	Examination Scheme: Theory: Internal	Examination Scheme: Theory: External	Examination Scheme: Practical: Internal	Examination Scheme: Practical: External	Total

Sem	Course Code	Course Title	Credit	Examination Scheme: Internal: Progress Report	Examination Scheme: Internal: Progress Seminar	Examination Scheme: External: Report	Examination Scheme: External: Seminar	Examination Scheme: External: Viva -voce	Total
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						700
SY Sem IV	IT813	Project Phase-II	30	200	200	200	200	200	1000
			30						1000
Total			38	24	102	50	390	910	330	370	3700

	Semester 1 (Programme Elective I)		Semester 2 (Programme Elective II)		Cluster Electives offered by the Departments		Sem
IT761	Advanced Operating System	IT764	Web Services & Service Oriented Computing	IT767	Micro Device Programming	I
IT762	Information Storage and Retrieval	IT765	Internet of things	IT768	Applied Cryptography	II
IT763	Language Processor	IT766	Cloud Computing	EC767	Embedded System Design	I
				EC768	Digital Image & Speech Processing	II
	Semester 1 (Institute Elective I)		Semester 2 (Institute Elective II)	CE767	Operating System Design & Concepts	I
MA771	Reliability and Risk Analysis	EE782	Energy Audit and Management	CE768	Software Project Management & Quality Assurance	II
EE781	Optimization Techniques	CE771	Project Management	EE771	Digital Signal Processing & its Applications	I
ME781	Occupational Health & Safety	IT771	Cyber Security and Laws	EE772	Restructuring and Deregulation of Power Systems	II

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CHARUSAT CAMPUS, CHANGA

Annexure IV

(Agenda - III)

Approved Teaching & Examination Scheme

for

M Tech
Information technology

Effective From
(CHARUSAT 2017 Admitted Batch)

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CHARUSAT CAMPUS, CHANGA

CHAROTAR UNIVERSITY OF SCIENCE & TECHNOLOGY

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
	HS	HS701A - Advance Critical Thinking & Logic	2	0	2	2	30	70	0	0	100
		HS703.01A - Languages (French, German)	0	2	2	2	0	0	30	70	100
		HS704A -Academic Speaking	0	2	2	2	0	0	30	70	100
		University Elective-I	2	0	2	2	30	70	0	0	100
			19	16	35	29	210	490	210	290	1200
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
	HS	HS705 A - Academic Writing	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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CHARUSAT CAMPUS, CHANGA

CHAROTAR UNIVERSITY OF SCIENCE & TECHNOLOGY

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	30	106	404	740	1210	740	860	3900

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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Annexure V

(Agenda - IV)

Approved list of university elective courses

for

B Tech
Information technology

Effective From
(CHARUSAT 2016 Admitted Batch)

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CHAROTAR UNIVERSITY OF SCIENCE AND TECHNOLOGY
CHARUSAT CAMPUS, CHANGA

CHAROTAR UNIVERSITY OF SCIENCE & TECHNOLOGY
List of University Elective Courses under
Choice Based Credit System
Second Year Undergraduate Programme
(Effective From Academic year 2017-18)

Sr. No.	Course Code & Course Name	Department / Faculty offering the Course	Semester in which the course to be offered / Remarks
1	EC281: Introduction to MATLAB Programming	EC / FTE	3
2	EC282: Prototyping Electronics with Arduino		4
3	CE281: Art of Programming	CE / FTE	3
4	CE282: Web Designing		4
5	CL281: Environmental Sustainability and Climate Change	CL / FTE	3
6	CL282: Basics of Environmental Impact Assessment		4
7	EE281: Electrical Engineering Materials	EE/FTE	3
8	EE282: Electrical Power Utilization		4
9	IT281: ICT Resources and Multimedia	IT/FTE	3
10	IT282: Internet Technology and Web Design		4
11	ME281: Engineering Drawing	ME/FTE	3
12	ME282: Material Science		4
13	PH233: Fundamentals of Packaging	RPCP/FPH	3
14	PH238: Cosmetics in daily life		4
15	PD260: Basic Laboratory Techniques	PDPIAS/FAS	Semester 3 course is submitted; Semester 4 course is pending.
16	NR251: First Aid & Life Support	NURSING / FMD	3
17	NR261: Life Style Diseases & Management		4
18	PT191: Health Promotion and Fitness	ARIP / FMD	3
19	PT192: Occupational Health & Ergonomics		4
20	CA224: Introduction to Web Designing	CMPICA / FCA	3
21	CA225: Programming the Internet		4
20	BM231: Banking and Insurance	IIBM / FMS	3
21	BM241: Health Care Management		4

