

LIST OF PUBLICATIONS

(Total Number of Papers in Journals=84)

NATIONAL JOURNALS

2014

1.B. P. Singh , Isotopic composition of water in precipitation in the catchment area of the river and the different seasons," Hydrology J., vol. 37(1-5), Issue 1 - 5 , 2014, ISBN:

2325-9647



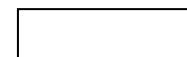
2.D.K. Pandey, D. Singh, V. Bhalla, S.Tripathi and R.R. Yadav, "Temperature dependent elastic and ultrasonic properties of ytterbium monopnictides", Ind. J. Pure Appl. Phys., vol. 52 (5), pp – 330-336, May, 2014, ISSN: 0975-1041 (Online); 0019-5596

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3.S. Prakash, A.K. Agarwal, A. Gupta, S. Garg, S. Jain, S. Sharma and S.S. Jamwal, "A cost-time trade-off Konigsberg bridge problem traversing all the seven bridges allowing repetition" OPSEARCH, 52 (2), pp. 183-200, June 2014. ISSN: 0030-3887 (print)ISSN: 0975-0320 (online)

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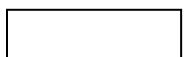
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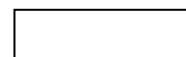
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4.S. K. Chauhan, R. Tuli and P. K. Singh, "A heuristic technique to find parato optimal solutions of the Bicriterian sheet Metal problem" Int. J. Adv. Eng. Sc., vol. 4 (1), pp. 27-34, October, 2014, ISSN: 2331-2013(Print); 2231-0347(online).

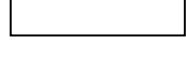
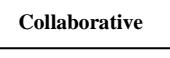


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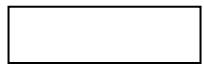
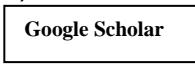
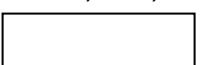
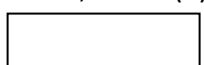
5.S. Kaushik, V. Bhalla and D. Singh, "Temperature dependent elastic and ultrasonic properties of silver halides", J. Pure Appl. Ultrason., vol. 36(4), pp. 85-90, Oct.-Dec.

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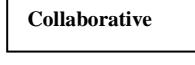
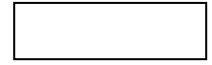
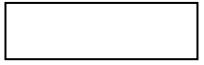


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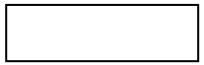
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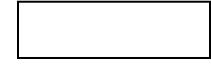
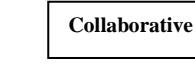
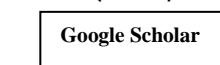
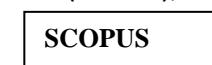
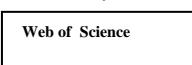
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8.P. K. Singh, "Design and analysis a spiral flow catalytic converteor", Int. J. Adv. Eng. Sc., vol 5 (3), pp. 26-31, March 2015, ISSN: 2231-2013(print); ISSN: 2231-0347(online)



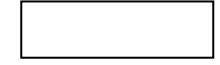
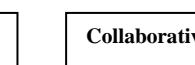
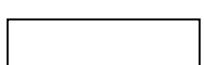
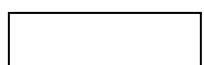
9.D. Singh, V. Bhalla, R. Kumar and S. Tripathi, "Behaviour of acoustical phonons in CeAs in low temperature region", Ind. J. Pure Appl. Phys., vol. 53 (3), pp. 169-174, March 2015, ISSN: 0975-1041 (Online); 0019-5596 (Print).



