AcademicExpert FeedbackAnalysis on Curriculum for Academic Year 2017-2018

Academic Expert Detail

Sr. No.	Name	Name of Organization	Designation	Contact No
1.	Dr. Sohail Pandya	SVIT, Vasad	Assistant Professor	9825714448
2.	Ms. Niketa Bhatt	CSPIT, CHARUSAT Changa	Assistant Professor	9725028431
3.	Mr. Bharat Patel	G.H. Patel , SPU	Assistant Professor	9825809282
4.	Dr. Gaurang Panchal	CSPIT, CHARUSAT Changa	Assistant Professor	9909236993
5.	Jonita Roman	SVIT, Vasad	Assistant Professor	9825977365

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According to Expert below listed points are the best part of Syllabus:

- The content of syllabus is very good.
- Elective courses offered are good.
- Introduction of python is very relevant
- Syllabus is based on Industry requirements
- Latest Subjects.
- It covers the latest framework with overall web development cycle.
- More elective choices are given so students can select their area of interest
- Mobile application development is covered effectively

According to Expert below listed subject need more focus:

- Core subjects should be given importance.
- Cyber security and Ajax framework.
- Web designing should be focused in detail.
- Programming subjects can be covered with real world problems.
- Ajax and Json should be covered in detail.
- Wordpress customization and security.
- SQL and No SQL database should be covered in detail.

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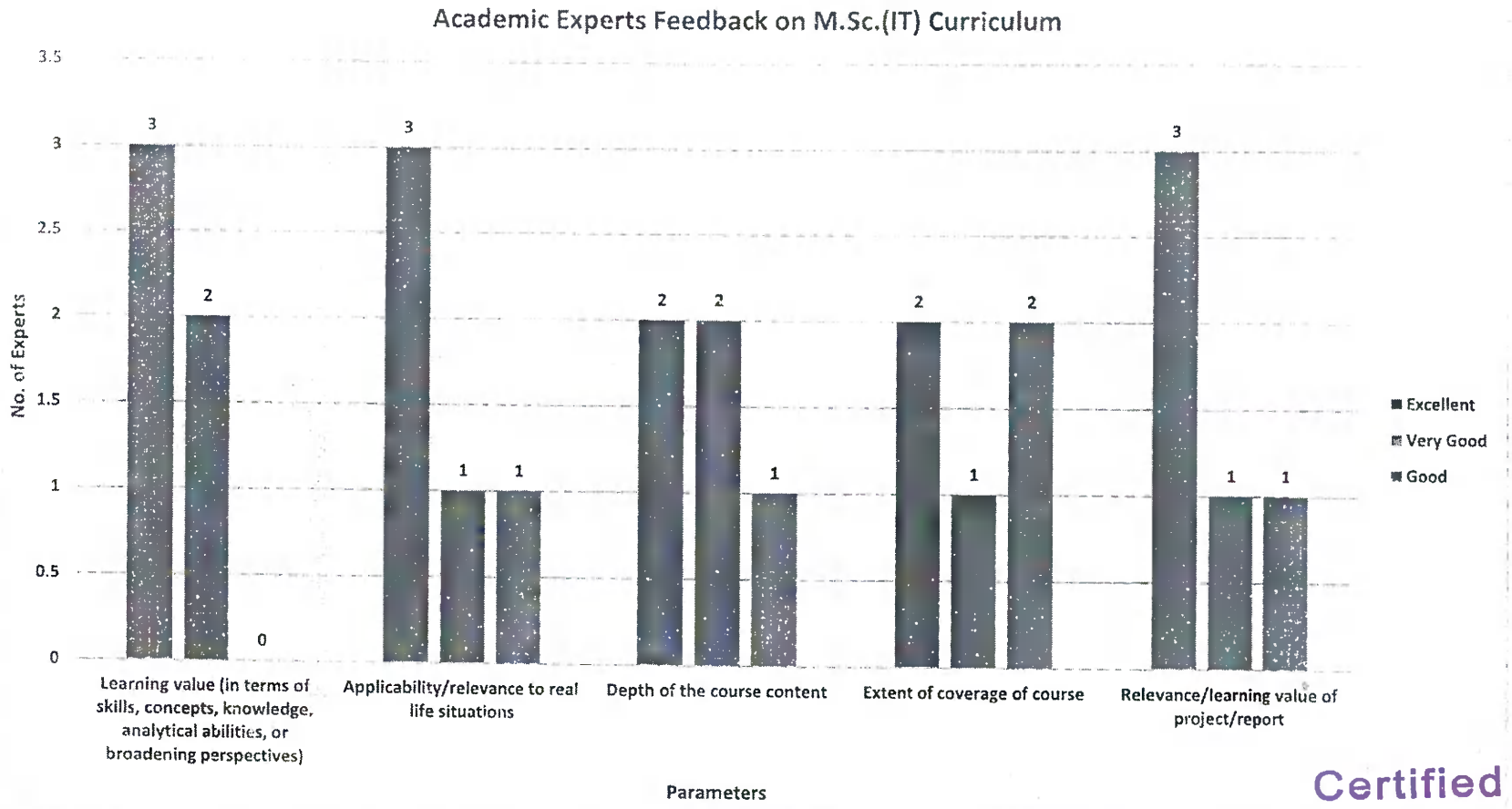

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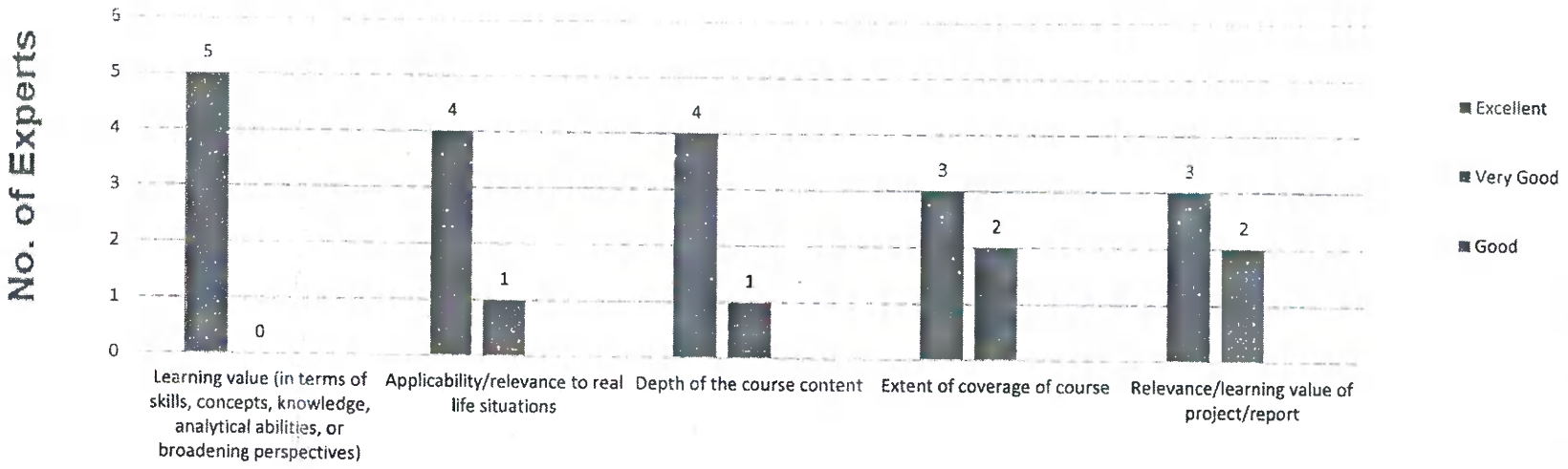

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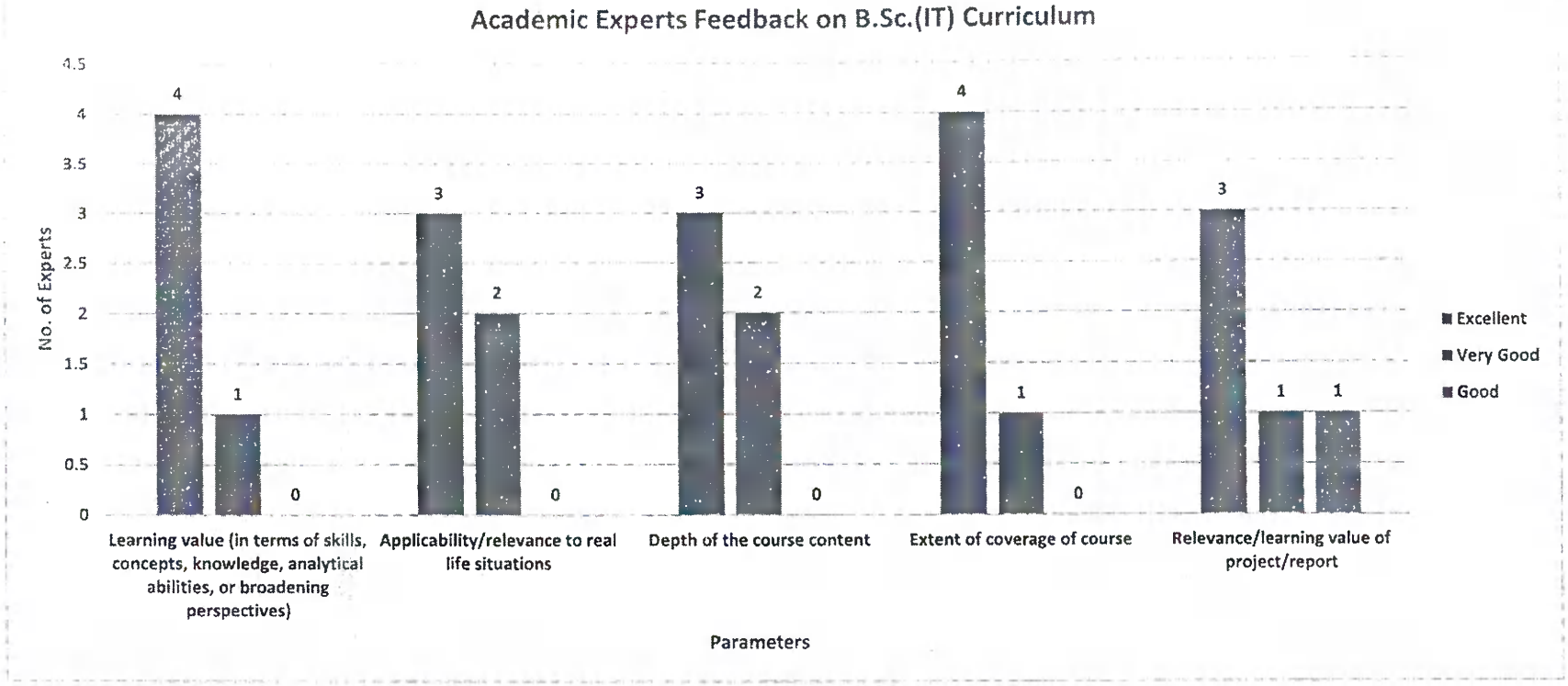

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AlumniFeedbackAnalysis on Curriculum for Academic Year 2017-2018

AlumniDetail

Sr. No.	Name	Name of Organization	Designation	Contact No
1.	JaydeepMakwana	Gsrtc	System Engineer	-
2.	Vivek Shukla	Sarjen Systems	Sr. Soft Engg	9874757593
3.	Harsh Trivedi	Open Xcell	Sr Android Developer	9924237090
4.	Nevil Bhrambhatt	Mtaj Solutions	Sr. S/W Programmer	9898682998
5.	Krupa A. Patel	Ved Enterprise	SEO	8487043102
6.	Devanshi D. Desai	Arth I - Soft	Game Developer	9662642349
7.	Hitendra Patel	ChamaleonInfotech	Developer	9033524631
8.	Maitri J. Kamdar	DevlonInfotech	QA	9427339595
9.	Jinal R. Patel	CerebroInfosystem	Owner	8401128900
10.	RuchiKansara	Future Group	Assistant Manager	9974787263
11.	ArbazShahai	Rigel Networks	Developer	9033869789
12.	Subham Shah	Incarnailct	Web Developer	9428883052
13.	Jainish Parekh	Evosys	Technical Consultant	7383828082
14.	Rushabh Shah	Biztech	Software Engineer	9429148623
15.	Jijo B Nair	Codedcyclopedia	Lead Php Developer	9724511017
16.	Nikisha Patel	E-Inrochips	Software Engineeer	9537698364
17.	Vijay Sharma	Config Tech Pvt. Ltd.	Sr. Mobile Develo[Per	9428121592
18.	Kevin Shah	Infosys Ltd	Technical Analyst	9725082555
19.	DipakPrajapati	Atos India Pvt Ltd	Server Admin	9979282982
20.	Ajaysinh Virpura	Svaapta It-Ally Solution Pvt.Ltd	Php Developer	8511012180