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CHARUSAT CAMPUS, CHANGA

CHARUSAT
CSPIT

Smt. Kundanben Dinsha Patel

Department of Information Technology

Annexure-1

A Report on

Report on Blogging Basics: Developing Blog Skills Workshop

under Eager Beavers Club

05-03-2020

Certified By:

REGISTRAR
CHAROTAR UNIVERSITY OF SCIENCE AND TECHNOLOGY
CHARUSAT CAMPUS, CHANGA

Index

1. Event Details with Brochure & Schedule
2. Expert Profile
3. About Event (At least one paragraph)
4. Event Photograph
5. List of Participant
6. Certificate copy
7. Fund proof (Account Ledger)
8. Other supporting Documents (If any)

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CHARUSAT CAMPUS, CHANGA

1. Event Brochure

CHARUSAT
Accredited with Grade A by NAAC

EAGER BEAVERS

— Never Be Complacent Of Learning —

Extra Curricular Club

Initiated By

Smt. Kundanben Dinsha Patel Department Of Information Technology

Presents

A One Day Workshop on

Blogging Basics:

Developing Blog Skills

Vishal Ahuja
Shalvi Desai
Vasu Gamdha
Student Co-ordinators

Dr. Tarun Patel
Mentor

Date of the Event: 05/03/2020

2. Expert Details

MR. TARUNKUMAR PATEL

DESIGNATION:**ASSISTANT PROFESSOR**

QUALIFICATION:**M.A., B.ED., M.PHIL., PH.D.**

EXPERIENCE:**9 YEARS**

AREA OF INTEREST:**ENGLISH LANGUAGE TEACHING, COMMUNICATION**

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CHARUSAT CAMPUS, CHANGA

3. About The Event

The students and teachers of Chandubhai Institute of Science and Technology,Charusat,Changa came up with a non-technical club called EagerBeavers. The soul purpose of the club was to teach college students extracurricular skills to help them improve, holistically . After the inauguration, the first event of blogging started in full gear. Relevant to the workshop, the organizers and volunteers came up with a game called Spelling Bee for the participants, which they thoroughly enjoyed. After that, Dr. Tarun Patel, the speaker of the event, tried and explained the A to Z of what blogging is. He made an intricate presentation, covering all the points and also answered questions that came his way. He showed us some famous blogs as well as bloggers for inspiring us. He explained to us as to why a person should blog and in which situations he can begin blogging.
The second part of the event was about participants creating their own blogs. Participants were divided into a group of 4 or 5 and were given a plane white sheet and some sketch pens. They were asked to discuss among each other and pen down some ideas. The organizers came up with a lot of topics they could blog on and asked the participants to chose one or come up with their own topic.

All the students thoroughly enjoyed the process and respected Dr. Tarun even came up to check up on the progress of every group personally. At the end of the session, Dr Tarun discussed some of the eye catching and interesting titles, topics and contents he liked, and shared it with everyone. This way, the workshop ended successfully and students walked away with abundance of knowledge towards their home. At the very end, a small cake cutting ceremony with our chief guest/speaker Dr. Tarun, Amit Parmar sir, the organizing team and the volunteers, was held to mark the success of the event. Afterall, a good beginning lasts a lifetime!

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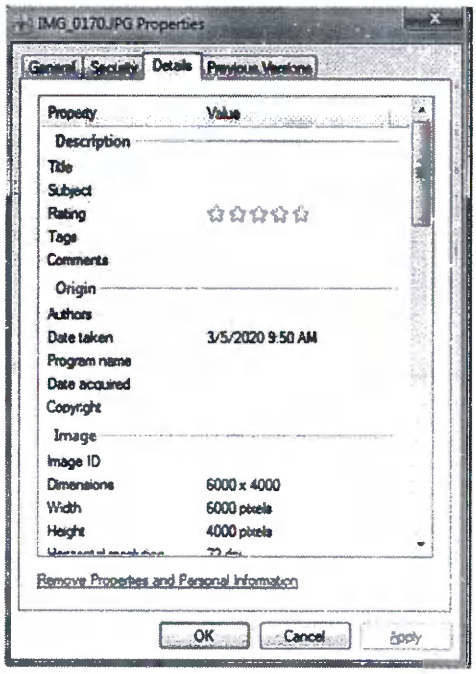
CHARUSAT CAMPUS, CHANGA

