KONGUNADU ARTS AND SCIENCE COLLEGE

(Autonomous)

Coimbatore – 641 029

MEMORANDUM OF UNDERSTANDING

OUTCOMES

Academic Year 2017-2018

Name of the Institution/ Industry / Corporate House	Department of Palm leaf Manuscripts Tamil University, Thanjavur

A Memorandum of Understanding for Academic Cooperation between Department of TamilKongunadu Arts and Science College and Department of Palm leaf Manuscripts Tamil University, Thanjavur on 08.11.2017

2018– 2019

சுவடியியல் தேசியப் பயிலரங்கம்

கொங்குநாடுகலைஅறிவியல் கல்லூரித் தமிழ்த்துறையும் தஞ்சைத் தமிழ்ப் பல்கலைக்கழகஓலைச்சுவடித்துறையும் இணைந்து நடத்திய சுவடியியல் தேசியப் பயிலரங்கத்தின் தொடக்கவிழா 19.09.2018 அன்றுகாலை 10.00 மணிக்கு நடைபெற்றது. இவ்விழாவில் கௌமார மடாலயத்தின்குருமகாசந்நிதானங்கள் தவத்திரு குமரகு ருபரசுவாமிகள் வருகை தந்துஅருளுரை

வழங்கினார். தஞ்சைத் தமிழ்ப் பல்கலைக்கழகஒலைச்சுவடித்துறையின் தலைவர் முனைவர் மோ.கோ.கோவைமணி அவர்கள் சிறப்பு விருந்தினராகப் பங்கேற்றுச் சிறப்புரையாற்றினார்.

இவ்விழாவில் கல்லூரியின் செயலர் மற்றும் இயக்குநர் டாக்டர் சி.ஏ. வாசுகிஅவர்கள் தலைமையுரையாற்றினார். முன்னதாகத் தமிழ்த்துறைத் தலைவர் முனைவர் க. முருகேசன்அவர்கள் வரவேற்புரையாற்றினார். தொடக்க விழாவின் நிறைவில் சுயநிதிப்பிரிவின் தமிழ்த்துறைத் தலைவர் முனைவர் வெ.சுகந்தாஅவர்கள் நன்றியுரையாற்றினார்.

இப் பயிலரங்கத்தின் நிறைவுவிழா 20.09.2018 அன்றுமாலை 04.00 மணிக்குநடைபெற்றது. இவ்விழாவில் பேரூர் தவத்திரு சாந்தலிங்கஅடிகளார் கலைஅறிவியல் தமிழ்க் கல்லூரியின் மேனாள் முதல்வர் முனைவர் ம. மனோன்மணிஅவர்கள் பங்கேற்றுநிறைவுவிழாப் பேருரையாற்றிப் பங்கேற்பாளர்களுக்குச் சான்றிதழ்களை வழங்கினார். கல்லூரியின் முதல்வர் முனைவர் வே. பாலசுப்பிரமணியம்அவர்கள் தலைமையுரையாற்றினார். தமிழ்த்துறை உதவிப்பேராசிரியர் முனைவர் இரா. மணிமேகலைஅவர்கள் நன்றியுரையாற்றினார். இப்பயிலரங்கில் தமிழகத்தில் உள்ள பல்வேறுகல்லூரிகளில் இருந்தும் புதுச்சேரி, ஆந்திரா, கேரளாஉள்ளிட்டமாநிலங்களில் இருந்தும் பேராசிரியர்களும் ஆய்வுமாணவர்களும் திரளாகப் பங்கேற்றனர்.

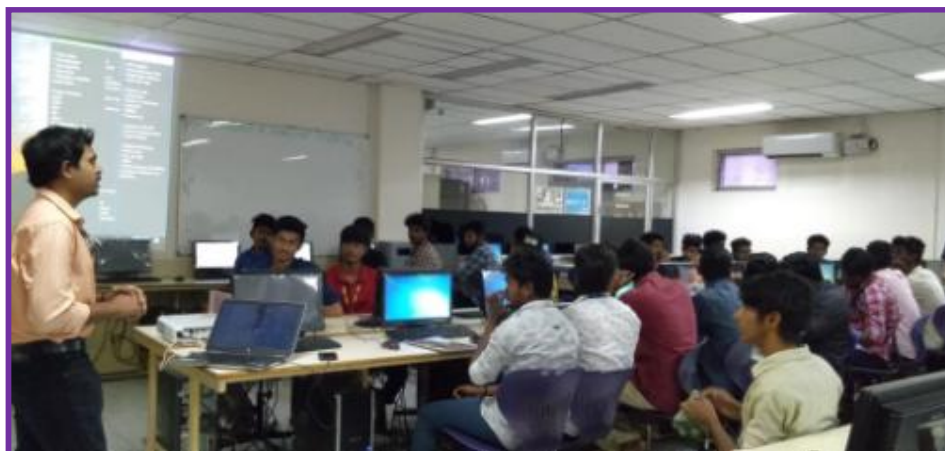| Name of the Institution/ Industry / Corporate House	Sigytal Software Solution Pvt. Ltd., Coimbatore – 641 009

Programme : 1

The Department of Computer Technology organized a seminar (through MOU) in "Web Technologies and Digital Marketing" on 22.02.2018 for III B.Sc CT Students. Mr. P. Hariprasath, Senior Software Developer and Mr. J. Sarjun, Senior Web Developer & Digital Marketing Analyst, Sigytal Software Solution, #91-A/5, First floor, Jayam Plaza, Vivekananda Road, Ram Nagar, Coimbatore – 641 delivered a lecture on "Web Technologies and Digital Marketing". Mr. K. Muthupandi of III B.Sc CT welcomed the gathering and Ms. N. Thangamalar of III B.Sc CT proposed the vote of thanks.

