

LADY DOAK COLLEGE, MADURAI
INTERNAL QUALITY ASSURANCE CELL
IQAC MEETING III – (Internal) – 23.02.2015
Minutes of the Internal Quality Assurance Cell (IQAC) Meeting - III

➤ Dr. Christianna Singh led the gathering in prayer.

AGENDA : Review of the progress of IQAC Action Plans 2014-2015

Presentation on the details of visit to Christ University, Bengaluru

| Matters brought forward by / Suggestions given by | Subject/issue | Discussion | Action to be taken / Follow-up of suggestions | Person(s) / Centre In-charge |
|---|---|---|---|------------------------------|
| The progress of the IQAC Action plans for the academic year 2014-2015, was presented theme wise by the faculty members in-charge of the activity (Action plan appended) | | | | |
| Presented by Mrs. Sriilatha | | Standard Operating Procedures (SOP) are framed based on the functions of different administrative offices. SOP has been evolved for the following offices: Principal Office, Vice Principal Office, Examinations Office, Deans Office and DSS Office. Framing of SOP for Bursar Office is ongoing. | - | - |
| Suggestions: <ul style="list-style-type: none"> • Principal • Dr. S. Sankaranachiar • Dr. Mumtaj Begum • Dr. Rosy Godwin | Implementation of Administrative Audit for the Centres and Offices | <ul style="list-style-type: none"> • Evolving such SOP for the administrative processes of the college will ensure quality sustenance. • The SOP for each office can be linked with college automation process. • Time frame for completion of each activity of SOP to be included. • Visit to Hi-Tech Arai, Madurai can be planned as they have a well established administrative process. | Suggestions will be taken up | Mrs. Sriilatha |

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|---|--|--|--|------------------------------|
| Presented by Dr. V. Sri Devi | Implementation of Academic Audit for the Departments | <ul style="list-style-type: none"> Internal Academic Audit has been completed for all the Departments (14 Departments and Centre for Nanoscience) for two semesters (2013-2014: Even Semester and 2014-2015: Odd Semester). The report of the audit was presented. Other Centres such as Women Studies, Part IV, Centre for Environmental Studies, Human Rights Education did not submit the Certificate of Compliance for their Academic programmes | - | - |
| Suggestions: <ul style="list-style-type: none"> Dr. Christianna Singh Dr. Mumtaj Begum | | <ul style="list-style-type: none"> To ensure security, all the course files of the department that are uploaded in centralized storage server needs to be password protected. The audit of the course files and QMS files should be completed at the end of the same semester itself. If all the academic programmes of the department are recorded completely through an e-filing system, audit can be done by any authorized person, anywhere, anytime during the course of the semester / year. | <p>Suggestions will be taken up</p> <p>Suggestion can be presented in the IQAC External Meeting to get the concurrence of the External experts</p> | Dr. V. Sridevi |
| Presented by Dr. Geetha Kanagaraj | Examination and Evaluation Reforms | <p>A workshop on "Academic Grading" for the teachers is planned on 30th March, 2015. Dr. Thangamuthu, Former Vice Chancellor of Bharathidasan University will be the resource person.</p> <p>Workshop on continuous assessments tools will be planned at the beginning of next academic year (2015-2016).</p> | - | - |

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|---|---|--|---|------------------------------|
| Presented by Mrs. Sriilatha S. | Study on the development of students' skills at entry and exit levels | The questionnaire that was prepared to assess the students' entry and exit levels was discussed with an external expert, Dr. Muthumanickam, Head of the Department of Education, Madurai Kamaraj University. He suggested that the questions are very general and has to be more specific and a pilot study can be conducted with present year students using the prepared questionnaire. | - | - |
| Presented by Ms. Priyadharshini Rajendren | Towards a Zero waste campus | Eco-Awareness week was organised during 15 th to 19 th December, 2014. <ul style="list-style-type: none"> * 15.12.2014 - Conservation day * 16.12.2014 - Reduce Emission Day * 17.12.2014 - Traditional Food Carnival * 18.12.2014 - Waste Minimization Day * 19.12.2014 - Competitions Several measures were taken to minimize waste in the campus Solid waste Management and recycling on campus to be reclaimed. Grey water Recycling process will be set on campus with the help of external agency – Aqua Bio Smart, Chennai. | - | - |
| Suggestions: • Dr.S. Srisudha | | • A traditional food corner can be set up on campus through college canteen | Suggestions will be taken up | Ms. Priyadharshini Rajendren |
| Presented by Ms. Jeyakodeeswari | Development of structured curriculum for Life Frontier Engagement in all the undergraduate programs | The activities of LFE are proceeding as per the action plans. Phase I and Phase II activities are completed. Phase III needs to be implemented. | - | - |

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|--|---|---|---|------------------------------|
| Presented by Dr. Rosy Godwin | Evolving Industry-Institute Business model for each department | The suggested activities of the plan needs to be accomplished and will be presented in the next IQAC meeting. | - | - |
| Suggestions: • Principal | | <ul style="list-style-type: none"> • A database to be created on the measures taken by each Department to strengthen their industrial linkages in this academic year. • CED can also provide suitable subject specific industrial linkages for each department. • Chamber of Commerce can be contacted for enhancing industrial collaborations. • Each Department to invite industrial experts for each course in a semester to address the students. | Suggestions will be taken up | Dr. Rosy Godwin |
| Presented by Dr. V. Sri Devi | Documentation of Science Instrumentation and Infrastructure Facilities available in the College | All the details are being documented and it is in the process of printing. The Brochure will be released by this academic year. G+ printers are working for this assignment. As the photographs of the instruments are not clear, images are being downloaded from the web, for the particular variety of the instrument to enhance the quality of the images. | - | - |
| Suggestions: Dr. S. Srisudha and Dr. Christianna Singh | | The images of instruments to be printed in the brochure should be from the captured images of our own instruments housed in different labs and should not be downloaded from the web. | Suggestions will be taken up | Dr. V. Sridevi |
| Presented by Mrs. Sriilatha S. | Competency based training programs for faculty members | All the activities are completed except the training on Planning, Organising and Decision Making Skills by Dr. Anbu Rathinavel, Dean, Nalanda | | |

