Research Output of CIIT Lahore
In Year 2011

VOL—II
MATHEMATICS
ELECTRICAL ENGINEERING
CHEMICAL ENGINEERING
IRCBM
COMPUTER SCIENCE
PHYSICS
HUMANITIES
ARCHITECTURE

Compiled By:
Library Information Services
COMSATS Institute of Information Technology
Lahore

Defense Road, Off Raiwind Road, Lahore - Pakistan
Ph. # 111 001 007 Ext. 855, 856
Library.ciitlahore.edu.pk
Preface:

CIIT is not only providing quality education but also producing the valued research publications. Due to this research work, the CIIT got its better ranking in Pakistan and Higher Education Commission declared CIIT at number one of Computer Sciences and overall at No. Nine among 122 Pakistani Universities.

The credit goes to the researchers of CIIT, who, as usual, produced lot of papers in the year 2011. For this accomplishment, the contribution of researchers of CIIT Lahore is also extraordinary. They produced 244 journal and conference papers during the year 2011.

The compilation in your hands is consists on the papers which published during the year 2011 and at CIIT platform. We only included journal and conference papers for this anthology. The purpose of this compilation is to record the research work of our faculty members and also to facilitate the users to get all the research papers of all departments in one binding. Apart from the record, I am also sure that this compilation will provide the guidelines to new researchers of CIIT and to the researchers of other institute, as well.

Due to its bulk, the compilation is in two volumes. Volume-I consists the journal and conference papers of the faculty of Management Sciences. Research articles for rest of the departments are in volume II.

Dr. Talat Afza, Head of Academic & Research / Convener Library Affairs Committee, not only provided the guidelines but also she took personal interest to prepare this compilation in appropriate form. Without her help, it was very difficult to prepare this collection of research articles. Mrs. Fatima Usman, Assistant Librarian also did a very good job to convert the articles into a compilation.

With regards.

MUHAMMAD ISHTIAQ
Incharge, Library Information Services
CIIT Lahore

June 25, 2012
### SUMMARY

#### RESEARCH PUBLICATION OF CIIT LAHORE FOR YEAR 2011

<table>
<thead>
<tr>
<th>Departments</th>
<th>Journal Papers</th>
<th>Conf. Papers</th>
<th>Total</th>
</tr>
</thead>
<tbody>
<tr>
<td>Management Sciences</td>
<td>114</td>
<td>14</td>
<td>128</td>
</tr>
<tr>
<td>Mathematics</td>
<td>34</td>
<td>0</td>
<td>34</td>
</tr>
<tr>
<td>Electrical Engineering</td>
<td>15</td>
<td>12</td>
<td>27</td>
</tr>
<tr>
<td>Chemical Engineering</td>
<td>23</td>
<td>0</td>
<td>23</td>
</tr>
<tr>
<td>IRCBM</td>
<td>10</td>
<td>0</td>
<td>10</td>
</tr>
<tr>
<td>Computer Science</td>
<td>9</td>
<td>0</td>
<td>9</td>
</tr>
<tr>
<td>Physics</td>
<td>8</td>
<td>0</td>
<td>8</td>
</tr>
<tr>
<td>Humanities</td>
<td>3</td>
<td>1</td>
<td>4</td>
</tr>
<tr>
<td>Architecture</td>
<td>0</td>
<td>1</td>
<td>1</td>
</tr>
<tr>
<td><strong>Total</strong></td>
<td><strong>216</strong></td>
<td><strong>28</strong></td>
<td><strong>244</strong></td>
</tr>
</tbody>
</table>

![Graph showing publication by departments]

**Journal Papers**

- Mgt. Sc, 114
- Math, 9
- CS, 10
- ChE, 23
- EE, 15
- Mgt. Sc, 114
- Math, 34
- Phy, 8
- Human, 3
A. Department of Management Science

Journal Papers


Conference Paper


Journal Papers

time-fractional fourth-order differential equations with variable coefficients. *Journal of king
Saud University*. 23. 91-98
time-fractional Swift-Hohenberg (S-H) equation. *Computers and mathematics with
application*.61. 2182-2185
viscoelastic non-Newtonian fluid. *Archives of applied mechanics*. 5(82).
unsteady torsional sinusoidal flow of fractional viscoelastic fluid in an annular cylinder.
*Journal of king Saud University*. 23.341-347
150. Mahmood, A. Qureshi, M A and Shahbaz, Q. (2011). An examination of the quality of
tact knowledge sharing through the theory of reasoned action. *Journal of quality and
technology management*. I (VII). 39-55
comments on He’s homotopy-perturbation method for solving higher-order boundary value
problems. *Nonlinear analysis forum*. (16). 137-146
unsteady longitudinal flow of an oldroyd-B fluid with fractional model. *Chemical engineering
communications*. 199(2). 290-305
*Numerical analysis and applications*. 3(4). 297-302
160-165
*Nonlinear analysis forum*. (16). 133-136
applied science journal 12(12).2279-2282
probability distributions. Applied mathematical letter. 24. 545-552
fluids through a circular cylinder. *Commun nonlinear sci numer simulate*. 16. 226-238
derivatives and slip at the wall. *International review of chemical engineering*. 6(3). 822-826
C. Department of Electrical Engineering

Journal Papers


Conference Papers:


D. Department of Chemical Engineering

Journal Papers


US patent application publication


E. Department of IRCBM

Journal Papers


219. Saleem, M. Siddiqi, S A, Atiq,S and Anwar, S M. (2011). Structural and magnetic studies of Zn0.95Co0.05O and Zn0.90Co0.05Al0.05O. *Chinese physics letters*. 11(28).


F. Department of Computer Science

Journal Papers


G. Department of Physics

Journal Papers


F. Department of Humanities
Journal Papers


Conference Paper


G. Department of Architecture

Conference Papers