



**Minutes of Meeting of Board of Studies (BOS)**

**Date:15-03-2015**

Minutes of the meeting of Board of studies Bachelor of Computer Application Programme held at 9.00 A.M on 15-03-2015 at Conference Hall, 1st Floor of Administration Block, Vignan's University.

The following are the members of BOS

| S.No | Name & Address of the Expert  | Member                      |
|------|---|-----------------------------|
| 1    | Dr.N.Veeranjanyulu<br>Professor & HOD<br>Department of Information Technology<br>VFSTR University                             | Chairman<br>Internal Member |
| 2    | Dr.R.Nadarajan,<br>Professor & Head, Department of Applied<br>Mathematics and Computer Sciences, PSG College of<br>Technology | External Member             |
| 3    | Dr.S.Nickolas,<br>Department of Computer Applications, NIT,<br>Tiruchurapalli   | External Member             |
| 4    | VelpuruVenkataswami<br>Teach Lead,HCL, Bangalore.   | External Member             |
| 5    | Mr. VenkataTulasiramu P<br>Lead Engineer, ESCOE R&D Development Centre<br>Eaton Corporation, Pune                             | External Member             |
| 6    | Mr. T. Bala Krishna<br>Director<br>Global Infrastructure Services, Computer Science<br>Corporation, Hyderabad                 | External Member             |
| 7    | Dr.M.NirupamaBhat<br>Assoicate Professor<br>Department of Information Technology,<br>VFSTR University                         | Internal Member             |
| 8.   | Mr. P.Subba Rao<br>Assistant Professor<br>Department of Information Technology,<br>VFSTR University                           | Internal Member             |



|    |   |                 |
|----|---|-----------------|
| 9. | Mr. P.Praveen Kumar<br>Assistant Professor<br>Department of Information Technology,<br>VFSTR University | Internal Member |
|----|---|-----------------|

**Members Present:**

1. Dr. C.Raghavendra Rao, Professor of School of Computer & Information Sciences, University of Hyderabad.
2. Dr.R.Nadarajan, Professor & Head, Department of Applied Mathematics and Computer Sciences, PSG College of Technology
3. Dr N Veeranjanyulu, Head , Department of Information Technology, VFSTRU
4. Mr. VelpuruVenkataswami, Teach Lead, HCL, Bangalore.
5. Dr. M. Nirupama Bhat , Assistant Professor, Department of Information Technology, VFSTRU
6. Mr. P.Subba Rao, Assistant Professor, Department of Information Technology, VFSTRU
7. Mr. K. Praveen Kumar, Assistant Professor, Department of Information Technology, VFSTRU

The following members expressed their inability to attend the meeting because of their preoccupation with other commitments.

1. Mr. Venkata Tulasiramu P, Lead Engineer, ESCOE R&D Development Centre, Eaton Corporation, Pune.
2. Ashika, Scientist 'C', Center for Artificial Intelligence and Robotics (CAIR), DRDO, CV Raman Nagar, Bangalore.
3. Mr. T.BalaKrishna, Director, Global Infrastructure Services, Computer Science Corporation

**Agenda of the BOS Meeting:**

1. To finalize the BCA Structure and Content of the syllabus.
2. Any other point with the permission of the Chair.

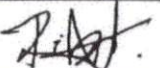
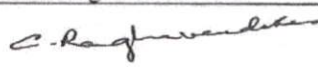
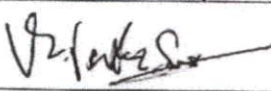
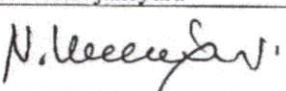
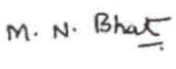
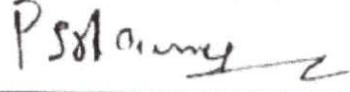
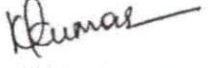
**Following are the points discussed and resolutions made during this meeting.**