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|---|--|---|---|------------------------------|
| | | University, Polaris Consulting & Services Limited, Chennai, which was cancelled due to unforeseen reason. | | |
| Presented by Dr. Geetha Kanagaraj | Development of indigenous Academic Performance Index for the faculty members | The prepared format was presented. Needs to be refined, finalized and presented in the next meeting. | - | - |
| Presented by Dr. P.S. Bindhu | Integration of ICT in teaching and learning (UG & PG) | <p>The following programmes toward ICT enable teaching has been planned for the faculty members.</p> <ol style="list-style-type: none"> 1. Orientation on “ICT enabled Innovative Pedagogies for Higher Education” - on 28th March 2015 from 10.00 am to 12.00 noon. Resource Person – Dr. M. M. Pant, Founder & Mentor, Planet EDU Pvt. Ltd., Gurgaon, Haryana. 2. One Day Workshop on “Effective Pedagogy in using ICT Tools” - on 8th April, 2015. 9.30- 3.30 pm Resource Persons - <ol style="list-style-type: none"> 1. Dr. Varadharajan, Cognizants Technology Solutions, Chennai. 2. Dr. Senthil Nathan, Assistant Professor, Dept. of Educational Technology, Bharathidasan University, Trichy | - | - |
| Presented by CIT Coordinators | Implementation of Management Information System and Implementation of LMS using the open source software – MOODLE | The College automation process is in process and will be completed as per the phased plans. | - | - |

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|---|--|---|---|------------------------------|
| Presented by Ms. Janaki Ganapathy Ms. S. Pitchumani Angayarkanni | Visit to Christ University, Bengaluru | The Paper Recycling Unit, Organic Manure Unit and Water recycling unit of Christ University are well established and our college extension units on Paper Recycling and Organic manual can be upgraded based on the Christ University model. (Report appended) The Automation and Admission process was studied. Based on that a model for our college was suggested. (Process Appended) | - | - |
| Suggestions Dr. Mumtaj Begum | | <ul style="list-style-type: none"> The admission process for all post graduate course can be started from February based on the first five semesters mark sheet of the candidates The Course profile / prospectus of all UG and PG programs can be displayed in our college website for the public. | Suggestions will be taken up | Vice Principal Office |

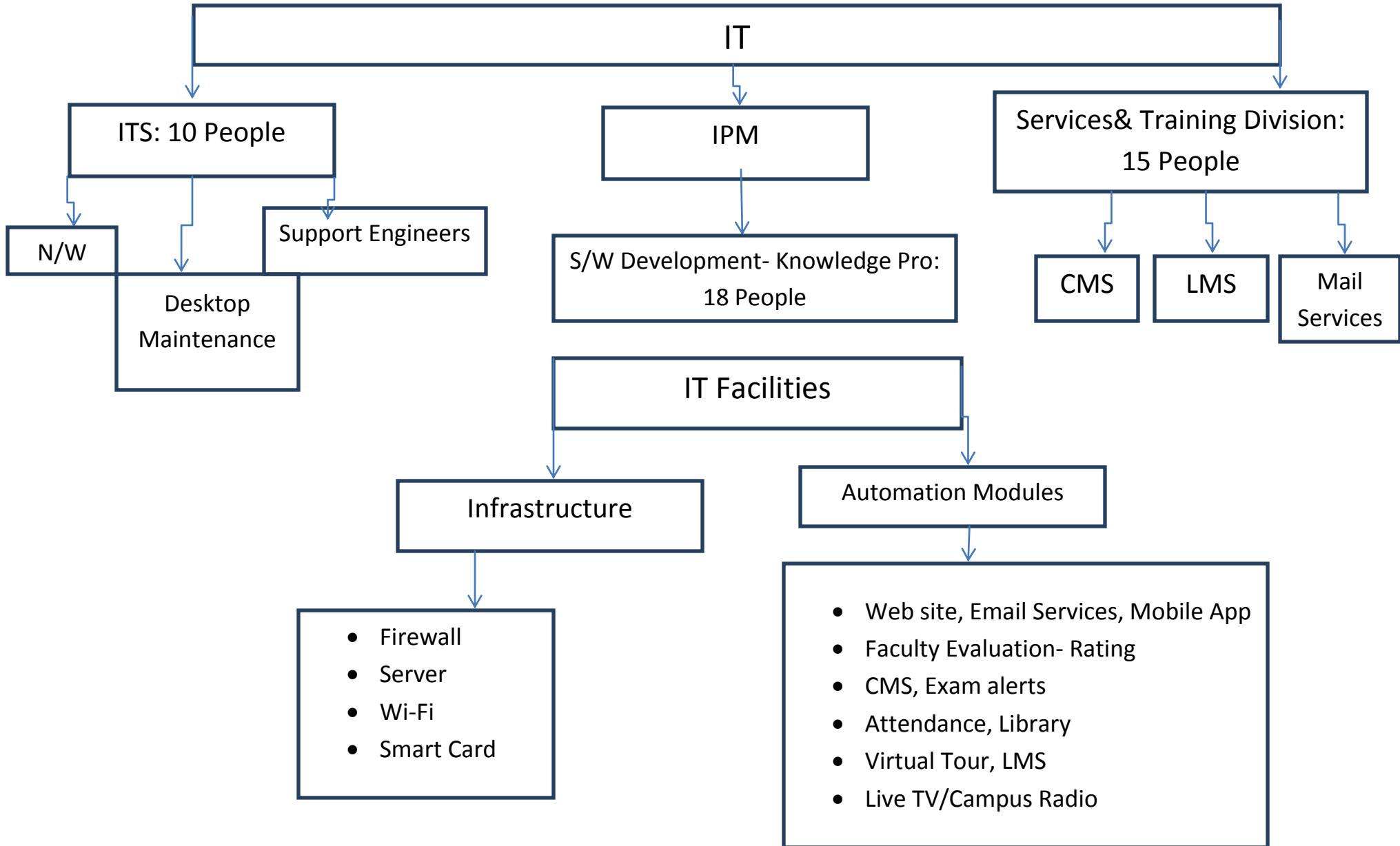
Approval of the Minutes by the Members

| Designation | Name Of The Person | Signature |
|------------------------|--|-----------|
| Chairperson | Dr. A. Mercy Pushpalatha, Principal & Secretary | |
| Co-ordinator | Dr. V. Sridevi | |
| Assistant Co-ordinator | Mrs. S. Srii Latha | |