10.V. Pandey, G. Mishra, M. Wan, D. Singh, A.K. Tiwari, R.R. Yadav and B. Mishra. Characterization of Cu-PVA nanofluids: Ultrasonic and thermal properties, J. Pure Appl. Ultrason., vol. 37(2-3), pp. 33-38, April-Sept. 2015, ISSN 0256-4637



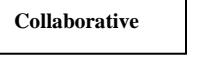
11.R. Tuli and S. Sharma, "Efficient solutions of the interval valued bicriteria shortest path problem", Int. J. Math. Arch., vol. 6(5), pp. 1-9, May 2015, ISSN 2229 – 5046



12. P. Singh and D. Pramanik, "Structural and thermal analysis of a C.I engine pistons of different materials without cooling using FEM technique," MR Int. J. Eng. Tech., vol. 7(1), pp. 41 – 48, June 2015, ISSN: 0975-4997

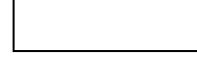
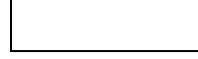
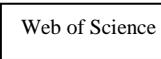


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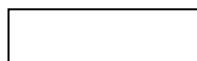
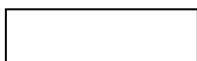


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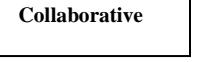
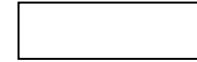
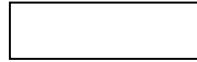
14. Vyoma Bhalla and Devraj Singh, Anisotropic assessment of ultrasonic wave velocity and thermal conductivity in ErX (X: N, As), Ind. J. Pure Appl. Phys., Vol. 54, No. 1, pp. 42-48, January 2016, ISSN: 0975-1041 (Online), 0019-5596 (Print)



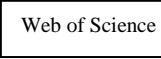
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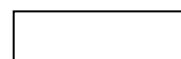
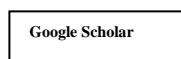
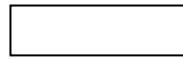
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18.R. Agarwal and P. Nayak, "Linear Multiuser Detectors using Linear, Circular and Concentric Circular Antenna Arrays in CDMA Communication systems", WSEAS Transac. Commun., vol 13, pp. 256-262, Jan. 2014, ISSN: 2224-2864



19.D. Singh, S. Kaushik, S. Tripathi, V. Bhalla and A.K.Gupta, Temperature dependent elastic and ultrasonic properties of berkelium monopnictides, Arab. J. Sc. Eng., vol. 39(1), pp. 485-494, Jan. 2014, ISSN: 1319-8025 (Print) 2191-4281 (Online)

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20.D. Singh, V. Bhalla, S. Tripathi, V. K. Singh and A.K. Gupta, Ultrasonic properties of plutonium monochalcogenides, Univ. J. Phys. Appl., vol. 2(1), pp. 1-6, Jan. 2014, ISSN: 2331-6535 (Print); 2331-6543 (Online)

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24.H. D. Arora, V. Kumar, A. Dhiman "Weighted Performance Function for (r, s)-Entropy of Discrete Memoryless Communication Channel under Single Constraint", Int. J. Mod. Opt., vol. 4(1), pp.17-20, Feb. 2014, ISSN: 2010-3697

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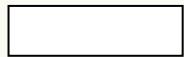
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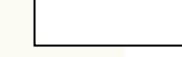
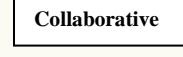
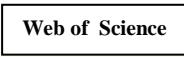
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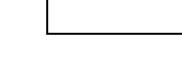
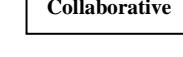
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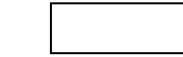
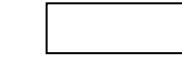
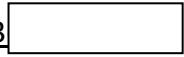
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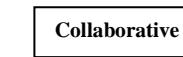
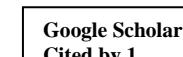
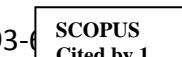
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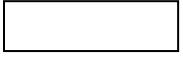
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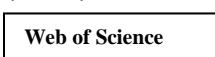
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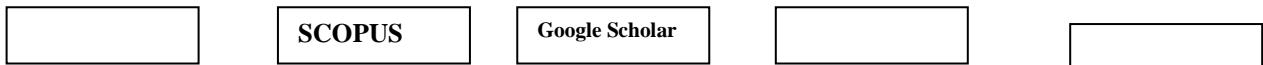


