

MEMORANDUM OF UNDERSTANDING

Between

VEL TECH RANGARAJAN DR. SAGUNTHALA R&D INSTITUTE OF SCIENCE AND TECHNOLOGY

And

UNIVERSITY OF WISCONSIN - LA CROSSE

This Memorandum of Understanding (MOU) is between Vel Tech Rangarajan Dr. Sagunthala R&D Institute of Science and Technology (Vel Tech) , India, and The University of Wisconsin – La Crosse (UWL), USA, and together called “The Parties”. Both parties agree to cooperate on the basis of academic friendship and mutual understanding. The Parties believe that:

1. Mutual benefit comes from scholarly interactions, cultural exchanges, and other forms of academic collaboration.
2. The Parties regard the following areas of cooperation as desirable and feasible:
 - (i) Undergraduate and/or graduate level study programs;
 - (ii) Short-term study programs;
 - (iii) Cooperation in training and/or research projects for specified areas of development.
3. The terms of specific areas of cooperation shall be further considered and agreed upon in writing by the parties prior to the initiation of any particular activity.
4. Any specific program will be subject to mutual consent, availability of resources and approval of both parties.
5. The parties agree this MOU is not a formal legal agreement-giving rise to any legal relationship, rights, duties or consequences. It is intended to facilitate the development of specific independent programs of collaboration in the future. The terms and details of such programs will be outlined via Addendums to the MOU.

6. The MOU will be effective when both parties have signed the agreement and shall remain in force for five (5) years or until terminated by either party providing a six-month notice of termination prior to the documents original end date. The MOU can be renewed for an additional five years provided both parties agree to the renewal in writing prior to the original end date.
7. This MOU and all subsequent Addendums derived thereon shall be coordinated on behalf of UWL by UWL's International Education & Engagement Office and on behalf of Vel Tech by Directorate of International Relations.
8. The University of Wisconsin System and UWL are committed to providing equal education and employment opportunities regardless of gender, race, creed, religion, national origin, disability, ancestry, age, sexual orientation, and pregnancy, marital or parental status.
9. The official text of this MOU shall be the English language, and any interpretation or construction of this MOU shall be based thereon. If this MOU or any documents or notices relating to it are translated into another language, the English version shall be controlling in the event of discrepancy between the two.

Signed by authorized representatives of The Parties:

Board of Regents of the University
of Wisconsin System on behalf of
The University of Wisconsin – La Crosse:



Joe Gow
Chancellor

Date: 10/10/2019

Vel Tech Rangarajan Dr. Sagunthala R&D
Institute of Science and Technology



Col. Prof. Dr. Vel. R. Rangarajan
Chancellor & Founder President

Date: 04 OCT 2019

Col. Prof. Vel. Dr. R. Rangarajan
Founder Chancellor & President

Vel Tech
Rangarajan Dr. Sagunthala
R&D Institute of Science and Technology
(Deemed to be University Paid. U's 3 of UGC Act, 1956)



Vel Tech
Rangarajan Dr. Sagunthala
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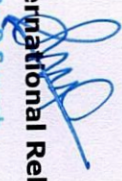
University of Wisconsin-La Crosse, USA

Name of the Research Institute/University/ Organization	Country	Duration of the Agreement	Academic Year	Date of Signing	Date of Expiry	Purpose/Activities
University of Wisconsin-La Crosse	USA	5 Years	2019-20	10.10.2019	09.10.2029	for Scholarly Interactions, Cultural Exchanges and other forms of academic collaborations. Cooperation's in Undergraduate and/or graduate level study programs, Short-term programs, Cooperation in training and/or research projects for specified areas of development and other specific areas of cooperation shall be considered further by both the parties

Actual Activities with University of Wisconsin-La Crosse, USA	
A.Y. 2019-20	Faculty Mobility (Incoming - Short Courses) - 1


MOU Coordinator




Dean - International Relations
Dr. P. Suresh
Dean - International Relations

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Vel Tech
Rangarajan Dr. Sagunthala
R&D Institute of Science and Technology
(Deemed to be University Estd. u/s 3 of UGC Act, 1956)