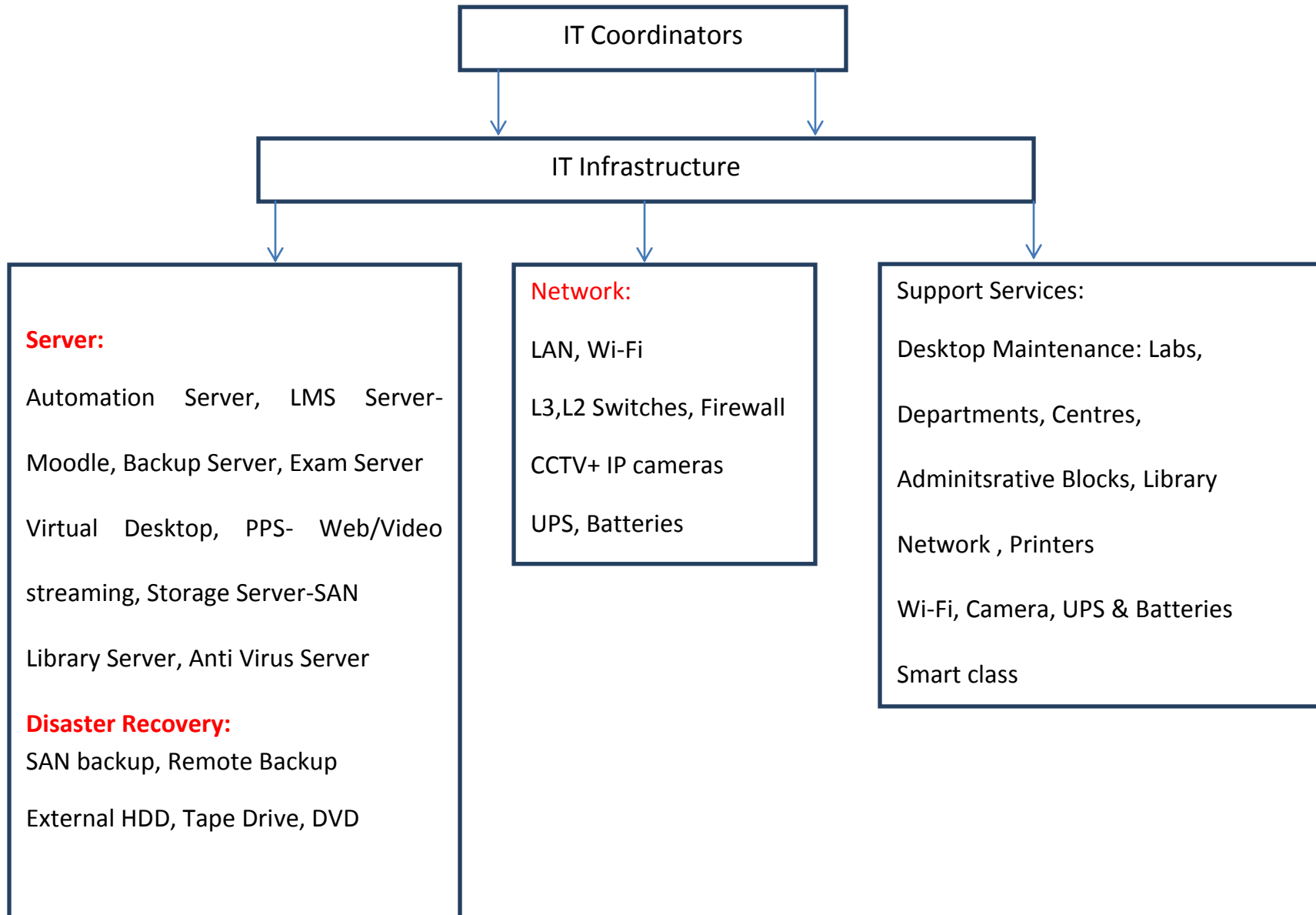
| Members: I. Faculty | | |
|--|-----------------------------|--|
| Vice-Principal | Dr. Dr. W. Isabel | |
| Bursar | Dr. P. Vanitha Malarvizhi | |
| Dean Of Academic Affairs (H) | Dr. Geetha Kanagaraj | |
| Dean Of Academic Affairs (S) | Mrs. Carmel Richard | |
| Controller Of Examinations | Dr. RM. Nagammai | |
| Additional Controller Of Examinations | Mrs. T.R. Sivapriya | |
| Dean Of Student Services | Dr. Helen Mary Jacqueline | |
| Assistant Dean Of Student Services | Ms. A. Japhne | |
| Senatus Secretary | Dr. T. Margaret | |
| Joint Convener CPEC | Dr. Srisudha | |
| Joint Convener CPEC | Dr. Christianna Singh | |
| Secretary, Faculty Association | Dr. Mercy Packiam | |
| Joint Coordinator, Centre For Information Technology | Ms. S. Padmaja | |
| Joint Coordinator, Centre For Information Technology | Ms. Pitchumani Angayarkanni | |

| | | |
|--|-----------------------|--|
| Librarian | Dr. S. Sangaranachiar | |
| Placement Officer | Ms. Vidyalakshmi | |
| II . Ex-officio Members | | |
| Dr. P. Gnanasoundari, Department of Economics | | |
| Dr. Mary Esther Rani, Department of Botany | | |
| Dr. Mumtaj Begam, Department of Economics | | |
| Dr. Shenbagarathai, Department of Biotechnology | | |
| Dr. Priyadharshini, Department of Biotechnology | | |
| Dr. Rosy Godwin, Department of Commerce | | |
| Dr. P.S. Bindu, Department of Physics | | |
| Ms. Lourdhu Mary, Department of Biotechnology | | |
| Dr. A.S. Priscilla, Department of Zoology | | |
| Mrs. Jeyakodeeswari, Department of BBA | | |
| Mrs. Anita Christine Tiphagne, Department of Social Sciences | | |
| Mrs. J. Deborah Christina, Joint Coordinator, CCM | | |
| Mrs. D. Joy Marjorie Annal, Joint Coordinator, CCM | | |

MIS – Existing Facilities



Proposed Model



Automation

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graph TD; A[Automation] --> B[Modules: Development & Maintenance]; A --> C[Support Services];
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Modules: Development & Maintenance

Website: Mail Services, Admission, Exam,

Attendance, Library Management System

Digital Archives, Log analysis, Question Bank

E assessment, Comprehensive Assessment

Academic Council, Course Registration-

Electives, Part V, MO, V. Ed., Election-

Psychometric analysis, Voting, SMS, PAY Bill/

IT , Convocation & Academic Prizes,

Fees - College, Exam & Hostel etc.

