

# **UNION CHRISTIAN COLLEGE, ALUVA**

## **CENTENARY CELEBRATIONS 2021-'22**

### **School of Computer Applications**

#### **Project Proposals**

Union Christian College, Aluva started the MCA programme which is a job-oriented technical programme approved by the All India Council for Technical Education (AICTE) in the year 2001 with sanctioned intake 60. It is affiliated to Mahatma Gandhi University, Kottayam. It is functioning in the self-financing mode. For the past twenty years the demand ratio of this technical programme is high compared to most of the neighbouring institutions which is indicative of the quality of education imparted here. A good number of alumni occupy very senior positions in several IT industry establishments. A good rapport between industry and Institute is essential for the sustainment of such technical programmes.

As Union Christian College, Aluva enters into the centenary year of its establishment, various projects have been planned and designed for implementation to satisfy various stake holders and enhance the goodwill of this institution. Some of the projects are aimed at revamping the administrative setup to make the office fully automated and echo-friendly. Few projects are aimed at improving the Industry-Institute relationship utilizing the support given by the alumni working as IT professionals.

The student community of this institution need support to attain hands on experience and understand the job requirements in the industrial sector. Several projects planned need technical know-how and man power and for that the MCA students can contribute a lot which can be considered as equivalent to internship done elsewhere. Familiarisation of the latest technology used in industry and different platforms used there is essential to make them industry ready.

The faculty members need to update their knowledge abreast with the current technology and for that variety of faculty development programmes are planned as part of this centenary celebration.

The society surrounding this institution expects some benefit by the existence of this institution here. We can share the infrastructure, knowledge and even extend small financial support to selected educational institutions at the school level. Few programmes are planned as extension activities to serve the society especially the under privileged and weaker sections of the society.

Another important aspect we considered important is the kind of charity work we did earlier to train our students to be more committed to society. All the above projects planned are aimed at making students more committed to society and enjoy learning and attain greater heights in their carrier.

## **Action Plan of the projects in detail**

### **I. Revamping the administrative setup**

If the governance of an institution is modernized through office automation and if the feedback collection from various stake holders is effective, corrections can be implemented which makes our institution more efficient and student friendly. Almost all processes in the institution need to be automated. For this the modern policy is “create anywhere, and access at one point”. All documents related to the department can be stored in the cloud, which ultimately make the office paperless. Access to these documents can be permitted to various stake holders by granting permission at different levels. Software applications to implement the automation process will be developed indigenously with the help of students which will be a challenging experience to the students. All processes related to office viz. updating attendance, class monitoring, feedback collection from various stake holders, test and evaluation, purchase and stock etc. can be made fully automatic.

All software products developed with the help of students will be stored in a repository which can be shared with the society on demand against donations which can be a future source of income for charity works. The premises of the department also need modernization. The campus greening efforts will be made more extensive by planting trees, setting up vegetable garden, herbal garden and butterfly garden. Hand in hand with this we have ample scope for setting up beehives in the garden which can be another source of income and source of inspiration to the youth.

### **OFFICE AUTOMATION PROCESS**

Task Planned	July2020-Nov.2020	Dec 2020-Feb 2021	Mar 2021-June 2021	July 2021-Oct 2021	Nov 2021-Feb 2022	Mar 2022-June 2022
App to Monitor Attendance						
App to Monitor Class						
App to Collect feedback						
Setup Cloud Storage facility						
Set Up App Repository						
App to Update Stock and Purchase register						

### **CAMPUS GREENING EFFORTS**

Task Planned	July2020-No v.2020	Dec 2020-Feb 2021	Mar 2021- June 2021	July 2021- Oct 2021	Nov 2021- Feb 2022	Mar 2022- June 2022
Planting Trees						
Setting up vegetable Garden						
Set Up Herbal Garden						
Setup Butterfly Garden						
Install Beehives						

## II. Student support programmes.

Best academic atmosphere, skill development and employment oriented training are very essential to satisfy the needs of the student community. Slow learners are to be supported by sharing video lectures, question banks and answers to typical questions in time. Evaluation process will be improved to make students feel more comfortable and confident in their studies. Students will have to be given proper training to equip them to develop software applications required for the suggested office automation and we can seek the help of our rich group of alumni. Webinars, job trainings and placement related works will be made more effective to increase placements. Participation of students in various state level and National level technical competitions viz. Hackathon, Fests will be ensured. Student development programmes (SDP) of duration one week will be organized to equip the students to implement successfully the entrusted tasks. This year itself an online support forum and a Youtube channel will be launched to support learning processes of internal as well as external students. The faculty and interested students can interact to the queries posted by others.