4. Event Photograph

Blogging Basics: Developing Blog



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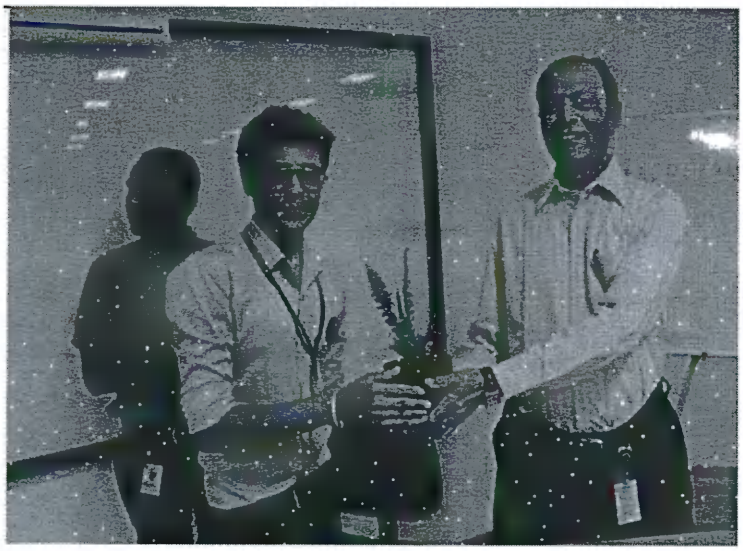
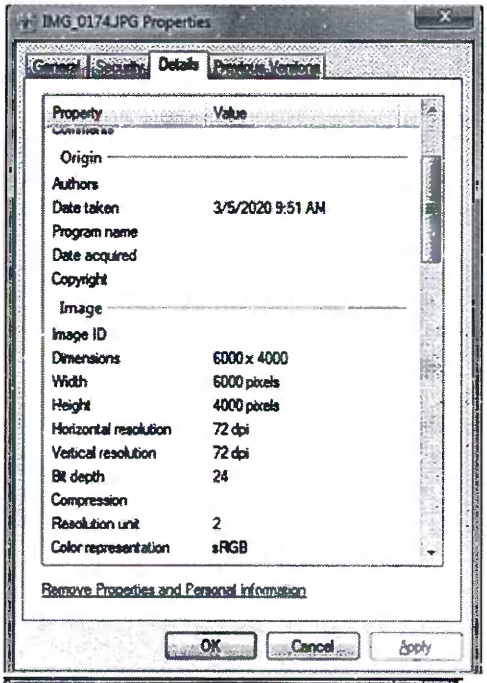
CHARUTAR UNIVERSITY OF SCIENCE AND TECHNOLOGY
CHARUSAT CAMPUS, CHANGA



Blogging Basics: Developing Blog



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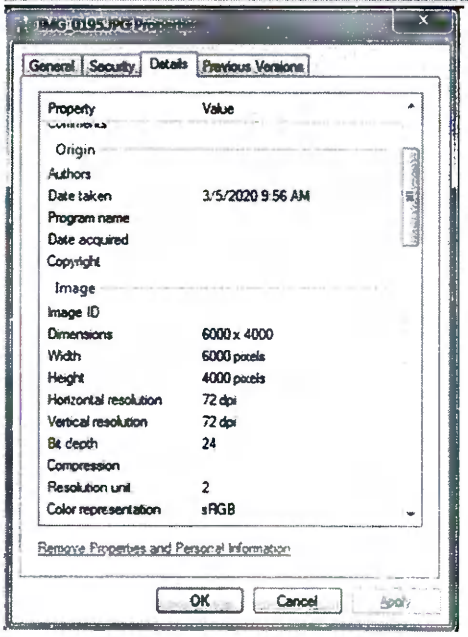
Blogging Basics: Developing Blog



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Color representation	sRGB

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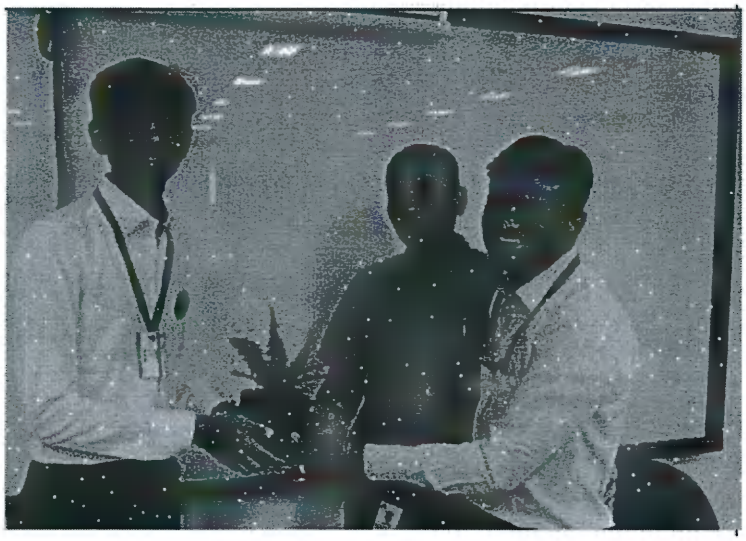
CHARUSAT CAMPUS, CHANGA