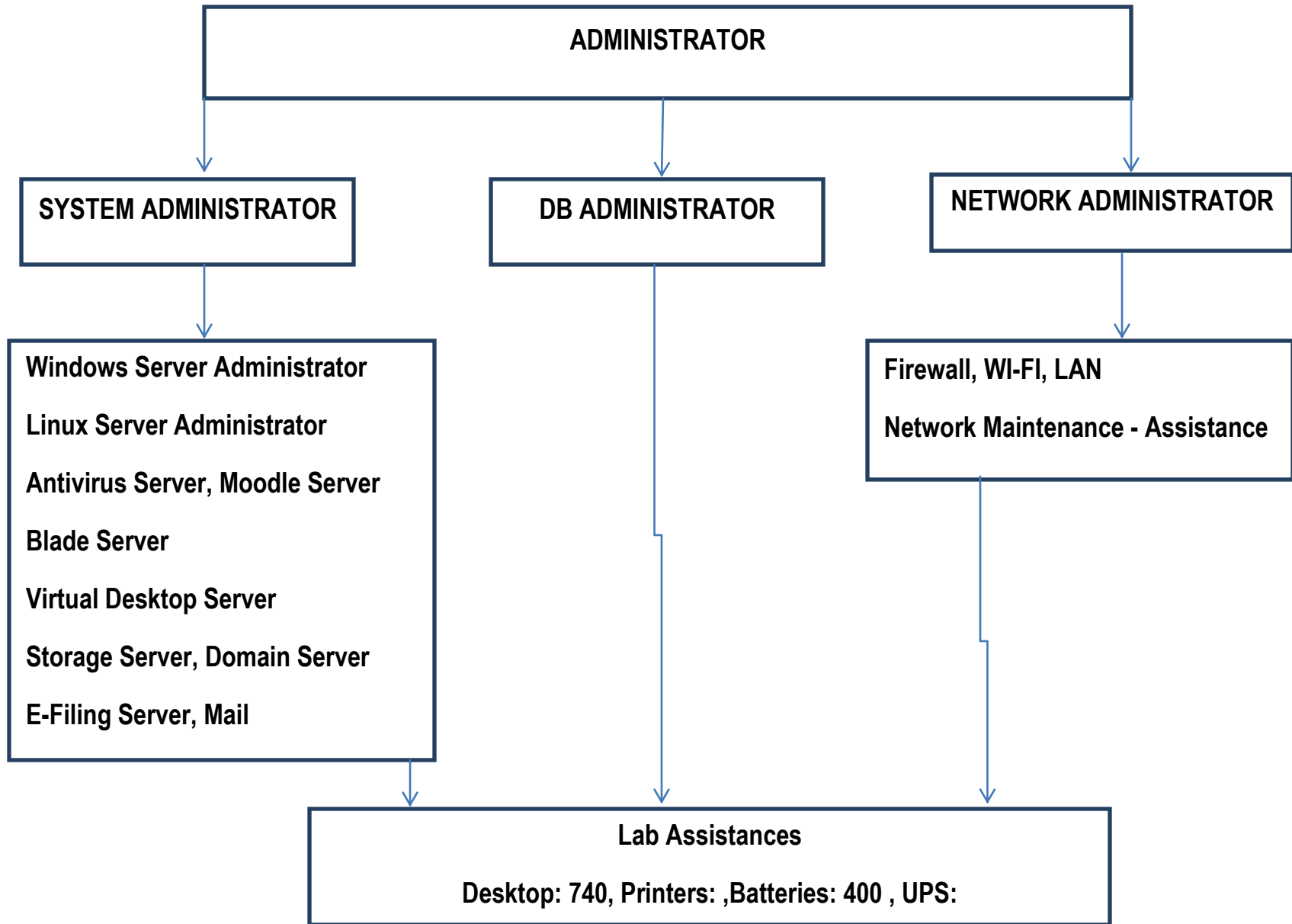
Support Services:

Data Entry Centre, ID Card, Handbook,

Magazine, Prospectus, Cumulative

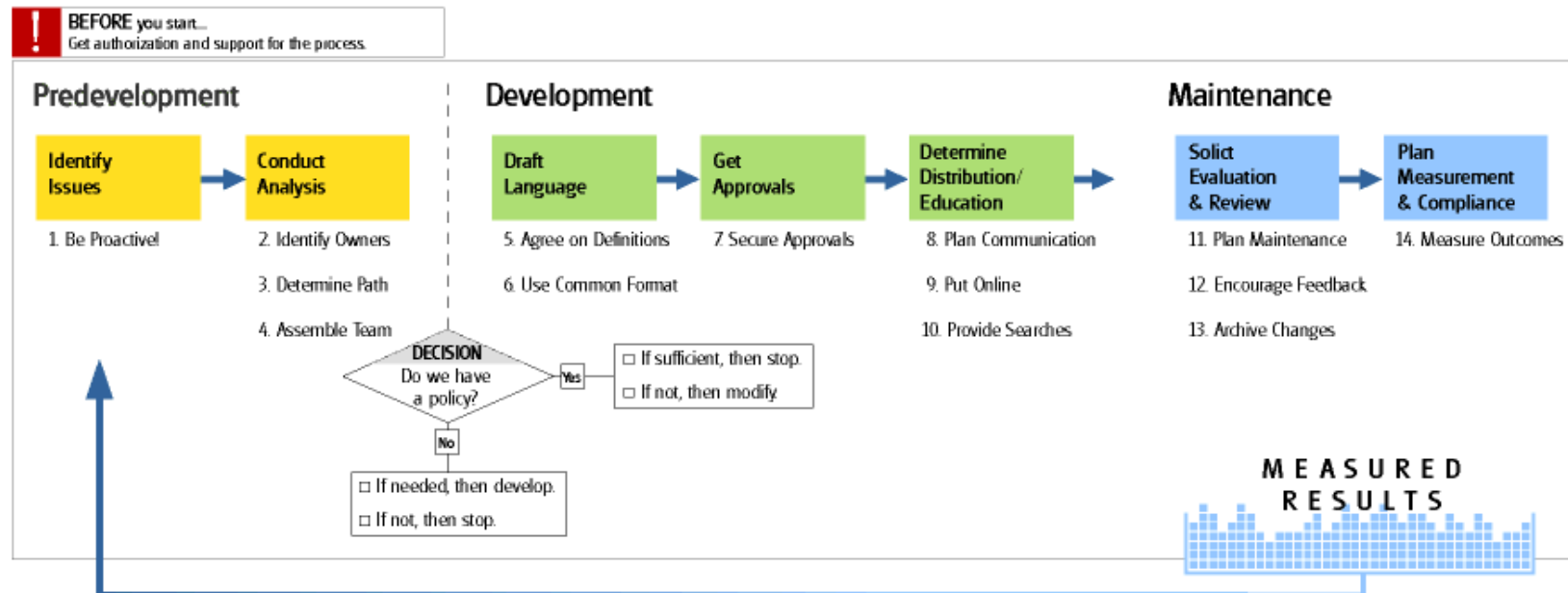
Mark sheets Printing, Readmitted

Mark sheets, Duplicate Mark sheets

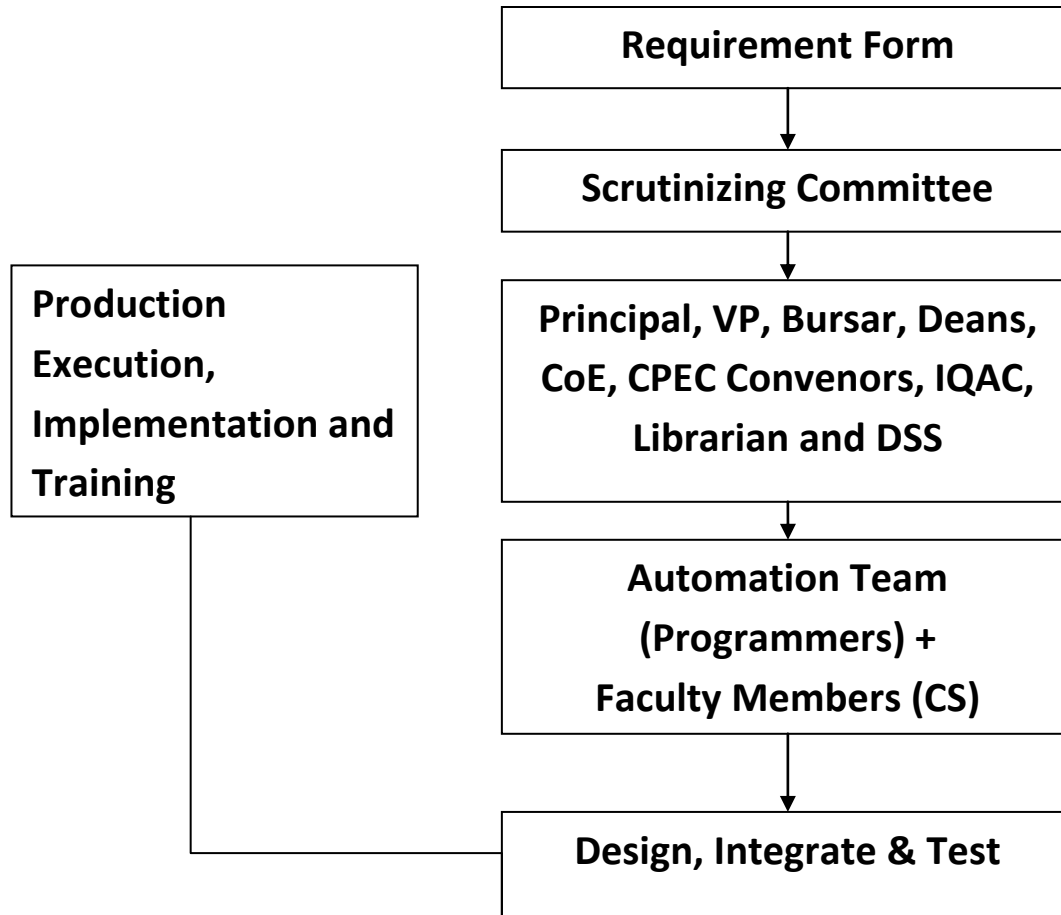


IT Policy - Automation

POLICY DEVELOPMENT PROCESS WITH BEST PRACTICES



Automation Committee



STRENGTHENING MIS

| MODULES& Maintained by | TYPE | AREAS OF IMPROVEMENT DONE | GOAL FOR 2015 | ACTION PLAN | ACTUAL OUTCOME |
|---------------------------|----------|--|---|---|---|
| ATTENDANCE | EXISTING | <ul style="list-style-type: none"> • Changes in ICM • Changes in timetable • Feed in time table • Percentage of attendance calculation • Efficiency in Condonation list Processing | <ul style="list-style-type: none"> • To develop a flexible attendance system | <ul style="list-style-type: none"> • To prepare documentation of the existing process flowchart • To device plugins to incorporate changes • To implement a dynamic page | <ul style="list-style-type: none"> • An error free percentage calculation integrated with mark sheet |
| FEES COLLECTION | EXISTING | <ul style="list-style-type: none"> • Integrating various methods of fees collection into report format for: (POS,CASH,DD etc.) into online payment • Formulating the Category Creation in SBI Site • Fees Uploading- SBI Site • Dues List Calculation • Hostel fees I Yr moved from POS – Online Payment • Hostel fees I Yr Report format month wise splitting | <ul style="list-style-type: none"> • To implement API for fees payment through Payment Gateway | <ul style="list-style-type: none"> • Signing statements between Bank-College-Third Party- In Process – Finalized by Feb 2015 | <ul style="list-style-type: none"> • An error free, highly efficient , and user friendly payment process |

