

# COMPUTER CENTRE

## I. INTRODUCTION

The Computer Centre was established in the year 1992. As a central facility, it caters to the Computing and Information & Communication Technology (ICT) needs of the various Directorates, Schools, Departments, Centres and Administrative sections of the University.

### **Working Hours:**

Monday to Friday : 09.30 a.m. to 08.30 p.m.

On Holidays : 10.30 a.m. to 05.30 p.m.

## II. OBJECTIVES / FUNCTIONS

- i. To promote development of teaching, research and other related functions of the University through Information & Communication Technology (ICT).
- ii. To organize and conduct Workshops/ Short term courses on ICT for the students and staff of the University.
- iii. To assist various Departments/Centres/Offices/Sections in the University in computerizing their activities.
- iv. To establish, coordinate, maintain and administer campus wide Network including Internet and allied services.
- v. To network with Computer Centres of other Universities for exchange of expertise and software.
- vi. To develop human resources in the field of Information and Communication Technology by imparting Training.
- vii. To keep track of the latest developments in Computer Hardware/Software technologies internet technologies and collect information, acquire and impart knowledge to the University staff.

## III. ACTIVITIES

### A. ACADEMIC

The Computer Centre staff have been handling regular classes to the students of Department of Computer Science, School of Engineering & Technology of Pondicherry University since its inception in the year 1992.

It also offers project guidance for M.Tech. (Computer Science & Engg.), M.Tech. (Network & Internet Engg.), M.C.A. and M.Sc. (Computer Science) students.

S/N	Name of the Staff	Courses Taught	Subjects Taken	# Hrs./Week
1	Marie Stanislas Ashok	M.Tech.	Network Management	8
		M.C.A./M.Sc.	Project Guidance	
2	K. Palanivel	M.Tech.	Network Protocols	8
		PGDCA	Operating Systems, Computer Networks	
		M.C.A./M.Sc.	Project Guidance	

## B. TRAINING

The Centre offers one year Apprenticeship Training Programme (PASAA) to the COPA trade passed out candidates, in collaboration with Ministry of Labor, Govt. of India since 2006.

The Centre completed 8 batches of trainees successfully. The Computer Centre staff conduct regularly both theory and field training to these trainees and also conduct the All India Trade Test as per the direction of Regional Directorate of Apprenticeship Training (RDAT), Chennai under Ministry of Labour, Govt. of India.

It also assists the passed out trainees for placement.

Year	# of Trainees		
	Sanctioned	Admitted	Completed
2013 - 2014	10	7	7

## C. RESEARCH

The Centre staff are actively involved in research in collaboration with the Dept. of Computer Science, School of Engineering & Technology of Pondicherry University and published research papers on various International Journals/ Conferences.

### ***K.Palanivel, Systems Analyst***

- ❖ With S. Kuppaswami, **Architecture Solutions to E-learning Systems Using Service-Oriented Cloud Computing Reference Architecture**, International Journal of Application or Innovation in Engineering (IJIEM), Vol.3(3), pp:547-559, March 2013. (JIF: 3.115)
- ❖ With S. Kuppaswami, **A Cloud-Oriented Reference Architecture to Digital Library Systems**, Book edited By Sangeetha N. Dhamdhare, titled "Cloud Computing and Virtualization Technologies in Libraries", IGI Global Disseminator of Knowledge, 2013, (ISBN 13: 9781466646315).
- ❖ With S. Kuppaswami, **A Service-Oriented Reference Architecture for Digital Library Systems**, Book edited By Sangeetha N. Dhamdhare, titled "Cloud Computing and Virtualization Technologies In Libraries", IGI Global Disseminator of Knowledge, 2013, (ISBN 13: 9781466646315).

## D. COMMITTEE MEMBERSHIP

### ***Marie Stanislas Ashok, Systems Manager & Head***

- i. Member of committee for providing integrated voice, data, and video services on the campus.
- ii. Member of committee for Web portal – VCRC, Puducherry.
- iii. Member of committee for Library Automation
- iv. Member of committee for Online Admission

### ***K. Palanivel, Systems Analyst***

- i. Nodal Officer, NMEICT/NKN.

