Alumni Feedback Analysis on Curriculum for Academic Year 2015-2016

Alumni Detail

Sr. No.	Name	Name of Organization	Designation	Contact No
1.	Kavin Shah	Intech, Gandhinagar	Tech Lead	9725082555
2.	Vijay Sharma	Contis, Ahmedabad	Team Lead	9428121592
3.	Harsh Shah	Dev Information Technology Limited	Sr. Android Developer	9924237090
4.	Vyom Amin	Dhyey Technologies Pvt. Ltd.	Microsoft Dynamics Consultant	9998823668
5.	Vimal Patel	Infostretch	Senior Engineering Manager	9979874557

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

- Application development using .NET Framework
- Mobile Application development is very useful.
- System analysis and design is very important
- Mathematical and Statistical courses are very good
- Advance java is very helpful.
- Every course is covered in good depth.
- Web Designing is important.
- Database course is very useful.

According to Alumni below listed subject need more focus:

- Core subjects
- Web XML
- Web Designing
- Java
- PHP
- CSS and Javascript
- Web Designing
- Networking
- Telecommunication networks should be covered before covering mobile application development.

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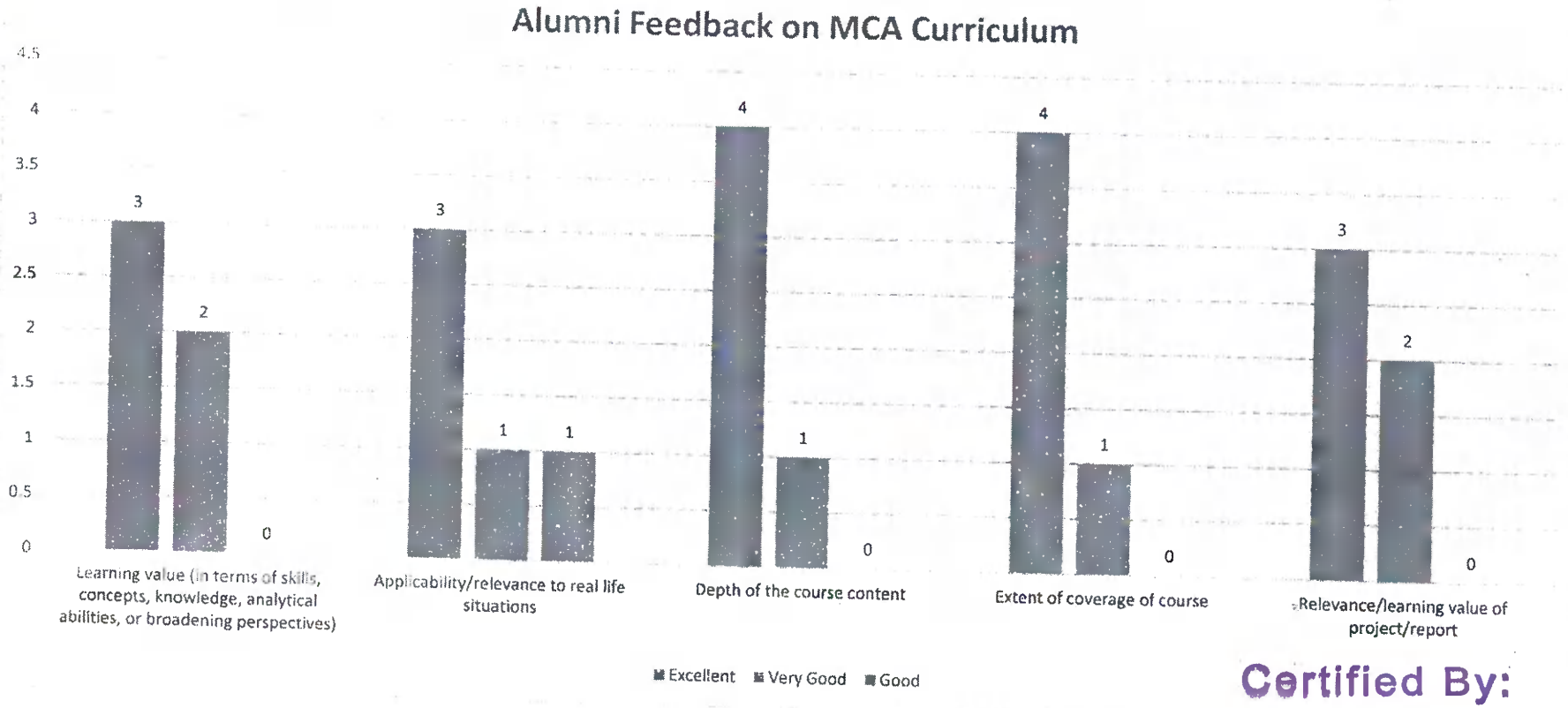
Programme Wise Feedback Analysis



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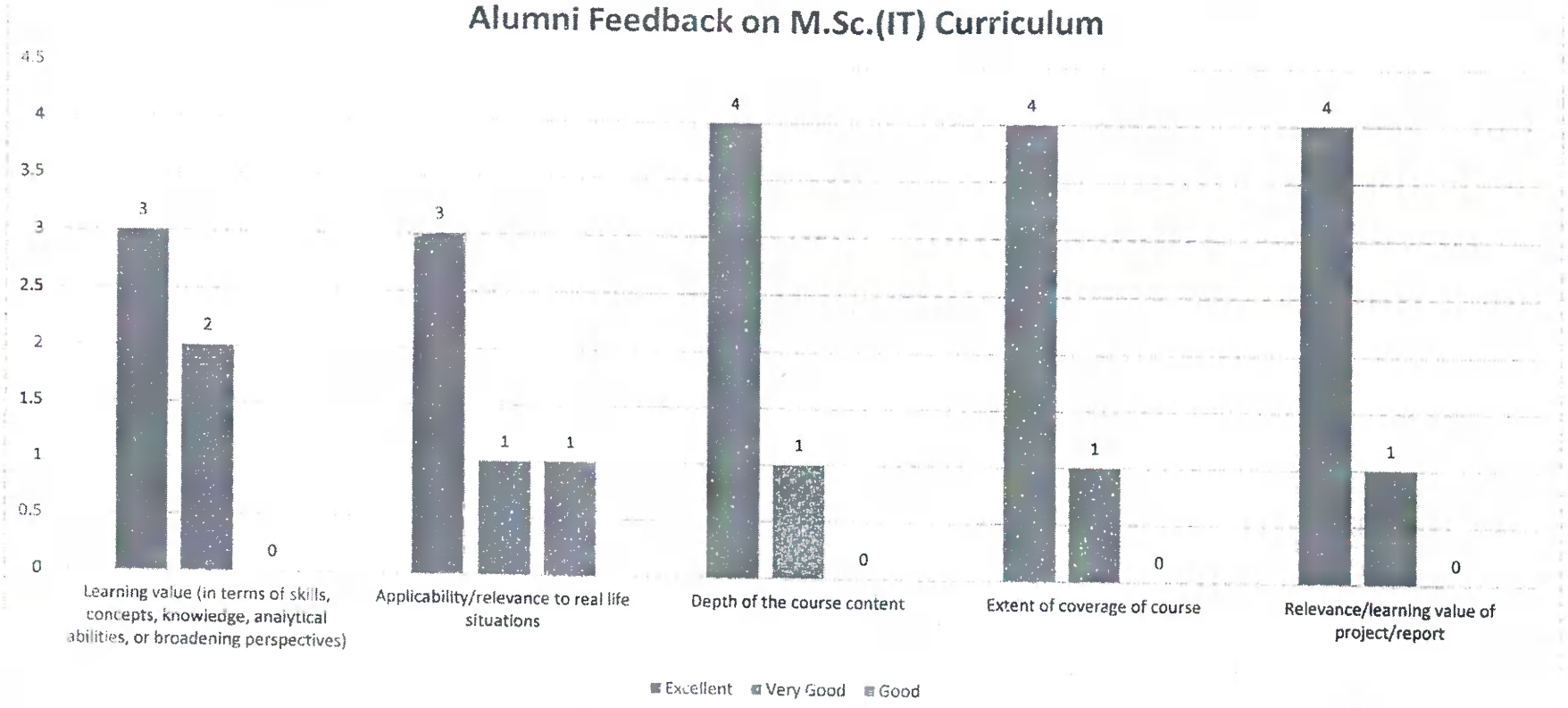

