**ANNEXURE – V(A)**

**Evaluative Report of the Department of IT & Mathematics**

1. **Faculty Profile, adequacy and competency of faculty.**

|  |  |  |  |
| --- | --- | --- | --- |
| **Name** | **Qualification** | **Teaching Experience** | **Designation** |
| RUPANKA BHUYAN | M.C.A., ‘A’ Level, S.T.C. (Embedded Sys.) | 12 years | Senior Lecturer & HoD |
| O BHOPEN SINGH | M.C.A. | 10 years | Lecturer |
| KAMAL HUSSAIN | B.Tech. | 5 years | Faculty Associate |

1. **Students Profile:**

**Number of students registered for the course:** IT & Mathematics

|  |  |  |  |
| --- | --- | --- | --- |
| **Class** | **Male** | **Female** | **Total** |
| BCA2 (Class of 2012-2015) | 06 | 02 | 08 |
| BCA4 (Class of 2011-2014) | 04 | 04 | 08 |
| BCA6 (Class of 2010-2013) | 09 | 03 | 12 |
| BBA2 (Class of 2012-2015) | 07 | 03 | 10 |
| BBA6 (Class of 2010-2013) | 14 | 10 | 24 |
| MBA2 (Class of 2012-2014) | 08 | 02 | 10 |

1. **Changes made in the courses or programmes in last year and the contribution of the faculty to those changes.**
* Some of the new courses that have been introduced and existing courses where modifications

have been done for the **BCA program** in the upcoming *academic session* are listed below:

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| Sl. No. | Program/Semester | Course | Course Type | Remarks |
| 1 | BCA/1 | Computer Fundamentals | Compulsory | Modified Syllabus & Title |
| 2 | BCA/1 | Mathematics – I | Compulsory | Modified Syllabus |
| 3 | BCA/2 | C Programming | Compulsory | Syllabus Newly Designed |
| 4 | BCA/2 | Digital Organization | Compulsory | Modified Syllabus & Title |
| 5 | BCA/2 | Mathematics – I | Compulsory | Modified Syllabus |
| 6 | BCA/3 | Data Structures | Compulsory | Syllabus Newly Designed |
| 7 | BCA/3 | Object Oriented Programming using C++ | Compulsory | Modified Syllabus & Title |
| 8 | BCA/3 | Operations Research | Compulsory | Modified Syllabus |
| 9 | BCA/4 | Fundamentals of Operating Systems | Compulsory | Modified Syllabus & Title |
| 10 | BCA/4 | Software Engineering  | Compulsory | Syllabus Newly Designed |
| 11 | BCA/4 | DoT NET Technologies | Compulsory | Syllabus Newly Designed |
| 12 | BCA/5 | Computer Graphics | Compulsory | NEW COURSE |
| 13 | BCA/5 | Advanced Java | Elective | Syllabus Newly Designed |
| 14 | BCA/5 | ASP.NET | Elective | Syllabus Newly Designed |
| 15 | BCA/5 | Perl Programming | Elective | NEW COURSE |
| 16 | BCA/5 | Linux & Shell Programming | Elective | NEW COURSE |
| 17 | BCA/5 | Artificial Intelligence | Elective | NEW COURSE |
| 18 | BCA/5 | Data Warehousing & Data Mining | Elective | Syllabus Newly Designed |
| 19 | BCA/5 | Theory of Computation | Elective | NEW COURSE |

* Some of the new courses that have been introduced and existing courses where modifications

have been done for the **BBA program** in the upcoming *academic session* are listed below:

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| Sl. No. | Program/Semester | Course | Course Type | Remarks |
| 1 | BBA/1 | Computer Fundamentals | Compulsory | Modified Syllabus & Title |
| 2 | BBA/2 | PC Software | Compulsory | Modified Syllabus & Title |

* Some of the new courses that have been introduced and existing courses where modifications

have been done for the **B.Com. program** in the upcoming *academic session* are listed below:

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| Sl. No. | Program/Semester | Course | Course Type | Remarks |
| 1 | BCom/2 | Computer Fundamentals for Commerce | Compulsory | NEW COURSE |
| 2 | BCom/6 | PC Software for Business | Compulsory | NEW COURSE |

* Some of the new courses that have been introduced and existing courses where modifications

have been done for the **MBA program** in the upcoming *academic session* are listed below:

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| Sl. No. | Program/Semester | Course | Course Type | Remarks |
| 1 | MBA/1 | Information Systems for Managers | Compulsory | Modified Syllabus |
| 2 | MBA/2 | Enterprise Wide Information Systems | Compulsory | Modified Syllabus |

1. **Trend in the success rate and drop out rate of students in last year.**

Success rate: 100% Dropout rate: 0%

1. **Learning resources of the department like library, computers, laboratories and other such resources.**

The IT & Mathematics Department utilizes:

* the resources of the University’s Library (which is kept up to date with latest editions of IT and

related Text Books, Reference Books, Magazines, Journals etc.)