## E. WORKSHOPS/PROGRAMMES CONDUCTED

S/N	Title of the Events	Target Audience	Duration	Date	# of Participants
1	Workshop on Mobile Applications Development using Android: A Practical Approach	Faculty, Research Scholars, Students	1 day	15.03.2014	58
2	Orientation Programme on E-learning using MOODLE	Technical Staff	1 day	05.12.2013	15
3	Workshop on A-VIEW	Faculty	1 day	11.12.2013	108
4	Awareness on Task Management & Statistical Reporting using Analou	Research Scholars, Students	1 day	25.07.2013	62

## F. TRAINING PROGRAMMES PARTICIPATED

### K. Palanivel, Systems Analyst

- i. Participated in Three days “Workshop on National Mission on Education through ICT (NMEICT)”, Indian Institute of Science, Bengaluru, 17-19 October, 2013.
- ii. Participated in Two days “Training on GCLM and A-VIEW 3.7” conducted by Amrita University, Amrithapuri, Kerala, 25-26 March, 2014.

### W.J. Kalesha, Programmer

- iii. Participated in one-day “*Workshop on Mobile Applications Development using Android: A Practical Approach*” conducted by Computer Centre, Pondicherry University on 15/03/2014.
- iv. Participated in one-day “*Orientation Programme on E-learning using MOODLE*” conducted by Computer Centre, Pondicherry University on 5/12/2013.
- v. Participated in one-day “*Workshop on A-VIEW*” conducted by Computer Centre, Pondicherry University on 11/12/2013.
- vi. Participated in one-day “*Awareness Programme on Task Management & Statistical Reporting using Analou*” conducted by Computer Centre, Pondicherry University on 25/07/2013.

### S. Kanagalingam Senior Technical Assistant

- i. Participated in one-day “*Workshop on Mobile Applications Development using Android: A Practical Approach*” conducted by Computer Centre, Pondicherry University on 15/03/2014.
- ii. Participated in one-day “*Orientation Programme on E-learning using MOODLE*” conducted by Computer Centre, Pondicherry University on 5/12/2013.
- iii. Participated in one-day “*Workshop on A-VIEW*” conducted by Computer Centre, Pondicherry University on 11/12/2013.
- iv. Participated in one-day “*Awareness Programme on Task Management & Statistical Reporting using Analou*” conducted by Computer Centre, Pondicherry University on 25/07/2013.

**B. Rasan, Senior Technical Assistant**

- i. Participated in one-day “*Workshop on Mobile Applications Development using Android: A Practical Approach*” conducted by Computer Centre, Pondicherry University on 15/03/2014.
- ii. Participated in one-day “*Orientation Programme on E-learning using MOODLE*” conducted by Computer Centre, Pondicherry University on 5/12/2013.
- iii. Participated in one-day “*Workshop on A-VIEW*” conducted by Computer Centre, Pondicherry University on 11/12/2013.
- iv. Participated in one-day “*Awareness Programme on Task Management & Statistical Reporting using Analou*” conducted by Computer Centre, Pondicherry University on 25/07/2013.

**P. Chinnachamy, Senior Technical Assistant**

- i. Participated in one-day “*Workshop on Mobile Applications Development using Android: A Practical Approach*” conducted by Computer Centre, Pondicherry University on 15/03/2014.
- ii. Participated in one-day “*Orientation Programme on E-learning using MOODLE*” conducted by Computer Centre, Pondicherry University on 5/12/2013.
- iii. Participated in one-day “*Workshop on A-VIEW*” conducted by Computer Centre, Pondicherry University on 11/12/2013.
- iv. Participated in one-day “*Awareness Programme on Task Management & Statistical Reporting using Analou*” conducted by Computer Centre, Pondicherry University on 25/07/2013.

**S. Balan, Technical Assistant**

- i. Participated in one-day “*Workshop on Mobile Applications Development using Android: A Practical Approach*” conducted by Computer Centre, Pondicherry University on 15/03/2014.
- ii. Participated in one-day “*Orientation Programme on E-learning using MOODLE*” conducted by Computer Centre, Pondicherry University on 5/12/2013.
- iii. Participated in one-day “*Workshop on A-VIEW*” conducted by Computer Centre, Pondicherry University on 11/12/2013.
- iv. Participated in one-day “*Awareness Programme on Task Management & Statistical Reporting using Analou*” conducted by Computer Centre, Pondicherry University on 25/07/2013.
- v. Nettech Course on Network Management conducted by Department of Computer Science, Pondicherry University from 18/3/2014 to 7/04/2014.

**A. Sivarajan, Technical Assistant**

- i. Participated in one-day “*Workshop on Mobile Applications Development using Android: A Practical Approach*” conducted by Computer Centre, Pondicherry University on 15/03/2014.
- ii. Participated in one-day “*Orientation Programme on E-learning using MOODLE*” conducted by Computer Centre, Pondicherry University on 5/12/2013.
- iii. Participated in one-day “*Workshop on A-VIEW*” conducted by Computer Centre, Pondicherry University on 11/12/2013.

