

**DEPARTMENT OF  
COMPUTER SCIENCE & APPLICATIONS**

# **Collaborations**



**Pingle Govt. College for Women (A), Waddepally**  
**AUTONOMOUS**  
**HANUMAKONDA -506370, TELANGANA**



## **Faculty Linkages**

Collaboration in higher education is the teaming up of two or more institutions of higher learning to work together towards sharing educational and research dreams, achieving common goals, and enhancing collective effort in meeting educational needs in focus. Collaboration between institutions of higher learning has long been part of accepted practice

Collaboration and linkage between institutions of higher learning offers increased opportunities for improving skills and competencies of students, and enhance the quality of national higher education system. Collaboration and team work among universities create an environment that allows the knowledge, resources and skills of each team member to flourish.

Consult each other as they develop human resource, keep personnel data base, and encourage exchange of human resource without necessarily transferring them from one University to another;

Institutions of higher learning should communicate to their fellow administrators and lecturers on collaboration arrangements and procure within and without the institutions;

Universities should be open to each other while developing programmes and personnel in order to help each other source experts from among themselves and lift each other.

### **FACULTY EXCHANGE PROGRAMS**

The faculty exchange programs would provide participants with the opportunity to teach or conduct research for one semester or an academic year at an overseas university. Faculty members would benefit from exposure to a culturally varied and diverse faculty make-up, with an opportunity to exchange ideas and observe a variety of styles.

The faculty exchange program is one way to take advantage of the benefits of diverse faculty. Ultimate goal of educational institutions is to develop a vibrant and diverse faculty. This process, however cannot take place overnight.

It occurs slowly, one or two faculty members at a time. The need for rich variety of ideas, cultures, thoughts, and styles, however, is immediate. In order to facilitate the process, institutions can develop plans for a faculty exchange programs. The benefit will be immediate, and students will have the opportunity to learn concepts and ideas presented in an entirely new and different manner.

The faculty exchange programs present a unique opportunity for interaction between institutions. They will create a greater bond among the concerned institutions and will be a powerful recruitment and retention tool.

MEMORANDUM OF UNDERSTANDING

DEPARTMENT OF COMPUTER SCIENCE & APPLICATIONS  
PINGLE GOVT. COLLEGE FOR WOMEN, WADDEPALLY, WARANGAL(U)

&

DEPARTMENT OF COMPUTER SCIENCE & APPLICATIONS  
GOVERNMENT DEGREE COLLEGE, JAMMIKINTA

FOR THE DEVELOPMENT OF ACADEMIC COOPERATION IN QUALITY EDUCATION


The broad objective of this Memorandum of Understanding (MOU) for One year (2020-2021) between Department of Computer Science & Applications, Pingle Govt. College for Women, Waddepally, Warangal(U) and Department of Computer Science & Applications, Government Degree College, Jammikunta is to stimulate and facilitate the development of collaborative and mutually beneficial programs in these two Institutions. This will enhance the Academic Cooperation in providing Quality Education for the benefit of the students studying in both the institutions.

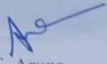
The two Educational Institutions will:

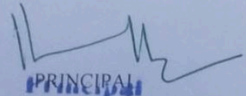
Cooperate in the exchange of information relating to their activities in teaching and research in fields of mutual interests.

- Promote appropriate joint study/research projects and joint courses of study, with particular emphasis on government/NGO funded projects.
- Endeavor to encourage students and staff to spend periods of time in both the institutions. The exchange of students will be dependent on the execution of a formal Student Exchange Agreement prior to commencement of the activity.
- Conduct Faculty Exchange Programme / short term courses/ value added courses /add-on courses/field projects.
- Internships, as mutually agreed in writing between the parties prior to commencement of the activity.
- Conduct environmental/academic/sports and games /cultural projects, as mutually agreed memorandum in writing between the parties prior to commencement of this activity.
- Conduct study tours, as mutually agreed in writing between the parties prior to commencement of this activity.

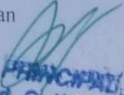
The aim of the Memorandum of this Understanding shall be to achieve a broad balance in the respective contributions and benefits of the collaboration, and this shall be subject to periodic review by both the institutions.