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According to Expert below listed points are the best part of Syllabus:

- MPPL, Dot net and Basic Web Designing
- Syllabus is highly adequate to meet the industry standards
- Syllabus covers subjects which are very helpful to student in their future.
- Cyber Security subject is good
- Subject like WXML, WDOS and WDAJ is good.
- Every subject covered in depth.
- Web Designing is important
- Subject on Mobile Application Development
- WordPress, Collaborative technologies, Data Mining, Word Press, Mobile Application Technology, Web application development using java covered in good depth
- Cover Computer Graphics

According to Expert below listed subject need more focus:

- Dot Net, Java and php
- MPPL
- Software Engineering and Quality Assurance, and Software Quality Assurance.
- Database Technology and Networking.
- Network related subject should be covered in more detail.
- PI and javascript, css.
- JAVA. Include framework.
- VP. MVC should be cover in depth.
- PHP, WordPress
- ASP.NET - VP
- Focus on Communication skills development
- Cover IOT

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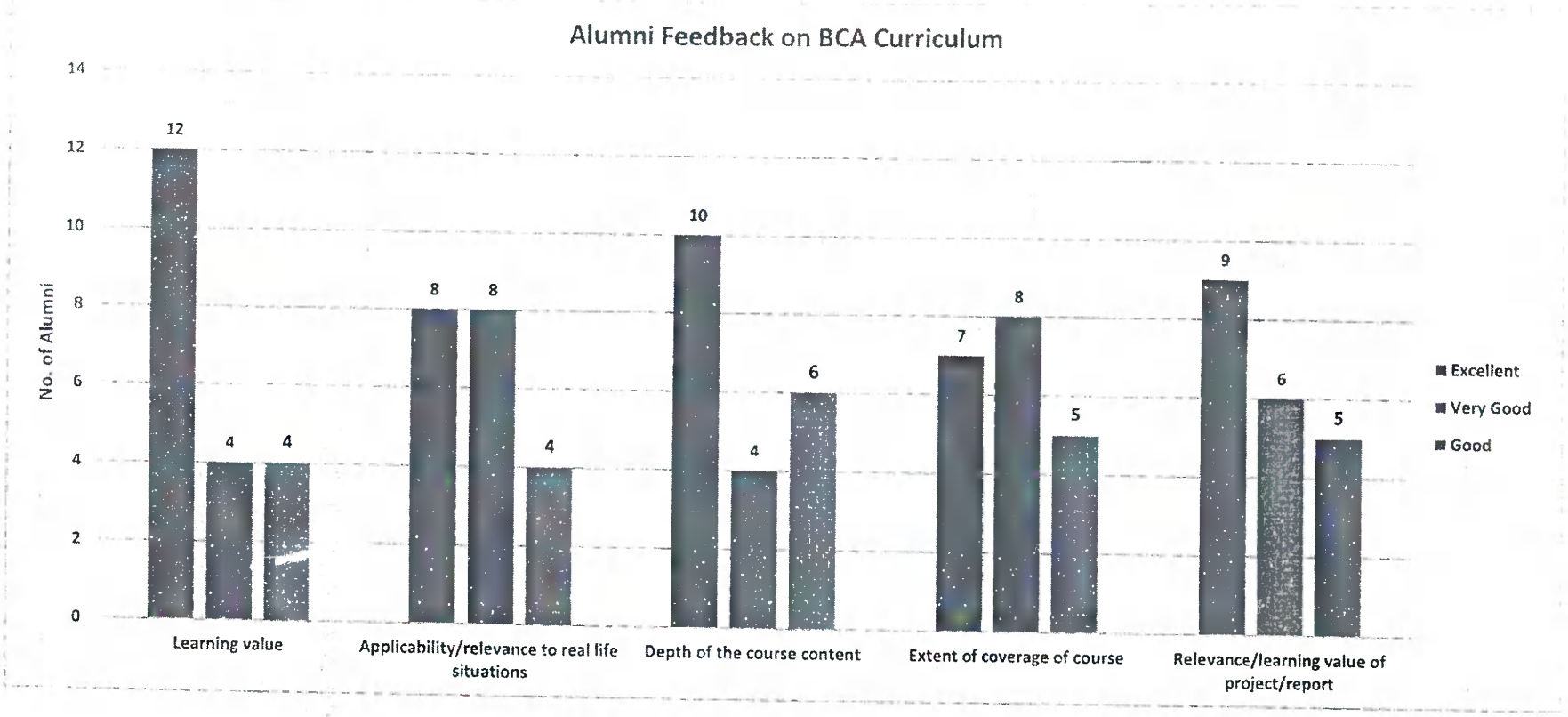
Programme Wise Feedback Analysis



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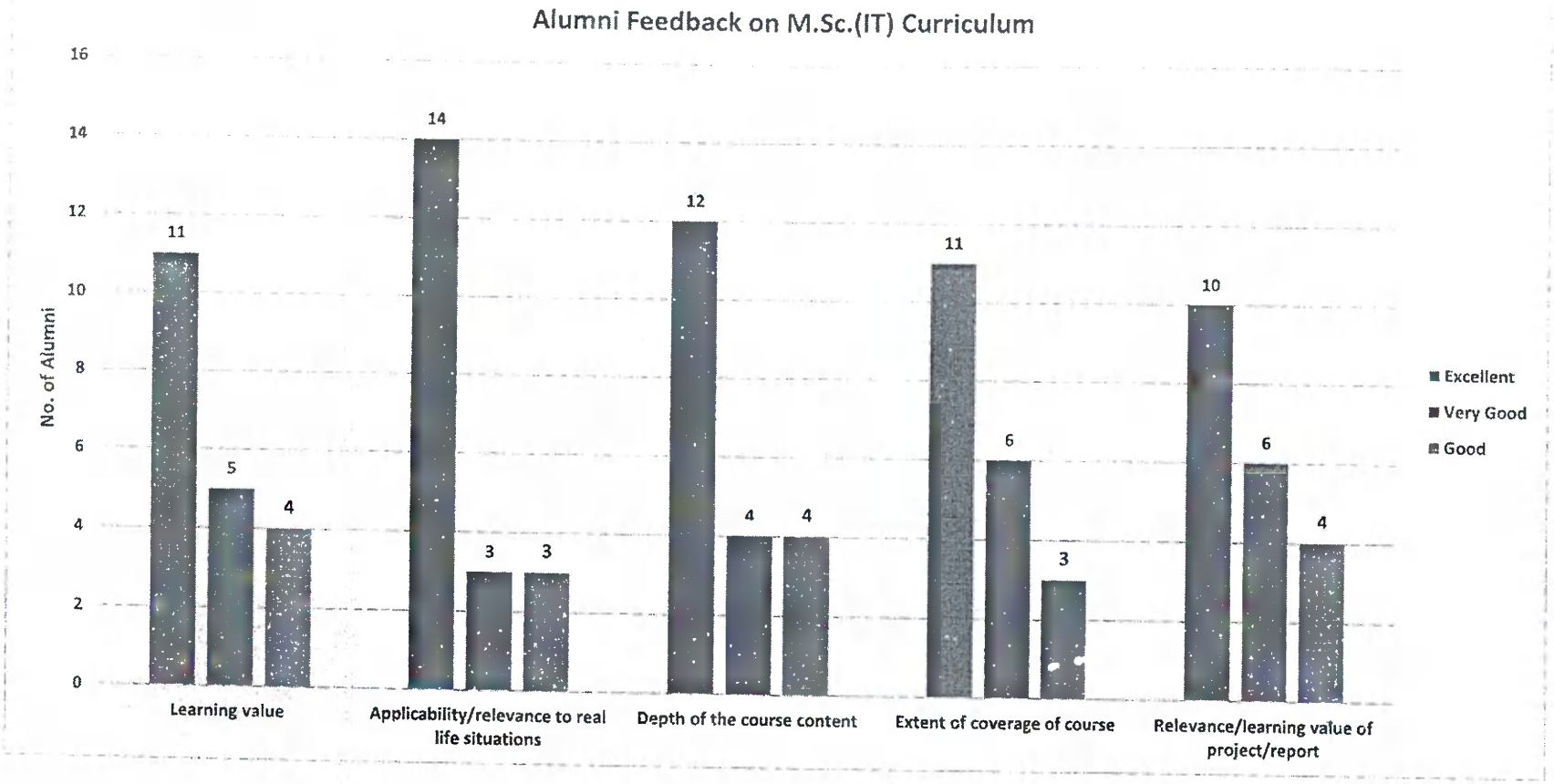

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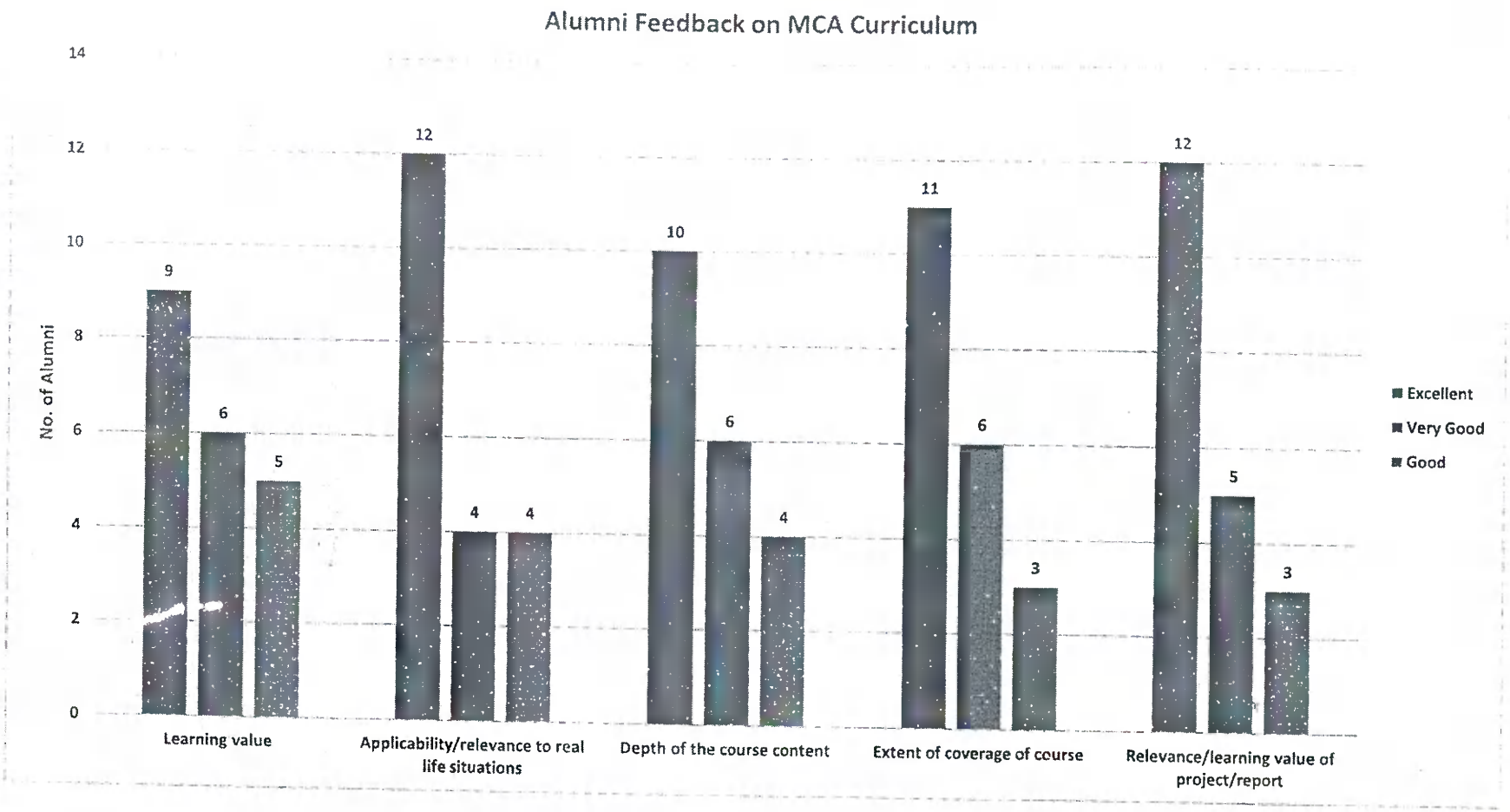