### STUDENT SUPPORT ACTIVITIES

Task Planned	July2020-N ov.2020	Dec 2020-Fe b 2021	Mar 2021- June 2021	July 2021- Oct 2021	Nov 2021- Feb 2022	Mar 2022- June 2022
Webinar series	7 Webinars conducted					
Video content creation	Already started					
Job Oriented Training						
Launching Youtube channel						
Student Support Forum						
Smart India Hackathon						
Student Develop. Program (SDP)						
Participation in Technical Fests						
Question and Answer Bank						

## III. Faculty development Programmes

A series of lectures by well placed techies will be organised to share the expectations of the industry to suitably implement the training programmes. Technical lecture sessions so arranged will be encouraging to our alumni and they will consider it an honour to face the student community here. In turn they can support our students by guiding project works, helping us to arrange technical visits, offering training sessions and enhancing placement activities.

Periodic industrial visits and knowledge sharing sessions are expected from neighbouring industrial establishments. All sorts of support will be extended to the faculty members for developing their interpersonal skills, communication skills and technical skills. Awareness of the latest trends in the industrial sector and technology will be made available by organizing national/international seminars/conferences/workshops and various funding agencies like DST/AICTE/KGSTE etc will be approached for financial support.

#### **FACULTY DEVELOPMENT PROGRAMMES**

Task Planned	July2020-Nov. 2020	Dec 2020-Feb 2021	Mar 2021- June 2021	July 2021- Oct 2021	Nov 2021- Feb 2022	Mar 2022- June 2022
Research Promotion						
FDP Participation/Organisation						
Conferences						
Training Programmes						
Workshops						
Technical Publications						
Funded Projects						
Invited Lectures by Faculty						

#### **IV. Outreach activities**

Computer awareness classes will be given to children of neighbouring schools with the help of students and faculty to create interest in them and to attract them to the field of Computer science. They can also be given opportunity to visit and use our labs to know more about the latest software packages under use.

Software apps or packages developed by our students suitable for distribution among the general public can be provided freely against donations which reduces their cost of purchasing software packages direct from industries. Money thus obtained can be utilised for charity work.

This year onwards the School of Computer Applications decided to publish Newsletter and College magazine which includes quality articles from techies, students and faculty members after proper peer review. Photographs of high scorers and achievers, campus placed students and leaders of various cells will be published to motivate them.

## OUT REACH ACTIVITIES

Task Planned	July2020-Nov.2020	Dec 2020-Feb 2021	Mar 2021-June 2021	July 2021-Oct 2021	Nov 2021-Feb 2022	Mar 2022-June 2022
Computer awareness Class in Schools						
Development of Software for public						
One day campus visit facility						
Carrier orientation to MCA Aspirants						
Training for Under Graduates						
Industry visits & Faculty Tour						

## Campus radio

School of Computer Applications wishes to set up an Internet radio station to make the students aware of its technical issues and software involved. It is suggested to use only for academic purposes to share knowledge about its technical side and spread the importance and applications of various technical programmes offered by Union Christian College in the self-financing mode. School of Computer Applications will decide and control the programmes to be telecasted. Since the college need a full-fledged facility for recording video lectures it will not be too expensive to setup a radio station for future use.

## General Development Suggested

Task Planned	July2020-Nov.2020	Dec 2020-Feb 2021	Mar 2021-June 2021	July 2021-Oct 2021	Nov 2021-Feb 2022	Mar 2022-June 2022
Set up Campus Radio Station						
Setup a Video Recording Station						