- iv. Participated in one-day “*Awareness Programme on Task Management & Statistical Reporting using Analou*” conducted by Computer Centre, Pondicherry University on 25/07/2013.
- v. Nettek Course on Network Management conducted by Department of Computer Science, Pondicherry University from 18/3/2014 to 7/04/2014.

**A. Balquisby, Computer Assistant**

- i. Participated in one-day “*Orientation Programme on E-learning using MOODLE*” conducted by Computer Centre, Pondicherry University on 5/12/2013.
- ii. Participated in one-day “*Workshop on A-VIEW*” conducted by Computer Centre, Pondicherry University on 11/12/2013.
- iii. Participated in one-day “*Awareness Programme on Task Management & Statistical Reporting using Analou*” conducted by Computer Centre, Pondicherry University on 25/07/2013.

**IV. INTERNET & ALLIED SERVICES**

**A. INTERNET**

Internet access is being provided through a 220 Mbps Internet Leased Line (ILL) from M/s BSNL, Puducherry. Any user on the campus computer network can have access to Internet. E-mail access is provided to all faculty, staff and research scholars. This is provided all through the year on 24 x 7 basis.

Year	Service Provider	Bandwidth
2013 - 2014	BSNL, Puducherry	220 Mbps
	NMEICT	1 Gbps(Intranet), 150 Mbps (Internet)

**B. NATIONAL KNOWLEDGE NETWORK**

Pondicherry University is one among the few institutions in the country to be provided 1 Gbps connectivity to the National Knowledge Network (NKN) which is an ambitious project of the Government of India to connect all Universities and colleges in the country. Currently 150 Mbps internet access is enabled on this network. Computer Centre is responsible for its operations and maintenance on the campus.

Access to online journals provided is now made available on this NKN platform. Besides access to internet, NKN serves as a platform to share knowledge among the educational institutions across our country.

Some of the events conducted through online/NKN are given below:

S/N	Events Conducted	Date	Mode of Conduct
1	First meeting of the <i>Advisory Committee of Pondicherry University Renewable Energy &amp; Sustainability Cell (PURE&amp;SC)</i> by G. Poyyamoli, Associate Professor, Dept. of Ecology & Environmental Sciences	16/07/2014	A-VIEW
2	<i>Vice-Chancellor's Interaction Programme with MHRD</i>	24/03/2014	A-VIEW

3	<b>Online Inauguration of Special Training Programme</b> at Karaikal Campus of Pondicherry University	29/02/2014	Video conferencing
4	<b>Electoral Reforms in India</b> by Shri. Navin B. Chawla, Former Chief Election Commissioner of India	03/02/2014	Video conferencing
5	<b>President's Address through Video Conferencing to Faculty Members &amp; Scholars/Students of All Central Universities through NKN</b>	07/01/2014	Video conferencing
6	<b>Join the Conversation</b> with Mr. Sam Pitroda, Adviser to the Prime Minister & Chairman, National Innovation Council and Ms. Nandita Das, eminent Film Director and Actor through NKN	24/11/2013	Video conferencing
7	<b>23<sup>rd</sup> Convocation Speech</b> by His Excellency Shri. Pranab Mukherjee, President of India	25/09/2013	Webcasting
8	<b>Interaction with Mr. Mani Shankar Aiyar - South Asia Foundation (SAF) Chairperson</b>	01/08/2013	Video conferencing
9	<b>Finance Committee Meeting</b> with Mr. A.K Singh, MHRD by Finance Officer, Finance Section	28/06/2013	A-VIEW

### C. WEB AND E-MAIL SERVICES

The bilingual University web portal caters to the dissemination of information of the various programmes, functions and announcements (circulars, notices, etc.,) for its stakeholders. E-circulars, e-mail and other notices published on the web portal helped the University to implement green practices, enhance transparency, reachability and efficiency in its functioning.

Provided e-mail facility to all officers and teaching community of this University numbering about 803 users.

### D. PROMOTION OF FOSS

The Computer Centre promotes Free and Open Source Software (FOSS) in the campus. All the servers - Web, Mail, LDAP, etc., run on FOSS Operating Systems & Tools.

### E. ONLINE ADMISSIONS

The Computer Centre was entrusted with the task of planning and execution of conduct of Admissions through online mode for the year 2014-15. Within a short period of less than 3 weeks, it has identified the requirements for this task, prepared the RFP document, Online Application Form, etc and called for Tender for selection of a competent Service Provider for this purpose.

## F. IN-HOUSE SOFTWARE DEVELOPMENT

The following software were developed either in-house or through outsourcing to meet the growing requirements of the various sections/ departments of the University.