School of Computing
Department of Computer Science and Engineering

Specialized course on
“GUI Design using iOS”
(1152CS181)

by

Prof. Dr. Kasilingam, Periyasamy
University of Wisconsin- La Crosse, USA



Held on

Date: June to December, 2019

Kasilingam Periyasamy

Computer Science Department, UW-L | (608)785-6823 | kperiyasamy@uwlax.edu

Education

PH.D	1991	COMPUTER SCIENCE, CONCORDIA UNIVERSITY, MONTREAL, CANADA
M. COMP.SCI	1987	COMPUTER SCIENCE, CONCORDIA UNIVERSITY, MONTREAL, CANADA
M. ENGG	1983	COMPUTER SCIENCE, ANNA UNIVERSITY, CHENNAI, INDIA
B. ENG (HONS)	1981	ELECTRONICS & COMMUNICATION ENG., UNIVERSITY OF MADRAS, CHENNAI, INDIA

Employment

PROFESSOR	COMPUTER SCIENCE DEPARTMENT, UNIVERSITY OF WISCONSIN- LACROSSE, WISCONSIN, USA	JUL 2005 - PRESENT
ASSOCIATE PROFESSOR	COMPUTER SCIENCE DEPARTMENT, UNIVERSITY OF WISCONSIN- LA CROSSE, WISCONSIN, USA	SEP 1999- JUN 2004
ASSOCIATE PROFESSOR	COMPUTER SCIENCE DEPARTMENT, UNIVERSITY OF MANITOBA, WINNIPEG, MANITOBA, CANADA	JAN 1997 - AUG 1999
ASSISTANT PROFESSOR	COMPUTER SCIENCE DEPARTMENT, UNIVERSITY OF MANITOBA, WINNIPEG, MANITOBA, CANADA	JUL 1991 - DEC 1996

Administrative Experience

Department

- Graduate Program Director, Department of Computer Science (2001 - now)
 - Created the entire Master of Software Engineering (MSE) program including the whole curriculum, admission and graduation requirements, and policies for financial support
 - Responsible for admissions, recruitments, graduate students advising, thesis guidance, financial support for graduate students, policies, graduate curriculum, assessment of graduate courses and department representative for graduate studies
 - Revised the MSE curriculum completely in 2017.
- Search and Screen Committee, Department of Computer Science (2001 - now)
- Personnel Committee, Department of Computer Science (2001 - now)
- Graduate and undergraduate students' recruitment (2006 - now)

- Curriculum committee (2005-06)

College

- College Committee (2014 - now)
 - Responsible for creating policies and providing recommendation to the Dean on several issues arising within the college including curriculum and personnel
- College Committee for Sabbatical Leave Applications (2005-06, 2007-09)
- Dean's Fellowship Committee (2010-12)
 - This committee is responsible for allocating funds for undergraduate research supported by the Dean of the college.

University

- **Graduate Council** (2005-08, 2009-12, 2015-17)
 - Oversees all graduate programs in the university and maintains university policies on graduate education; supports graduate students research and funding
 - **Served as the Chair of this council (2011-12)**
- Joint Promotion Committee (2014-17)
- **Graduate Academic Program Review Committee (2016 - now)**
 - **Also served on the Ad Hoc Committee that created the policies and procedure for Grad APR committee (2015)**
- **Graduate Curriculum Committee (2008-09, 2012-13)**
- Promotion, Tenure and Salary Committee (2013-14)
- Academic Program Review (2002-03)
- Search and Screen Committees to hire Assistant to Vice Chancellor for Enrollment Management (2012-13)
- Search and Screen Committee for the position of Director of International Education and Engagement (2015-16)
- Search and Screen Committee for the position of Associate Vice Chancellor (2017-18)
- Ad hoc Committee to review software products and processes for Online Student Evaluation of Instruction (2014-16)

Academic Experiences

The following is the list of courses I taught at UW-L.

Undergraduate

- Software Design I: Java Programming
- Software Design IV: Software Engineering I
- Introduction to Operating Systems
- Abstract Data Types (Data Structures and Algorithms)

Graduate

- Software Engineering Principles*
- Formal Methods in Software Development*

- Object-Oriented Software Development*
- Software Verification and Validation*
- Management Issues in Software Engineering*
- Advances in Software Engineering*
- User Interface Design*
- Seminar in Software Engineering*
- Modeling Software Systems

* created the curriculum for these courses

Guest lectures

- Programming Language Principles

Industrial

- “Object-Oriented Software Development based on UML”, 5-days course given to Firstlogic, La Crosse, WI, Dec 2005.
- “Software Testing”, 5-days course given to Firstlogic, La Crosse, WI, Jan 2006.
- “Object-Oriented Software Development based on UML”, 5-days course given to Trane, La Crosse, WI, Aug 2008.
- “Software Testing”, 5-days course given to Trane, La Crosse, WI, Aug 2008.
- “Introduction to Formal Methods”, 5-days course given to faculty members at Anna University, Trichy, India, June 2010.
- “Agile Software Development”, 2-days course given to Trane Company, La Crosse, WI, Aug 2015.