1. Structure and syllabi of BCA programme are finalized (Appendix A)
2. Propose and approve detailed syllabus for the 3 year of BCA Programme with effect from the academic year 2015-16. The proposed structure and syllabus are applicable for 2015 admitted batch onwards.
3. Choice based credit system (CBCS) is implemented in the Curriculum



4. All the Courses in the Curriculum are designed to fall under either of the domains of employability or entrepreneurship or skill development (Appendix B)
5. The feedback from various stakeholders is carefully collected, analyzed and their suggestions are implemented in the curriculum.
6. Inclusion of new courses in the curriculum are provided as Appendix C
7. It is suggested to include application-oriented courses of computer application like Data warehousing and Mining, Database Management Systems, Multimedia Systems, etc.
8. Introduce Object oriented programming concepts in the second year to have the better knowledge to understand the advanced courses in the programme.
9. It is very essential to offer office automation laboratory course and Internet and web technology course in the first year to develop web-based applications
10. Introduce e-commerce, open source systems, big data analytics courses to have knowledge on business systems.

**BOS Members:**

|  |   |
|--|---|
| 1. Dr. R. Nadarajan<br>     | 2. Dr. C. Raghavendra Rao<br> |
| 3. Mr. V. Venkata Swamy<br> | 4. Dr. N. Veeranjanyulu<br>   |
| 5. Dr. M. Nirupama Bhat<br> | 6. Mr. P. Subba Rao<br>       |
| 7. Mr. K. Praveen Kumar<br> |   |



**Appendix A**  
**Bachelor of Computer Applications (BCA)**  
**Course Structure**

**I Semester**

| S.No         | Name of the subject                   | L         | P        | To        | C         |
|--------------|---------------------------------------|-----------|----------|-----------|-----------|
| 1            | Digital Computer Fundamentals         | 4         |          | 4         | 4         |
| 2            | Computer Programming                  | 4         |          | 4         | 4         |
| 3            | Principles and practice of Management | 4         |          | 4         | 4         |
| 4            | Mathematics - I                       | 4         |          | 4         | 4         |
| 5            | Technical communication Skills Lab    |           | 3        | 3         | 2         |
| 6            | Office Automation Lab - I             |           | 3        | 3         | 2         |
| 7            | Computer Programming Lab              |           | 3        | 3         | 2         |
| <b>Total</b> |                                       | <b>16</b> | <b>9</b> | <b>25</b> | <b>22</b> |

**II Semester**

| S.No         | Name of the subject                 | L         | P        | To        | C         |
|--------------|-------------------------------------|-----------|----------|-----------|-----------|
| 1            | Data Structures                     | 4         |          | 4         | 4         |
| 2.           | Internet and Web Technologies       | 4         |          | 4         | 4         |
| 3            | Accounting and Financial Management | 4         |          | 4         | 4         |
| 4            | Mathematics – II                    | 4         |          | 4         | 4         |
| 5            | Soft Skills Lab                     |           | 3        | 3         | 2         |
| 6            | Data Structures Lab                 |           | 3        | 3         | 2         |
| 7            | Internet and Web Technologies Lab   |           | 3        | 3         | 2         |
| <b>Total</b> |                                     | <b>16</b> | <b>9</b> | <b>25</b> | <b>22</b> |





**III Semester**

| S.No | Name of the subject                          | L  | P | To | C  |
|------|--|----|---|----|----|
| 1    | Object Oriented Programming with Java        | 4  |   | 4  | 4  |
| 2    | Database Management Systems                  | 4  |   | 4  | 4  |
| 3    | Software Engineering                         | 4  |   | 4  | 4  |
| 4    | Organization Behavior                        | 4  |   | 4  | 4  |
| 5    | Statistical Techniques Lab                   |    | 3 | 3  | 2  |
| 6    | Object Oriented Programming through Java lab |    | 3 | 3  | 2  |
| 7    | Database Management Systems Lab              |    | 3 | 3  | 2  |
|      |  | 16 | 9 | 25 | 22 |