S/N	Name of the Software	Status
1	Electrical Engineering Complaints Management System	Implemented
2.	On-line Admission Payment Gateway for DDE (outsourced)	Implemented
3.	Civil Engineering Services Complaint Management System	Under User Acceptance
4	Transport Management System	Implemented
5	Counselling Automation	Under Implementation
6	Establishment Management System	Under Implementation
7	On-line Admission (Admission 2014-2015)	Planning, Requirements Analysis

## V. INFRASTRUCTURE

### A. SOFTWARE

S/N	Platform	Software
1	<i>MS Windows</i>	<ul style="list-style-type: none"> <li>• Microsoft Windows 7 / 8 / 8.1 Professional</li> <li>• Microsoft Windows 2003/2008 /2008 R2 Enterprise/Standard Server</li> <li>• Microsoft Visual Studio Professional 2010/2012</li> <li>• Microsoft Access and SQL Server 2010/2012</li> <li>• Microsoft Project 2013, MS Office Professional 2013</li> <li>• Macromedia Suite (Director/ Flash/ Fireworks/ Dreamweaver), Adobe Acrobat Editor.</li> </ul>
2	<i>Linux Platform</i>	<ul style="list-style-type: none"> <li>• Sun Solaris 9.0/10.0</li> <li>• Red Hat Linux Advanced Server 4.0</li> </ul>
3	<i>Adobe Products</i>	<ul style="list-style-type: none"> <li>• Adobe Creative Premium Full Set</li> <li>• Macromedia Studio MX Full Set</li> <li>• PageMaker 6.5/7.0</li> </ul>
4	<i>Statistical Products</i>	<ul style="list-style-type: none"> <li>• SPSS 19.0 (170 users network license)</li> <li>• Systat 13.0 (40 users network license)</li> </ul>
5	<i>On-line Databases</i>	<ul style="list-style-type: none"> <li>• online access to Prowess from CMIE (Renewed)</li> </ul>
6	<i>Programming</i>	<ul style="list-style-type: none"> <li>• Borland C++</li> </ul>

	<i>Languages</i>	
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## B. HARDWARE

S/N	Type of HW	Software	Quantity
1	<i>Servers</i>	i. DELL – Intel Xeon 6 – core Blade servers	8 1
		ii. SAN storage server	1
		iii. HCL – Intel Xeon Quad Core server	4 4
		iv. HCL – Intel Xeon server	
		v. HCL – Intel Pentium 4 server	
2	<i>Desktop Systems/ Laptops</i>	i. HCL - Intel Core i5 Desktop PC	45
		ii. HCL - Intel Pentium Dual Core Desktops	10 2
		iii. HP - Intel Core i5 Laptop	3
		iv. HCL – Intel Core i3 Laptop	
3	<i>Peripherals</i>	• Multifunctional printer	2
		• Laser printer	12
		• Scanner	3
		• DLP Projector	1

## VI. DETAILS OF ACADEMIC / SCIENTIFIC & TECHNICAL STAFF

The following are the Academic & Technical staff working in the Centre.

S/L	Name	Position	Qualifications	Nature of Work
<b>Academic Staff</b>				
1	Marie Stanislas Ashok	Systems Manager & Head	M.E. (Anna University)	Academic, Training & Research
2	Palanivel K	Systems Analyst	M.Tech. (Pondicherry University)	Academic, Training & Research
3	Kalesha W.J.	Programmer	B.E. (Anna University)	Academic, Training & Research
<b>Scientific/ Technical Staff</b>				
1	Kanagalingam S	<i>Senior Technical Assistant</i>	M.C.A. (Madurai Kamaraj University)	Scientific/ Technical
2	Rasan B	<i>Senior Technical Assistant</i>	M.C.A. (University of Madras)	Scientific/ Technical



3	Chinnachamy P	<i>Senior Technical Assistant</i>	B.E. (Madurai Kamaraj University)	Scientific/ Technical
4.	Balan S	Technical Assistant	B.Tech (AnnaUniversity)	Scientific/ Technical
5	Sivarajan A	Technical Assistant	B.Tech. (Pondicherry University)	Scientific/ Technical
7	Balquisby A	<i>Computer Assistant</i>	M.C.A. (Pondicherry University)	Scientific/ Technical
<b>Contract Staff</b>				
8	Ganapathy A	<i>Technical Assistant</i>	B.E. ( Anna University)	Scientific/ Technical
9	Chithra B	<i>Lab Assistant</i>	M.Sc. (CS) Pondicherry University	Scientific/ Technical