

# Indian Institute of Technology Roorkee

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Competencies

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## Browse competencies

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Competencies of the Indian Institute of Technology Roorkee in [2015](#) based on an analysis of publications over the period 2011-2015

Table

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Matrix

Filter competencies by

ID	Keywords	Most published authors	Publications	Citations
DC #1	Algorithms; Optimization; Heat transfer	Singh G.K., Saini J.S., Pant M.	137	779
DC #2	Adsorption; Adsorbents; Removal	Gupta V.K.A., Agarwal S.C., Singh A.K.M.	221	4,390
DC #3	Watermarking; Digital watermarking; Image watermarking	Raman B., Ojha C.S.P., Goyal M.K.	68	330
DC #4	Coatings; Corrosion; Scanning electron microscopy	Prakash S.L., Jayaganthan R., Singh S.P.	72	316
DC #5	earthquake; Earthquakes; fault	Sharma M.L., Joshi A.D., Das R.	113	281
DC #6	Optimization; Algorithms; Evolutionary algorithms	Pant M., Deep K.U., Thangaraj R.	46	199
DC #7	Drilling; Machining; Delamination	Singh I.P., Divedi A., Debnath K.	46	82
EC #8	Zinc oxide; Nanoparticles; Escherichia coli	Mohanty P., Chauhan I., Chauhan V.S.	32	216
DC #9	Microstructure; Coatings; Hardness	Sharma A.K., Jayaganthan R., Gupta D.C.	86	451
DC #10	Wastewater; Removal; Effluents	Srivastava V.C., Mall I.D., Sharma C.	60	270
DC #11	Carbon nanotubes; Crosstalk; Graphene	Kumar Kaushik B., Majumder M.K., Manhas S.K.	74	163
DC #12	Boundary conditions; Laminated composites; Vibration analysis	Chakrabarti A., Lal R., Khandelwal R.P.	53	205
DC #13	Bearings (machine parts); Journal bearings; Fluids	Sharma S.C., Phalle V.M., Ram N.	41	178
DC #14	Wind; Hybrid systems; Costs	Sharma M.P., Saini R.P., Nauriyal D.K.	21	240
DC #15	Thin film transistors; Transistors; Static random access storage	Kumar Kaushik B., Negi Y.S., Dasgupta S.S.	53	143
DC #16	Servers; Repair; Probability	Jain M., Bhagat A., Dewal M.L.	42	129
DC #17	Earthquakes; Reinforced concrete; Concretes	Singh Y.C., Agarwal P.B., Singh B.K.	36	51
DC #18	Speckle; Ultrasonics; Image fusion	Kumar V., Dewal M.L., Anand R.S.	39	179
DC #19	Manufacture; Cellular manufacturing; Group technology	Jain P.K., Kumar D.R., Jain M.	22	61
DC #20	Cracks; Piezoelectric materials; Stress intensity factors	Singh I.V., Mishra B.K., Bhargava R.R.	47	191
DC #21	landslide; runoff; rainfall	Mishra S.K., Anbalagan R., Mondal A.C.	32	108
DC #22	Porphyrins; Ligands; Oxidation	Maurya M.R., Chaudhary N.N., Sankar M.	59	436
DC #23	Biodiesel; Esters; Fuels	Sharma M.P., Dwivedi G., Jain S.C.	31	359
EC #24	Manganese; Martensitic transformations; Alloys	Kaur D., Vishnoi R., Singh K.P.	18	43
DC #25	Removal; Adsorption; Adsorbents	Srivastava V.C., Majumder C.B., Balomajumder C.	35	205
DC #26	Mobile ad hoc networks; Broadcasting; Routing protocols	Sharma S.C., Nand P., Kumar M.S.	11	20
ID	Keywords	Most published authors	Publications	Citations
DC #27	stars; matter (physics); equations of state	Gupta Y.K., Maurya S.K., Pratibha	34	180
DC #28	Burgers equation; Burgers' equations; Burger's equation	Mittal R.C., Jiwari R., Tripathi A.M.	27	171
DC #29	Nanotubes; Carbon nanotubes; Boron nitride	Harsha S.P.R., Upadhyay S.H., Sharma S.C.	46	156
EC #30	Intrusion detection; Cloud computing; Clouds	Gupta S., Kumar P.P., Sardana A.	10	14
DC #31	Electric lines; Transmission line theory; Electric fault location	Tripathy M., Maheshwari R.P., Das B.P.	26	90
EC #32	Service quality; Research; Total quality management	Rahman Z., Azam M.	11	145
DC #33	Metabolomics; Alzheimer Disease; Amino Acids	Bhushan R.S., Batra S., Dixit S.	31	128
EC #34	Soil moisture; synthetic aperture radar; Soils	Singh D.K., Mishra P.S., Gupta S.K.	21	56