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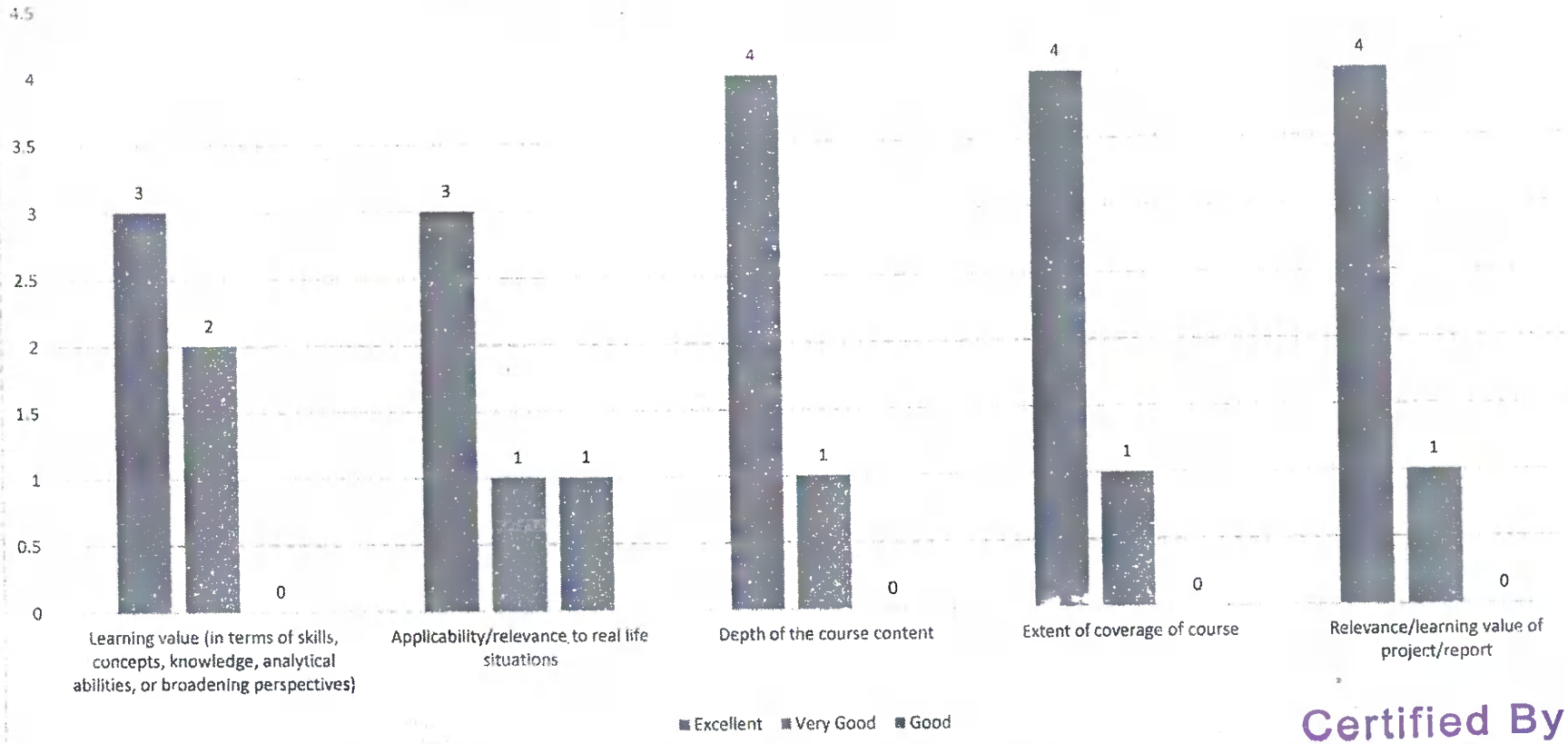
Alumni Feedback on MCA Lateral Curriculum



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Employers Feedback Analysis on Curriculum for Academic Year 2015-2016

Employers Detail

Sr. No.	Name	Name of Organization	Designation	Contact No
1.	Dhavat Shah	Dhavat Infotech	Director	9824646279
2.	Dhruvil Upadhyay	Loadstone Software Pvt. Ltd	Project Lead	9909518741
3.	Kishore Tarachandani	Dots N Coms	Director	9925008938
4.	Hanokh Macwan	Vrindi Software Pvt. Ltd	Head	9726003000
5.	Mihir Jagad	PMC	Software Engineer	9558734981

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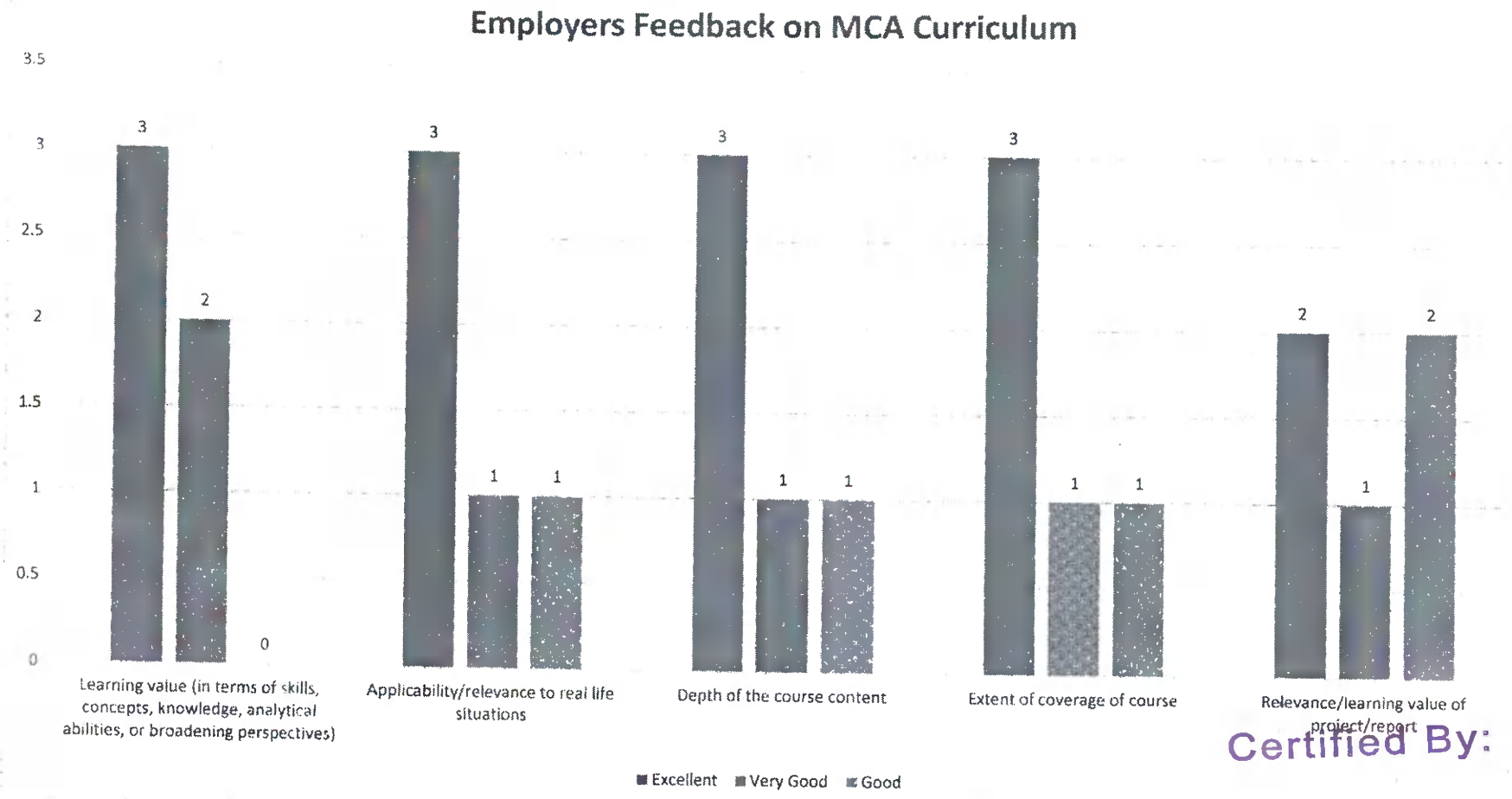