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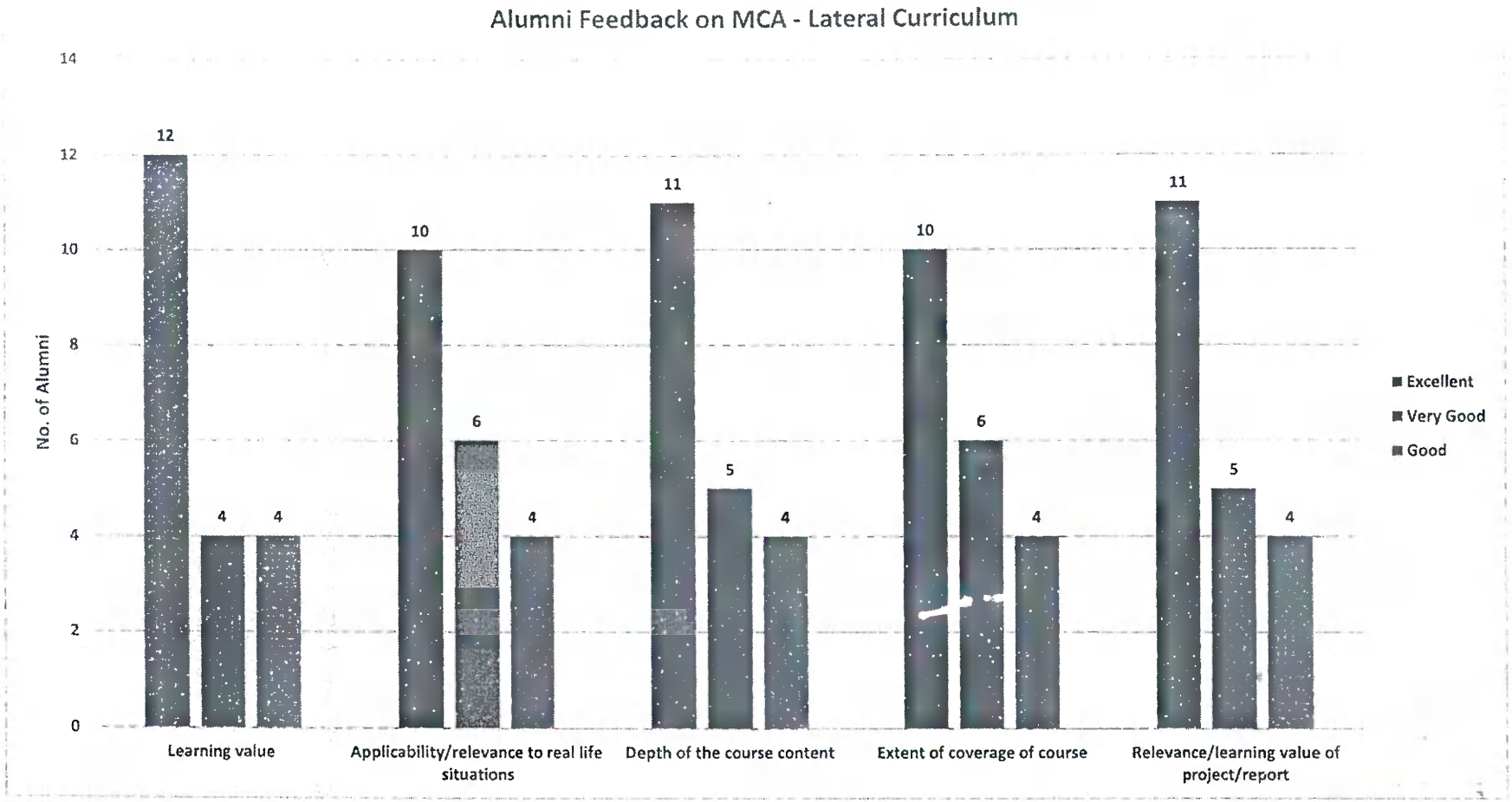

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Employers Feedback Analysis on Curriculum for Academic Year 2017-2018

Employers Detail

Sr. No.	Name	Name of Organization	Designation	Contact No
1.	Mr. Dhruvil Upadhyay	Loadstone Pvt Ltd	Team Lead	9909518741
2.	Mr. Dhruvit Darji	Helios Solutions	Team Lead	9428151822
3.	Ms. Dhruva Bhayani	E-intelligence	Sr. Web Designer	99789 61958
4.	Mr. Kishor Tarachandani	Dots N Coms	Director	9925008943
5.	Ms. Rajvi Shah	Tatvic	Data Analyst	9033407936

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According to Expert below listed points are the best part of Syllabus:

- Programming languages
- Frameworks covered
- Database
- Software Engineering

According to Expert below listed subject need more focus:

- Java and advance java
- Php, mongoDB, Wordpress
- Testing
- Dotnet
- Webservices
- Python
- Focus on core languages and frameworks used in project development

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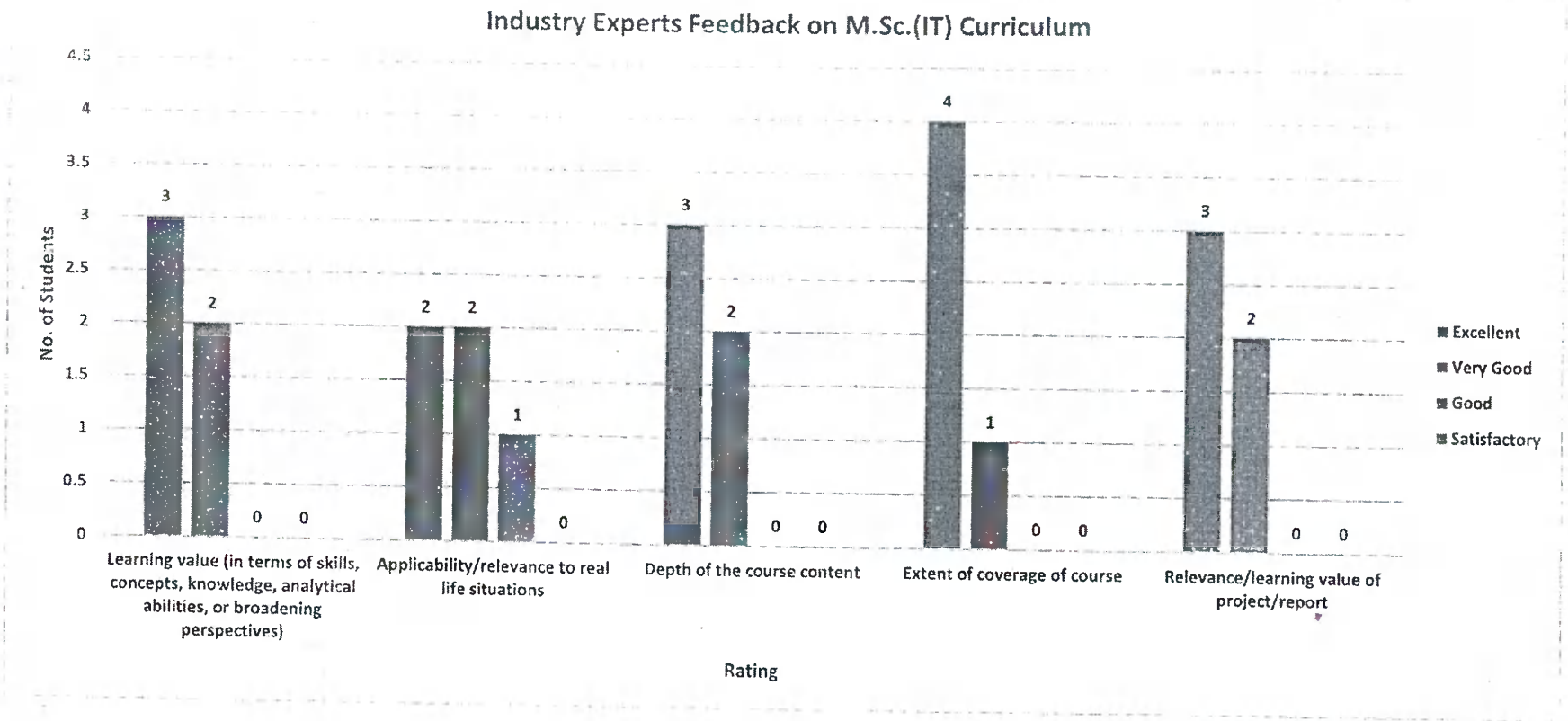
Programme Wise Feedback Analysis



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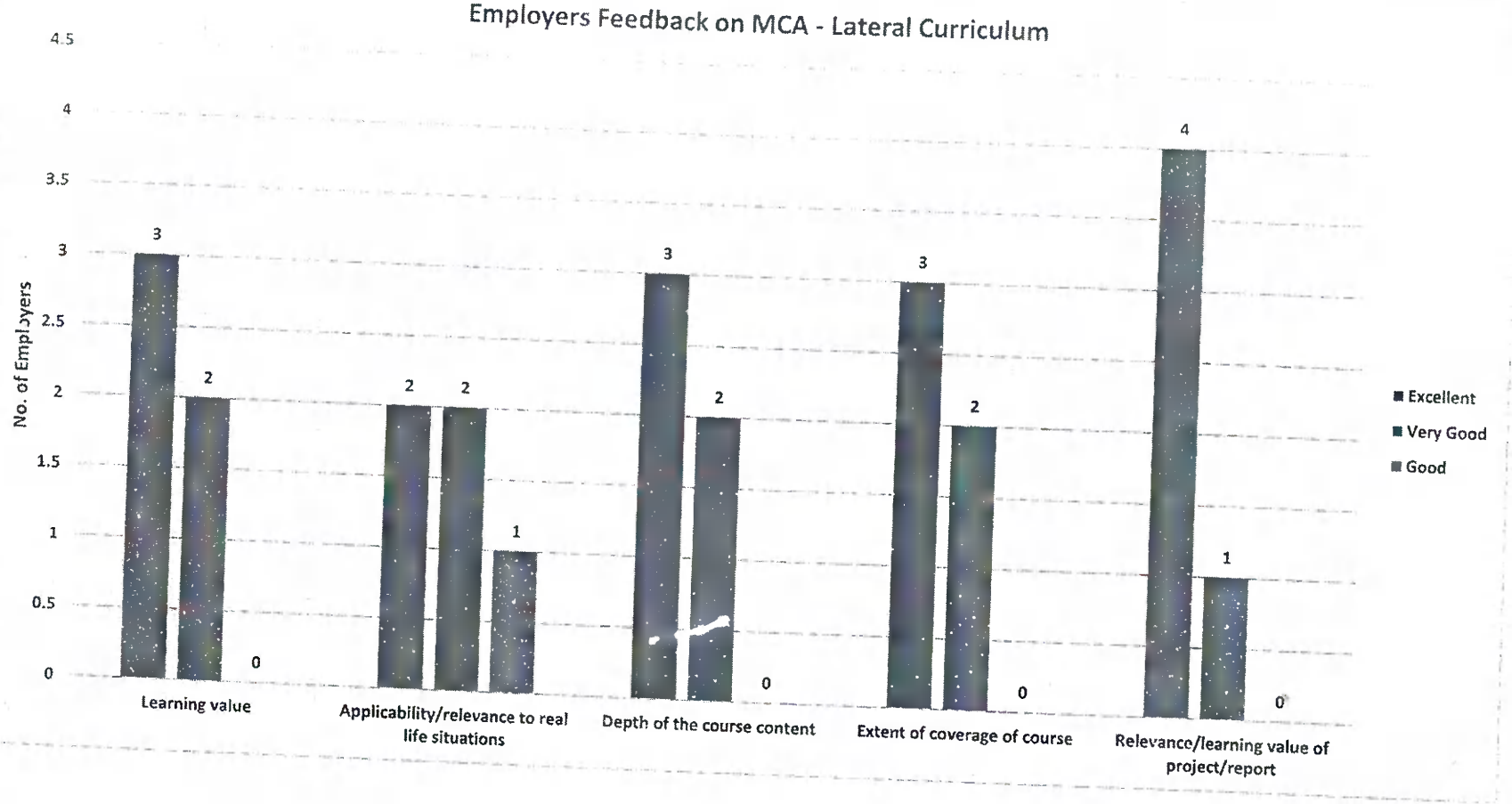

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FacultyFeedbackAnalysis on Syllabusfor the Academic Year 2017-2018

Below is the list of subjects on which faculty had given feedback:

Sr. No.	Course Code	Course Name	Programme	Semester
1.	CA109	Introduction to Information Technology	BCA	I
2.	CA111	Fundamental Concepts of Programming Language	BCA	I
3.	CA112	Introduction to Computers	BCA	I
4.	CA114	Foundation of Mathematics	BCA	I
5.	CA115	Management Information Systems	BCA	II
6.	CA116	Numerical and Statistical Methods	BCA	II
7.	CA117	Operating System Concepts	BCA	II
8.	CA 118	Advanced Programming	BCA	II
9.	CA 119	Database Fundamentals	BCA	II
10.	CA120	Fundamental of Commerce and Business Processes	BCA	II

1. **Is it according to the objectives of course?(Yes)**
   - 90% of course objectives are fulfilled need to include some more practical approach in last unit.
   - The syllabus fulfills the objectives but not all.