Research

My research interests are in Software Engineering, particularly in applying formal methods to software development process, software verification and testing. I was the creator and am the program director for the Master of Software Engineering (MSE) program at UW-La Crosse since 2001. As a requirement for the MSE program, every student is required to complete a capstone project (similar to a thesis in a traditional Master’s degree). Most of the capstone projects are sponsored by other units in the university (other academic departments or administrative units) and by industries. As the primary faculty adviser for most of the capstone projects, I have guided 67 out of nearly 180 students graduated from this program so far. Several of these projects were sponsored by units within UW-L but outside the Computer Science department, and also from companies and agencies outside UW-L. This list of sponsors and their projects is shown in the Appendix.

In addition to capstone projects, I have also guided several independent study projects some of which were sponsored by agencies and companies outside the Computer Science department. A few notable sponsors of these projects are also given in the Appendix.

Publications

Book

V.S. Alagar, K. Periyasamy, *Specification of Software Systems*, Graduate Text in Computer Science Series, Springer-Verlag, 1998. [The second edition of the book was published in April 2011. We added more than 200 pages to the first edition.](#)

Book Chapter

K. Periyasamy, “Teaching Software Project Management”, Chapter 1 in *Overcoming Challenges in Software Engineering Education: Delivering Non-technical Knowledge and Skills*, L. Yu (Ed.), IGI Publications, 2014.

Papers in refereed journals (2001 and after)

- ❖ K. Periyasamy and K. Yadav, “Consolidation of Data in Multiple Databases”, accepted for publication in the International Journal of Computers and Their Applications (IJCAT), May 2016.
- ❖ K. Periyasamy and V. Perkinian, “Reconfiguration of Graphical User Interface”, *Journal of Digital Information Management*, Springfield, MO, Vol. 9, No. 5, Oct 2011, pp. 213-218.
- ❖ K. Periyasamy and V.S. Alagar, “A Rigorous Method for Generating Test Templates from Object-Oriented Specifications”, in *Software Testing, Verification and Reliability*, 11:3-37, March 2001; published by John Wiley & Sons, Ltd.

Panel Discussion

- ❖ “Software Engineering Education - Present and Future”, a panel discussion [proposal submitted](#) to the Midwest Instructional Computing Symposium (MICS 2017), to be held at UW-La Crosse, April 7-8, 2017. I am organizing this panel and I will be the moderator for the same. There are presenters from three UW campuses and one from Milwaukee School of Engineering.
- ❖ “Teaching CS 1: Object-First or Algorithmic”, a panel discussion at the 19th Annual Conference by Consortium for Computing Sciences in Colleges (CCSC): Midwest Region in October 2012 held at the Eastern Illinois University, Charleston, Illinois. I organized this panel and moderated the same. Four other participants presented in the panel. A summary of this panel discussion was published at the Journal of Computing Sciences in Colleges, Vol. 28, No. 1, Oct 2012, pp. 111-112.

Conferences and Workshops (2001 and after)

- ❖ V. Alagar, K. Periyasamy and K. Wan, “Privacy and Security of Patient-Centric Elderly Healthcare”, IEEE International Conference on e-Health, Networking,

Applications and Services (IEEE Healthcom 2017), Dalian, China, Oct 12-14, 2017.