| MODULES& Maintained by | TYPE | AREAS OF IMPROVEMENT DONE | GOAL FOR 2015 | ACTION PLAN | ACTUAL OUTCOME |
|-----------------------------------|-------------|---|--|---|--|
| HOSTEL ADMISSION | EXISTING | <ul style="list-style-type: none"> • Allotment of Hostels • Hostel fees Payment – POS • Report Generation | <ul style="list-style-type: none"> • The errors in the Allotment of Hostel was rectified | <ul style="list-style-type: none"> • Duplication and Improper Hostel information for PG Students was rectified | <ul style="list-style-type: none"> • Error Free System for future Admission |
| PAY BILL | EXISTING | <ul style="list-style-type: none"> • IT Calculation- Aided &Mgt • Pay Bill generation – Management • Pay Difference(Claim and Deduction) • Arrear Bill • Surrender Bill | <ul style="list-style-type: none"> • Rectified error in the existing CMS system for Management Pay bill calculation • New format for IT calculation Process was formulated for Aided Faculty | <ul style="list-style-type: none"> • To develop a Pay bill Magement system integrating the Govt. and Mgt. Formats | <ul style="list-style-type: none"> • Error Free integrated system |
| EXAM | EXISTING | <ul style="list-style-type: none"> • Proforma Entry for student profile & Department profile • Entry of marks for formative test in the department & 1 test Mark Analysis • Proforma Entry for Examines List Generation of Mark Sheet, Course Certificate, Merit Certificate | <ul style="list-style-type: none"> • Grid format for mark entry was designed and implemented | <ul style="list-style-type: none"> • The report for Exam Fees calculation – Device new mechanism to evolve the fees list for students on time. | <ul style="list-style-type: none"> • Integrated and Error Free system |

| MODULES& Maintained by | TYPE | AREAS OF IMPROVEMENT DONE | GOAL FOR 2015 | ACTION PLAN | ACTUAL OUTCOME |
|------------------------|-------------------------|--|---|---|---|
| e-Assessment | EXISTING | <p>Part A (Objective type)</p> <ul style="list-style-type: none"> • UG-I & II year(Only Major & Allied) • IIPG & III UG- e- Comprehensive <p>e-Question Bank</p> <ul style="list-style-type: none"> • Questions Entry • Generation of Questions • Updating Question Bank | <ul style="list-style-type: none"> • Transparency for e-Assessment was incorporated – Check the score and Answers • Concept based Question Setting , Blue Print and Question Generation | <ul style="list-style-type: none"> • Incorporated transparency in e-assessment • Concept based QS in incorporated | <ul style="list-style-type: none"> • Error free e-Assessment Process |
| e-Election | EXISTING and New Module | <ul style="list-style-type: none"> • 2013-2014 • Psychometric Test- Personality and Leadership Assessment • Report Generation • Cabinet Election – Psychometric analysis • 2014-2015 • NEO Five-Facto Inventory-3 Test • Report Generation based on NEOAC T- Scores • Cabinet Election – NEO analysis | <ul style="list-style-type: none"> • Incorporated the following requirement by developing a new system | <ul style="list-style-type: none"> • Coding for Report generation and analysis was formulated | <ul style="list-style-type: none"> • Error free system |

| MODULES& Maintained by | TYPE | AREAS OF IMPROVEMENT DONE | GOAL FOR 2015 | ACTION PLAN | ACTUAL OUTCOME |
|-----------------------------------|-------------------------|---|--|---|--|
| e-Library | EXISTING and New Module | <ul style="list-style-type: none"> • Library Management System • Barcode Reader • Auto Generation of Access No. and Book Details for Editing • Simultaneous implementation of VB to ASP.NET • Digital Archive • Server and Library Log analysis • Open Access Inhouse journal | <ul style="list-style-type: none"> • Implementation is in Progress • Digital Archives – Completed and in Testing Process • Server and Library Log analysis is in testing process • Open Access Journal- Incorporated | <ul style="list-style-type: none"> • To integrate the entire modules under LMS | <ul style="list-style-type: none"> • Integrated and user friendly LMS systems |
| e-Registration of courses | EXISTING and New Module | <ul style="list-style-type: none"> • Short-term • Value Based courses • Elective • Major Optional • Extension Program | <ul style="list-style-type: none"> • Program Logic was reframed for NME and VBC Registration | | <ul style="list-style-type: none"> • Integrated User Friendly Registration Process |
| e-Postage | Existing & New Module | <ul style="list-style-type: none"> • Ordinary Post • Book Post • UnRegistered Parcel • Air Mail | <ul style="list-style-type: none"> • Retrieving the address for postage from ASP and incorporate to ASP.NET | <ul style="list-style-type: none"> • Module developed and Tested | <ul style="list-style-type: none"> • Integrating existing and new system |
| e-Booking of Halls | Existing & New Module | <ul style="list-style-type: none"> • Open Air Theatre • Lunch Pavilion • Multimedia Theatres • GJ Auditorium • JX Miller Auditorium | <ul style="list-style-type: none"> • Maintenance by rectifying the drawback in booking the rooms • New Module for | <ul style="list-style-type: none"> • New module is under construction | <ul style="list-style-type: none"> • Integrating the smart class rooms and performing the statistical analysis of utilization |

| | | | | | |
|--------------------------|-----------------------|---|---|--|---|
| | | <ul style="list-style-type: none"> • Oval Room • Clapp Hall • Guest Rooms • Photographer • Videographer • LED Monitor Rooms – Stock Entry and utilization | LED monitor utilization and stock entry | | |
| e-Admission | Existing & New Module | <ul style="list-style-type: none"> • Online Application • Form Entry • Generating Rank List • Generation of Admission slip • Integrating Fees Payment and ID card generation • Integrating hostel with admission module • New: Online Fees Payment | <ul style="list-style-type: none"> • Creating module for integrating API for online fees payment | <ul style="list-style-type: none"> • Testing by Feb2015 | <ul style="list-style-type: none"> • To impart an error free admission process |
| Dean of Academic Affairs | Existing & New Module | <ul style="list-style-type: none"> • Academic council Book • Course wise Syllabus • Evaluation Pattern • Faculty Feedback • Student Feedback | <ul style="list-style-type: none"> • Drawback in the updation process was rectified | <ul style="list-style-type: none"> • To integrate the upcoming boards of studies material and perform testing • Integrating the evaluation pattern with proforma-I | <ul style="list-style-type: none"> • Integrated and formatted academic council booklet without error |
| Faculty Profile | New Module | <ul style="list-style-type: none"> • Faculty biodata • Faculty time Table • Faculty Onduty application • Submitting Reports and Approval of Leave | <ul style="list-style-type: none"> • Design an Integrated Faculty Management System Module | <ul style="list-style-type: none"> • Design Module for Faculty Biodata with Personal and Academic Aspects • Submission of OD through Online | <ul style="list-style-type: none"> • Detailed Faculty Information system |

