


Dr. Sakshi Patni		
Designation	Assistant Professor	
Qualification	Ph.D, MCA, BCA	
Area of Interest	Cloud Computing	
Email	drsakshi.mca@piet.co.in	
D.O.J.	20 th January 2022	

Faculty Profile

Faculty Name	Dr. Sakshi Patni
Designation	Assistant Professor
Qualification	Ph.D
Email	drsakshi.mca@piet.co.in
Area of Interest	Cloud Computing
Work Experience (Total)	
<ul style="list-style-type: none"> • Teaching 	11 months
<ul style="list-style-type: none"> • Research 	5 years
<ul style="list-style-type: none"> • Industry 	
<ul style="list-style-type: none"> • Others 	
Courses taught at Diploma/ Post Diploma/ Under Graduate/ Post Graduate/ Post Graduate Diploma Level	Computer Networks, Data Structure, DBMS, Operating Systems, E Commerce, Cloud Computing, COA
Membership of Professional Bodies	IEEE Research Fellow
Research Publications	
<ul style="list-style-type: none"> • Research Papers UGC-CARE 	1
<ul style="list-style-type: none"> • Research Papers SCOPUS 	9 (Journal+Conferences)
<ul style="list-style-type: none"> • Research Papers WoS/SCI/ABDC 	2 SCI
<ul style="list-style-type: none"> • List of Publications 	Published/Accepted Papers i) Sakshi Chhabra, Ashutosh Kumar Singh, “Dynamic Hierarchical Load Balancing Model for Cloud Data Center Networks”, IET Electronic Letters, Volume 55, Issue 2, 24 January 2019, p. 94 - 96. (SCI) ii) Sakshi Chhabra, Ashutosh Kumar Singh,

“Dynamic Resource Allocation Method for Load Balance Scheduling over Cloud Data Center Networks”, Journal of Web Engineering. (SCI)

iii) Sakshi Chhabra, Ashutosh Kumar Singh. “OPH-LB: Optimal Physical Host for Load Balancing in Cloud Environment”, Pertanika Journal of Science & Technology, Volume 26, Issue 3, 2018. (Scopus)

iv) Sakshi Chhabra, Ashutosh Kumar Singh, “Secure VM Allocation Scheme to Preserve against Co-Resident Threat”, International Journal of Web Engineering and Technology, Inderscience 2020, Vol. 15 No. 1, pp. 96 - 115. (Scopus)

v) Sakshi Chhabra, Ashutosh Kumar Singh, “Security Enhancement in Cloud Environment using Secure Secret Key Sharing”, Journal of Communication Software and Systems, Vol. 16 no. 3, 2020. DOI

<http://dx.doi.org/10.24138/jcomss.v16i3.964>. (Scopus)

vi) Sakshi Chhabra, Ashutosh Kumar Singh, “Beyond Lightning: A Systematic review of Information Security in the Age of Cloud Computing using Key Management”, International Journal of Computer Engineering and Applications, January 10th, 2018, Volume XI Issue XII.

Sakshi Chhabra, Ashutosh Kumar Singh, “Dynamic data leakage detection model based approach for MapReduce computational security in cloud”, 2016 Fifth International Conference on Eco-friendly Computing and Communication Systems

	<p>(ICECCS), Bhopal, 2016, pp. 13-19, doi: 10.1109/Eco-friendly.2016.7893234. (Scopus)</p> <p>viii) Sakshi Chhabra, Ashutosh Kumar Singh. “A Probabilistic Model for Finding an Optimal Host Framework and Load Distribution in Cloud Environment”, <i>Procedia Computer Science</i> 125 (2018): 683-690. (Scopus)</p> <p>ix) Sakshi Chhabra, Ashutosh Kumar Singh, “Optimal VM Placement Model for Load Balancing in Cloud Data Centers”, <i>ICSCC 2019, International Conference on Smart Computing and Communications, Curtin University, Miri, Malaysia. (Got Best Paper Award)</i> (Scopus)</p> <p>x) Sakshi Chhabra, Ashutosh Kumar Singh, “A probabilistic model for optimal Host Allocation during Load Balancing in Cloud Environment”, <i>Vigyan Prakash Hindi Conference</i></p> <p>xi) Sakshi Chhabra, Ashutosh Kumar Singh, “C-DHLB: Classified Dynamic Hierarchical Load Balancer for Cloud Data Centers" in <i>Information Processing Letters</i> (SCI, since April 2020).</p> <p>xii) Sakshi Chhabra, Ashutosh Kumar Singh, “Secure and Energy Efficient Dynamic Hierarchical Load Balancing Framework for Cloud Data Centers" in <i>Microprocessors and Microsystems. (SCI, since July 2020)</i></p>
<p>Book and Chapter Publications</p>	
<ul style="list-style-type: none"> • Books Authored published by International Publishers 	
<ul style="list-style-type: none"> • Books Authored published by National 	

Publishers	
• Publication of Chapter in Edited Books	
• Editor of Book by International Publishers	
• Editor of Book by National Publishers	
• Translation Work of Book	
• List of Book and Chapter Publications	
Patents	
• Published	
• List of published patent(s)	
• Filed	
• List of filed patent(s)	
PhD Guidance	
• Degree Awarded	December 2020
• Thesis Submitted	October 2020
M.Tech. Guidance	
• Degree Awarded	
• Thesis Submitted	
Research Project	
• List of Research project	Visvesvaraya Research SCHEME
Consultancy	
• List of Consultancy	
Awards & Honours	
• List of Awards & Honours	<ul style="list-style-type: none"> ❖ Received scholarship from Ministry of Electronics and IT (Miety) in Visvesvaraya PhD scheme for Electronics and Information Technology from 2015 to 2020, Full-time Ph.D from NIT Kurukshetra. ❖ Received Best paper Award for a track in the International Conference: Optimal VM Placement Model for Load Balancing in Cloud Data Centers, Procedia of 7th International Conference on Smart

	<p>Computing & Communications, IEEE Xplore, Sarawak, Malaysia.</p>
<p>Invited lectures / Resource Person/ paper presentation in Seminars/ Conferences/full paper in Conference</p>	<ul style="list-style-type: none"> ❖ Attended and presented a conference paper in Sixth International Conference on Smart Computing and Communication (ICSCC) held in December 2017 in NIT Kurukshetra, India. ❖ Participated as a research fellow under Visvesvaraya PhD Scheme for Electronics & Information Technology in the Research Evaluation workshop held at AU College of Engineering, Vishakhapatnam during 16-17 November, 2017. ❖ Attended and presented a conference paper in Fifth International Conference on Eco-friendly Computing and Communication Systems (ICECCS) held in December 2016 in MANIT Bhopal, India. ❖ Participated as a research fellow in Next Generation Computing: Research and Challenges NGC'16) workshop organized by Department of Computer Engineering, held on 27th June- 1st July 2016, NIT Kurukshetra, India.
<ul style="list-style-type: none"> • International (Abroad) 	
<ul style="list-style-type: none"> • International (Within Country) 	
<ul style="list-style-type: none"> • National 	
<ul style="list-style-type: none"> • List of published papers 	
<p>Organizing National Conference/ International Conference/ FDP/STTP</p>	
<ul style="list-style-type: none"> • List of Conference/FDP/STTP 	

committee	
Social Contributions and Sports	
<ul style="list-style-type: none">• List of Social Contributions and Sports	