EC #34	Join moisture; Symmetric aperture; Radar; Sona	Singh S.N., Mishra T.S., Gupta S.N.	21 ▲	20
EC #35	Concretes; Reinforced concrete; Steel fibers	Sharma U.K., Bhandari N.M., Zaidi K.A.	7 ▼	5
DC #36	Electric potential; Pulse width modulation; Fuel cells	Mehta G., Singh S.P., Agarwal P.	13 ▼	4
DC #37	Electrodes; Voltammetry; Glassy carbon	Goyal R.N., Agrawal B.L., Gupta P.N.	37 ▲	298
EC #38	Abrasives; Finishing; Machining	Sharma A.K., Kumar P.R.A., Venkatesh G.V.	13 ▼	12
DC #39	Fuzzy logic; Fuzzy sets; Fuzzy systems	Singh S.P., Venkataramana Naik N., Hote Y.V.	18 ▲	18
EC #40	Soils; Foundations; Bearing capacity	Maheshwari P., Khatri S., Viladkar M.N.	11 ▼	18
DC #41	Buses; Technology; Crosstalk	Kumar Kaushik B., Agarwal D.K., Nagendra Babu G.	14 ▼	10
EC #42	Composite materials; Wear of materials; Matrix algebra	Jain S.C., Mahapatra M.M., Jha P.K.	11 ▼	42
EC #43	Speech; Speech recognition; Sampling	Anand R.S., Arif M.A.M., Maheshwari R.P.	7 ▼	1
EC #44	Remote sensing; Classification (of information); Pixels	Ghosh S.K., Upadhyay P., Sharma N.A.Y.A.N.	14 ▲	6
DC #45	Solar cells; Dyes; Conversion efficiency	Justin Thomas K.R., Baheti A., Venkateswararao A.	35 ▲	394
EC #46	Biodegradation; Phenols; Degradation	Arya D.S., Kumar S.P., Kumar S.S.	8 ▼	16
EC #47	Cyanides; cyanide; Removal	Balomajumder C., Gupta A., Agarwal V.K.	20 ▲	83
EC #48	Projectiles; Ballistics; Steel	Iqbal M.A., Gupta P.K., Tiwari G.	10 ▼	28
EC #49	fluoride; Removal; Adsorption	Thareja A., Sarkar S., Singh N.K.U.	3 ▲	0
EC #50	Pavements; Maintenance; Asphalt	Parida M., Jain S.S., Kumar P.C.	4 ▲	5
EC #51	Heat transfer; Cylinders (shapes); Nusselt number	Dhiman A.K., Sharma N.D., Kumar S.P.	22 ▲	59
EC #52	Bearings (machine parts); Failure analysis; Rolling	Harsha S.P.R., Sharma S.C., Kankar P.K.	10 ▼	222
EC #53	Graph theory; Models; Robots	Pathak P.M., Jain S.C., Gor M.M.	26 ▼	18
EC #54	Supply chains; Supply chain management; Industry	Mangla S.K., Barua M.K., Kumar P.	15 ▲	60
EC #55	Image retrieval; Textures; Database systems	Maheshwari R.P., Balasubramanian R., Raman B.	20 ▼	198
EC #56	Solute transport; fracture; matrix	Sharma P.K., Ojha C.S.P., Joshi N.H.	20 ▲	33
EC #57	Duality theorems; Duality; Dual	Gulati T.R., Gupta S.K., Verma K.	18 ▲	17
EC #58	Operator; Modulus of continuity; Approximation property	Agrawal P.N., Kajla A., Sathish Kumar A.	22 ▲	57
EC #59	Electric load management; Electricity; Costs	Nayak J.K., Sangroya D., Padhy N.P.	7 ▲	23
EC #60	Zinc sulfide; Nanoparticles; Photoluminescence	Agarwala V.S., Mishra D.D., Chandra R.	11 ▼	85
EC #61	Particle swarm optimization (PSO); Antenna arrays; Optimization	Patnaik A., Sinha S.N., Acharya O.P.	10 ▼	11
EC #62	Textures; Classification (of information); Feature extraction	Anand R.S., Rathod V.R., Srivastava S.P.	10 ▼	43
EC #63	Wireless sensor networks; Mobile agents; Sensor nodes	Gupta G.P., Misra M.	6	5
EC #64	wastewater; Removal; chemical oxygen demand	Kazmi A.A.H., Bhargava R.K., Sharma M.K.U.	14 ▲	37
ID	Keywords	Most published authors	Publications	Citations
EC #65	Bearings (machine parts); Ball bearings; Rolling	Upadhyay S.H., Harsha S.P.R., Sharma S.C.	9 ▲	13
EC #66	Controllability; Approximate controllability; Sufficient conditions	Sukavanam N., Pandey D.N., Shukla A.K.	28 ▲	135
EC #67	Groundwater; water; Isotopes	Singh S.P., Devi P., Jain A.K.U.	6 ▲	11
EC #68	Ferroelectric materials; Magnetic properties; X ray diffraction	Yadav K.L., Kumar A.K.N., Pathak N.P.	15 ▼	155
EC #69	Asphalt; Binders; Creep	Kumar P.C., Saboo N., Singh M.L.	6 ▲	4
EC #70	Coatings; Composite coatings; Corrosion resistance	Agarwala V.S., Agarwala R.C., Makkar P.	11 ▲	35
EC #71	snow; climate change; glacier	Saraf A.K., Mir R.A.H., Jain S.K.	16 ▲	102
EC #72	Ferroelectric materials; Permittivity; Ferrite	Yadav K.L., Maitra T., Singh I.D.	25 ▲	90
EC #73	Vehicles; Intersections; Traffic control	Chandra S., Mehar A., Rastogi R.	11 ▲	18
EC #74	Benzoxazines; Synthesis (chemical); Cyclization	Peddinti R.K.R., Surasani S.R., Bodipati N.	12 ▼	69
EC #75	Control; Controllers; Algorithms	Nigam M.J., Rawat A.K., Kumar N.D.	5 ▼	2
EC #76	Defected ground structures; Bandpass filters; Resonators	Kartikeyan M.V., Prajapati P.R., Patnaik A.	12 ▲	14
EC #77	Heat flux; Boiling liquids; Heat transfer	Gupta A.V.S.S.K.S., Kumar R., Agrawal C.	11 ▲	31
EC #78	Neural networks; Intrusion detection; Network security	Gupta B.B., Joshi R.C., Misra M.	5 ▼	4
EC #79	Controllers; Fuzzy logic; Control	Singh S.P., Gupta N.K., Dubey S.P.	14 ▼	36
EC #80	Flowmeters; Electric discharge machining; Flow measurement	Sharma S.C., Jain S.C., Rajesha S.	9 ▼	8