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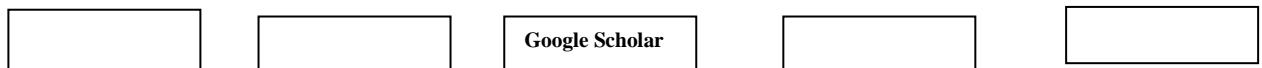
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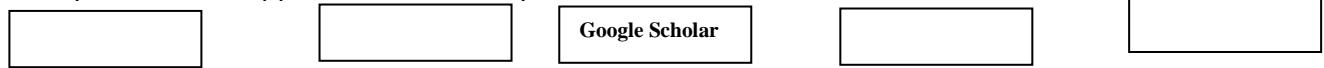
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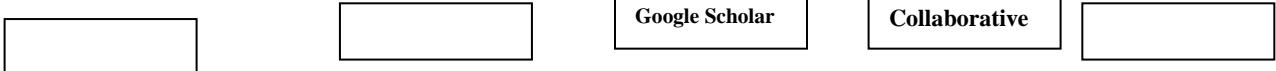
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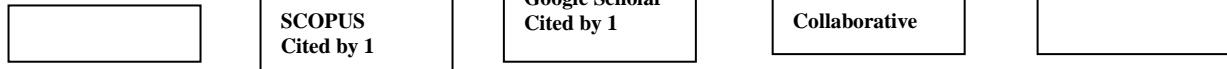


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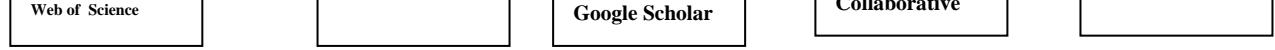


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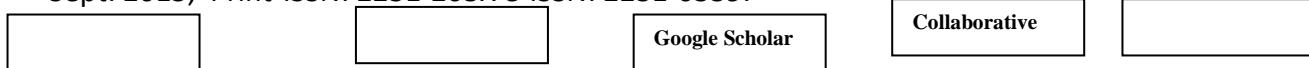
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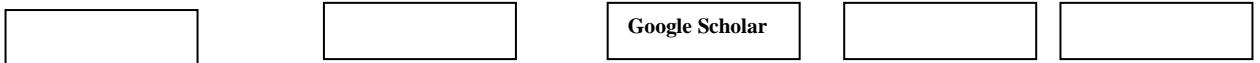
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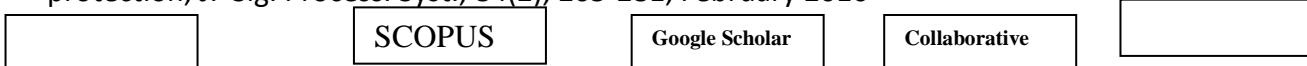
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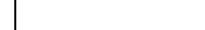
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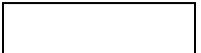
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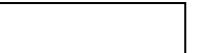


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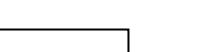
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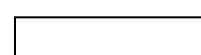
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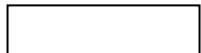


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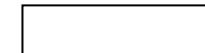