  
P.Ravi Prakash Rao  
Department of Computer Science & Applications  
Government Degree College, Jammikunta

  
Smt. T. Aruna  
Department of Computer Science & Applications  
Pingle Govt. College for Women, Waddepally

  
PRINCIPAL  
Government Degree College  
Jammikunta, Karimnagar-Dist  
Jammikunta, Dist. Karimnagar

PRINCIPAL  
Pingle Govt. College for Women, Waddepally  
Warangal Urban

  
PRINCIPAL  
Pingle Govt. College for Women  
(Accredited with 'A' Grade by NAAC)  
Waddepally, Warangal - 506 370

MEMORANDUM OF UNDERSTANDING

DEPARTMENT OF COMPUTER SCIENCE & APPLICATIONS  
PINGLE GOVT. COLLEGE FOR WOMEN, WADDEPALLY, WARANGAL(U)

&

DEPARTMENT OF COMPUTER SCIENCE & APPLICATIONS  
GOVERNMENT DEGREE COLLEGE, NARSAMPET

FOR THE DEVELOPMENT OF ACADEMIC COOPERATION IN QUALITY EDUCATION

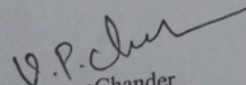
From 2021-22 to 2024-25  
The broad objective of this Memorandum of Understanding (MOU) between Department of Computer Science & Applications, Pingle Govt. College for Women, Waddepally, Warangal(U) and Department of Computer Science & Applications, Government Degree College, Narsampet is to stimulate and facilitate the development of collaborative and mutually beneficial programs in these two Institutions. This will enhance the Academic Cooperation in providing Quality Education for the benefit of the students studying in both the institutions.

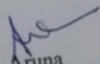
The two Educational Institutions will:

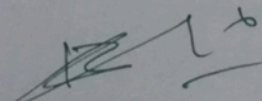
Cooperate in the exchange of information relating to their activities in teaching and research in fields of mutual interests.

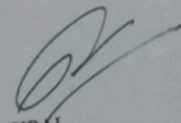
- Promote appropriate joint study/research projects and joint courses of study, with particular emphasis on government/NGO funded projects.
- Endeavor to encourage students and staff to spend periods of time in both the institutions. The exchange of students will be dependent on the execution of a formal Student Exchange Agreement prior to commencement of the activity.
- Conduct Faculty Exchange Programme / short term courses/ value added courses /add-on courses/field projects.
- Internships, as mutually agreed in writing between the parties prior to commencement of the activity.
- Conduct environmental/academic/sports and games /cultural projects, as mutually agreed memorandum in writing between the parties prior to commencement of this activity.
- Conduct study tours, as mutually agreed in writing between the parties prior to commencement of this activity.

The aim of the Memorandum of this Understanding shall be to achieve a broad balance in the respective contributions and benefits of the collaboration, and this shall be subject to periodic review by both the institutions.

  
V. PoornaChander  
Department of Computer Science & Applications  
Government Degree College, Narsampet

  
Smt. T. Aruna  
Department of Computer Science & Applications  
Pingle Govt. College for Women, Waddepally

  
PRINCIPAL  
Government Degree College, Narsampet  
Warangal Rural  
**Principal**  
**Govt. Degree College**  
Narsampet, Warangal (R)-506 132

  
PRINCIPAL  
Pingle Govt. College for Women, Waddepally  
Warangal Urban  
**Principal**  
Pingle Govt. College for Women  
Waddepally, Warangal - 506 370.

MEMORANDUM OF UNDERSTANDING

DEPARTMENT OF COMPUTER SCIENCE & APPLICATIONS  
PINGLE GOVT. COLLEGE FOR WOMEN, WADDEPALLY, WARANGAL(U)

&

DEPARTMENT OF COMPUTER SCIENCE & APPLICATIONS  
GOVERNMENT DEGREE COLLEGE, JAMMIKINTA

**FOR THE DEVELOPMENT OF ACADEMIC COOPERATION IN QUALITY EDUCATION**

The broad objective of this Memorandum of Understanding (MOU) for Three years (2021-2024) between Department of Computer Science & Applications, Pingle Govt. College for Women, Waddepally, Warangal(U) and Department of Computer Science & Applications, Government Degree College, Jammikunta is to stimulate and facilitate the development of collaborative and mutually beneficial programs in these two Institutions. This will enhance the Academic Cooperation in providing Quality Education for the benefit of the students studying in both the institutions.

The two Educational Institutions will:

Cooperate in the exchange of information relating to their activities in teaching and research in fields of mutual interests.