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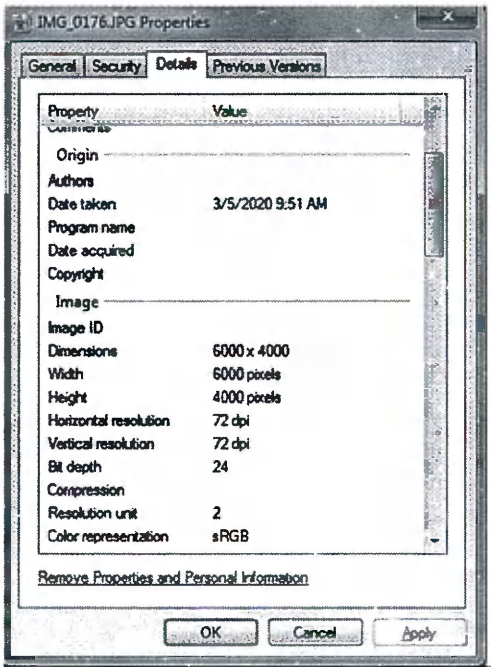

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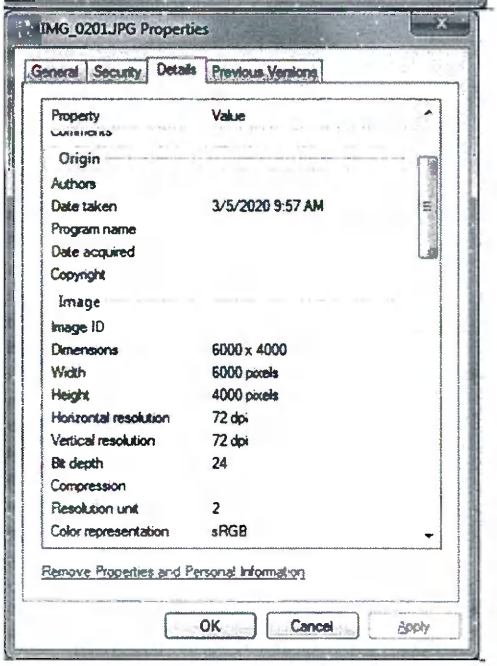

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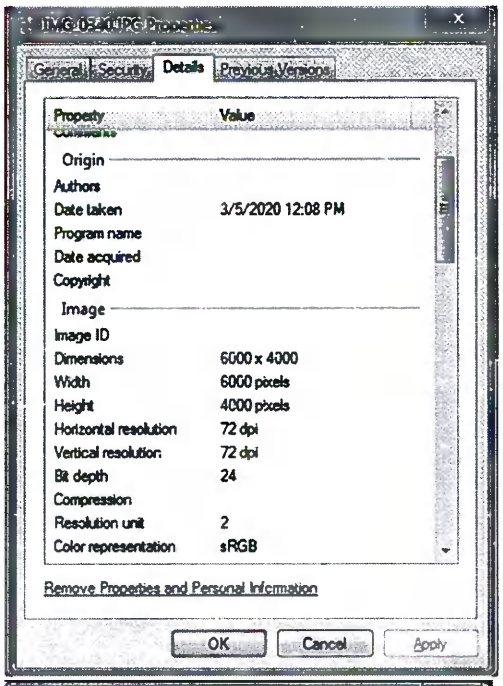
CHARUSAT CAMPUS, CHANGA

Blogging Basics: Developing Blog



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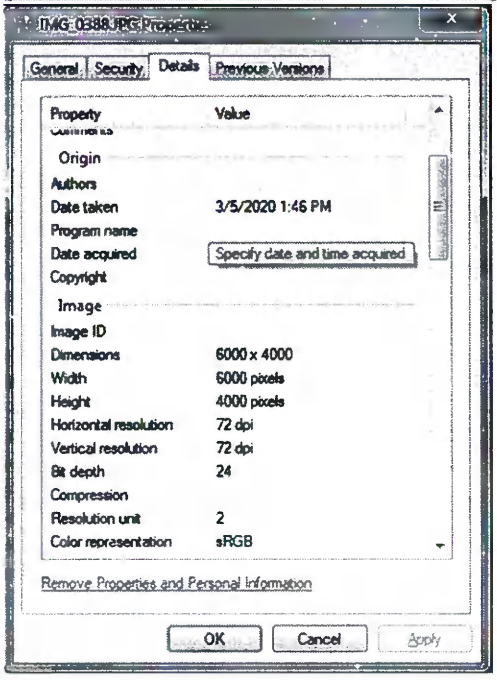
Blogging Basics: Developing Blog