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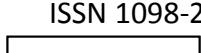
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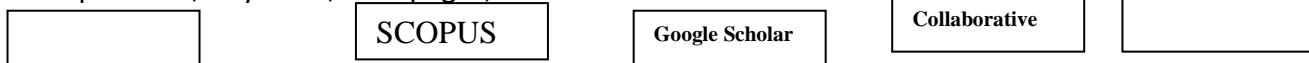
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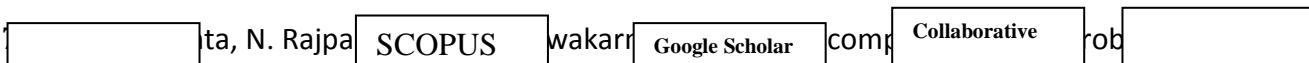
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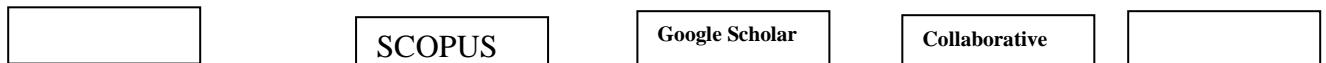
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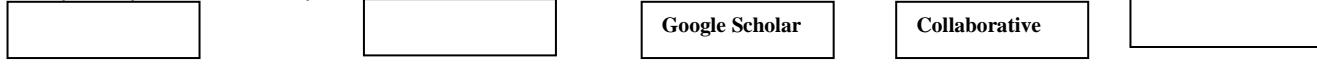
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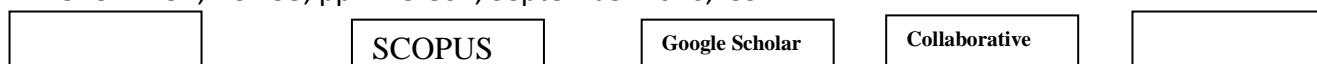
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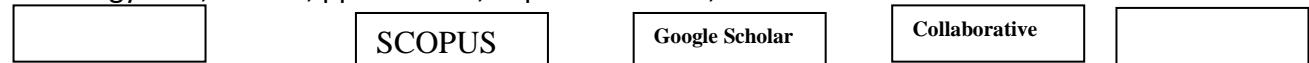
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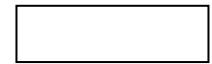
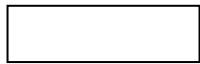
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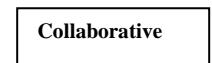
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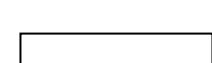
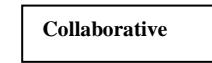
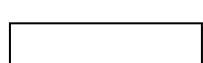
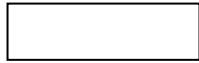
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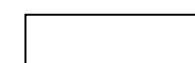
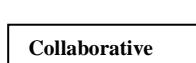
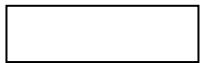
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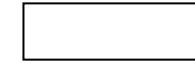
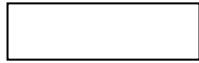
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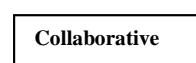
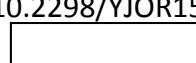
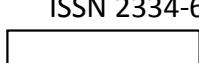
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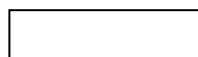
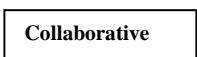
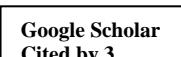
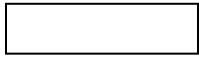
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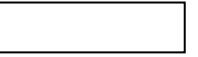
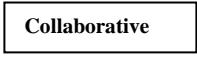
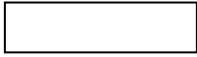
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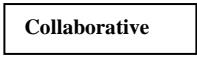


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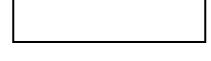
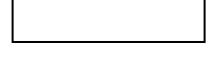
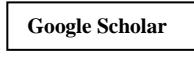
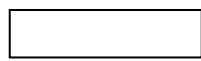
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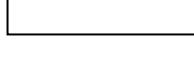
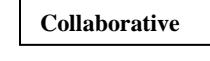
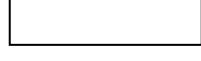
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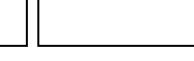
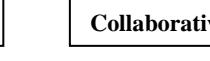
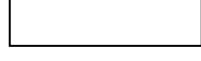
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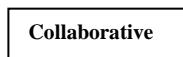


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10.Manjula Vиж, R.S Gupta, Sujata Pandey, Computational Analysis of Potential Profile of III-V Heterojunction Gate-All-Around Tunneling FET for Low Power Digital Circuits, IEEE xplore (Conference Proceedings), 978-1-5090-0774-5



11.Manander Singh, Safety and reliability analysis of composites under low velocity impact, ASME 2016 35th International Conference on Ocean, Offshore and Arctic Engineering OMAE2016, June 19-24, 2016



BOOKS (Total Number of Books=23)