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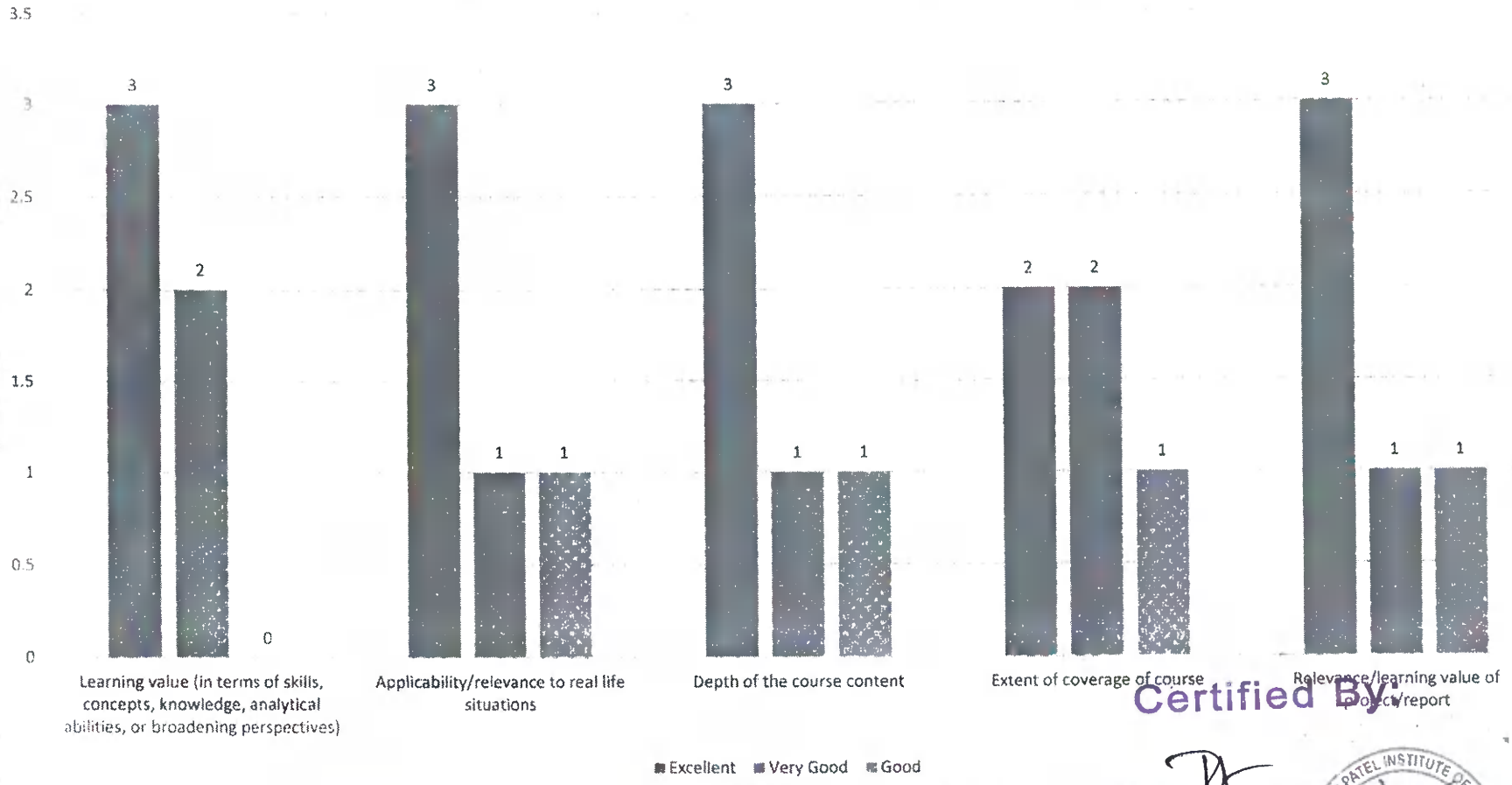
Employers Feedback on MCA Lateral Curriculum



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Academic Expert Feedback Analysis on Curriculum for Academic Year 2015-2016

Academic Expert Detail

Sr. No.	Name	Name of Organization	Designation	Contact No
1.	Bharat Patel	G.H.Patel,Anand	Assistant Professor	9825809282
2.	Vishal Rajput	Narmada College,Bharuch	Assistant Professor	9998607201
3.	Rajan Datt	Nirma University	Assistant Professor	9925826527
4.	Abhijitsinh Jadeja	LDRP,Gandhinagar	Assistant Professor	9824636362
5.	Chandni Shah	CSPIT,Changa	Assistant Professor	9824660719

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

- Multi paradigm Programming Language covered in detail.
- Data Structure and Algorithms
- Object Oriented Programming Using C++
- Database Fundamentals
- Introduction to computers covered in practical way

According to Expert below listed subject need more focus:

- Script writing should be promoted.
- Using UML to analyze and design in BCA syllabus
- Embedded systems programming should be covered in BCA syllabus
- Mobile application development should be introduced in BCA syllabus
- Database courses should be focusing more on practical aspects in Masters.

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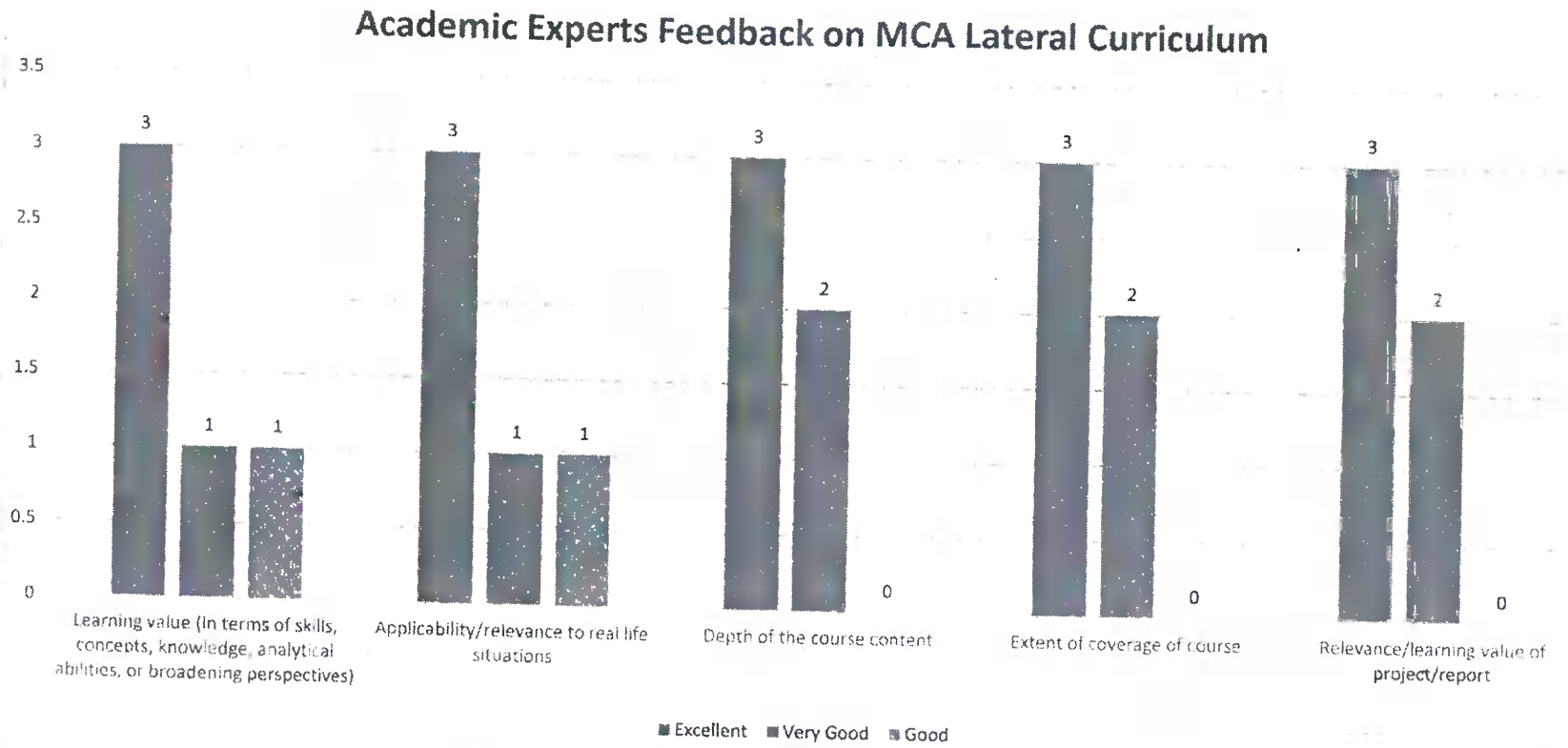
Programme Wise Feedback Analysis



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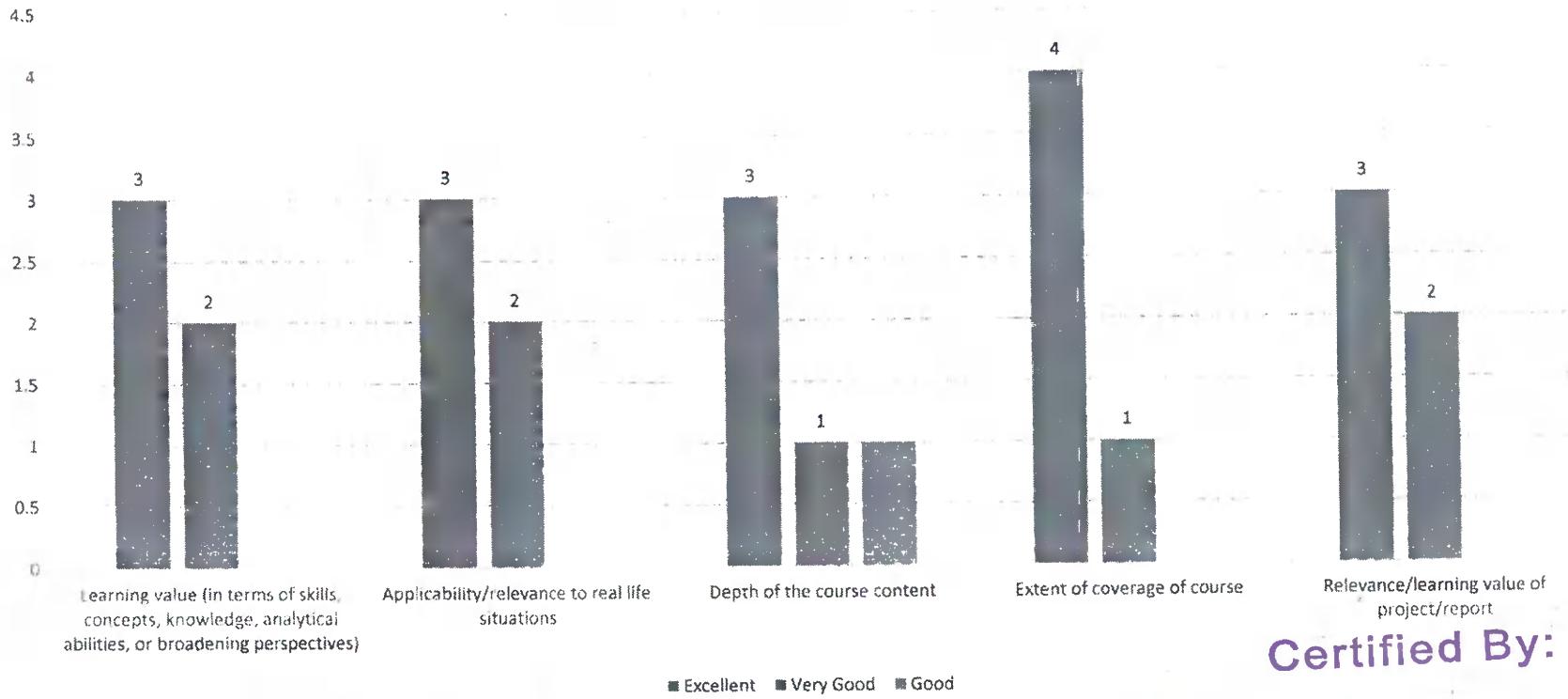
Academic Experts Feedback on M.Sc.(IT) Curriculum