2. **Is it fulfilling all outcomes of the course?(No)**
   - Yes the course outcome is fulfilled.

3. **Is Methodology and Pedagogy of course is appropriate?(No)**
   - The methodology and pedagogy of the courses is appropriate.

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4. Is content of every unit appropriate?(No)

- CA117Operating System Concepts in this subject units-4,5 and 6 are totally focusing on practical aspects which can only be taught during practical sessions parallelly with demonstrations, so better that units 4,5 and 6 can be made for other advance theory topics of OS and the practical topics should be included as a list of practical experiments.
- Unit-II should be allotted more hours for the thorough knowledge of the process and thread concept.
- Unit-III should be allotted more time as it covers scheduling algorithms (Total 7 and most of them with non-preemptive and preemptive versions) which requires more different kinds of practice examples.

5. **Are hours allocated to each unit is appropriate?(No)**

- CA 118 Advance Programming, Unit 4 is very short so it can be finish within 3 hours no extra hours are required to complete the unit. Unit4 is very short so some more content can be added.
- CA116- Numerical and Statistical Methods,Unit 2 & 3 are short, so it can easily complete in 5 hours and Unit 5 & 6 are lengthy so, it requires more time to complete

6. **Are core books and reference books appropriate and relevant?**

- The books are relevant as per the syllabus.

7. **Any other feedback related to course syllabus**

- Unit Sequence can be change as all units are interlinked so sequence should be in that manner..
- CA115 Management Information Systems in this subject as students have no background of any information system and commercial software used in the market, it is difficult for them to relate the theoretical aspects discussed regarding Knowledge Management System and Executive Support System. These two units can be combined to give introductory concepts of both and more stress can be given to transaction processing systems and management information systems, which can be found around them and they can relate better.

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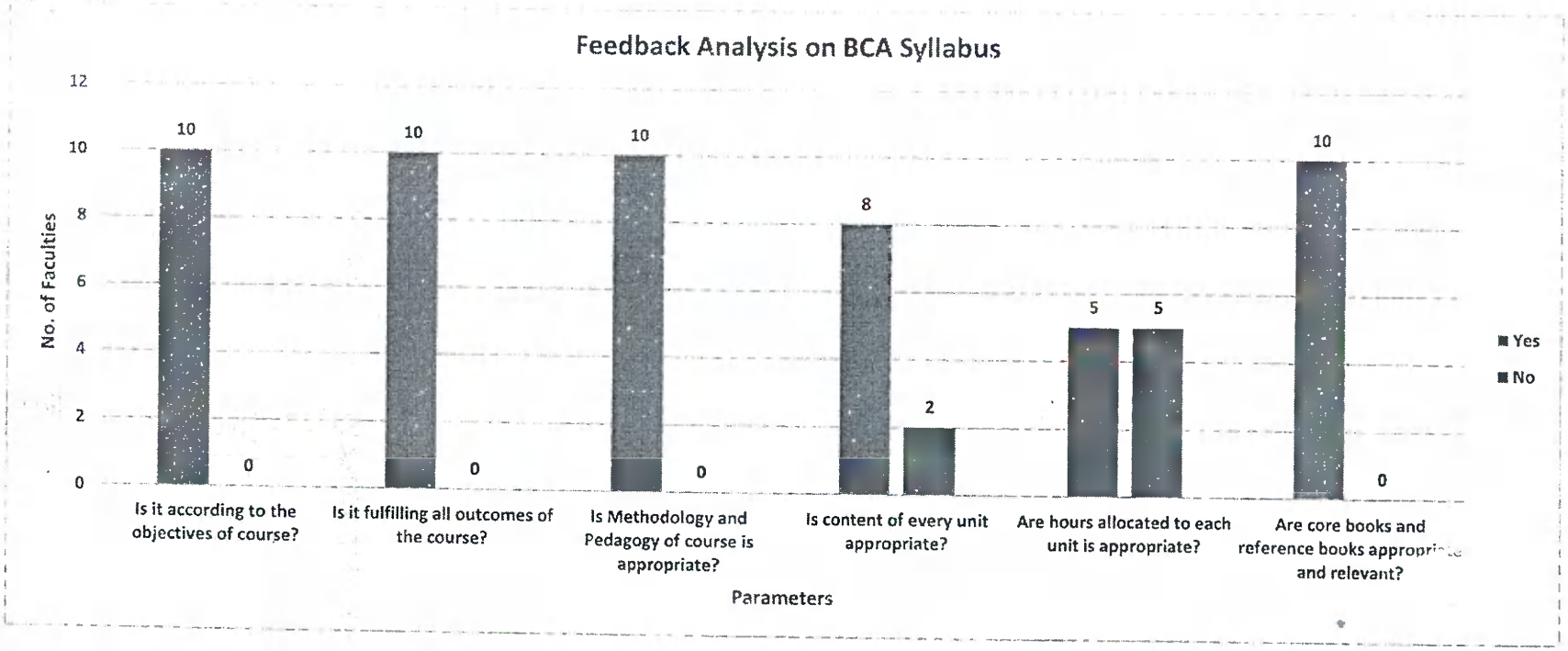
Overall Feedback Analysis



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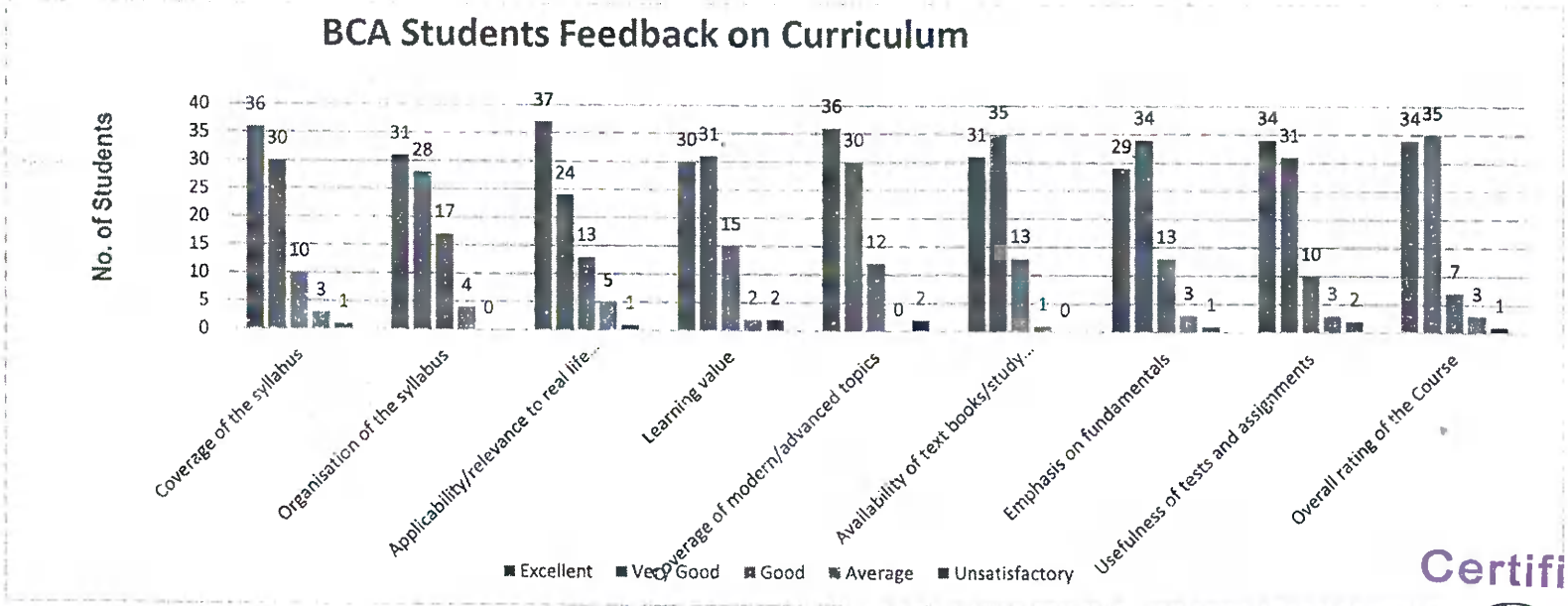
Student Feedback Analysis on Syllabus(April – 2018)

Suggestions from Students

- Include advance designing technologies like Node JS, Angular JS and React.
- Focus on core subjects.

Programme Wise Feedback Analysis

BCA(Batch 2015-2018)



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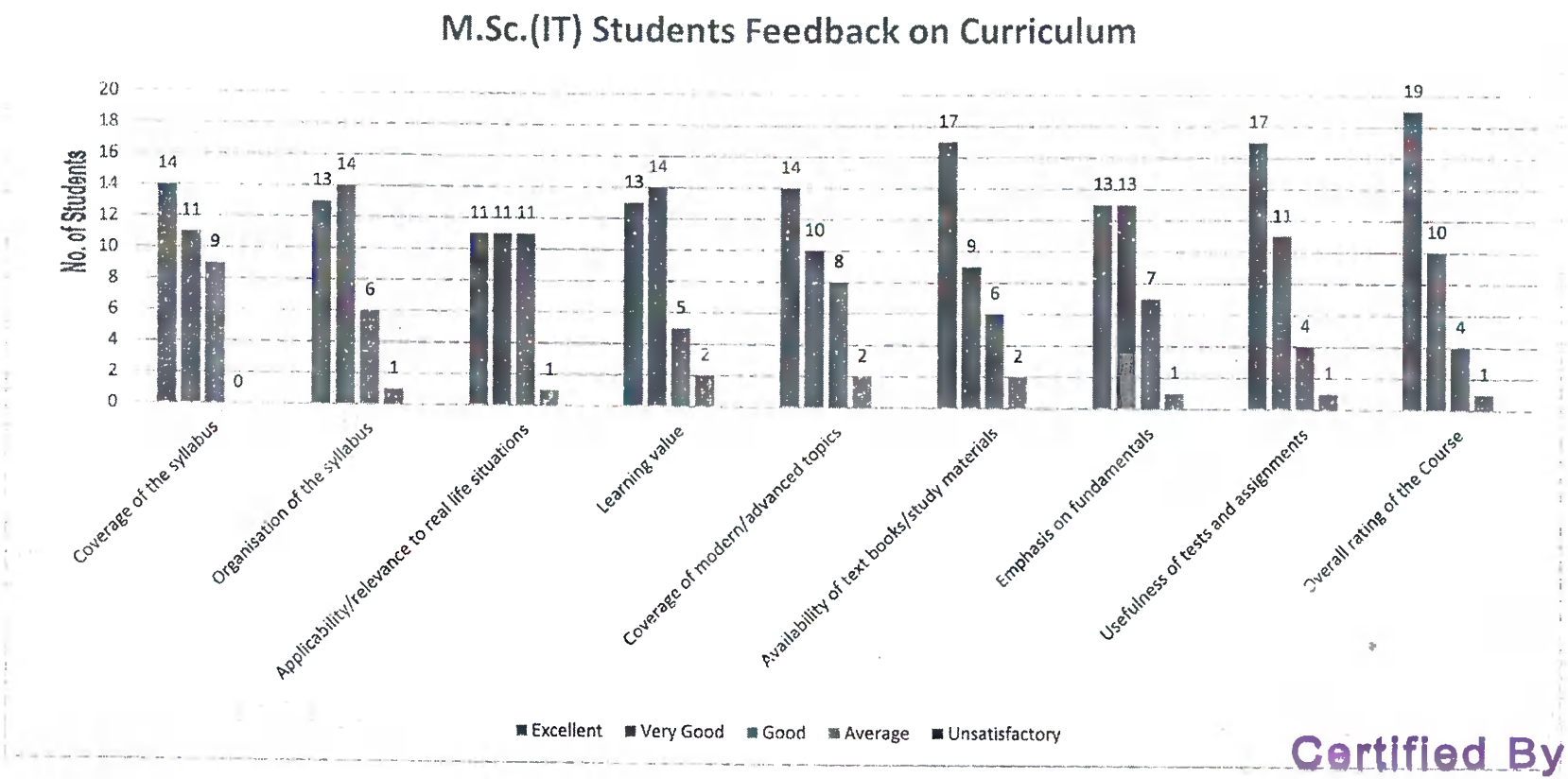
M.Sc.(IT) (Batch 2016-2018)