2014

- 1.Ishwar Singh, Human Values & Professional Ethics, New Delhi: Dhanpat Rai & Co., 2014,140 pages. ISBN 978-81-7700-104-4
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- 4.Shashi Chawla, Textbook of Engineering Chemistry for GGSIPU, 8th ed., New Delhi: Dhanpat Rai & Co., 2013, 516 pages. ISBN 978-81-7700-098-6
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- 8.Devraj Singh, R. B. Gautam, A. K. Shukla and P. K. Mishra, Applied Physics, 2nd ed., New Delhi: University Science Press, 2014, 574 pages. ISBN 978-93-80386-88-1
- 9.Devraj Singh, J. Kumar and Sudhanshu Tripathi, Circuit Fundamentals and Basic Electronics, New Delhi: IK International, 2014, ISBN 978-93-82332-57-2
- 10.R. R. Yadav, Devraj Singh, S.P. Singh and D.K. Pandey, Modern Physics for Scientists and Engineers, New Delhi: Printice-Hall of India, 2014, 544 pages. ISBN 978-81-203-4858-5

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- 12.Shashi Chawla, Chemistry for RGPV, 7th ed., New Delhi: Dhanpat Rai & Co., 2015, 350 pages. 978-81-7700-040-5
- 13.Shashi Chawla, Textbook of Engineering Chemistry for KTU, 7th ed., New Delhi: Dhanpat Rai & Co., 2015, 339 pages. ISBN 978-81-7700-168-6
- 14.Sudhanshu Tripathi, S.K. Pandey and Devraj Singh, Electronic Devices, New Delhi: Dhanpat Rai & Co., 2015, 358 pages. ISBN 978-81-7700-109-9
- 15.Devraj Singh, Engineering Physics, 5th ed., Vol. 2. New Delhi: Dhanpat Rai & Co., 2015, 460 pages. ISBN 978-81-7700-020-7
- 16.Devraj Singh, Fundamentals of Optics, 2nd ed., New Delhi: Printice-Hall of India, 2015, 610 pages. ISBN 978-81-203-5146-2
- 17.Devraj Singh, Applied Optics, New Delhi: Printice-Hall of India, 2015, 264 pages. ISBN 978-81-203-5140-0
- 18.Devraj Singh, A Textbook of Engineering Physics, New Delhi: Dhanpat Rai & Co., 2015, 456 pages. ISBN 978-81-7700-169-3
- 19.Devraj Singh and S.K. Pandey, Numerical Problems in Physics, Vol. 1, New Delhi: Narosa, 2015, ISBN 978-81-8487-447-1

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- 20.Devraj Singh, Giridhar Mishra and R. R. Yadav, January 2016, Thermal Physics: Kinetic Theory and Thermodynamics, New Delhi :Narosa (www.narosa.com) ISBN: 978-81-8487-457-0 and Oxford: Alpha Science (www.alphasci.com) ISBN:978-1-84265-973-1, Pages: 362.
- 21.S. K. Pandey and Devraj Singh, January 2016, Numerical Problems in Physics, Vol.-II, New Delhi :Narosa (www.narosa.com) ISBN: 978-81-8487-450-1 and Oxford: Alpha Science (www.alphasci.com) ISBN: 978-1-84265-966-3, Pages: 556.
- 22.Mandeep Mittal and Nita H. Shah, Optimal Inventory Control and Management Techniques, IGI Global, USA, March 2016, EISBN13: 9781466698895
- 23.Mandeep Mittal and Shardha Porwal, Programming in C, New Delhi :Narosa (www.narosa.com), March, 2016, ISBN: 978-81-8487-086-22 and Oxford: Alpha Science (www.alphasci.com), March, 2016, ISBN:
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IPR