EC #81	Zinc oxide; Films; X ray diffraction	Yadav K.L., Mitra A., Kaur G.	4 ▲	8
EC #82	Cognitive radio; Orthogonal frequency division multiplexing; Detectors	Mehra D.K., Bafna G., Ghosh D.	4 ▼	1
EC #83	Fuzzy logic; Controllers; Fuzzy control	Mitra R., Kumar A.N., Yadav P.K.	7 ▼	1
EC #84	Buses; Overhead lines; Wind	Singal S.K., Kishore T.S., Khatod D.K.	9 ▲	12
EC #85	Nanoparticles; X ray diffraction; Nanostructures	Kumar A.B.V.K., Gaur U.K., Singh B.K.	10 ▲	34
EC #86	Endo-1,4-beta Xylanases; Xylans; Pulp	Dutt D.K., Tyagi C.H., Kumar L.	10 ▼	46
EC #87	Electric discharge machining; Machining; Composite materials	Jain P.K., Shandilya P., Dvivedi A.	11 ▼	36
EC #88	Concretes; Concrete aggregates; Aggregates	Singh B.K., Prince M.J.R., John Robert Prince M.	6 ▲	9
EC #89	Cadmium; Energy gap; Scanning electron microscopy	Biswas P.K., Das N.S.	4 ▲	2
EC #90	tourism; Tourists; Travel	Rastogi R., Madhavan H.	3 ▲	5
EC #91	water quality; river; water	Sharma M.P., Kumar A., Mishra S.S.	7 ▲	6
EC #92	Welding; Welds; Austenitic stainless steel	Mahapatra M.M., Jha P.K., Narang H.K.	3 ▲	11
EC #93	Sirtuin 1; Mesenchymal Stromal Cells; Stilbenes	Kumar N., Roy P.S.P.S., Sharan S.	9 ▲	33
EC #94	Image processing; Mathematical transformations; Image enhancement	Dewal M.L., Bhadauria H.S., Anand R.S.	6 ▼	34

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