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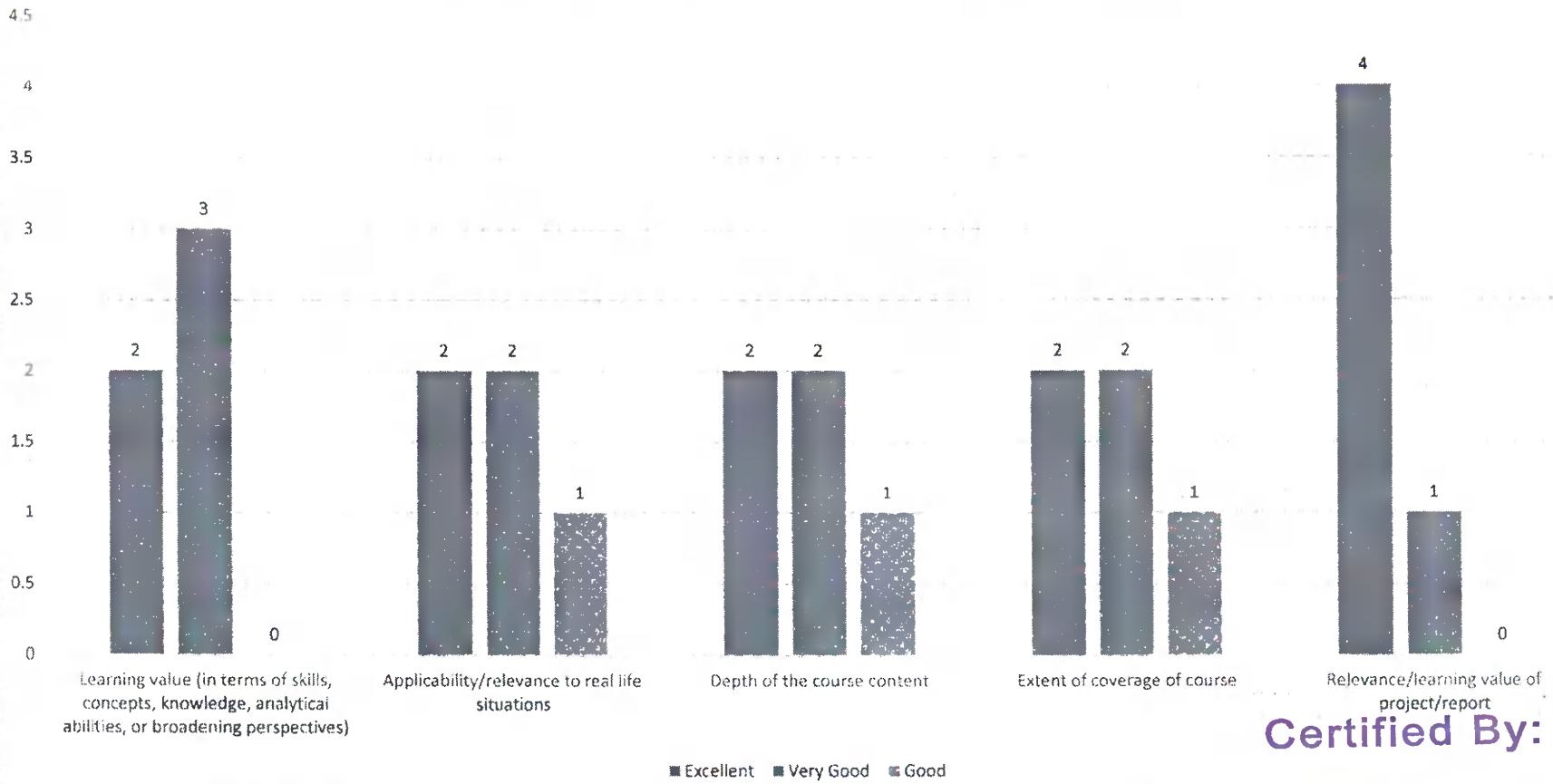
Academic Experts Feedback on BCA Curriculum



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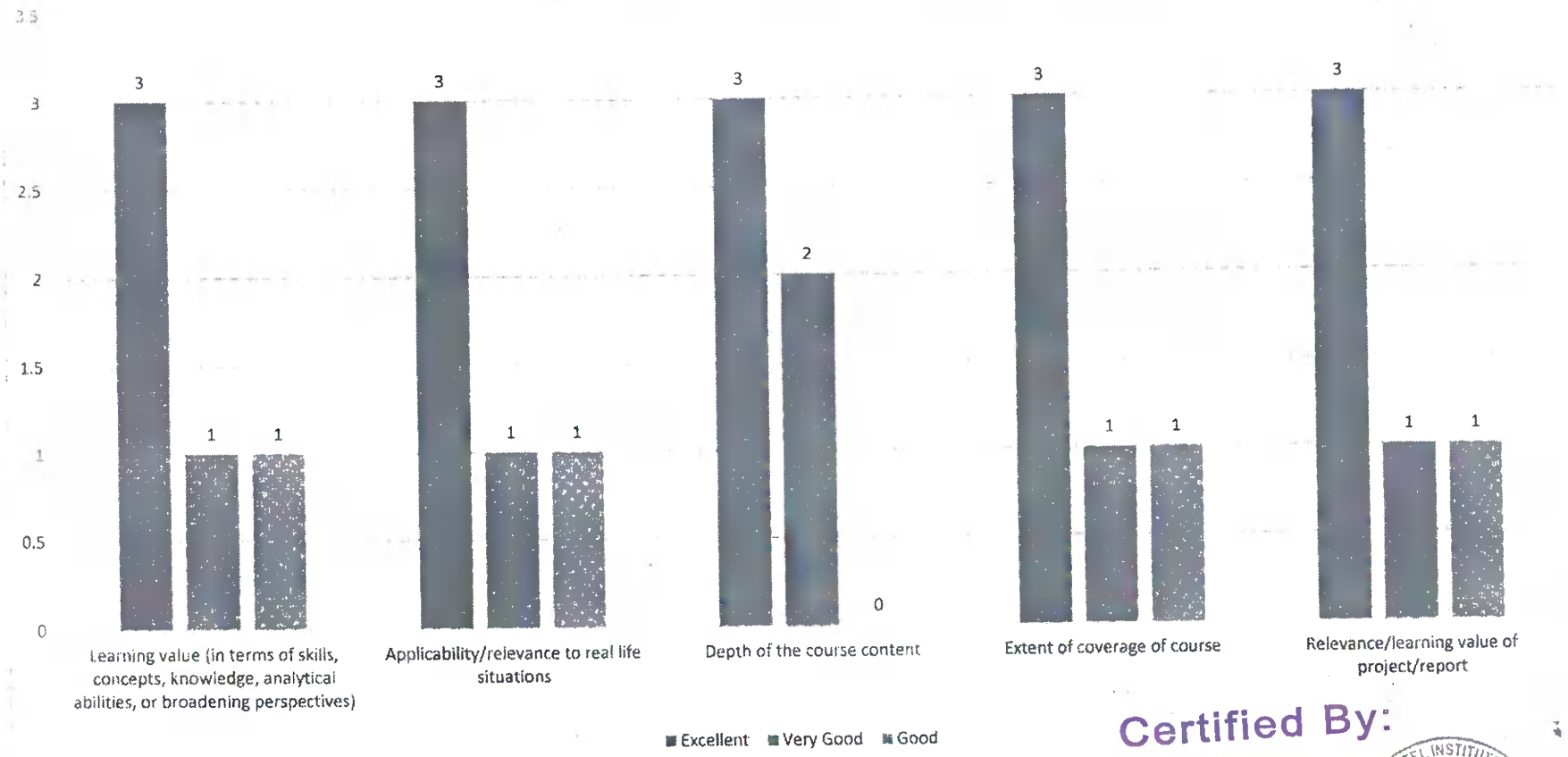
Academic Experts Feedback on MCA Curriculum