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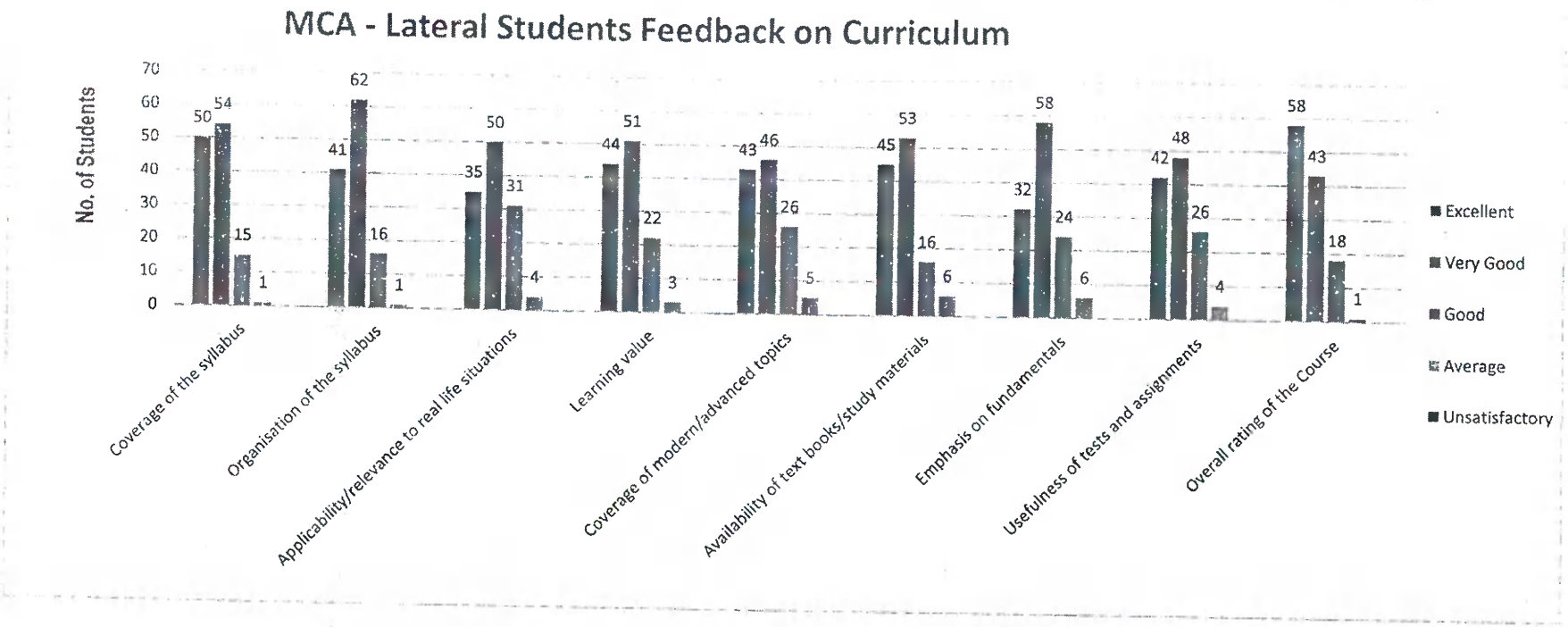
MCA Lateral (Batch 2016-2018)



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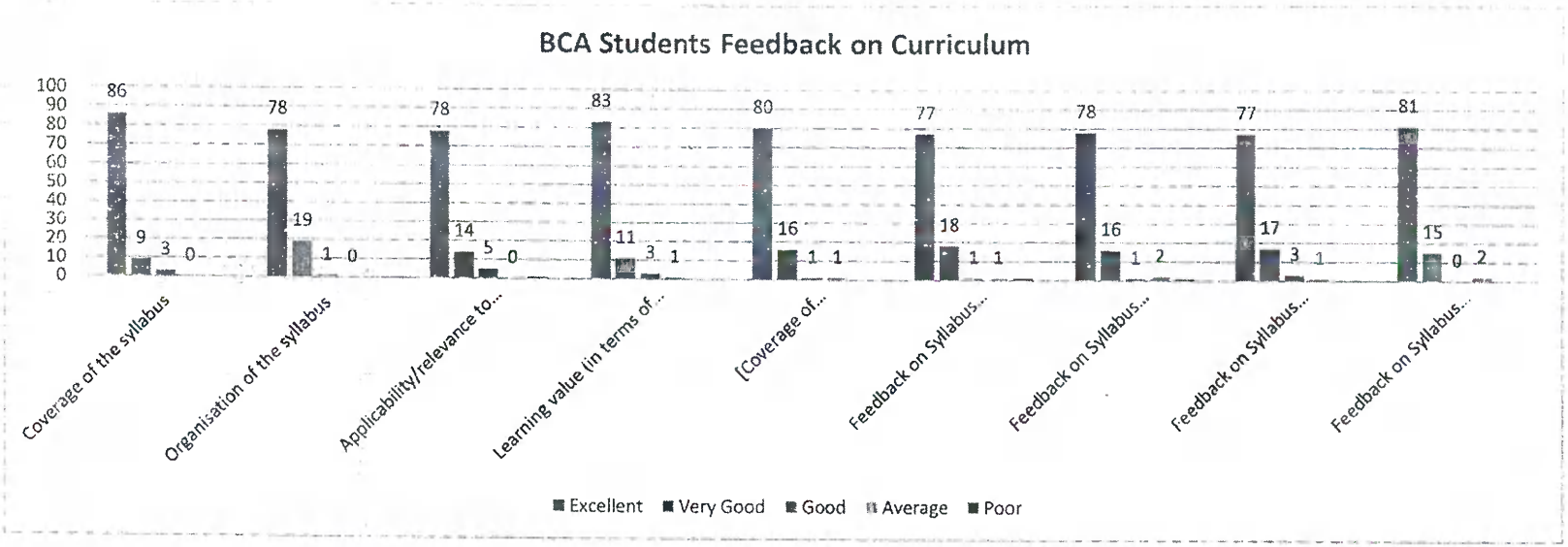
Student Feedback Analysis on Syllabus (April – 2019)

Programme Wise Feedback Analysis

BCA(Batch 2016-2019)



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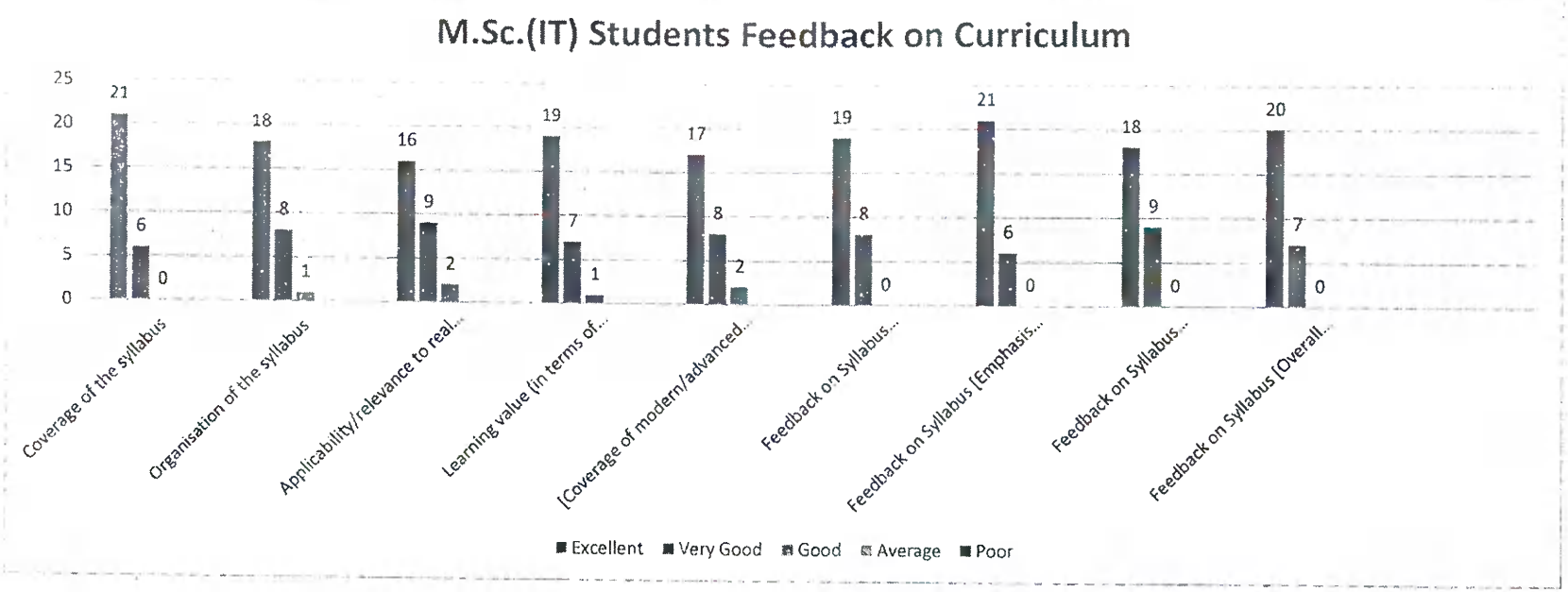

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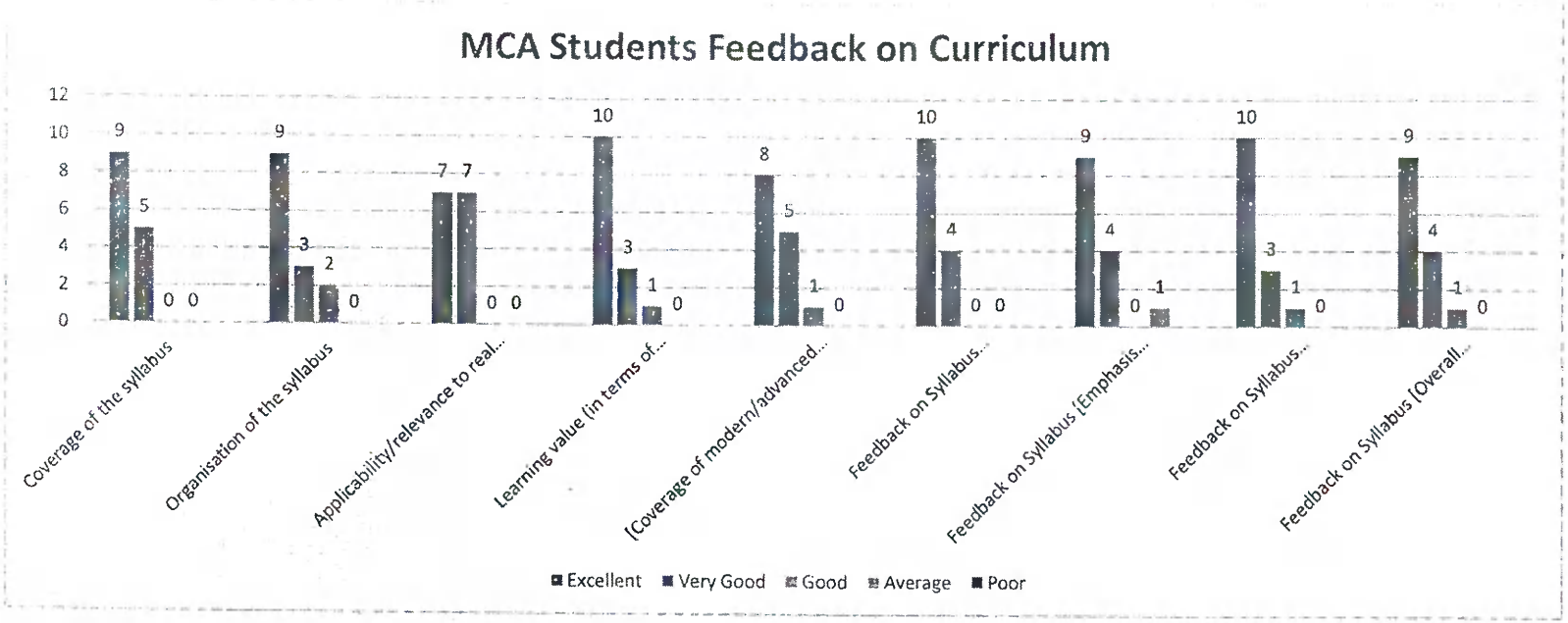
MCA (Batch 2016-2019)