| | | | | | |
|--|------------|---|---|---|--|
| | | | | <ul style="list-style-type: none"> Approval at various category based on proper report submission Deadline: To be completed by May 2015 | |
| Course Management System | New Module | <ul style="list-style-type: none"> Admin Setting Privileges Setting for Faculty Allotment of QMS File Maintenance Template for concept based workplan Attaching appropriate files under each QMS category Integrating MOODLE with this module | <ul style="list-style-type: none"> Collection of software tools providing an online environment for course interactions | <ul style="list-style-type: none"> To be tested and implemented by JAN 2016 | <ul style="list-style-type: none"> To perform ontime completion of maintenance of details |
| Student Information System Ms.Angeline & Ms.Karthika | New Module | <ul style="list-style-type: none"> To Fetch Pre-Define data of student Handling inquiries from prospective students Handling the admissions process Enrolling new students Automatically creating class & teacher schedules Handling records of examinations, assessments, marks, | <ul style="list-style-type: none"> In Process | <ul style="list-style-type: none"> To be tested and implemented by MARCH 2016 | <ul style="list-style-type: none"> To meet the information needs of the students/parents |

| | | | | | |
|--|--|---|--|--|--|
| | | <p>grades and academic progression</p> <ul style="list-style-type: none"> • Maintaining records of absences and attendance • Recording communications with students • Maintaining discipline records • Providing statistical reports • Maintenance Hostel/Dorm Management • Communicating student details to parents through a parent portal • Human resources services • Student health records • Transportation Management • Fees Management • Student Achievements • Template for Advisor to maintain records of their Advisee | | | |
|--|--|---|--|--|--|