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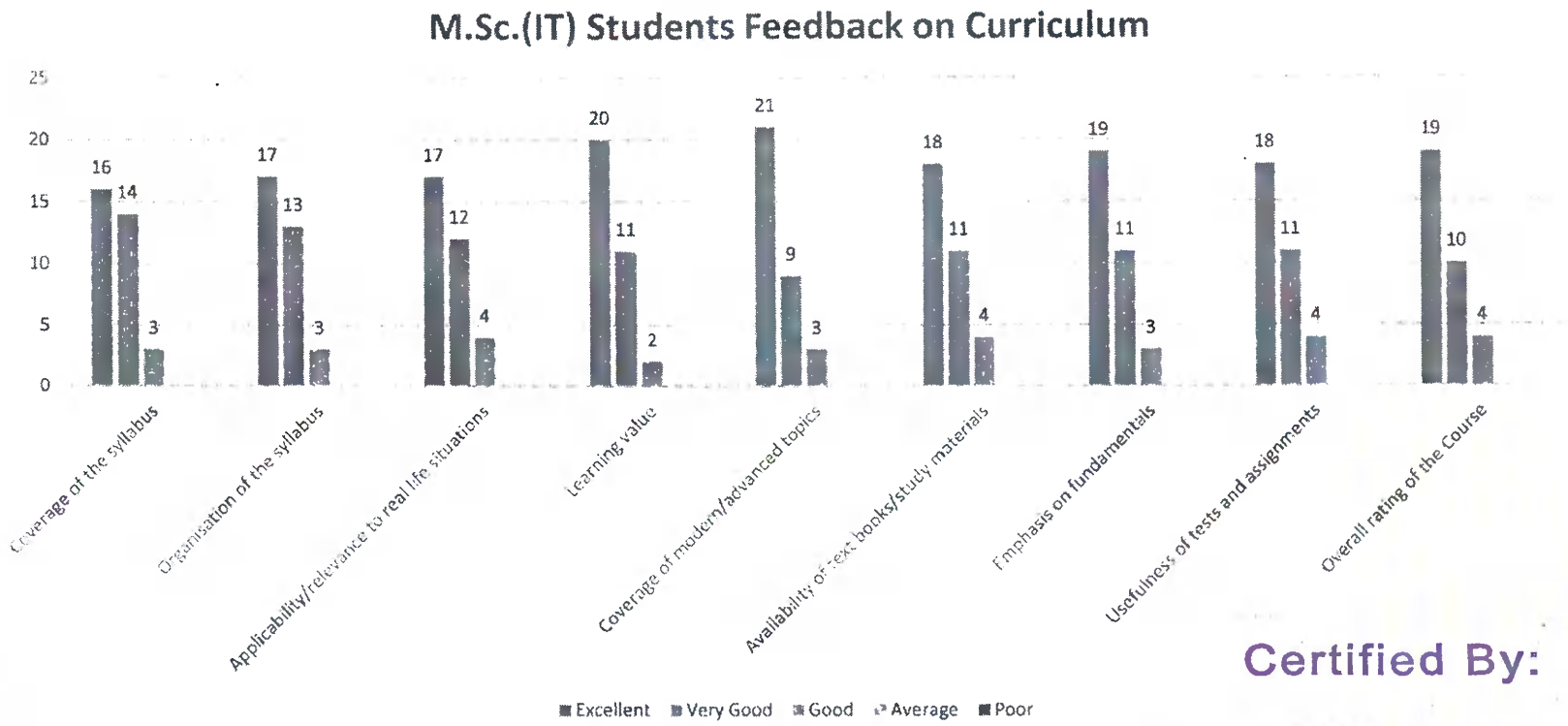
CMPICA
CHANGA

Student Feedback Analysis on Syllabus (April – 2016)

Programme Wise Feedback Analysis

M.Sc.(IT) (Batch 2014-2016)



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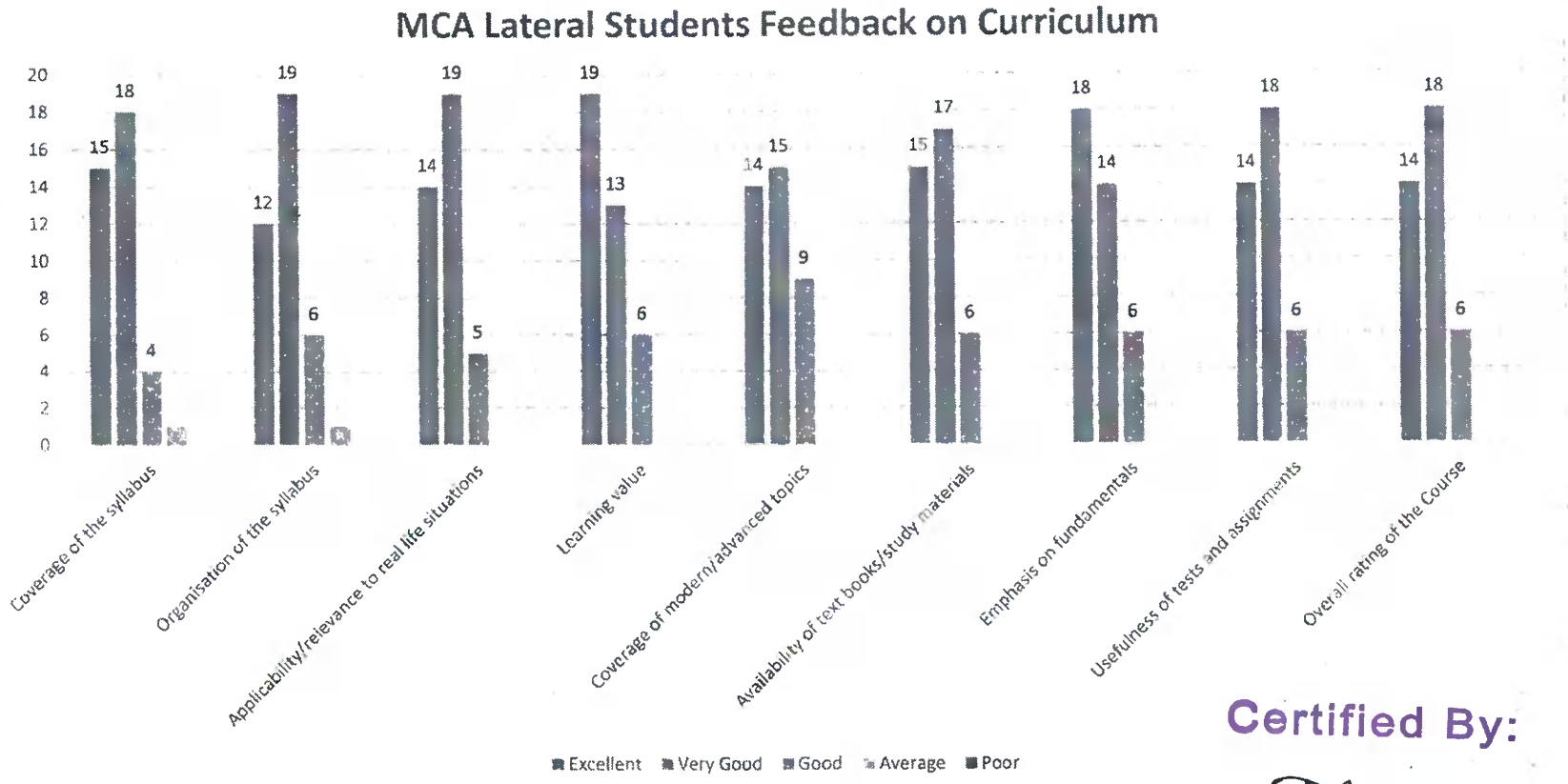
Student Feedback Analysis on Syllabus (April – 2016)

MCA Lateral (Batch 2014-2016)