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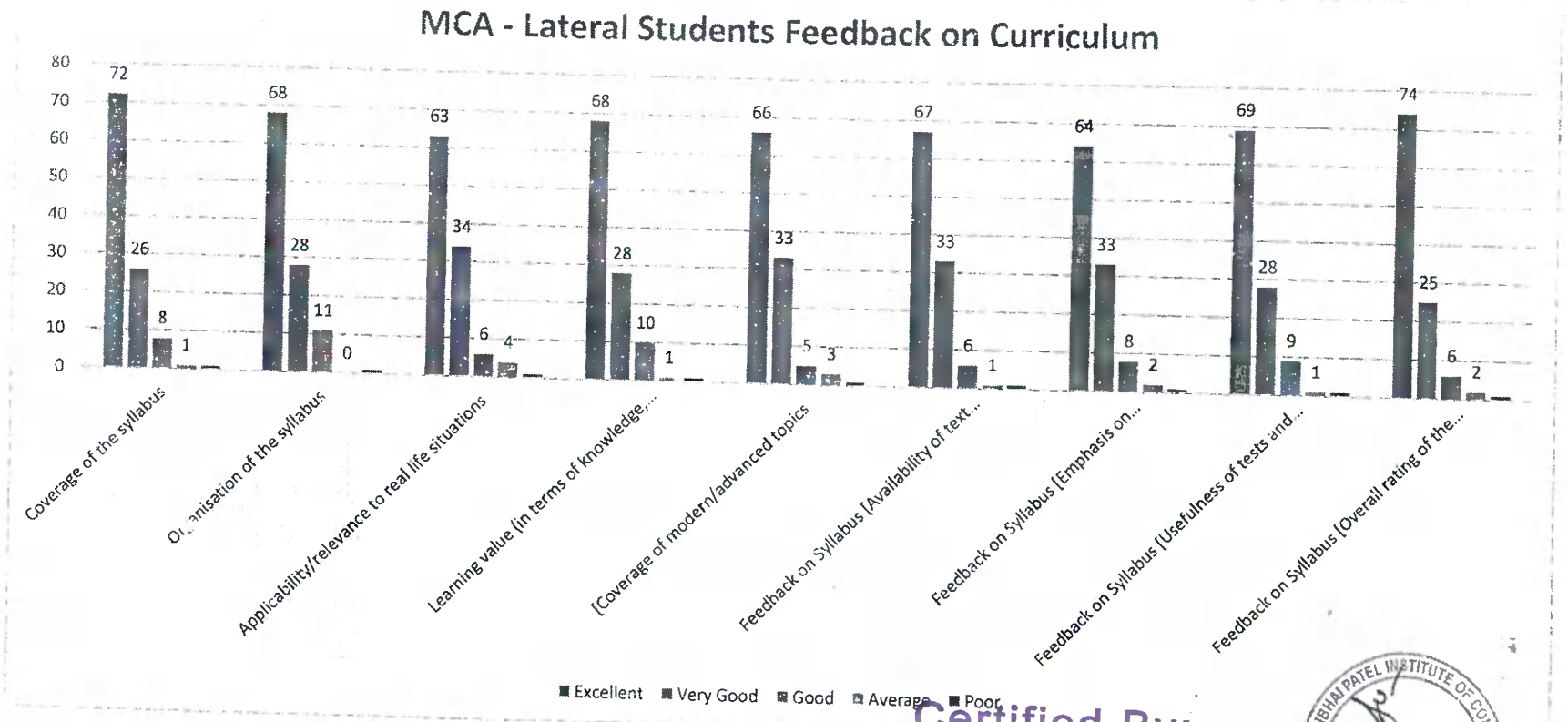
MCA Lateral (Batch 2017-2019)



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Analysis of Feedback on the syllabus for the academic year 2017-2018 given by Stakeholders

Sr. No.	Stakeholder	Feedback Regarding Curriculum	Action Taken
1	Expert from Industry	Aptitude preparation for pre final semester students	Allow 30 minutes of preparation during lab hours. Arrange extra lectures and workshop for preparation. Refer Annexure I for Departmental meetings.
		Basic fundamental concepts should be covered in more detail	Arrangement of extra classes after working hours for preparation of core subjects. Refer Annexure I for Departmental meetings.
		Include advance designing technologies like Node JS, Angular JS, React.	We will arrange the workshop or expert lecture for the techniques. Refer Annexure I for Departmental meetings.
2	Employers	Focus on core languages and frameworks supported and used in project development.	Languages and frameworks are covered in syllabus. Refer Annexure III for Teaching and Learning scheme.
3.	Academic Peers	Cover core courses in detail.	The assignments are designed such a way that they cover the in depth application of the courses.
		Cyber Security, Ajax framework, Security in WordPress should be covered in more detail	The concerned points are delivered in depth by taking more examples and applications of the concept.
4	Faculty members	CA111: Fundamental Concepts of Programming Language • Unit V is very lengthy so extra hours should be added.	No changes made as it is practical course, faculty can take more hours during practical session. Faculty can demonstrate program during lab hours. Refer Annexure II for BOS meeting.
		CA115: Management Information Systems • As students have no background of any information system and commercial software used in the market, it is difficult for them to relate the theoretical aspects discussed regarding Knowledge Management System and Executive Support System. These two units can be combined to give introductory concepts of both and more stress can be given to transaction processing systems and management information systems, which can be found around them and they can relate better.	The course content is changed according to the feedback Refer Annexure II for BOS meeting.
		CA116 : Numerical and Statistical Methods • Unit V & VI need more hours and that can be adjusted with Unit-I and II	Hours are changed according to feedback. Refer Annexure II for BOS meeting.

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		CA117 : Operating System Concepts Units- IV, V and VI are totally focusing on practical aspects which can be taught during practical sessions parallel with demonstrations, so it is a scope to add more theoretical concepts. The unit - 111 should be allotted more time as it covers scheduling algorithms.	Content of memory management and I/O management added according to the feedback. Refer Annexure II for BOS meeting.
		CA 118 : Advanced Programming • Unit IV is very short, so some more content can be added. • The sequence of Unit-V and VI needs to be changed	Content of preprocessor directives such as ,#ifdef,#ifndef,#if,#else,#elif,# endif added according to the feedback. Sequence of units V and VI is changed. Refer Annexure II for BOS meeting.
		CA119 : Database Fundamentals • Unit-II is very short. It doesn't require 08 Hours. If possible, add Generalization and Specialization concept in Unit-ll.	The course content is changed according to the feedback Refer Annexure II for BOS meeting.
5	Alumni	Java, PI, MVC Framework, .NET, Database Technology, WordPress, SQA, MPPL and network related subjects should be covered in more detail.	Extra topics other than syllabus are covered by organizing expert sessions and workshops Refer Annexure II for BOS meeting.
		Cover the communication skills subjects in depth.	It is offered as part of Humanities courses. Refer Annexure III for Teaching and Learning scheme.
		Introduce IOT as it is the era of it.	We have included Embedded Programming in the syllabus of BCA w.e.f. from the A.Y. 2016-2017. Refer Annexure III for Teaching and Learning scheme.
		Cover the Computer Graphics courses.	We have included it in the syllabus of BCA. Refer Annexure III for Teaching and Learning scheme.
6	Parents	Include Foreign Language in the Syllabus.	It is offered by the Humanites courses (Language French.) Refer Annexure II for BOS meeting.
		Include latest technologies and trends.	Various lectures and workshops are organized to cover the areas a art from the syllabus. Refer Annexure I for Departmental meetings.
		Include group work and teamwork as part of curricular activities.	We have included case study based approach so students can work in group or individually, as well as in Project work they can work in team or individual. Refer Annexure III for Teaching and Learning scheme.

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7	Final semester students	Include advance designing technologies like Node JS, Angular JS and React.	We will arrange of the workshop or expert lecture for the techniques. Refer Annexure I for Departmental meetings.

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Annexure I
Departmental meetings

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MINUTES OF THE FOURTH MEETING (04 of 2017) OF DEPARTMENT

The faculty meeting of CMPICA was held on 22nd July, 2017 at 2:30 PM (Board room). The meeting was conducted by Dr. Atul Patel, and following people attended the meeting:

Dr. Dharmendra Patel	Dr. Nirali Honest	Dr. Sanskruti Patel
Mr Pranav Vyas	Dr. Jaimin Undavia	Dr. Chirag Patel
Mr. Nilay Ganatra	Mr. Abhilash Shukla	Ms. Swati Patel
Mr. Karan Patel	Ms. Hema Patel	Ms. Rachana Patel
Mr. Arpit Trivedi	Mr. Mahesh Gadhavi	Ms. Nita Lokwani
Ms. Shreya Banker	Ms. Mubina Malik	Ms. Trisha Patel
Mr. Kanubhai Patel	Ms. Dhatri Raval	Ms. Hetal Patel
Mr. Hardik R. Patel	Ms. Sheenal Patel	Ms. Nilam Desai
Mr. Tushar Mehta	Mr. Hardik I.Patel	Ms. Rupal Patel
Ms. Mansi Shanishwara	Ms. Pooja Parekh	Ms.Saumya Patel
Mr. Akash Patel	Dr. Pritpal Singh	

Item #1: Atul sir informed total number of students enrolled in current academic year as below.

Branch	Total no. of student Enrollment
BCA	130
B.Sc.(IT)	90
MCAL	139
M.Sc.(IT)	30
Total	**389**

Item#2: Discussion on academic session regularity.

Item#3: To expand the research area every first Saturday of a month Dr. Pritpal sir will talk on research for 20 to 30 min. Also sir added developed system in CMPICA should be demonstrated to all faculty.

Item#4: For pre-final semester students, allow aptitude and technical preparation session for last 30 minutes of laboratory hours. Arrange extra classes after working hours to prepare students for core and fundamental concepts.

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MINUTES OF THE ELEVENTH MEETING (11 of 2017) OF DEPARTMENT

The faculty meeting of CMPICA was held on 27th December ,2017 at 3:30 PM (Board Room). The meeting was conducted by Dr. Atul Patel, and following people attended the meeting:

1. Dr. Dharmendra Patel	2. Dr. Nirali Honest	3. Dr. Sanskruti Patel
4. Dr. Jaimin Undavia	5. Dr. Chirag Patel	6. Mr. Nilay Ganatra
7. Mr. Abhilash Shukla	8. Ms. Swati Patel	9. Mr. Karan Patel
10. Mr. Arpit Trivedi	11. Ms. Shreya Banker.	12. Ms. Mubina Malik
13. Ms. Hetal Patel	14. Mr. Kanubhai Patel	15. Ms. Dhatri Raval
16. Mr. Hardik R. Patel	17. Ms. Sheenal Patel	18. Ms. Nilam Desai
19. Mr. Hardik I.Patel	20. Ms. Pooja Parekh	21. Ms. Saumya Patel
22. Dr. Pritpal Singh		

Item #1: Atul sir focused some of the point that faculty must take care:

- Regularity of students must be there after 15th of January. So All the counsellor have to analyse the attandance
- Faculty must adjust theire work load before taking leave.
- Due to the unavailability of Rachana mam, Hardik I Patel sir will be given the responsibility for time table.
- Faculty should take care during the practical examination and marks entry in egovernance
- All the faculty member have to analyse the result once it comes.