List of Patents

Full Patents:

| S. No. | Title | Name | Application No. |
|--------|---|--|-----------------|
| 1. | Suspended Feedback Design of Adaptive Noise | Ms. Rachana Nagal (Assistant Professor, ASET) + Mr. Vaibhav Narula (Alumni) | 14202/DEL/2013 |
| 2. | A bottle with push button controlled base | Ms. Vishesh Garg + Mr. Amar Arora (Assistant Professor, ASET) | 3186/DEL/2012 |
| 3. | New Interleaver Design for Turbocodes | Ms. Shivani Verma (Assistant Professor, ASET) | 232/DEL/2013 |
| 4. | An improved Walking Aid Seating Arrangement for Disable Person With a Sensor and GPS System | Dr. Shashi Chawla (Assistant Professor, ASET) | 1443/DEL/2013 |
| 5. | Automatic Viscometer | Dr. Shashi Chawla (Assistant Professor, ASET) | 1515/DEL/2013 |
| 6. | An Improved Measuring Cylinder with Sensor | Dr. Shashi Chawla (Assistant Professor, ASET) | 1516/DEL/2013 |

Provisionally filed:

| | | | |
|-----|--|--|---------------|
| 7. | Robotic arm with gripper for spot welding | Mr. Ritesh Kumar (Assistant Professor, ASET) | 3590/DEL/2012 |
| 8. | A system and method for real time GPS Tracking | Mr. Vijayanand Kumar (Assistant Professor, ASET) | 3590/DEL/2012 |
| 9. | Multirate turbo code based image transmission | Mr. Deepak Gambhir (Assistant Professor, ASET) | 491/DEL/2013 |
| 10. | A Robotic arm with gripper and end effectors for spot welding | Mr. Ritesh Kumar (Assistant Professor, ASET) | 2412/DEL/2013 |
| 11. | An improved system and method for steering controlled headlights | Mr. Rajesh Saluja (Assistant Professor, ASET) | 2698/DEL/2013 |
| 12. | An Energy Efficient approach for multimedia Applications in mobile Ad Hoc Network using Range Transmission | Dr. Rekha Agarwal (Director, ASET) & Ms. Pinki Nayak (Assistant Professor, ASET) | N.R. |

PEER RATING
ENGINEERING SURVEY 2015 - A++
BEST COLLEGES OF INDIA – RANK 136

Engineering SURVEY-2015

Business & Management Chronicle is presenting the most comprehensive "All India Engineering Colleges Survey -2015". This survey is of extreme importance for the aspirants who seek complete information and do thorough research before taking admission in Engineering Colleges.

The survey findings are completely based on the data submitted by the respective colleges and data obtained from various sources on perceptual view. However, students are required to personally visit the institute & seek information regarding the institutes before taking admission. This is the 4th All India Engineering Colleges Survey being published by B&M Chronicle.

Methodology:

The survey was conducted by B&M Research Team in three phases in 15 states covering cities: Varanasi, Delhi, Gurgaon, Noida, Greater Noida, Chennai, Ahmedabad, Jaipur, Bhilai, Raipur, Bengaluru, Hyderabad, Pune, Dehradun, Lucknow, Chandigarh, Dhanbad, Bhopal, Patiala, Coimbatore, Mohali, Bhubaneswar, Salem, Erode, Agra, Moradabad, Mathura, Mangalore, Bhalki, Udaipur, Gorakhpur, Ambala, Vadodara, Meerut & Nellore.





Factual Information Collection

Factual Information was collected in the month of April & May 2015 through designed questionnaire by the B&M Research Team which was sent to 740 Engineering Colleges present all over India. A dedicated web link was provided on the website www.chronicleindia.in so that the questionnaire can also be downloaded by the Engineering Colleges from the provided interface. Online advertisements were also published for the Engineering Colleges to participate in the survey. Responses were sought by several reminders, phone calls and emails.

Within the stipulated time, 72 colleges responded with their information, out of which 59 were considered to be used for ratings as 13 colleges either did not meet the eligibility criteria set by the Research Team viz institutes which are fully functional for more than 3 years or lack of complete information & the supporting documents were not send by the colleges. However, some of the prominent institutes like the IITs and NITs did not participate in our survey inspite of several reminders. They insisted us to take data from their websites but the data was insufficient for complete research, so they were not included in the survey.

Validation of Data Through Physical Survey

The B&M Research Team visited in a good number of participating institutes. The team took a perceptual view from the directors, faculty members, current students, academicians, aspiring students and re-



cruiters. The data submitted by the institutes was validated thoroughly by the research team. Different parameters were critically analysed and perceptual rating was given to the participating institutes by the research team on the findings of physical survey.