- ❖ K. Periyasamy, V. Alagar and K. Wan, “Dependable Design for Elderly Healthcare”, International Conference on Security, Privacy and Trust (INSERT’17) as part of the Federated Conferences on Computer Science and Information Systems (FedCSIS 2017), Prague, Czech Republic, Sep 5-7, 2017.
- ❖ K. Periyasamy, K. Wan and V. Alagar, “Healthcare Design Patterns: An Internet of Things Approach”, International Conference on Computers and Their Applications (CATA 2017), Honolulu, Hawaii, Mar 20-22, 2017.
- ❖ K. Yadav and K. Periyasamy, “Constraints Matching in Multiple Databases”, Proceedings of the International Conference on Computers and Their Applications (CATA 2016), Las Vegas, NV, April 2016. [Selected for the Best paper award. An updated version of the same paper was also accepted for journal publication.](#)
- ❖ K. Yadav, A. Backes and K. Periyasamy, “Sentiment Analysis Conducted on Students’ Evaluation of Courses”, Proceedings of the International Conference on Software Engineering and Knowledge Engineering (SEDE 2015), San Diego, CA, Oct 2015.
- ❖ P. Papanna and K. Periyasamy, “A Tool for Schema Matching with a Knowledge Base”, Proceedings of the International Conference on Software Engineering and Knowledge Engineering (SEDE 2014), New Orleans, LO, Nov 2014.
- ❖ J. Gijo and K. Periyasamy, “A Requirements Engineering Tool Based on Use Cases”, Proceedings of the Midwest Instructional Computing Symposium (MICS 2014), Madison, WI, April 2014.
- ❖ K. Periyasamy, Y. Zou and S. Padhye, “A Framework for Verification of UML Statechart Diagrams”, Proceedings of the International Conference on Computers and Their Applications (CATA 2014), Las Vegas, March 2014.
- ❖ D. Stoleson and K. Periyasamy, “TOZE 2.0: A Graphical Editor for the Object-Z Language”, Proceedings of the International Conference on Computer Science and Software Engineering (CSSE 2014), Shen Zhen, China, Jan 2014.
- ❖ B. Schell and K. Periyasamy, “Semantic Analysis of Public Health Information”, Proceedings of the Midwest Instructional Computing Symposium (MICS 2013), La Crosse, WI, April 2013.
- ❖ D. Mai, K. Periyasamy and V.S. Alagar, “Boundary Value Test Case Generation from Formal Specifications”, International Conference on Computers and Their Applications (CATA 2013), Honolulu, Hawaii, March 2013.
- ❖ T. Parker, K. Periyasamy and K. Hunt, “TOZE: A GUI Editor and a Type Checker for Object-Z”, International Conference on Computers and Their Applications (CATA 2012), Las Vegas, NV, March 2012.
- ❖ A. Ghode and K. Periyasamy, “Software Cost Estimation Using Class Point Metrics (CPM)”, International Conference on Software and Computing Technology (ICSCT 2011) held along with the International Conference on Machine Vision (ICMV 2011), Singapore, December 2011.
- ❖ V. Perkinian and K. Periyasamy, “Dynamically Reconfigurable User Interface - A Case Study from Health Care Application”, International Conference on Applications of Digital Information and Web Technologies (ICADIWT 2011), Stevens Point, Wisconsin, August 2011.