Programme: 2

The Department of Computer Technology conducted a seminar on "Software Development Life Cycle" by Mr.P.Hari Prasath, Senior Software Developer and Web Developer, Sigytal Software Solution, Coimbatore, to III B.Sc Computer Technology Students on 17.12.18 (Monday) at Computer Centre III. The seminar was started with welcome address by Ms.R.Sneha of   III B.Sc Computer Technology, presided by Dr.R.Umagandhi Head of the Department of Computer Technology. Mr.P.Hari Prasath gave a complete orientation about the stages of software development and web development. Finally, Ms.P.Sathaya Priyanga of III B.Sc Computer Technology proposed vote of thanks.

Name of the Institution/ Industry / Corporate House	Uludag University, Turkey

BURSA ULUDAG UNIVERSITY
Faculty of Arts and Science
Department of Mathematics
Görükle, 16059 Bursa, Turkey

To whom it may concern,

Bursa Uludag University (BUU) is one of the state universities in Turkey. It was established in 1975 and now has over 3000 academic staff, 2000 administrative staff and 70000 students. Most of the programmes have been accredited by national or international bodies. In many terms, BUU is ranked amongst the top ten state universities in Turkey. It is one of the research universities in Turkey.

There are 14 faculties, 4 research institutes, 4 4-year vocational schools, 16 2-year vocational schools and some other research centers. Faculty of Arts and Science where Mathematics department is situated is one of relatively old faculties being established in 1983. Having 200 academic, 40 administrative staff and over 5000 students, it is one of the largest faculties within the university. There are 15 departments.

Mathematics Department is one of the leading departments of the faculty since the establishment of the faculty. The education has been continuing in undergraduate, Master of Science and PhD levels since the beginning. Academically, Mathematics Department is amongst the most succesful and productive two departments within the Faculty of Arts and Science. We have a lot of collaboration with European Universities under Erasmus Exchange programme and some other programmes. Our researchers have been collaborating with scientists from many countries all over the world. USA, Canada, South Korea, China, India are the top countries that we have been coworking in many areas.

Our communication and cooperation with Kongunadu Arts and Science College started with my 2-week visit to India during February 2018. It was my fourth visit to India where I visited 9 Indian Universities and Colleges to give talks, seminars or to participate some workshops/congresses. During my visit to Kongunadu Arts and Science College, I have been overwhelmingly welcomed by the Secretary Dr. C. A. Vasuki, the Dean Dr. S. Paulsamy, the Head of Department Dr. V. Kokilavani, and all members of the staff there. Of course I must especially mention the hospitality and welcome by Dr. M. Venkatachalam, Dr. C. Ravichandran and Dr. N. Mohana Priya. Since then, our cooperation is increasingly continuing. We have regularly in contact with all electronic means and discussing and producing results of all these discussions. As one of my active research

areas is Graph Theory and its applications, we have been in cooperation with the strong Graph Theory group in the department. We have signed an MoU between our institutions and under this collaboration, we already have finished several projects. One concrete example of our collaboration is the paper

"Nandini, G., Venkatachalam, M., Deepa, T., Cangul, I. N., On r-dynamic colorings of the friendship graph families"

which has been submitted already for publication. We have other ideas for coworking and and will be continuing to produce more and more academic work which will increase our cooperation in the coming years.

After the success of the MoU between our Mathematics Departments, now our cooperation is extending to a possible cooperation between our Chemistry Departments and we are looking to extend it further. We are eager to continue our academic cooperation as it helps both sides positively.

Please do not hesitate to contact us in any matter regarding our cooperation.

With our best regards,

Prof. Dr. Ismail Naci CANGUL

Senior Researcher and Lecturer

Mathematics Department

Tel: +90 (224) 2941756

Web: http://www.uludag.edu.tr/matematik

e-Mail: cangul@uludag.edu.tr

ON r– DYNAMIC COLORINGS OF THE FRIENDSHIP GRAPH FAMILIES

G. NANDINI, M. VENKATACHALAM, T. DEEPA, AND I. N. CANGUL

ABSTRACT. Coloring of graphs is an important area in graph theory with numerous applications including the most famous problems related to graphs. An r-dynamic coloring of a graph G is a proper coloring c of the vertices such that $|c(N(v))| \geq min\{r, d(v)\}$, for each vertex $v \in V(G)$. The r-dynamic chromatic number of a graph G is the minimum k such that G has an r-dynamic coloring with k colors. In this paper, we obtain the r-dynamic chromatic number of some of the derived graphs called middle, total, central and line graphs of the friendship graph.

Keywords: coloring, r-dynamic coloring, middle graph, total graph, central graph, line graph and friendship graph.