Calculation of Score & Final Rating

Finally, in the third phase, an exhaustive scrutiny of gathered information was conducted with the help of normalized research tools to arrive at the parameter as well as overall rankings.

While scrutinizing the data, important aspects like quality of students, curriculum, intellectual capital of faculty, infrastructure (Library, recreational rooms, canteens, entertainment, hostels, faculty, accommodation and wellness), placement record and industry interaction were taken into consideration. Consequently, and logically too, post this exercise, the marks were then calculated using the weightage decided by the specialist panel for all parameters and sub-parameters.

As per the score allotted to each institute, the colleges were categorized by giving different ratings—A++, A++, A+, A, B++ and B+. The placement data was analysed critically. This year, in our survey we have presented the data of various companies with the average salary offered to a B.Tech student to give an idea about the placement trends. Also the average package offered by different streams of companies is represented graphically.





Category A+++

| Name of Institute | State |
|---|---------------|
| National Institute of Technology | Delhi/NCR |
| BIT Sindri, Dhanbad | Jharkhand |
| College of Engineering, Pune | Maharashtra |
| Indian Institute of Technology (Banaras Hindu University) | Uttar Pradesh |

Category A++

| Name of Institute | State |
|--|----------------|
| CMR Institute of Technology, Hyderabad | Andhra Pradesh |
| Shri Shankaracharya Technical Campus | Chhattisgarh |
| Amity School of Engineering & Tech. | Delhi/NCR |
| ITM University, Gurgaon | Delhi/NCR |
| Siddaganga Institute of Technology | Karnataka |
| Sagar Institute of Research & Tech. | Madhya Pradesh |
| Army Institute of Technology, Pune | Maharashtra |
| Chandigarh Engineering College, Mohali | Punjab |
| Sri Ramakrishna Engineering College | Tamil Nadu |
| Vel Tech Rangarajan Dr. Sakunthala NAD Institute of Science Technology | Tamil Nadu |



Category A+

| Name of Institute | State |
|---|----------------|
| Chaitanya Bharathi Institute of Tech. | Andhra Pradesh |
| Mahatma Gandhi Institute of Technology | Andhra Pradesh |
| MLR Institute of Technology, Hyderabad | Andhra Pradesh |
| Kungta Engineering College, Raipur | Chhattisgarh |
| Kungta College of Engineering & Tech. | Chhattisgarh |
| Amity School of Engg. & Tech. Manesar | Delhi/NCR |
| Galgoda College of Engg. & Tech. | Delhi/NCR |
| G. L. Bajaj Institute of Tech. & Manag. | Delhi/NCR |
| Institute of Technology, Nirma University | Gujrat |
| T. John Institute of Technology, Bengaluru | Karnataka |
| The Oxford College of Engg., Bengaluru | Karnataka |
| Gandhi Institute for Tech. Advancement | Odisha |
| Francis Xavier Engg. College, Tirunelveli | Tamil Nadu |
| Nandha Engg. College (Autonomous) | Tamil Nadu |
| Sona College of Technology, Salem | Tamil Nadu |
| Vel Tech Multitech Dr. Rangarajan Dr. Sakunthala Engg. College, Chennai | Tamil Nadu |
| Amity School of Engineering & Technology, Lucknow | Uttar Pradesh |

Engineering Institutes Survey 2015



pickacollege.digit.in/best-engineering-colleges/delhi



BEST COLLEGES IN INDIA



COMPARE RANKING SEARCH

| Rank | College Name | Location | Description |
|------|---|------------------|--|
| 125 | Bhagwan Parshuram Institute of Technology | Delhi, Delhi | RMD Engineering College, affiliated to Anna University is a premier institute that provides training in management, technology and engineering |
| 132 | Amity School of Engineering & Technology, Delhi | Delhi, Delhi | CAMPUS GUIDE |
| 136 | HMR Institute of Technology & Management | Delhi NCR, Delhi | |
| 138 | RMD Engineering College | Delhi NCR, Delhi | |