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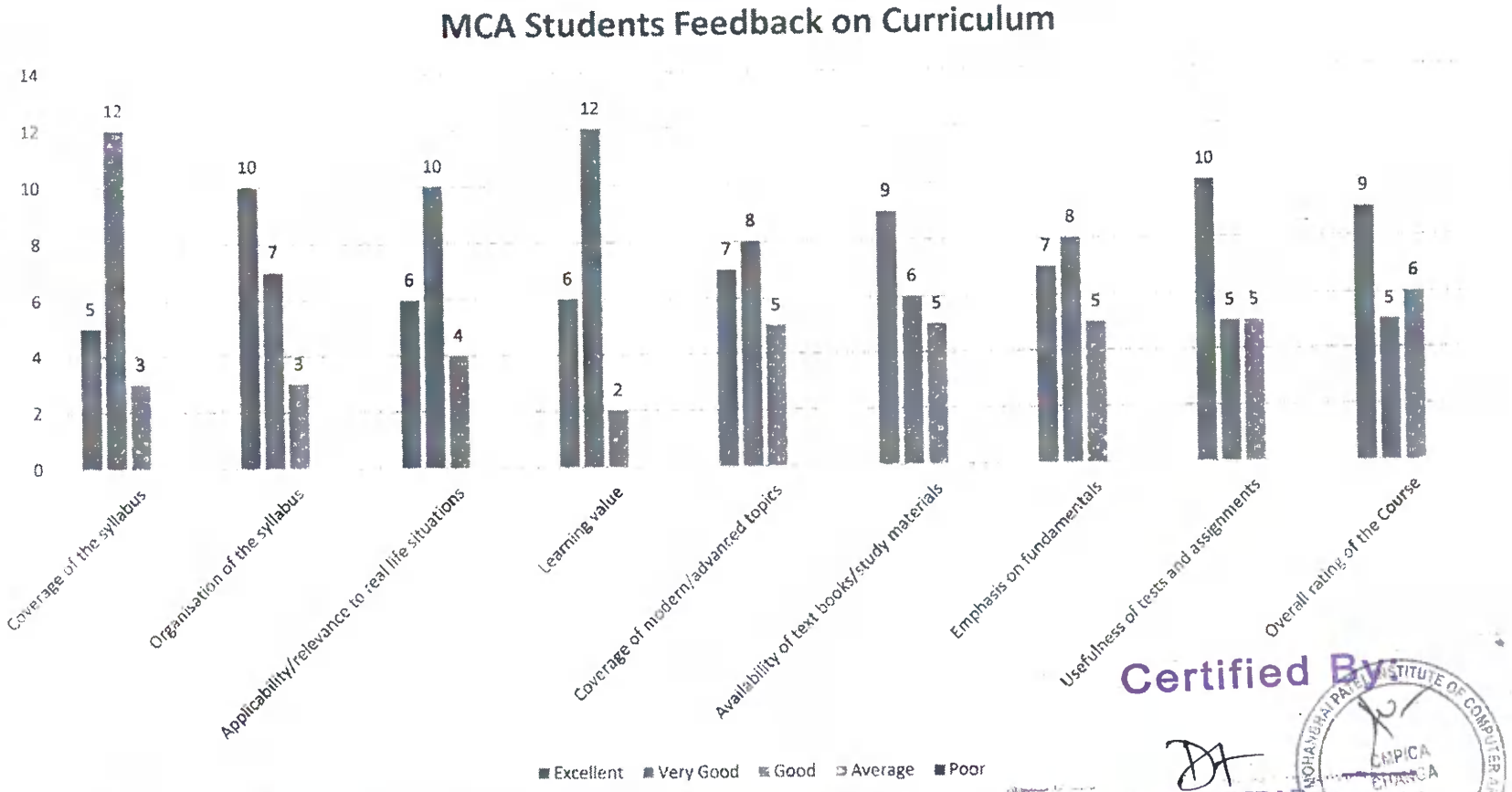
Student Feedback Analysis on Syllabus (April – 2016)

MCA(Batch 2013-2016)



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Analysis of Feedback on the syllabus for the academic year 2015-2016 given by Stakeholders

Sr. No.	Stakeholder	Feedback Regarding Curriculum	Action Taken
I	Employers	• Cover Cryptography topic in depth in accordance with Network Security. • Cover triggers in details in database courses.	The given suggestions are incorporated with the syllabus revision applicable from A.Y. 2015-2016 in the MCA programme for the course CA722 : Database Technologies CA729 : Operating System Concepts and Network Technology , refer Annexure I for BOS meeting minutes.
2	Academic Peers	• Use UML to perform analysis and designing in BCA curriculum. • Include Embedded Programming in BCA. • Include Mobile Application Development in BCA.	The given suggestion is incorporated with the new syllabus revision applicable from A.Y. 2016-2017 for the BCA programme, refer Annexure I for BOS meeting minutes.
3	Alumni	• Telecommunication networks should be covered before covering mobile application development.	The given suggestions are incorporated with the syllabus revision applicable from A.Y. 2015-2016 in MCA and MCAL programme for the course CA840 : Mobile Application Technology, refer Annexure I for BOS meeting minutes.
4	Final semester students	• Emphasize on the practical part of excel, word and powerpoint instead of theory.	The given suggestions are incorporated with the syllabus revision applicable from A.Y. 2015-2016 in the MCA programme for the course CA720 : Introduction to Computers , refer Annexure I for BOS meeting minutes.

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Analysis of Feedback on the syllabus for the academic year 2015-2016 given by Stakeholders

Sr. No.	Stakeholder	Feedback Regarding Curriculum	Action Taken
I	Employers	• Cover Cryptography topic in depth in accordance with Network Security. • Cover triggers in details in database courses.	The given suggestions are incorporated with the syllabus revision applicable from A.Y. 2015-2016 in the MCA programme for the course CA722 : Database Technologies CA729 : Operating System Concepts and Network Technology
2	Academic Peers	• Using UML to analyze and design in BCA • Include Embedded Programming in BCA. • Include Mobile Application Development in BCA.	The given suggestion is incorporated with the new syllabus revision applicable from A.Y. 2016-2017 for the BCA programme.
3	Alumni	• Telecommunication networks should be covered before covering mobile application development.	The given suggestions are incorporated with the syllabus revision applicable from A.Y. 2015-2016 in MCA and MCAL programme
4	Final semester students	• Emphasize on the practical part of excel, word and powerpoint instead of theory.	The given suggestions are incorporated with the syllabus revision applicable from A.Y. 2015-2016 in the MCA programme for the course CA720 : Introduction to Computers

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10th meeting
CBCS

Minutes

[redacted] joint meeting of the Board of Studies and Faculty Board for Faculty of Computer Science and Applications at CHARUSAT.

Date: [redacted]5

Time: 10:00 a. m.

Venue: Conference Room, CMPICA, CHARUSAT Campus, Changa

The Tenth joint meeting of Board of Studies and Faculty board for Faculty of Computer science and Applications, CHARUSAT was held on 22nd August, 2015 at 10:00 a.m. at Conference room, Smt.Chandaben Mohanbhai Patel Institute of Computer Applications,CHARUSAT,Changa.

Following members were present at the meeting:

1. Dr. Atul Patel, Principal CMPICA,Changa, Chairman FB, Member BOS
2. Dr. Mukesh Patel, Member FB and BOS
3. Dr. Paresh Virparia, H.O.D, G.H.Patel, SP University,V.V.Nagar, Member FB
4. Dr. Darshan Chokshi, Professor, G.H.Patel, SP University,V.V.Nagar, Member FB
5. Mr. Kishore Tarachandani,CEO Dots and Coms,Baroda, Member FB
6. Mr. Dharmendra Patel,Assistant Professor,CMPICA,Changa, Chairman BOS, Member FB
7. Mr. Chirag Patel,Assistant Professor,CMPICA,Changa, Member BOS
8. Mr. Jaimin Undavia,Assistant Professor,CMPICA,Changa, Member FB
9. Ms. Nirali Honest,Assistant Professor,CMPICA,Changa, Member BOS
10. Dr. Aneesh Chinubhai,CTO,PDPU,Gandhainagar,(Invitee)
11. Dr. Sanskruti Patel,Assistant Professor,CMPICA,Changa, (Invitee)
12. Mr. Kanu Patel,Assistant Professor,CMPICA,Changa, (Invitee)

Following members could not attend the meeting due to their other preoccupations:

1. Mr. Pravin Jain, Member BOS, Director Technical, Zensoft Technologies, Vadodara
2. Mr. Rahul Sanghvi, Member FB, CEO, Dexter Consultancy, Ahmedabad
3. 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 10.1: To Approve minutes of 9th joint meeting of BOS and FB.

Proceedings: Chairman of BOS has given brief about 9th joint meeting of BOS and FB to all members and invitees and informed all about the changes incorporated as part of feedback given by Faculty members for First Year Courses of MCA and MCA Lateral programme. Suggestions received from Board Members/Invitees were incorporated in MCA Dual degree syllabus.

Resolutions 10.1

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- All members of BOS and FB approved the minutes of 9th joint BOS and FB meeting.

Item 10.2: Discussion and approval of detailed syllabi of courses based on choice based credit grading system in MCA, MCA Lateral and M.Sc.(IT) programmes.