- Promote appropriate joint study/research projects and joint courses of study, with particular emphasis on government/NGO funded projects.
- Endeavor to encourage students and staff to spend periods of time in both the institutions. The exchange of students will be dependent on the execution of a formal Student Exchange Agreement prior to commencement of the activity.
- Conduct Faculty Exchange Programme / short term courses/ value added courses /add-on courses/field projects.
- Internships, as mutually agreed in writing between the parties prior to commencement of the activity.
- Conduct environmental/academic/sports and games /cultural projects, as mutually agreed memorandum in writing between the parties prior to commencement of this activity.
- Conduct study tours, as mutually agreed in writing between the parties prior to commencement of this activity.

The aim of the Memorandum of this Understanding shall be to achieve a broad balance in the respective contributions and benefits of the collaboration, and this shall be subject to periodic review by both the institutions.



P.Sushma & P.Ravi Prakash Rao  
Department of Computer Science & Applications  
Government Degree College, Jammikunta



Smt. T. Aruna  
Department of Computer Science & Applications  
Pingle Govt. College for Women, Waddepally



PRINCIPAL  
Principal  
Government Degree College  
Jammikunta, Karimnagar-Dist  
Jammikunta, Dist. Karimnagar



PRINCIPAL  
Pingle Govt. College for Women, Waddepally  
Warangal Urban

PRINCIPAL  
Pingle Govt. College for Women, Waddepally  
(Accredited with 'A' Grade  
Waddepally, Warangal - 504517)



# PINGLE GOVT. COLLEGE FOR WOMEN (AUTONOMOUS)



WADDEPALLY, DIST. HANUMAKONDA, T.S. 506 370

Accredited by NAAC with 'A' Grade : ISO 9001 : 2015 Certified Institution  
Permanently Affiliated to Kakatiya University. Mobile : +91-9849551559

Email : wgl.jkc.pgdc@gmail.com

Website : www.gdcts.cgg.gov.in/hanamkondawomen.edu

**Prof. B. Chandramouli** M.Sc., Ph.D.

Principal

&

Executive Council Member  
Kakatiya University

Date : 23.09.2022

## MEMORANDUM OF UNDERSTANDING

DEPARTMENT OF COMPUTER SCIENCE/APPLICATIONS

PINGLE GOVT. COLLEGE FOR WOMEN (AUTONOMOUS)

WADDEPALLY, HANUMAKONDA

AND

DEPARTMENT OF COMPUTER SCIENCE/APPLICATIONS, TELANGANA  
TRIBAL WELFARE RESIDENTIAL DEGREE COLLEGE FOR GIRLS,  
JANAGAON.

### FOR THE DEVELOPMENT OF ACADEMIC COOPERATION IN QUALITY EDUCATION

The bond-spectrum objective of this Memorandum of Understanding (MOU) is to stimulate and facilitate the development of collaborative and mutually beneficial programmes which serve to enhance the intellectual life and cultural development on both the platforms of the students studying in these public funded institutions/organizations, and for the contribution for increased Academic cooperation in Quality Education for the benefit studying in both the institutions.

1 The two Educational institutions will:

- Cooperate in the exchange of information relating to their activities in teaching and research in fields of mutual interests.
- Conduct certificate courses to students, conduct joint conferences and workshops.
- To conduct awareness sessions on emerging softwares.
- Cooperate in the exchange of information relating to their teaching and research in field of mutual interests.
- Promote appropriate joint study/research projects and joint courses of study, with particular emphasis on government/NGO funded projects;

endeavor to encourage students and staff to spend periods of time in both the institutions. The exchange of students will be dependent on the execution of a formal student Exchange Agreement prior to commencement of the activity:

- g) Conduct short term courses/value added courses/add-on courses/field projects/ internships, as mutually agreed in writing between the parties prior commencement of the activity;
- h) Conduct environmental/academic/sports and games/cultural projects, a mutually agreed memorandum in writing between the parties prior to commencement of this activity;
- i) Conduct study tours, a mutually agreed in writing between the parties prior to commencement of this activity.

2. Facilitate the exchange of undergraduate students; such exchanges may take place for a period of five years formally agreeable to both the institutions without any detriment to the academics of the students in their course study. The academic standing of such students shall be determined by both the institutions. Exchange students will be accorded the rights and privileges of students in accordance with the regulations of both the institutions relating to students and will be admitted under the terms and conditions relevant to their standing instructions in vogue. Accreditation for the academic work carried out by an undergraduate student during the period of study shall be decided on mutual understanding for the benefit of the students.

The aim of the Memorandum of this Understanding shall be to achieve a broad balance in the respective contributions and benefits of the collaboration, and this shall be subject to periodic review by both the institutions without any financial commitment

**INSTITUTION 1:**

Department of Computer Science, Pingle Government College for Women (Autonomous), Waddepally, Hanumakonda.