- ❖ C. Mei, X. Zhang, W. Zhao, K. Periyasamy and M. Headington, “A Tool for Teaching Petri Nets”, presented at the Consortium for Computing Science in Colleges - Central Plains Conference (CCSC-CP 2011), Warrensburg, MO, April 8-9, 2011. The proceeding was published in the Journal of Computing Sciences in Colleges, Vol. 26. No. 5, April 2011, pp. 181-188.
- ❖ Q. Xiaoyao, D. He and K. Periyasamy, “A Requirements Editor for Teaching Requirements Engineering”, International Technology, Education and Development Conference (Virtual presentation), Valencia, Spain, March 7-8, 2011.
- ❖ D. He and K. Periyasamy, “The Design of an Object-Oriented Database System”, International Congress on Computer Applications and Computational Science (CACCS 2010), Singapore, Dec 4-6, 2010.
- ❖ D. He and K. Periyasamy, “Exploring Dynamic Compilation Facility in Java from Application Viewpoint”, Midwest Instructional Computing Symposium (MICS 2010), Eau Claire, WI, April 2010.
- ❖ M. Velimirovic and K. Periyasamy, “A Natural Language Query Processor”, Midwest Instructional Computing Symposium (MICS 2010), Eau Claire, WI, April 2010.
- ❖ A. Ghode and K. Periyasamy, “Cost Estimation using Extended Use Case Points (e-USP)”, International Conference on Computational Intelligence and Software Engineering (CiSE 09), Wuhan, China, Dec 2009.
- ❖ M. Zheng, H. Nakano, K. Periyasamy and W. Zhi, “An Empirical Study on Software Reuse”, International Conference on Computer Science and Software Engineering (CSSE 08) , Wuhan, China, Dec 2008.
- ❖ K. Periyasamy, K. Hunt, and T. Parker, “Object-Z Editor”, Tool Demonstration at the 15th Annual Consortium for Computing Sciences in Colleges: Midwest Conference (CCSC: MW 2008), sponsored by ACM/SIGCSE, Holland, MI, Sep 2008.
- ❖ D. Riley and K. Periyasamy, “Globalization of Education: An Experience Report”, Symposium on Academic Globalization (AG 2008), part of World Multi-Conference on Systemics, Cybernetics and Informatics (WMSCI 2008), Orlando, FL, Jul 2008.
- ❖ B. Garbers, K. Periyasamy and K. Hunt, “A Project Manager’s Assistant”, presented at the Midwest Instructional Computing Symposium (MICS 2007), Grand Forks, ND, April 2007.
- ❖ B. Garbers and K. Periyasamy, “A Light-weight Tool for the Development and Evaluation of Requirements Documents”, in the Proceedings of the Annual Conference of American Society of Engineering Education (ASEE), Chicago, IL, June 2006. Also presented in the Global Colloquium of ASEE, Rio De Janeiro, Brazil, and Oct 2006.
- ❖ T. Harron, K. Periyasamy and K. Hunt, “Requirements Compiler”, presented at the Midwest Instructional Computing Symposium (MICS 2006), Mount Pleasant, IA, Apr 2006.
- ❖ V.S. Alagar and K. Periyasamy, “Specification and Verification of Secure Business Transaction Systems”, to be presented in *SOFSEM 2002: 29th Annual Conference on Current Trends in Theory and Practice of Informatics*, Nov 24-29, 2002, Milovy, Czech Republic.

- ❖ K. Periyasamy and V.S. Alagar, “Separating Business Rules from Application Domain”, *World Multiconference on Systemics, Cybernetics and Informatics*, Orlando, FL, July 2001, Vol. XVII, pp. 320-325.
- ❖ V.S. Alagar and K. Periyasamy, “BTOZ: A Formal Specification Language for Formalizing Business Transactions”, in the *International Conference on Technology of Object-Oriented Languages and Systems (TOOLS USA’01)*, Santa Barbara, CA, Aug 2001, pp. 240-252; published by IEEE Computer Society.

Invited talks

- ❖ “The Role of Formal Methods in Embedded Systems Design”, **Keynote Speaker** at the International Conference on Cloud Computing and Embedded Systems, Sastra University, Tanjore, Tamilnadu, India, June 2012.
- ❖ “Software Cost Estimation Models - An Overview”, **Keynote Speaker** at the International Conference on Software and Computing Technology (ICSCT 2011) held along with the International Conference on Machine Vision (ICMV 2011), Singapore, December 2011.
- ❖ “Verification of Software Systems Using Formalized Methods”, **Keynote Speaker** at the International Conference on Applications of Digital Information and Web Technologies (ICADIWT 2011), Stevens Point, Wisconsin, August 2011.
- ❖ “Formal Methods and Their Applications in Software Development”, **Keynote speaker** at the International Conference on Smart Technologies (ICST 2011), Vel-Tech University, Chennai, Tamilnadu, India, Jan 4-7, 2011.
- ❖ “Formal Methods in Software Development - An Overview”, **Keynote speaker** at the International Conference on Computer Science and Software Engineering (CSSE 2008), Wuhan, China, Dec 2008.
- ❖ Gave recruitment seminars in several colleges in India from 2001 onwards.
- ❖ Gave recruitment seminar at South Central University for Nationalities (SCUN) in Wuhan, China (2005-2009).

Grants

- ❖ Principal Investigator, \$5000 grant (2018-19) from University of Wisconsin-La Crosse for implementing a secure healthcare network.
- ❖ Co-PI with Dr. Josh Hursey, \$2000 grant (2014-15) from University of Wisconsin, Continuing Education for promoting industrial collaboration.
- ❖ Co-PI with Dr. Steve Senger, \$524,000 grant (2007-11) from National Science Foundation to award scholarships for graduate students pursuing Master of Software Engineering degree in the Computer Science Department at University of Wisconsin-La Crosse, La Crosse, WI, U.S.A.
- ❖ Principal Investigator, \$3000 grant (2000-01) from College of Science and Allied Health, University of Wisconsin-La Crosse for developing a tool for Object-Oriented Software Metrics.