**IV Semester**

| S.No | Name of the subject                    | L         | P        | To        | C         |
|------|--|-----------|----------|-----------|-----------|
| 1    | Multimedia Systems                     | 4         |          | 4         | 4         |
| 2    | Computer Networks                      | 4         |          | 4         | 4         |
| 3    | Operating Systems                      | 4         |          | 4         | 4         |
| 4    | E- Commerce                            | 4         |          | 4         | 4         |
| 5    | Multimedia Systems Lab                 |           | 3        | 3         | 2         |
| 6    | Computer Networks Lab                  |           | 3        | 3         | 2         |
| 7    | Linux basics and shell programming lab |           | 3        | 3         | 2         |
|      | <b>Total</b>                           | <b>16</b> | <b>9</b> | <b>25</b> | <b>22</b> |



**V Semester**

| S.No | Name of the subject             | L         | P        | To        | C         |
|------|---------------------------------|-----------|----------|-----------|-----------|
| 1    | Open source Systems             | 4         |          | 4         | 4         |
| 2    | Data warehousing and Mining     | 4         |          | 4         | 4         |
| 3    | Software Testing Methodologies  | 4         |          | 4         | 4         |
| 4    | Embedded Systems                | 4         |          | 4         | 4         |
| 5    | Open source systems Lab         |           | 3        | 3         | 2         |
| 6    | Data warehousing & Mining Lab   |           | 3        | 3         | 2         |
| 7    | Professional Communications Lab |           | 3        | 3         | 2         |
|      | <b>Total</b>                    | <b>16</b> | <b>9</b> | <b>25</b> | <b>22</b> |

**VI Semester**

| S.No | Name of the subject  | L         | P        | To        | C         |
|------|----------------------|-----------|----------|-----------|-----------|
| 1    | Information Security | 4         |          | 4         | 4         |
| 2    | Big data Analytics   | 4         |          | 4         | 4         |
| 3    | Seminar              | 2         |          | 2         | 1         |
| 4    | Project              |           |          |           | 15        |
|      | <b>Total</b>         | <b>10</b> | <b>-</b> | <b>10</b> | <b>24</b> |

L = Lecture; P = Practicals; To = Total; C= Credits;

Note: The highlighted courses are considered under CBCS (Choice Based Credit System)

  
BOS, Chairman



### Appendix B

**List of courses that enable employability or entrepreneurship or skill development in the R-15 BCA Programme**

| S. No. | Year | Semester | Course Name                                     | Course Nature     |
|--------|------|----------|---|-------------------|
| 1      | I    | I        | Digital Computer Fundamentals                   | Skill Development |
| 2      | I    | I        | Computer Programming                            | Skill Development |
| 3      | I    | I        | Principles and practice of Management           | Skill Development |
| 4      | I    | I        | Mathematics - I                                 | Skill Development |
| 5      | I    | I        | Technical communication Skills Lab              | Skill Development |
| 6      | I    | I        | Office Automation Lab - I                       | Skill Development |
| 7      | I    | I        | Computer Programming Lab                        | Employability     |
| 8      | I    | II       | Data Structures                                 | Employability     |
| 9      | I    | II       | Internet and Web Technologies                   | Skill Development |
| 10     | I    | II       | Accounting and Financial Management             | Skill Development |
| 11     | I    | II       | Mathematics - II                                | Skill Development |
| 12     | I    | II       | Soft Skills Lab                                 | Employability     |
| 13     | I    | II       | Data Structures Lab                             | Skill Development |
| 14     | I    | II       | Internet and Web Technologies Lab               | Employability     |
| 15     | II   | I        | Object Oriented Programming with Java           | Skill Development |
| 16     | II   | I        | Database Management Systems                     | Skill Development |
| 17     | II   | I        | Software Engineering                            | Skill Development |
| 18     | II   | I        | Organization Behavior                           | Skill Development |
| 19     | II   | I        | Statistical Techniques Lab                      | Skill Development |
| 20     | II   | I        | Object Oriented Programming through Java lab    | Skill Development |
| 21     | II   | I        | Database Management Systems Lab                 | Skill Development |
| 22     | II   | II       | Multimedia Systems                              | Skill Development |
| 23     | II   | II       | Computer Networks                               | Skill Development |
| 24     | II   | II       | Operating Systems                               | Skill Development |
| 25     | II   | II       | E- Commerce                                     | Skill Development |
| 26     | II   | II       | Multimedia Systems Lab                          | Employability     |
| 27     | II   | II       | Computer Networks Lab and Operating Systems Lab | Employability     |
| 28     | II   | II       | Optimization Techniques Lab                     | Employability     |
| 29     | III  | I        | Open source Systems                             | Employability     |
| 30     | III  | I        | Data warehousing and Mining                     | Employability     |
| 31     | III  | I        | Software Testing Methodologies                  | Employability     |