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Resolution unit	2
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Remove Properties and Personal Information

OK | Cancel | Apply

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CHARUSAT CAMPUS, CHANGA

1. List of Participant

Total No. of Participants: 68

Sr. No.	ID No.	Email Id
1	17IT002	17IT002@charusat.edu.in
2	17IT004	17IT004@charusat.edu.in
3	17IT005	17IT005@charusat.edu.in
4	17IT019	17IT019@charusat.edu.in
5	17IT026	17IT026@charusat.edu.in
6	17IT027	17IT027@charusat.edu.in
7	17IT037	17IT037@charusat.edu.in
8	17IT045	17IT045@charusat.edu.in
9	17IT047	17IT047@charusat.edu.in
10	18IT002	18IT002@charusat.edu.in
11	18IT045	18IT045@charusat.edu.in
12	18IT052	18IT052@charusat.edu.in
13	18IT053	18IT053@charusat.edu.in
14	18IT071	18IT071@charusat.edu.in
15	18IT099	18IT099@charusat.edu.in
16	19IT010	19IT010@charusat.edu.in
17	19IT012	19IT012@charusat.edu.in
18	19IT015	19IT015@charusat.edu.in
19	19IT017	19IT017@charusat.edu.in
20	19IT020	19IT020@charusat.edu.in
21	19IT025	19IT025@charusat.edu.in
22	19IT032	19IT032@charusat.edu.in
23	19IT038	19IT038@charusat.edu.in
24	19IT043	19IT043@charusat.edu.in
25	19IT059	19IT059@charusat.edu.in
26	19IT065	19IT065@charusat.edu.in
27	19IT066	19IT066@charusat.edu.in
28	19IT067	19IT067@charusat.edu.in
29	19IT068	19IT068@charusat.edu.in
30	19IT069	19IT069@charusat.edu.in
31	19IT070	19IT070@charusat.edu.in
32	19IT071	19IT071@charusat.edu.in
33	19IT072	19IT072@charusat.edu.in
34	19IT075	19IT075@charusat.edu.in
35	19IT077	19IT077@charusat.edu.in

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CHARUSAT CAMPUS, CHANGA

36	19IT081	19IT081@charusat.edu.in
37	19IT082	19IT082@charusat.edu.in
38	19IT084	19IT084@charusat.edu.in
39	19IT087	19IT087@charusat.edu.in
40	19IT088	19IT088@charusat.edu.in
41	19IT089	19IT089@charusat.edu.in
42	19IT092	19IT092@charusat.edu.in
43	19IT095	19IT095@charusat.edu.in
44	19IT096	19IT096@charusat.edu.in
45	19IT098	19IT098@charusat.edu.in
46	19IT099	19IT099@charusat.edu.in
47	19IT100	19IT100@charusat.edu.in
48	19IT101	19IT101@charusat.edu.in
49	19IT105	19IT105@charusat.edu.in
50	19IT107	19IT107@charusat.edu.in
51	19IT109	19IT109@charusat.edu.in
52	19IT113	19IT113@charusat.edu.in
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54	19IT115	19IT115@charusat.edu.in
55	19IT117	19IT117@charusat.edu.in
56	19IT121	19IT121@charusat.edu.in
57	19IT122	19IT122@charusat.edu.in
58	19IT123	19IT123@charusat.edu.in
59	19IT125	19IT125@charusat.edu.in
60	19IT126	19IT126@charusat.edu.in
61	19IT132	19IT132@charusat.edu.in
62	19IT133	19IT133@charusat.edu.in
63	19IT136	19IT136@charusat.edu.in
64	19IT140	19IT140@charusat.edu.in
65	19IT151	19IT151@charusat.edu.in
66	19CE032	19CE032@charusat.edu.in
67	19CE102	19CE102@charusat.edu.in
68	19CE152	19CE152@charusat.edu.in

Certified By:

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CHAROTAR UNIVERSITY OF SCIENCE AND TECHNOLOGY
CHARUSAT CAMPUS, CHANGA