- ❖ Principal Investigator, \$5000 grant (2000-01) from Wisconsin Space Consortium for developing a method and tool for test case generation from formal specification of requirements.
- ❖ Principal Investigator, \$1700 grant (2000-01) from College of Science and Allied Health, University of Wisconsin-La Crosse for industrial collaboration efforts.

Appendix

MSE Capstone Project sponsors

Project Title	Sponsor
A Web-based Intramural Game Scheduler	Recreation Sports Management Dept., UW-L
A Classroom Information Management System	An independent sponsor
Feature Rules in TOPSS	Trane Company, La Crosse, WI
A Methodology for Software Reuse	My research project supported by Firstlogic Inc., La Crosse, WI
Requirements Compiler	My research project supported by Firstlogic Inc., La Crosse, WI
A Program Manager's Assistant	IBM, Rochester, MN
Automating Curricular Management Tasks	Records and Registration, UW-L
Tool Support for the Prevention of Family Violence System	La Crosse County Office, La Crosse, WI
Project Manager 2007	Firstlogic Inc., La Crosse, WI
Trip Logic: A Demand Response Dispatching System	Top Hat Inc., La Crosse, WI
A Tool for the Automation of Membership Services and Equipment Management	Recreation Sports Management Dept., UW-L
Adding MRP/DRP Functionality to Microsoft Navision	ORC Industries, La Crosse, WI
Defect Analysis and Data Collection Software for an Iron Foundry	Torrence Casting, La Crosse, WI
Committee Tracker for Cornell College	Cornell College, Cedar Rapids, IA
Software Assistant for Management Tasks in a Fish Farm	"Eat My Fish" Fish Farm, Menomonie, WI
CareVoyant Patient Portal	CareVoyant Inc., Chicago, IL
A Tool for Test Data Generation	SAP, La Crosse, WI
A Student Management System for Reed Music Studios	Reed Music Studios, Onalaska, WI
A Web-Application for the La Crosse Symphony Orchestra	La Crosse Symphony Orchestra, La Crosse, WI
Golf Tournament Management System for Three Rivers Golf Association	Three Rivers Golf Association, La Crosse, WI

Re-engineering Trane Automated Test Utility	Trane Company, La Crosse, WI
An Online Scholarship Application System	The Foundation Office, UW-L
Human Participant Pool Management System	Psychology Department, UW-L
A Web-Based Classroom Allocation System	UW-L Records and Registration Dept.
A Web-Based Recruitment Matching System	An Employment Agency in China
An Online Box Office Application for UW-L Theater Department	UW-L Theater Department
A Quality Management System for Westby Creamery	Westby Creamery, Westby, WI
A Generic Survey Toolkit	Global Partners, WI
Semantic Analysis of Public Health Information	UW-L Department of Health Professions
A Message Routing System	Authenticom Inc., La Crosse, WI
Chronic Kidney Disease (CKD) Helper	Mayo Clinic, Nephrology Dept., La Crosse
Job Board: A Web-based Scheduler	Dental Express, La Crosse
Predicting Mortality of Patients on Hemodialysis	Mayo Clinic, Nephrology Dept., La Crosse

Independent Study (3 credits) Project sponsors

Project Title	Sponsor
Web interface for Music Competitions	Wisconsin Music Teachers Association
A Volunteer Scheduling System Waiting List Manager	Tornado Hockey Association, Onalaska Psychology Department, UW-L
Extending features of QuickBooks	A private company in La Crosse
A Web-based Case Files Management System	UWL Police Department

Graphical User Interface (GUI) Design with iOS

Instructor : Dr. Kasi Periyasamy
University of Wisconsin-La Crosse
U.S.A.
kperiyasamy@uwlax.edu

Course Description

This course focuses on the design and implementation of user interfaces. The topics include characteristics of user interfaces, user profiles, user interface design principles, methods and tools for user interface development, evaluation of user interfaces, and case studies.

Prerequisites: Object-oriented programming, Data Structures.

Overview

User Interface (UI) is an important part of any software system. Several factors of a software system such as usability, reliability and learning curve are evaluated based on the effectiveness of user interface the system provides. Some software systems even provide multiple user interfaces for the same application. The objective of this course is to teach the concepts and principles of a user interface design. The design principles are somewhat generic and are sufficiently abstract so that they can be applied to a variety of problems. The course will focus on Graphical User Interface (GUI) design. A number of toolkits are available for GUI design, most of which are tied with the underlying programming languages such as Java, Swift, C++, C#, PHP, and Python.