Item #2: Discussion of workshops and expert lectures organized during the semester.

- Expert Session on "Responsive Website Design using Bootstrap, PHP Mysql" was conducted on 05-10-2017,by Mr. Krunal Panchal, Mr. Sagar Patel, Groovy The web firm, 414-415, Center Square, Santram Road, Nadiad, Gujarat 387001
- Workshop on "Communication Skills and Personality Development" was conducted on 28-07-2017 to 29-07-2017 by Mr. Harshit Mantri, Owner, Sumeru Academy Nadiad.
- Workshop on "Company Etiquette" was conducted on 04-08-2017 by Mr. Suchit Patel, HR Helios Solu., Baroda
- Expert session on "Career Counselling" was conducted on 04-09-2017 by Mr. Divyang Purohit, TPO, CHARUSAT.

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Annexure II

BOS meeting minutes

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Annexure-II
Minutes

Fourteenth joint meeting of the Board of Studies and Faculty Board for Faculty of Computer Science and Applications at CHARUSAT.

Date: 12th August, 2017

Time: 10:00 a. m.

Venue: Board Room, CMPICA, CHARUSAT Campus, Changa

The Fourteenth joint meeting of Board of Studies and Faculty board for Faculty of Computer science and Applications, CHARUSAT was held on 12th August, 2017 at 10:00 a.m. at Board room, Smt.Chandaben Mohanbhai Patel Institute of Computer Applications, CHARUSAT, Changa.

Following members were present at the meeting:

1. Dr. Dharmendra Patel,Associate Professor,CMPICA,Changa, Chairman BOS, Member FB
2. Dr. Atul Patel, Principal CMPICA,Changa, Chairman FB, Member BOS
3. Dr. Darshan Chokshi, Professor, G.H.Patel, SP University,V.V.Nagar, Member FB
4. Dr. Paresh Virparia, H.O.D, G.H.Patel, SP University,V.V.Nagar, Member FB
5. Mr. Kishore Tarachandani,CEO Dots and Coms,Baroda, Member FB
6. Mr.Nishant Joshi,Senior System Analyst,Cybage Software Pvt.Ltd., Gandhiagar (Alumni)(Invitee)
7. Dr. Nirali Honest,Assistant Professor,CMPICA,Changa, Member BOS
8. Dr. Jaimin Undavia,Assistant Professor,CMPICA,Changa, Member FB
9. Dr. Sanskruti Patel,Assistant Professor,CMPICA,Changa, (Invitee)
10. Dr. Chirag Patel,Assistant Professor,CMPICA,Changa, Member BOS
11. Mr. Kanubhai Patel, Assistant Professor,CMPICA,Changa, (Invitee)
12. Dr. Pritpal Singh,Assistant Professor,CMPICA,Changa, (Invitee)

Following members could not attend the meeting due to their other preoccupations:
1. Dr. Mukesh Patel, Member FB and BOS
2. Mr. Pravin Jain, Member BOS, Director Technical, Zensoft Technologies, Vadodara
3. Mr. Rahul Sanghvi, Member FB, CEO, Dexter Consultancy, Ahmedabad
4. Mr. Ashok Patel,Member BOS, Advisor CHARUSAT

Initiation:-

The commencement of the meeting was made by Chairman of BOS by welcoming all the members and expressing gratitude for sparing their valuable time, afterwards a briefing on the agenda of the meeting was discussed.

Agenda, Proceedings & Resolutions:-

Item 14.1: To discuss and approve minutes of 13th joint meeting of BOS and FB.

Proceedings: Chairman of BOS has given brief about 13th joint meeting of BOS and FB to all members and invitees and informed them about the confirmation of the minutes.

Certified By:

Resolutions 14.1

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- All members of BOS and FB approved the minutes of 13th joint BOS and FB meeting.

Item 14.2: To discuss and approve detail syllabi of third year courses of BCA programme.

Proceedings: Chairman of BOS explained the content of each course.

The course wise suggestions given by members and invitees are enlisted in Table 1.

Table 1: Suggestions received from Board Members/Invitees for BCA Semester V and VI courses

Course Code	Suggestions
CA 309: Advanced Computer Network	• Add the concept of static vs dynamic routing algorithms. Focus on dynamic algorithms like link state, distance vector algorithm, etc. Basically on broad categories of dynamic algorithms
CA 311: Multimedia	• In unit V add animation using CSS3 and CSS3 frameworks instead of using Adobe Flash.
CA 317: Cryptography and Network Security	• Add the concept of Digital Signature and concept of Firewall.
CA 320: Basics of Mobile Applications	• Add the introduction to Hybrid mobile application frameworks like Phonegap, Ionic , etc.
CA 321: Computer Graphics – II	• Add the Difference between Raster graphics and Vector graphics, in terms of size, and how it can be edited using Photoshop for raster image and Illustrator for vector image.

Resolutions 14.2

- Passed the resolution to add concept of static vs dynamic routing algorithms, basically add the topic of dynamic algorithms.
- Passed the resolution to add animation using CSS3 and CSS3 frameworks in unit V.
- Passed the resolution to add the concept of Digital Signature and concept of Firewall.
- Passed the resolution to add the introduction to Hybrid mobile application frameworks.
- Passed the resolution to add the concept of Raster and Vector graphics.

Note: - Annexure-III is attached for detail syllabi of third year courses of BCA programme.

Item 14.3: To discuss and approve detail syllabi of second year courses of B.Sc.(IT) programme.

Proceedings: : Chairman of BOS explained the content of each course.

The course wise suggestions given by members and invitees are enlisted in Table 2.

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Table 2: Suggestions received from Board Members/Invitees for B.Sc.(IT) Semester III and IV courses

Course Code	Suggestions
CA 501: Programming the Internet	• Change the content in a unit – VI replace dreamviewer with any other open source editors, (for example sublime text). Add the concept of web development toolbar.
CA 502 : Fundamentals of Computer networks	• Change the title of unit IV, to the Data Link Layer instead of Issues in Data Link Layer, change the title of unit V to Network Layer Design instead of Issues in Network Layer Design. In unit V, remove the content Optimality principle and shortest path routing.
CA 511: Foundation of Data Science	• Add the introduction to data in terms of an image instead of data in terms of digits. (An emerging area in terms of searching and managing data), introduce libraries to handle real time data, like d3.js, or r-library.

Resolutions 14.3

- Passed the resolution to change the content in a unit – VI replace dreamviewer with any other open source editors.
- Passed the resolution to change the title of unit IV and unit V and the content Optimality principle and shortest path routing.
- Passed the resolution to add the introduction to data in terms of an image instead of data in terms of digits.

Note: - Annexure-IV is attached for detail syllabi of second year B.Sc.(IT) courses.

<u>Item 14.4:</u> To discuss and approve the feedback given by faculty members over previous semester courses of BCA programme.

Proceedings: Chairman of BOS explained the content of each course.

The course wise suggestions given by members and invitees are enlisted in Table 1.

Table 3: Faculty feedback on courses of BCA programme and related suggestions

Course Code	Feedback From Faculty Member	Suggestions by Members and Invitees
CA 111 : Fundamental Concepts of Programming Language	• Unit V is very lengthy to extra hours should be added.	• As it is practical course, faculty can take more hours during practical session.Faculty can demonstrate program during lab hours.
CA115 : Management Information Systems	• As students have no background of any information system and commercial software used in the market, it is difficult for them to relate the	• Change the content according to the feedback.

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	theoretical aspects discussed regarding Knowledge Management System and Executive Support System. These two units can be combined to give introductory concepts of both and more stress can be given to transaction processing systems and management information systems, which can be found around them and they can relate better.	
CA116 : Numerical and Statistical Methods	• Unit V & VI need more hours and that can be adjusted with Unit-I and II	• Adjust hours according to faculty feedback
CA117 : Operating System Concepts	• Units- IV, V and VI are totally focusing on practical aspects which can be taught during practical sessions parallelly with demonstrations, so it is a scope to add more theoretical concepts. • The unit - III should be allotted more time as it covers scheduling algorithms.	• Add memory management and I/O management in Syllabus
CA 118 : Advanced Programming	• Unit IV is very short, so some more content can be added. • The sequence of Unit-V and VI needs to be changed	• Add other preprocessor directives such as ,#ifdef,#ifndef,#if,#else,#elif,#endif • Change the sequence of units V and VI
CA 119 : Database Fundamentals	• Unit-II is very short. It doesn't require 08 Hours. • If possible add Generalization and Specialization concept in Unit-II.	• Add the suggested topics

Resolutions 14.4

- Passed the resolution to apply the suggested changes in the courses of the BCA programme.

Note: - Annexure-V is attached for revised syllabus of courses of BCA based on faculty feedback.

Item 14.5 : To inform about result analysis of summer examination of academic year 2016-17

Proceedings: The chairman of BOS discussed the result of summer examination held during the academic year 2016-2017.

Resolutions 14.5

- All BOS and FB members are made aware about results of summer examination.

  Note: - Annexure-VI is attached for Result Analysis of the academic year 2016-2017 summer examination

Item 14.6: To discuss the patterns of University Examination Papers

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Proceedings: The chairman of BOS has explained the format and content of university papers, and asked for feedback for patterns of questions in university examination.

The suggestion is to give more weight age on comprehensive questions and some ideal questions that reflect the important aspects of a course should always be included in the question paper.

Resolutions 14.6

- Passed the resolution to ask faculty members to prepare question paper with suggested guidance.

Item 14.7: To Approve panel of examiners for University Examination
Proceedings: The chairman of BOS asked members and invitees for the suggestions for panel of examiners in university examination.

Resolutions 14.7

- Approved the panel of examiners for university examination.

Note: - Annexure-VII is attached for panel of examiners.

Item 14.8: To approve the research scholar synopsis

Proceedings : The chairman of BOS circulated the synopsis of research scholar and asked for any suggestions, and softcopy of the synopsis will be circulated to all the members and the members have to suggest any changes (if applicable) within 10 days from the receipt of mail.

Resolutions13.10

- The synopsis was approved.

Note: -Annexure-VIII is attached for the information about research scholar.

Other Item:-

Since, there was no other item to be discussed, the meeting ended with vote of thanks to the Chair.

SMT. CHANDABEN MOHANBHAI PATEL INSTITUTE OF COMPUTER APPLICATIONS
CMPICA
CHANGA

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ANNEXURE-V

MODIFIED SYLLABUS OF BCA BASED ON FACULTY FEEDBACK

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CA115:Management Information System
(100 Marks)

Contact Hours: 03

Objective: The objective of this course is to provide significance of information systems in management of organizations and various business processes effectively and efficiently.

Pre-requisite: None.

Methodology & Pedagogy: During the Theory sessions, illustrations of working real time information system will be demonstrated. Industrial visits will be arranged in order to demonstrate actual functioning of such systems. Students will be required to carry out a case study of such system.

Learning Outcomes: Student will learn to analyze and facilitate strategic and operational activities in the organization. The student shall study how organizations evaluate, design, implement, manage, and utilize systems to generate information to improve efficiency and effectiveness of decision making.

Outline of the Course:

Unit No.	Title of the Unit	Minimum Number of Hours
		Theory
1.	Introduction to Information System	05
2.	Transaction Processing Systems	07
3.	Management Information System	06
4.	Decision Support System	06
5.	Knowledge Management & Executive Support Systems	07
6.	Introduction To ERP and Technology	05

Total Hours (Theory): 36

Total: 36

Detailed Syllabus:

Unit - I: Introduction to Information System Hours:05

Data & Information, What is a system, Types of Systems, Types of information, Quality of Information, What is an Information System, Functions of Information System,

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CA 116: Numerical and Statistical Methods (100 Marks)

Contact Hours: 03

Objective: To acquaint the students with the Numerical and Statistical techniques required for solving certain Real world problems. At the end of the course the students should be able to tackle moderate size real world problems using appropriate techniques.