  
Signed by

Head of the Department  
**LECTURER**  
Pingle Govt. College for Women  
Hanumakonda, Warangal, (T.S.)



Signed by  
**PRINCIPAL**  
**PRINCIPAL**  
Pingle Govt. College for Women  
(Accredited with 'A' Grade by NAAC)  
Waddepally, Warangal - 506 370

**INSTITUTION 2:**

Department of Computer Science, Telangana Tribal Welfare Residential Degree College for Girls, Janagoan.

  
Signed by

Head of the Department  
**Head of the Department**  
Dept. of Computer Science  
TTWRDC (Girls) Jangaon

  
Signed by

**Principal**  
TTW Residential Degree College (Girls)  
JANGAON

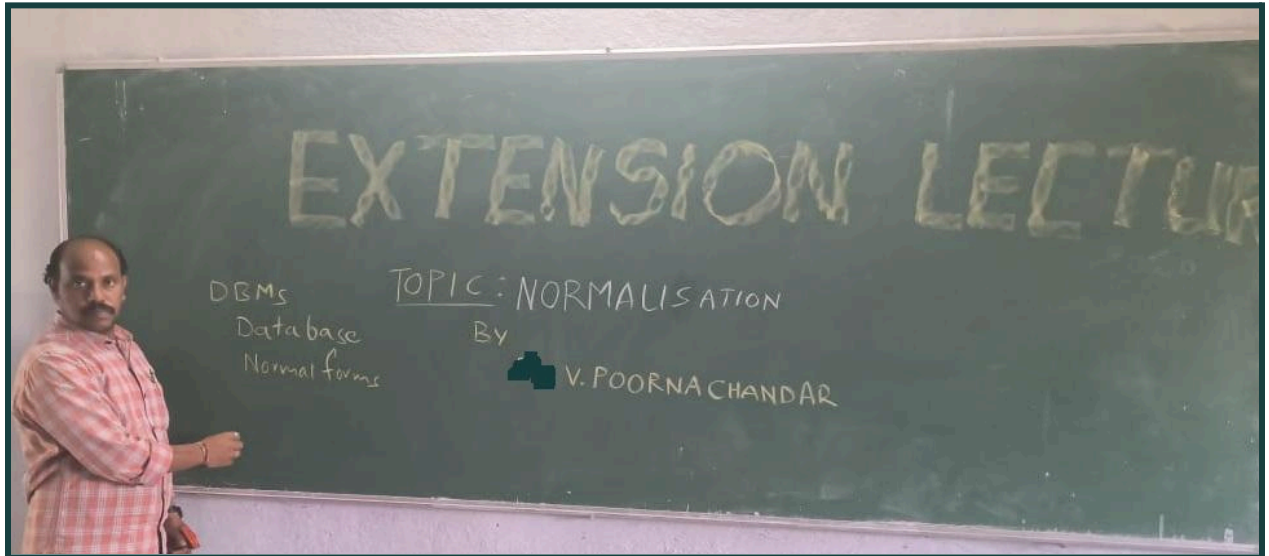


<b>Details of functional MoUs with institutions during the year with ongoing activities</b>					
<b>Sl. No.</b>	<b>Name of the institution/ industry/ corporate house</b>	<b>Month and Year of signing MoU</b>	<b>Duration</b>	<b>List of activities under each MOU</b>	<b>Number of students/teachers who benefitted from MoUs</b>
1	Govt. Degree College, Narsampet	October, 2021	4 years	Extension Lecture	75
2	Govt. Degree College, Jammikunta	November 2021	3 Years	Extension Lecture	150

## **ABSTRACT OF Extension Lectures**

<b>S.No.</b>	<b>Name of the Extension Lectures</b>	<b>Resource Person</b>	<b>Number of Participants</b>	<b>Date</b>
1	Extension Lecture on Inheritance	Smt. P. Sushma	150	17-02-2023
2	Extension Lecture on Normalization	V. Poornachander	75	21-11-2022

**EXTENSION LECTURE BY V. Poorna Chander, Lecturer in Computer Science and Application**



**Topics covered:**

1. Normalisation - its advantages
2. First normal form
3. Second normal form
4. Third normal form
5. Boyce Codd normal form

**EXTENSION LECTURE BY Smt. P. Sushma, Lecturer in Computer Science**



**Topics covered:**

1. Inheritance
2. Types on Inheritance
3. Constructors in base and derived classes
4. Overriding in Inheritance