Learning Outcomes

Course outcomes	Major outcomes
By the end of the course you will be able to • understand Human Computer Interaction (HCI) principles; • understand and use GUI design principles.	By the end of the course you will be able to • design GUI for several different applications; • critically evaluate GUI for different applications; • write GUI code separated from application domain code.

Textbook

Wilbert O. Galitz, *The Essential Guide to User Interface Design: An Introduction to GUI Design Principles and Techniques*, Third Edition, Wiley Publishing, Inc., 2007, ISBN: 978-0-470-05342-3.

Reference books

- Jeff Johnson, *Designing with the Mind in Mind* (Second Edition), Morgan Kaufmann, 2014, ISBN: 978-0124079148.
- Jenifer Tidwell, *Designing Interfaces*(Second Edition), O'Reilly Media, 2011, ISBN: 978-1449379704.
- Ben Schneiderman *et al.*, *Design the User Interface: Strategies for Effective Human Computer Interaction* (Fifth edition), Pearson, 2009, ISBN: 978-0321537355.
- Karel Vredenburg *et al.*, *User-Centered Design: An Integrated Approach*, Prentice Hall, 2002, ISBN: 0-13-091295-6.

- R.J. Torres, *Practitioner's Handbook for User Interface Design and Development*, Prentice Hall, 2002, ISBN: 0-13-09126-4.
- John Cato, *User-Centered Web Design*, Addison-Wesley, 2001, ISBN: 0-201-39860-5.

List of topics

- GUI Design Principles - **covered**
- Commonly used GUI controls - **covered**
- Direct Manipulation in GUI - **covered**
- User Profiles - **covered**
- Animation - **covered**
- Cosmetics of GUI - Colors, Fonts, Metaphores - **covered**
- GUI evaluation - **not yet covered**
- GUI Testing - **not yet covered**
- Online Help and Tutorial - **covered**
- GUI for different types of applications = **partially covered**
 - Data-oriented systems - **covered**
 - Temporal systems - **covered**
 - Gaming systems - **partially covered**
 - Control systems - **partially covered**

Workload

The workload for this course consists of several assignments, and final exam. Assignments involve design, implementation, and demonstration of user interfaces.



Vel Tech
Rangarajan Dr. Sagunthala
R&D Institute of Science and Technology
(Deemed to be University Estd. as of UGC Act, 1956)

Dr.S.Sivaperumal
Director – International Relations

Email: dint@veltech.edu.in
Mobile: +91 96000 40255

Ref.: 2018-19/DINT/VF-L/IR413

3rd Sep., 2018

To

The Vice Chancellor
Vel Tech Rangarajan Dr.Sagunthala R&D Institute of Science and Technology,
Chennai 600-062

Professor,

Sub.: Request Approval – Visiting Faculty – One Semester – Dr. Kasi Periyasamy, UWLAX
Ref.: Meeting with Internal BoM members on 27th August 2018

With reference to the application of Dr. Kasi Periyasamy, Professor and MSE Program Director, Department of Computer Science, University of Wisconsin-La Crosse, La Crosse, WI 54601, USA for Visiting Faculty Position (at Professor Level) from mid June 2019 to mid December 2019 at Vel Tech, I request your approval for his offer with the following terms

1. Honorarium: INR 1,20,000 per month including all applicable taxes.
2. Accommodation at Vel Tech Guest House.
3. Responsibilities:
 - a. One Course Work
 - b. Initiate Research Project jointly with SRMU and Guide our Faculty members / students (Research proposal attached)
 4. c. Reimbursement of Shortest Route Economy Flight Fare.