Proceedings: Chairman of BOS has explained the structure of the choice based credit grading system and explained the overview 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

Course Code	Suggestions
MS106/CA716: Fundamentals of Internet	• Unit III title need to be revised. (Explore/Exploit)
MS107/CA717: Fundamentals of Data Communication	• FDDI should be removed from Unit III.
MS311/CA826: Statistical Methods and Optimization Techniques	• Unit VI is very lengthy, hours for the unit needs to be increased. • Sequence of Unit II and III needs to be changed. • Overall syllabus content is lengthy so it should be reduced.
MS312/CA827: Advanced Operating Systems	• Include Real Time operating system concept in the syllabus.
MS313/CA828: Cyber Security Fundamentals	• Prerequisite needs to be corrected. (Basic knowledge of fundamental networking)

Resolutions 10.2

- Passed the resolution to revise the title of Unit III in MS106/CA716: Fundamentals of Internet.
- Passed the resolution to remove FDDI in MS107/CA717: Fundamentals of Data Communication
- Passed the resolution to revise the prerequisite, decrease the content, revise the number of hours for Unit VI and change the sequence of Unit II and III in MS311/ in CA826:Statistical Methods and Optimization Techniques.
- Passed the resolution to include the concept of Real time operating system in MS312/CA827: Advanced Operating Systems.
- Passed the resolution to revise the prerequisite in MS313/CA828: Cyber Security Fundamentals

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Note: - Annexure-I is attached for more detail syllabi of courses based on choice based credit grading system electives in M.C.A, M.C.A-Lateral and M.Sc.(IT) programmes.

Item 10.3: To discuss faculty feedback of syllabi of MCA Lateral second year courses and MCA-Dual first year courses.

Proceedings: The chairman of BOS explained the feedback given by faculties who took the course in MCA Dual Semester I and II and in MCA lateral Semester III. The suggestions received from faculty members are enlisted in Table 2.

Table 2: Feedback of MCA Lateral second year and MCA-Dual first year courses.

Course Code	Feedback
CA101: Introduction to Computers	• In Unit V must be allocated 5 hours. • In Unit II content like storage devices and information representation can be added.
CA105: Fundamental Concepts in Programming Language	• Unit III must be allocated 8 hours, Unit V must be allocated 8 hours and Unit VI must be allocated 7 hours.
CA108: Mathematical and Statistical Foundations	• Increase number of hours for Unit III and V . • Add a reference book "Quantitative Aptitude for Competitive Examinations, by R. S. Aggarwal,7th Revised Edition, S. Chad Publishing. • Unit III and VI are relatively lengthy so need to separate from the syllabus if possible. We can differentiate the entire syllabus in two parts one for Computer Oriented Numerical Methods and second for Operation Research. • Mapping among the units is not defined well.
CA910: Open Source Framework	• Add a core book," Rachel McCollin, Tessa Blakeley Silver : Wordpress Theme Development, 3rd Edition, PACKT publishing."
CA911: Data Mining & Analytics	• Unit I needs to shrink by eliminating some multi dimensional data model concepts. • In Unit III Data Discretization need to be more precise and compact. • Hours allocation in Unit IV need to be updated.
CA913: Collaboration Technology	• Unit I is very lengthy, it should be divided in two units, one for Introduction to Collaboration and second for Introduction to Sharepoint. • Content in Unit III and V can be increased considering the development aspect.

Resolutions 10.3

- Passed the resolution according to the given feedbacks the syllabus will be updated.

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Note: - Annexure-II is attached for revised syllabus of MCA Lateral semester III courses and MCA-Dual semester I and II courses.

Item 10.4: To discuss the patterns of University Examination Papers

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 suggestions given by members and invitees are as follows:

- Add questions related to practical where they can correlate the concept and show it with example.
- Prepare question bank of critical thinking based questions from each course.

Resolutions 10.4

- Passed the resolution to ask faculty members to prepare a repository of questions that focuses on critical thinking and practical part.

Item 10.5: Result analysis of the academic year 2014-2015 examination

Proceedings: The chairman of BOS discussed the result of examination held in the academic year 2014-2015.

The suggestions from members and invitees are as follows:

- Students of MCA Dual Degree and M.Sc.(IT) first year should be more focused.

Resolutions 10.5

- Passed the resolution to incorporate suggestions for better results.

Note: - Annexure-III is attached for Result Analysis of the academic year 2014-2015examination.

Item 10.6: 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 10.6

- Approved the panel of examiners for university examination.

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

Other Item:-

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

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ANNEXURE-I

TEACHING AND EXAMINATION SCHEME OF M.C.A, M.C.A-LATERAL AND M.Sc.IT Programme

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M.C.A Teaching and Examination Scheme

MCA Semester 1

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		
CA716-719	Elective-I	3	-	3	3	10	20	70	-	-	-	100
[redacted]	[redacted]	-	3	3	3	-	-	-	15	15	70	100
CA721	Fundamental Concepts in Programming Language	4	3	7	7	10	20	70	15	15	70	200
CA722	Database Technologies	4	3	7	7	10	20	70	15	15	70	200
FI702	Fundamental of Commerce and Business Statistics	4	-	4	4	10	20	70	-	-	-	100
HS701	Advance Critical Thinking and Logic	2	-	2	2	30		70	-	-	-	100
		17	09	26	26	500			300			800

Elective-I

1. [redacted]
2. CA717-Fundamentals of Data Communications
3. CA718-History of Modern Computing
4. CA719-Introduction to Information Technology

MCA Semester 2

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		
CA723-726	Elective-II	3	-	3	3	10	20	70	-	-	-	100
CA727	Introduction to Internet and Web Designing	4	3	7	7	10	20	70	15	15	70	200
CA728	Object Oriented Concepts and Programming	4	3	7	7	10	20	70	15	15	70	200
[redacted]	[redacted]	4	-	4	4	10	20	70	-	-	-	100
HS702	Academic Writing and Communication Skills	-	2	2	2	-		-	30		70	100
		15	08	23	23	400			300			700

Elective-II

1. [redacted]
2. CA724-Information Technology Service Management
3. CA725-Wireless Communications
4. CA726-Introduction to Enterprise Resource Planning

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MCA Semester 3

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-III	3	-	3	3	10	20	70	-	-	-	100
[redacted]	[redacted] Software Engineering	-	2	2	2	-	-	-	15	15	70	100
[redacted]	[redacted] Computing	4	3	7	7	10	20	70	15	15	70	200
[redacted]	[redacted] Programming	3	3	6	6	10	20	70	15	15	70	200
[redacted]	Web Designing concepts	-	3	3	3	-	-	-	15	15	70	100
[redacted]	Advanced Database Technologies	4	3	7	7	10	20	70	15	15	70	200
		14	14	28	28	400			500			900

Elective-III

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

MCA Semester 4

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		
CA835-838	Elective-IV	4	3	7	7	10	20	70	15	15	70	200
[redacted]	[redacted] Open Source Technology	4	3	7	7	10	20	70	15	15	70	200
[redacted]	Mobile Application [redacted]	4	3	7	7	10	20	70	15	15	70	200
CA841	Software Quality Assurance	4	3	7	7	10	20	70	15	15	70	200
		16	12	28	28	400			400			800

Elective-IV

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

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Minutes

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

Date: 14th May, 2016

Time: 10:00 a. m.

Venue: Board Room, CMPICA, CHARUSAT Campus, Changa

The Eleventh joint meeting of Board of Studies and Faculty board for Faculty of Computer Science and Applications, CHARUSAT was held on 14th May, 2016 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. Atul Patel, Principal CMPICA,Changa, Chairman FB, Member BOS
2. Dr. Mukesh Patel, Member FB and BOS
3. Dr. Darshan Chokshi, Professor, G.H.Patel, SP University,V.V.Nagar, Member FB
4. Mr. Dharmendra Patel,Associate Professor,CMPICA,Changa, Chairman BOS, Member FB
5. Mr. Jaimin Undavia,Assistant Professor,CMPICA,Changa, Member FB
6. Dr. Aneesh Chinubhai,CTO,PDPU,Gandhainagar,(Invitee)
7. Ms. Ruchi Kansara, Assistant General Manager,Future Group,Ahmedabad(Alumni)(Invitee)
8. Mr.Nishant Joshi,Senior System Analyst,Cybage Software Pvt.Ltd., Gandhiagar (Alumni)(Invitee)
9. Dr. Sanskruti Patel,Assistant Professor,CMPICA,Changa, (Invitee)
10. Dr. Pritpal Singh,Assistant Professor.CMPICA,Changa, (Invitee)

Following members could not attend the meeting due to their other preoccupations:

1. Mr. Pravin Jain, Member BOS, Director Technical, Zensoft Technologies, Vadodara
2. Mr. Rahul Sanghvi, Member FB, CEO, Dexter Consultancy, Ahmedabad
3. Mr. Ashok Patel,Member BOS, Advisor CHARUSAT
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. Chirag Patel,Assistant Professor,CMPICA,Changa, Member BOS
7. Ms. Nirali Honest,Assistant Professor,CMPICA,Changa, Member BOS

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 11.1: To discuss and approve minutes of 10th joint meeting of BOS and FB.

Proceedings: Chairman of BOS has given brief about 10th joint meeting of BOS and FB to all members and invitees and informed them about change in codification of M.Sc.IT semester-III courses. He informed that code will start from MS312 instead of MS311.

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Resolutions 11.1

- All members of BOS and FB approved the minutes of 10th joint BOS and FB meeting and suggested changes.

Item 11.2: To discuss and approve detail syllabi of first year courses and teaching and examination scheme of all semesters based on choice based credit system in M.C.A-Dual (BCA+MCA) programme.