* the PCs of the University’s Computer Lab which houses the *first and only* Linux-Servers-based

network among the Universities in the state of Nagaland

1. **Enhancement of the learning resources in last year.**
* Modern programming tools such as ***Netbeans***, ***Eclipse*** and other traditional Linux based

compilers such as ***gcc,*** and ***gcj*** etc. have been commissioned in the Computer Lab.

* Open Source relational database servers such as ***MySQL*** have been installed, for giving students

hands on experience with state-of-the-art *relational database* technologies.

1. **Modern Teaching methods in practice other than the lecture method.**
* Presentations (Power Point aided),
* Summer Internship,
* Major Project,
* Case Studies,
* Seminars,
* Live Demos (in the Lab), etc.
1. **Participation of teachers in academic and personal counseling of students.**

As and when the need arises, teachers of the department conducts counseling/advising for some of the weak students.

1. **Details of faculty development programmes and teachers who benefited during last year.**
* There was no FDP (Faculty Development Programme) held during 2012.
* During 2011 *Mr. O Bhopen Singh*, Faculty Associate, attended the FDP 2011.
* During 2010 *Mr. Rupanka Bhuyan*, Senior Lecturer, attended the FDP 2010 and attained the ***1st***

***Rank*** in the IT Domain.

* During 2009 *Mr. Rupanka Bhuyan*, Senior Lecturer, attended the FDP 2009 and attained the ***1st***

***Rank*** in the IT Domain.

1. **Participation of teachers in academic activities other than teaching and research.**
* Mr. Rupanka Bhuyan, Sr. Lecturer, conducted a Seminar on *Career Counselling* at Gospel

Studio, Dimapur for the *Kashiram Youth Organisation* during May 2012.

* The following Faculty Members of the Department are members of the BoS (Board of Studies)

which is instrumental in contributions towards updation of course syllabus, suggestions of new courses/programs etc.:

* + Mr. Rupanka Bhuyan, Sr. Lecturer
	+ Mr. O Bhopen Singh, Lecturer
	+ Mr. Kamal Hussain, Faculty Associate
* Mr. Rupanka Bhuyan, Sr. Lecturer, who is a member of University’s Academic Council has

participated in the *1st Academic Council Meeting* held during 2012.

1. **Collaborations with other departments and institutions at the national and international level and their outcome in last year.**

As of now, the University has no collaborations with any other departments/institutions at the national or international level. After shifting to its permanent campus, academic/technical collaborations will be one of the priorities of the Department.

1. **If research is a significant activity, what are the thrust areas of the department?**
	* Data Mining
		+ Image Segmentation
		+ E–Governance
2. **Details of the ongoing projects and projects completed in last year.**

As the University is still awaiting UGC inspection, projects and grants from UGC have not been allocated yet.

Listed below are some of the ongoing/completed UG projects:

*Final Semester Projects Completed during 2012*

* + OPD Records Maintenance System
	+ Musical Instruments Stock Information System
	+ OPD Case Histories Information System
	+ Student Marks Maintenance System

*Ongoing Final Semester Projects during 2013 (shortened list)*

* + Stock Inventory System for Motor Parts using VB.NET
	+ Grocery Shop Sales Information System
	+ Computer based SMS Application using Java
	+ Simulation of a Router using Java
	+ Design of a Simple Word Processor in VB6
	+ Web based Video/Audio Library
	+ Web based Video Player
1. **Methods of continuous student assessment.**
	* Internal Examinations (C1, C2 etc.),
	* Class/Home Assignments,
	* Class Attendance,
	* Class Activities, and
	* End Semester Examinations
2. **Placement record of the past students and the contribution of the department to the student placements.**

BCA (Class of 2009-2012):

Out of a total of four (4) students –

* + Ms. Kaberi Roy, has been successfully placed with a corporate located in Shillong; two counseling sessions were done with the student by the HoD of the Department prior to her *applying for* and *appearing in the job interview*;
	+ Ms. Rongpangmenla Imchen, is preparing for the State Civil Services;
	+ Mr. Alemkaba Jamir and Mr. Imlikaba are engaged in their own Businesses.

*Note that, in general, the Placement Cell of the University handles the placement of the final year students.*

1. **Involvement of students in academic/co-curricular and other activities of the department.**
* BCA Students participated in the *Annual Sports Meet* conducted by Icfai University Nagaland in

the various sports events.

* BCA Students participated in the various technical and art events in the *Zoomax* *Technical*

*Festival* hosted by SETAM (School of Engineering, Technology & Management), Nagaland University.

1. **Action Plan Of The Department Of IT & Mathematics For The Year 2013-2014.**
* Incorporation of latest courses into the BCA programme.
* Installation of new state-of-the-art technologies and software in the Computer Lab for students’

learning purpose and usage.

* Industrial Visits.
* Workshops/Seminars.