Thanking You

(S.Sivaperumal)
03/09/18

Encl.: 1. CV and 2. Research Proposal

Approved / Not-Approved

RMV
3/9/2018

Vice Chancellor

(Signature)
8/9

SNo	Stu_Id	Stu_Name	Stu_Branch	Stu_Test_Subje ctCode	Stu_Test_SubjectName	Stu_Grade_ Point	Stu_Grade	Stu_Result_Final
1	VtU10128	BHUMA MEGHANA	CSE	1152CS181	GUI Design using IOS	8	B	FIRST CLASS
2	VtU10313	KUNAL PRASAD	CSE	1152CS181	GUI Design using IOS	9	A	DISTINCTION
3	VtU10668	ABHIK SARKAR	CSE	1152CS181	GUI Design using IOS	8	B	FIRST CLASS
4	VtU10701	MREENMOY HAZARIKA	CSE	1152CS181	GUI Design using IOS	8	B	FIRST CLASS
5	VtU10909	ARIJIT DASGUPTA	CSE	1152CS181	GUI Design using IOS	9	A	DISTINCTION
6	VtU11655	SWEKIN SHANTHINI AROKIYA J	CSE	1152CS181	GUI Design using IOS	0	AB	Reappear
7	VtU14411	ANIMESH GUPTA	CSE	1152CS181	GUI Design using IOS	7	C	FIRST CLASS
8	VtU14946	PACHAVA VENGALARAO	CSE	1152CS181	GUI Design using IOS	6	D	SECOND CLASS
9	VtU7863	TUMULURI ARYAN SURYA	CSE	1152CS181	GUI Design using IOS	7	C	FIRST CLASS
10	VtU8054	MOHIT KUMAR NAGUBANDI	CSE	1152CS181	GUI Design using IOS	7	C	FIRST CLASS
11	VtU8257	GADDE VAMSI	CSE	1152CS181	GUI Design using IOS	0	RA	Reappear
12	VtU8339	ARYA AMITKUMAR SUNILPRASAD	CSE(NW&CS)	1152CS181	GUI Design using IOS	0	RA	Reappear
13	VtU8697	THUPAKULA PALLAVI	CSE	1152CS181	GUI Design using IOS	7	C	FIRST CLASS
14	VtU8708	CHILAKA ARJUN	CSE	1152CS181	GUI Design using IOS	8	B	FIRST CLASS
15	VtU8904	AMBATI AARYANI CHOWDARY	CSE(DA)	1152CS181	GUI Design using IOS	6	D	SECOND CLASS
16	VtU9032	GANJI VEERANJANEYULU	CSE	1152CS181	GUI Design using IOS	6	D	SECOND CLASS
17	VtU9102	PATTAVALLA ANIL	CSE	1152CS181	GUI Design using IOS	8	B	FIRST CLASS
18	VtU9258	MADINA SUSHMA	CSE	1152CS181	GUI Design using IOS	8	B	FIRST CLASS
19	VtU9657	HABEEBULLAH	CSE(NW&CS)	1152CS181	GUI Design using IOS	6	D	SECOND CLASS
20	VtU9899	MANTHRI KARTHIK	CSE	1152CS181	GUI Design using IOS	0	RA	Reappear
21	VtU9927	JUTHUKA SUJITH FRANCIS	CSE	1152CS181	GUI Design using IOS	7	C	FIRST CLASS
22	VtU11655	SWEKIN SHANTHINI AROKIYA J	CSE	1152CS181	GUI Design using IOS	0	AB	Reappear
23	VtU6978	NARAYANASETTI SAI KUMAR	CSE	1152CS181	GUI Design using IOS	6	D	SECOND CLASS
24	VtU7092	VATTIKUTI SRI MANI VINAY	CSE	1152CS181	GUI Design using IOS	8	B	FIRST CLASS
25	VtU7753	K MULA SHIVA SHANKAR REDDY	CSE	1152CS181	GUI Design using IOS	0	AB	Reappear

Directorate of International Relations

Submitted for the Approval:

The following Professor joined as a Visiting professor at Vel Tech for 6 months from 26th June 2019. Attached the agreement for your reference. Requesting approval for the salary of the month of August, 2019.

Sl. No	Name of the Professor	Designation	Work Load	Gross Salary per month	Additions (Insurance)	Deduction (if any)	Net Total	Remarks
1	Prof. Dr. Kasilingam Periyasamy, University of Wisconsin, La-Crosse, USA	Visiting Faculty (Professor Level)	One programme Elective Course and Reserch	1,20,000	Nil	Income tax	1,20,000	Tax to be deducted from Source

Requesting to transfer the salary to the following account.

Account Details:

Name: kasilingam Periyasamy & Raji Kasilingam ✓

Account No: 1531 0015 0300 006

IFSC code: TMBL0000153

Bank name: Tamilnadu mercantile Bank

Branch: Tirumangalam, Madurai

PAN No: IUFPK9990G


Co-Ordinator


Director - International Relations