Proceedings: Chairman of BOS has explained the structure of the choice based credit system and 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

Course Code	Suggestions
CA 109: Introduction to Information Technology	• Add overview of interrupts and hard disk.
CA 111: Fundamental Concepts of Programming Language	• Add reference book entitled as " The C Programming Language" by Brian W. Kerighan and Dennis M. Ritchie.
CA 115: Management Information System	• Add an overview of ERP in unit-VI.
CA 116: Numerical and Statistical Methods	• Add reference book entitled as "Introductory Methods of Numerical Analysis" by S.S. Sastry
CA 209: Electronics Commerce	• Replace title by Fundamentals of Electronics Commerce
CA 210: Managerial Economics	• Replace title by Introduction to Economics.
CA 211 : Front Page Designing	• Replace title by User Interface Design.
CA 221 : Search Engine Optimization	• Add content on social media marketing strategies and rethink about title.
CA 316: Object Oriented System Analysis and Design	• Replace title by Software Engineering
Elective-VII (Sixth Semester)	• Course content and delivery should be in form of dissertation.

Resolutions 11.2

- Passed the resolution to add the content on interrupts and Hard Disk in CA 109: Introduction to Information Technology.
- Passed the resolution to add the content on ERP in CA 115: Management Information System

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- Passed the resolution to add suggested reference books in CA 111: Fundamental Concepts of Programming Language, CA 116: Numerical and Statistical Methods.
- Passed the resolution to change the titles of the courses CA 209: Electronics Commerce, CA 210: Managerial Economics, CA 211: Front Page Designing and CA 316: Object Oriented System Analysis and Design.
- Passed the resolution to revise the title and content of course CA 221 : Search Engine Optimization
- Passed the resolution to revise the course content and delivery of the elective-VIII of final semester.

Note: - Annexure-III is attached for detail syllabi of first year courses and teaching and examination scheme of all semesters based on choice based credit system of M.C.A-Dual(BCA+MCA) programme.

Item 11.3: To discuss and approve detail syllabi of courses decided to offer by Faculty of Computer Science and Applications as university electives to other institutions at postgraduate level.

Proceedings: Chairman of BOS has explained the content of the courses decided to offer by Faculty of Computer Science and Applications as university electives to other institutions in post graduate level.

The suggestion is received to add content on boot strap in the course Internet and Web Designing.

Resolutions 11.3

- Passed the resolution to add the content on bootstrap in the course Internet and Web Designing

Note: - Annexure-IV (A, B, C) is attached for detail syllabi of courses offered in Post Graduate Programmes with university electives.

Item 11.4: To inform about result analysis winter examination of academic year 2015-16

Proceedings: The chairman of BOS discussed the result of winter examination held in the academic year 2015-2016.

Resolutions 11.4

- All BOS and FB members are made aware about results of winter examnation.

Note: - Annexure-V is attached for Result Analysis of the academic year 2015-2016 winter examination

Item 11.5: To discuss the patterns of University Examination Papers

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 practical concepts in question papers.

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Resolutions 11.5

- Passed the resolution to ask faculty members to prepare question paper with more emphasize on practical concepts.

Item 11.6: 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 11.6

- Approved the panel of examiners for university examination.

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

Item 11.7: To discuss feedback of faculty members over previous semester courses.
Proceedings: The chairman of BOS explained the feedback given by faculties who took the courses in MCA Dual Semester III and IV and in elective courses of first and second semesters of post graduate programmes. The suggestions received from faculty members are enlisted in Table 2.

Table 2: Feedback of MCA-Dual Second year courses and electives courses of first year.

Course Code	Feedback
CA203: Object Oriented Programming using C++	• Remove topics like virtual function and pure virtual function. • Unit-II and Unit-III should be allocated more hours. • Add books of Sourav Sahay and Bjarne Stroustrup
CA205: Data Structures and Algorithms	• Unit-III should be allocated more hours • Add more points of tree and graph
CA207: Multi Paradigm Programming Language	• Unit-VI requires more hours.

Resolutions 11.7

- Members disagree to remove topics on virtual and pure virtual function from CA 203: Object Oriented Programming using C++. On other feedbacks, they agree and passed the resolution that according to the given feedbacks the syllabus will be updated.

Note: - Annexure-VII is attached for revised syllabus of courses of MCA-Dual(BCA+MCA) semester-III and IV based on faculty feedback.

Other Item:-

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

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ANNEXURE-III

DETAIL SYLLABI OF FIRST YEAR COURSES AND TEACHING AND EXAMINATION SCHEME OF MCA-DUAL PROGRAMME

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TEACHING SCHEME

FOR

MCA Dual (BCA + MCA) PROGRAMME

EFFECTIVE FROM ACADEMIC YEAR 2016-17

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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		
CA 109-110	Elective-I	3	-	3	3	10	20	70	-	-	-	100
CA 111	Fundamental Concepts Of Programming Language	4	3	7	7	10	20	70	15	15	70	200
CA 112	Introduction to Computers	4	3	7	7	10	20	70	15	15	70	200
CA 113	Programming the Internet-I	--	3	3	3				15	15	70	100
CA 114	Foundation of Mathematics	3	-	3	3	10	20	70	-	-	-	100
HS 101-106 C	Liberal Arts	-	2	2	2				30		70	100
		14	11	25	25	400			400			800

Elective-I

1. CA109 –Introduction to Information Technology
2. CA110 – Foundation of Computer Organization

Semester-II

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		
CA115-116	Elective-II	3	-	3	3	10	20	70	-	-	-	100
CA 117	Operating System Concepts	4	3	7	7	10	20	70	15	15	70	200
CA 118	Advanced Programming	4	3	7	7	10	20	70	15	15	70	200
CA 119	Data base Fundamentals	4	3	7	7	10	20	70	15	15	70	200
CA 120	Fundamentals of Commerce & Business Process	3	-	3	3	10	20	70	-	-	-	100
HS121 C	English Language & Literature	1	1	2	2	25		25	25		25	100
		19	10	29	29	550			350			900

Elective-II

1. CA 115–Management Information System
2. CA116–Numerical & Statistical Method

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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		
CA 209-210	Elective - III	3	-	3	3	10	20	70	-	-	-	100
CA 211-212	Elective – IV	-	3	3	3	-	-	-	15	15	70	100
CA 213	Programming the Internet-II	4	3	7	7	10	20	70	15	15	70	200
CA 214	Object Oriented Programming Using C++	4	3	7	7	10	20	70	15	15	70	200
CA 215	System Analysis and Design	3	-	3	3	10	20	70	-		-	100
HS 122 C	Values and Ethics	2	-	2	2	30		70	-		-	100
	Environmental Science	-	-	2	2	30		70	-		-	100
	University Elective – I **	-	2	2	2	-	-	-	30		70	100
		16	11	29	**29**	600			400			1000

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

Elective-III

1. CA 209 – Fundamentals of Electronic Commerce
2. CA 210 – Introduction to Economics

Elective-IV

1. CA 211 – User Interface Design
2. CA 212 - Visual Basic Applications

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Semester-IV

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		
CA 216 – 222	Elective - V	4	3	7	7	10	20	70	15	15	70	200
CA 223	Data Structures & Algorithms	4	3	7	7	10	20	70	15	15	70	200
CA 224	Advanced Database System	-	3	3	3	-	-	-	15	15	70	100
CA 225	Fundamentals of Computer Networks	3	-	3	3	10	20	70	-		-	100
HS 123C	Critical Thinking and Logic	2	-	2	2	30		70	-		-	100
	University Elective – II **	-	2	2	2	-	-	-	30		70	100
		13	11	24	**24**	400			400			800

** Student will take any university elective offered by different institutions of university. CMPICA has decided to offer **Programming the Internet** course for others.

Elective-V

1. CA 216 -Computer Graphics-I
2. CA 217- Multi Programming Paradigm Language
3. CA 218- System Programming
4. CA 219- Scripting Language
5. CA 220- Basics of Web Designing
6. CA 221- social media marketing strategies
7. CA 222- Multi Media-I

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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		
CA 308–313	Elective-VI	4	3	7	7	10	20	70	15	15	70	200
CA 314	Object Oriented Programming Through JAVA	4	3	7	7	10	20	70	15	15	70	200
CA 315	Application development using .NET Framework	4	3	7	7	10	20	70	15	15	70	200
CA 316	Software Engineering	-	3	3	3	-	-	-	15	15	70	100
HS 124 C	Professional Communication	-	2	2	2				30		70	100
		12	14	26	26	300			500			800

Elective-VI

1. CA 308 –Introduction to Open Source Technology
2. CA 309 –Advanced Computer Networks
3. CA 310 –Operation Research
4. CA311–Embedded Programming
5. CA 312-Multimedia –II
6. CA 313-Ruby on Rail Architecture

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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		
CA 317-319	Elective-VII	4	-	4	4	10	20	70	-	-	-	100
CA 320 – 322	Elective-VIII	-	3	3	3	-	-	-	15	15	70	100
CA 323	Minor Project	-	15	15	15	-	-	-	100		300	400
HS 125 C	Society, Governance and International Studies	-	2	2	2	-	-	-	30		70	100
		04	20	24	24	100			600			700

Elective- VII

1. CA 317 –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

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