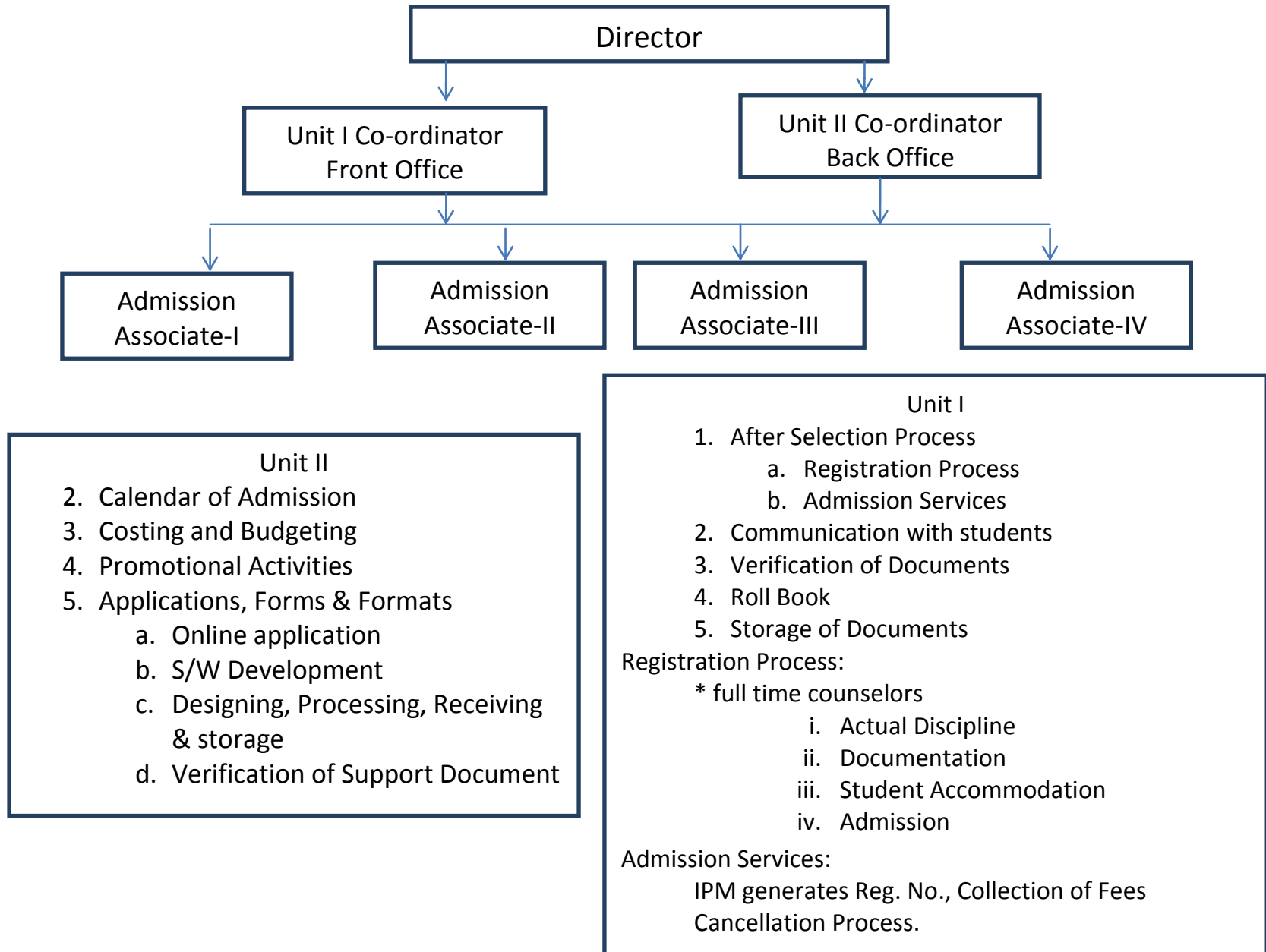
Total no. of Modules: 19

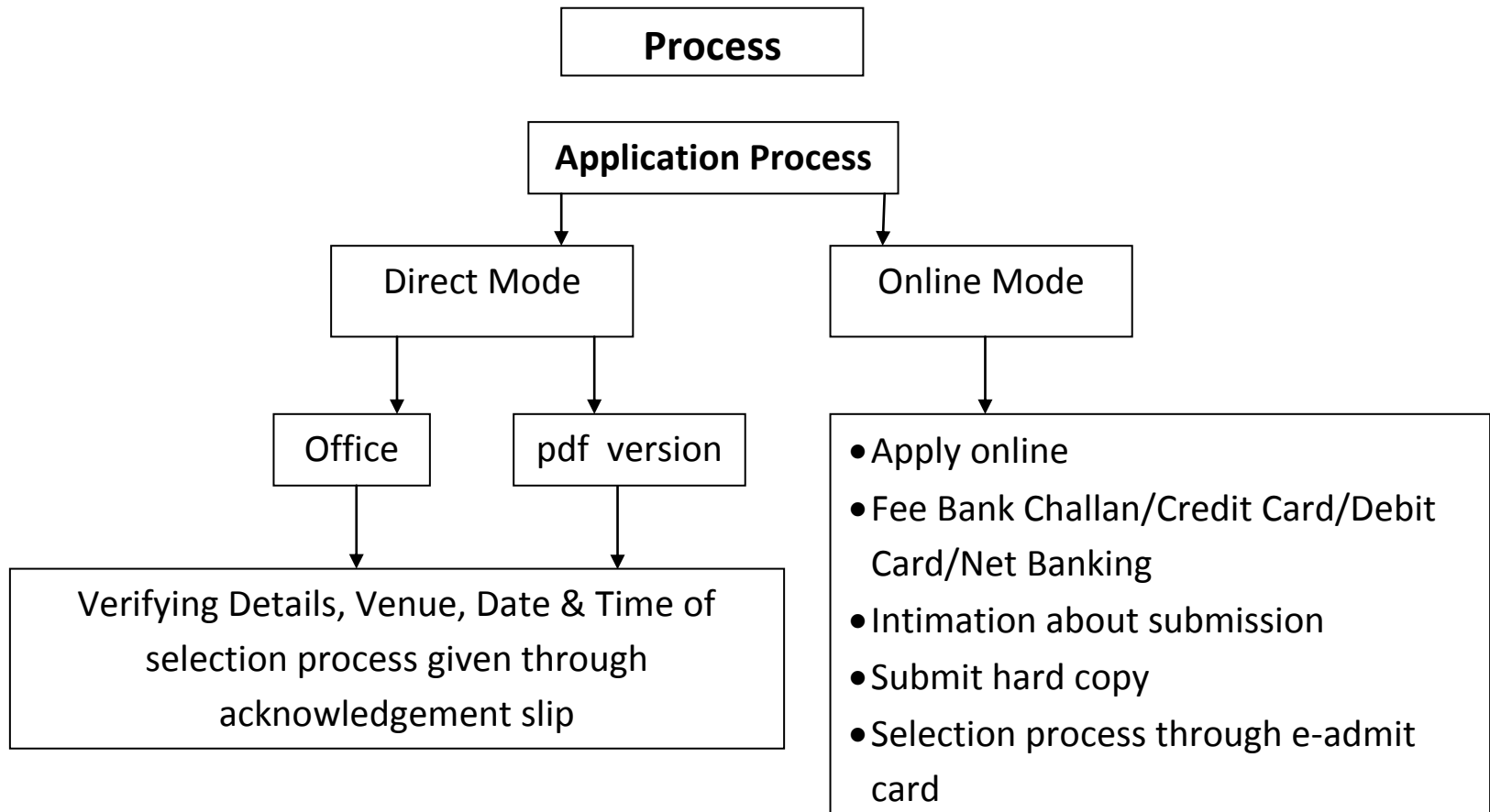
Note: Maintenance of existing system and development

Christ University – Model

Centralized Admission

Standard Operating Procedures:





Curriculum Planning

- Center for Education beyond curriculum
- NAAC Parameters
- R&D – Vibrant & Dynamic
- Curriculum Development Cell
- Co-ordinators- Compile, Draft of Syllabus , 10-15% changes allowed -3 yrs
- Bottom to top approach in curriculum planning
- Market Features to be taken into account
- Identify external Experts-Regional & National level
- Relevant to societal needs to be considered
- Scope to expand

Curriculum

Triple Major Courses

Honours: Introduced in third year

Trimester- MBA

Formative + Summative - 50% + 50%

Short term courses – Industry

Team Teaching

Benchmark with other Dept.

Research Centre- Quality Publication

Grading system

Mark for Attendance – 5M

Retest – 15% reduction in mark

Lack of Attendance– Extra Work

LADY DOAK COLLEGE
CENTER FOR ENVIRONMENTAL STUDIES
EXPOSURE VISIT TO CU
Christ University, Bangalore

Members:

Dr. Christianna Singh

Dr. Carmel Richard

Dr. Geetha Kanagaraj

Mrs. Angayar Kanni

Mrs. Janaki Ganapathy

We had gone to Christ University for exposure visit on January 10th, 2015.

Christ University at Bangalore is a bench mark for Zero waste campus. They have followed certain strategies for maintaining a Zero waste campus.

- Centre for social action (CSA)

Christ University has institutionalized the ideology of social responsibility among the student community by setting up the centre for social action.

- Parivarthana Project

Parivarthana is a community based solid waste management project implemented by Centre for social action (CSA)

The project aims at creating a Zero waste zone in the slums and the campus through proper collection of segregated waste and recycling it. This project is managed by common interest groups (CIGs) of women from the slums and the proceeds are used for their sustainable livelihood which in turn sustains the community based solid waste management programme.

1. Recycled Handmade paper product unit:

The unit was established in Christ university campus which helps in recycling waste paper into various eco-friendly paper products like files, covers, bags, invitations, certificates and gift boxes. The whole university uses the handmade paper products for various purposes. Christian University has adopted two slums and women folk are employed to manage and market the products derived from the waste paper.

2. Organic Compost Unit:

From the Christian University, they collect dry leaves and fruit waste from the juice corner and compost it. There are four big tanks. They add Bio-inoculum to the water and sprinkle it on the compost daily. To reduce the bad odour they use charcoal on the top layer and prepare natural manure for the Christian University campus garden and also market it.

3. Bio-methanation Plant:

The canteen waste (Food waste) is mixed with water used for Piggery unit cleaning and washing and then sent to the bio gas plant tank.

Anerobic fermentation → Methane → Biogas

4. Water Recycling plant – Sewage Treatment plant

In the Christ University, they are maintaining a very good treatment plant

- Screening Chamber
- Collection tank
- Setting tank
- Clarified water storage tank

PSF → ACF → Ivigation → Recycling → SDB sludge dring bad

(Machine – Blower inger soll Rand)

Merits of Christ University

- More space
- Adopting village / slum
- Easy labour force
- Marketing the products (Market)
- Income generation
- Sustain the environment

Based on this ideas

- In our college we had paper recycling unit but there was no permanent workers. Marketing the product is also very less.
- Bio-Methanation plant and Water recycling plant – sewage treatment plant in the satellite campus at Vellichanatham.
 - Purchasing of wind Mill

Report prepared by
JANAKI GANAPATHY
Department of Economis &
Co-convenor, Centre for Environmental Studies
Lady Doak College