Pre-requisite: Foundation of Mathematics

Methodology & Pedagogy: During Theory lectures illustrations of certain real world problems requiring Numerical computations will be explained. Numerical and Statistical methods will be introduced as tools for solving such problems also be emphasized

Outline of the Course:

Unit No.	Title of the Unit	Minimum Number of Hours
		Theory
1	Basic Statistics Methods	06
2	Basic of Probability	05
3	Probability Distribution	05
4	Solutions of Non-linear Equation	06
5	Solution of Simultaneous Linear Equation	07
6	Interpolation and Numerical Integration	07

Total Hours (Theory): 36

Total: 36

Detailed Syllabus:

Unit-I: Basic Statistics Methods Hours: 06

Basic vocabulary of statistics. Measure of central tendency: Mean Median and Mode for group and ungroup data, Measure of dispersion: Range, Mean Deviation, Variance and Standard Deviation for group and ungroup data.

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CA 117: Operating Systems Concepts
(200 Marks)

Contact Hours: 07

Objective: The objective of this course is to provide working knowledge of operating systems which is crucial in effective operation and use of one's computer system. Also, to make students understand multi-user concepts, use of system editors, basic UNIX commands, and develop their ability to write script files.

Pre-requisite: None.

Methodology & Pedagogy: In order to achieve the course objectives, students will first be introduced to the basic operating system concepts and basic functions. During practical sessions, the students will be required to use DOS and UNIX commands to understand the system properties and to write script files.

Learning Outcomes: Upon Successful completion of the course, student will learn basic fundamental concepts of operating system and basic DOS and UNIX commands. Students also get familiar with a various operating Systems and its usage, Students will learn How to create and Write Batch Files and Shell script using editors.

Outline of the Course:

Unit No.	Title of the Unit	Minimum Number of Hours	
		Theory	Practical
1.	Basic Concepts and Usage of OS	06	36
2.	Process Management	08	
3.	CPU Scheduling	08	
4.	Memory management and I/O Management	10	
5.	Operating System Commands, Editors and Filters	08	
6.	Shell Programming	08	

Total Hours (Theory): 48

Total Hours (Lab): 36
Total: 84

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CA 118: Advanced Programming
(200 Marks)

Contact Hours: 07

Objective: The main aim of the course is to enhance the knowledge of basic C programming concepts with the advanced programming concepts like pointers, structures, files and so on to the students. With this course, students would be able to understand the use of pointers in C programming, also they will be able to create their own user-defined data types. Developing applications in C that performs input/output on files.To understand the implementations of basic linear data structures like linked list, stack, queue.

Pre-requisite: Fundamental Concepts Of Programming Language

Methodology &Pedagogy: During theory lectures the emphasis will be given on theoretical concepts of structure, pointers and file management. During practical sessions the concepts learned in theory lectures will be implemented in depth by considering real life systems by using file management.

Learning Outcomes: At the end of the course a student will be able to know many of the useful and advanced features of the C language, and be able to produce a program using professional programming techniques.
Students would be able to understand and apply the pointers, memory allocation techniques and use of files for dealing with variety of problems. Students would also be able to implement various data structures.

Outline of the Course:

Unit No.	Title of the Unit	Minimum Number of Hours	
		Theory	Practical
1	Pointers	10	36
2	Structure, Union, and Enumerated Data Types	10	
3	Files	8	
4	Preprocessor Directives	6	
5	Stacks and Queues	6	
6	Linked Lists	8	

Total Hours (Theory): 48

Total Hours (Lab): 36

Total: 84

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CA119: Database Fundamentals
(200 Marks)

Contact Hours: 07

Objective: The main aim of the course is to introduce database fundamentals to the students. With this course we shall demonstrate database development activities and prepare students for proficiency in developing database for commercial applications.

Pre-requisite: Basic knowledge of working with computer.

Methodology & Pedagogy: During the theory lectures, concepts for data storage will be discussed. Also DBMS and RDBMS concepts will be discussed in depth. The database applications used in the real world will be discussed with necessary examples. During the laboratory hours students will implement the concepts that are discussed during lecture.

Learning Outcomes: At the end of the course, the students will be able to understand the fundamentals of database development and management. Upon successful completion of the course, the students will also be able to design and create database, define queries for database management and data retrieval. Students shall be able to learn and apply the basic database concepts in real world applications.

Outline of the Course:

Unit No.	Title of the Unit	Minimum Number of Hours	
		Theory	Practical
1	Introduction to Database System	04	36
2	Data Modeling using Entity Relationship Model	08	
3	Relational Data Modeling	08	
4	Database Design Methodology	08	
5	Schema Definition, Constraints, Queries	10	
6	Advanced Query Processing	10	

Total Hours (Theory): 48

Total Hours (Lab): 36

Total: 84

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Annexure III

Teaching and Learning Scheme

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Teaching and Examination Scheme (MCA Lateral Programme)
Effective from Year 2017-18

Semester-I

Course Code	Course Title	Teaching Scheme				Examination Scheme						
		Contact Hours			Credit	Theory			Practical			Total
						Internal		External	Internal		External	
		Theory	Pract	Total		Case Study	Tests		Term work	Tests		
CA826-CA829	Elective-I	3	-	3	3	10	20	70	-	-	-	100
CA830	Object Oriented Software Engineering	-	2	2	2	-	-	-	15	15	70	100
CA831.01	Enterprise Computing	3	3	6	6	10	20	70	15	15	70	200
CA832	Visual Programming	3	3	6	6	10	20	70	15	15	70	200
CA833	Web Designing concepts	-	3	3	3	-	-	-	15	15	70	100
CA834.01	Advanced Database Technologies	3	3	6	6	10	20	70	15	15	70	200
HS703.01 C	Languages (French)	-	2	2	2	-		-	30		70	100
HS701 C	Advance Critical Thinking and Logic	2	-	2	2	30		70	-	-	-	100
HS704 C	Academic Speaking	-	2	2	2	-		-	30		70	100
	University Elective-I **	2	-	2	2	30		70				100
		16#	14#	30#	30	600			500			1100

Marks and credits will vary based on the selection of the Humanities courses by the students, however total credits and marks will be 30 and 1100 respectively.

** Student will take any university elective offered by different institutions of university. CMPICA has decided to offer **CA730 Internet and Web Designing** course for others.

Elective-I

1. CA826- Statistical Methods and Optimization Techniques
2. CA827-Advanced Operating Systems
3. CA828-Cyber Security Fundamentals
4. CA829-Basics of Cloud Computing

University Elective-I

No	Course Code	Course Name	Department/Faculty
1	MA771	Reliability and Risk Analysis	Mathematics
2	EE 781	Optimization Techniques	Engineering
3	ME781	Occupational Health and Safety	Engineering
4	CE 772	Research Methodology	Engineering
5	PT795	Health & Physical Activity	Physiotherapy
6	NR 751	Women's Health	Nursing
7	RD701	Introduction to Analytical Techniques	Applied Science
8	RD702	Introduction to Nanoscience& Technology	Applied Science
9	MB650	Creative Leadership	Faculty of Management Studies
10	PH825	Community Pharmacy Ownership	Pharmacy

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Teaching and Examination Scheme (MCA Lateral Programme)
Effective from Year 2017-18

Semester-II

Course Code	Course Title	Teaching Scheme				Examination Scheme						
		Contact Hours			Credit	Theory			Practical			Total
		Theory	Pract	Total		Internal		External	Internal		External	
						Case Study	Tests		Term work	Tests		
CA835-838	Elective-II	4	3	7	7	10	20	70	15	15	70	200
CA839.01	Open Source Technology	3	3	6	6	10	20	70	15	15	70	200
CA840.01	Mobile Application Technology	3	3	6	6	10	20	70	15	15	70	200
CA841	Software Quality Assurance	4	3	7	7	10	20	70	15	15	70	200
HS705 C	Academic Writing	-	2	2	2	-	-	-	30		70	100
	University Elective-II **	2	-	2	2	30		70				100
		16	14	30	30	500			500			1000

** Student will take any university elective offered by different institutions of university. CMPICA has decided to offer **Mobile Application Development** course for others.

Elective-II

1. CA835-Windows Communication Foundation Framework
2. CA836-Frameworks and Applications
3. CA837-Procurement, Implementation and Management of IT Systems
4. CA838-Advanced Network Management and Security

University Elective-II

No	Course Code	Course Name	Department/Faculty
1	EE782	Energy Audit and Management	Engineering
2	CE771	Project Management	Engineering
3	IT771	Cyber Security and Laws	Engineering
4	PT796	Fitness & Nutrition	Physiotherapy
5	NR 752	Epidemiology and Community Health	Nursing
6	OC733	Introduction to Polymer Science	Applied Science
7	MB651	Software based Statistical Analysis	Management
8	PH826	Intellectual Property Rights	Pharmacy
9	MA772	Design of Experiments	Mathematics

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Teaching and Examination Scheme (MCA Lateral Programme)
Effective from Year 2017-18

Semester-III

Course Code	Course Title	Teaching Scheme				Examination Scheme						
		Contact Hours			Credit	Theory			Practical			Total
		Theory	Pract	Total		Internal		External	Internal		External	
						Case Study	Tests		Term work	Tests		
CA918-921	Elective-III	4	3	7	7	10	20	70	15	15	70	200
CA922	Open Source Frameworks	4	3	7	7	10	20	70	15	15	70	200
CA923	Data Mining and Analytics	4	3	7	7	10	20	70	15	15	70	200
CA924	Mini Project	-	6	6	6	-	-	-	30		70	100
		12	15	27	27	300			400			700

Elective-III

1. CA918- Collaboration Technologies (ONLY for students who have completed Windows Communication Foundation Framework offered in Elective Set I)
2. CA919-Web Technologies (ONLY for students who have completed Frameworks and Applications offered in Elective Set I)
3. CA920-Advance Management Information System
4. CA921-Intrusion Detection and Computer Forensics

Teaching and Examination Scheme (MCA Lateral Programme)
Effective from Year 2017-18

Semester-IV

Course Code	Course Title	Teaching Scheme				Internal	End Semester Examination		Total
		Contact Hours			Credit	Continuous Evaluation	Report	Presentation & Viva	
		Inst.	Industry	Total					
CA925	Project Work	2	28	30	30	200	200	400	800

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TEACHING SCHEME
FOR

BCA PROGRAMME
(1ST, 2ND& 3RDYEAR)

EFFECTIVE FROM
ACADEMIC YEAR 2016-17

Certified By:

REGISTRAR
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Teaching and Examination Scheme (BCA Programme)
Effective from Year 2016-17

Semester-V

Course Code	Course Title	Teaching Scheme				Examination Scheme						
		Contact Hours			Credit	Theory			Practical			Total
						Internal		External	Internal		External	
		Theory	Pract	Total		Case Study	Tests		Term work	Tests		
CA308–313	Elective-VI	4	3	7	7	10	20	70	15	15	70	200
CA314	Object Oriented Programming Through JAVA	4	3	7	7	10	20	70	15	15	70	200
CA315	Application development using .NET Framework	4	3	7	7	10	20	70	15	15	70	200
CA316	Software Engineering	-	3	3	3	-	-	-	15	15	70	100
HS124 C	Professional Communication	-	2	2	2				30		70	100
		12	14	26	26	300			500			800

Elective-VI

1. CA308 –Introduction to Open Source Technology
2. CA309 –Advanced Computer Networks
3. CA310 –Operation Research
4. CA311–Embedded Programming
5. CA312-Multi Media
6. CA313-Ruby on Rail Architecture

Semester-VI

Course Code	Course Title	Teaching Scheme				Examination Scheme						
		Contact Hours			Credit	Theory			Practical			Total
						Internal		External	Internal		External	
		Theory	Pract	Total		Case Study	Tests		Term work	Tests		
CA317-319	Elective-VII	4	-	4	4	10	20	70	-	-	-	100
CA320 – 322	Elective-VIII	-	3	3	3	-	-	-	15	15	70	100
CA323	Minor Project	-	15	15	15	-	-	-	100		300	400
HS125 C	Society, Governance and International Studies	-	2	2	2	-	-	-	30		70	100
		04	20	24	24	100			600			700

Elective- VII

1. CA317 –Artificial Intelligence
2. CA318–Cryptography and Network Security
3. CA319–Data Compression Techniques

Elective- VIII

1. CA320–Software Project Management
2. CA321–Basics of Mobile Applications
3. CA322–Computer Graphics-II

Certified By:

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