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|----|-----|----|---------------------------------|-------------------|
| 32 | III | I  | Embedded Systems                | Employability     |
| 33 | III | I  | Open source systems Lab         | Employability     |
| 34 | III | I  | Data warehousing & Mining Lab   | Employability     |
| 35 | III | I  | Professional Communications Lab | Skill Development |
| 36 | III | II | Information Security            | Employability     |
| 37 | III | II | Big data Analytics              | Employability     |
| 38 | III | II | Seminar                         | Employability     |
| 39 | III | II | Project                         | Employability     |

  
BOS, Chairman





**Appendix C**  
**List of new courses in the R-15 BCA**

| S. No. | Year | Semester | Course Name                                     |
|--------|------|----------|---|
| 1      | I    | I        | Digital Computer Fundamentals                   |
| 2      | I    | I        | Computer Programming                            |
| 3      | I    | I        | Principles and practice of Management           |
| 4      | I    | I        | Mathematics - I                                 |
| 5      | I    | I        | Technical communication Skills Lab              |
| 6      | I    | I        | Office Automation Lab - I                       |
| 7      | I    | I        | Computer Programming Lab                        |
| 8      | I    | II       | Data Structures                                 |
| 9      | I    | II       | Internet and Web Technologies                   |
| 10     | I    | II       | Accounting and Financial Management             |
| 11     | I    | II       | Mathematics - II                                |
| 12     | I    | II       | Soft Skills Lab                                 |
| 13     | I    | II       | Data Structures Lab                             |
| 14     | I    | II       | Internet and Web Technologies Lab               |
| 15     | II   | I        | Object Oriented Programming with Java           |
| 16     | II   | I        | Database Management Systems                     |
| 17     | II   | I        | Software Engineering                            |
| 18     | II   | I        | Organization Behavior                           |
| 19     | II   | I        | Statistical Techniques Lab                      |
| 20     | II   | I        | Object Oriented Programming through Java lab    |
| 21     | II   | I        | Database Management Systems Lab                 |
| 22     | II   | II       | Multimedia Systems                              |
| 23     | II   | II       | Computer Networks                               |
| 24     | II   | II       | Operating Systems                               |
| 25     | II   | II       | E- Commerce                                     |
| 26     | II   | II       | Multimedia Systems Lab                          |
| 27     | II   | II       | Computer Networks Lab and Operating Systems Lab |
| 28     | II   | II       | Optimization Techniques Lab                     |
| 29     | III  | I        | Open source Systems                             |
| 30     | III  | I        | Data warehousing and Mining                     |
| 31     | III  | I        | Software Testing Methodologies                  |
| 32     | III  | I        | Embedded Systems                                |
| 33     | III  | I        | Open source systems Lab                         |
| 34     | III  | I        | Data warehousing & Mining Lab                   |



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## Department of Information Technology

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|    |     |    |                                 |
|----|-----|----|---------------------------------|
| 35 | III | I  | Professional Communications Lab |
| 36 | III | II | Information Security            |
| 37 | III | II | Big data Analytics              |
| 38 | III | II | Seminar                         |
| 39 | III | II | Project                         |

*N. Manoj Kumar*  
BoS, Chairman