List of Publications of M.Sc. Integrated students from their project work

S. No.	Name of the Student (Quanta No)	School	Publication Details
			2011
1.	Shilpi Singh (4)	Physics	Approximate approaches to the one-dimensional finite potential well Shilpi Singh, Praveen Pathak and Vijay A. Singh *Eur. J. Phys.*, 32 (2011) 1701.
			2013
2.	Varma, P.S. (1)	Biology	Anomalies in the motion dynamics of long-flagella mutants of Chlamydomonas reinhardtii D. K. Khona, V. G. Rao, M. J. Motiwalla, P. S. Varma, A. R. Kashyap, K. Das, S. M. Shirolikar, L. Borde, J. A. Dharmadhikari, A. K. Dharmadhikari, S. Mukhopadhyay, D. Mathur and J. S. D'Souza *J. Biological Physics*, 39 (2013) 1-14.
3.	Mohanish Borana (3)	Chemistry	Interaction of multimicrobial synthetic inhibitor 1,2-bis(2-benzimidazolyl)-1,2-ethanediol with serum albumin: Spectroscopic and computational studies N. Kamtekar, A. Pandey, N. Agarwal, R. P. S. Pissurlenkar, M. Borana and B. Ahmad *PLoS ONE*, 8 (2013) E 3872.
4.	Preeti Sheokand (3)	Chemistry	Synthesis and studies of aza-BODIPY based pi-conjugates for organic electronic applications Tamanna K. Khan, Preeti Sheokand and Neeraj Agarwal *Eur. J. Org. Chem.*, 7 (2013) 1416.
5.	Chandan Kumar (2)	Physics	A two-coil mutual inductance technique to study matching effect in disordered NbN thin films Sanjeev Kumar, Chandan Kumar, John Jesudasan, Vivas Bagwe, Pratap Raychaudhuri, Sangita Bose *Applied Physics Letters*, 103 (2013) 262601.
			2014
6.	Anjitha S. G. (6)	Chemistry	Synthetic approach to novel azido esters and their utility as energetic plasticizers Dimple Kumari, Anjitha S. G., Chandra Shekhar Pant, Mahendra Patil, Haridwar Singh, Shaibal Banerjee *RSC Adv.*, 4 (2014) 39924.
7.	Karthika K. Jairaj (4)	Chemistry	Synthesis and photophysical studies of heteroaryl substituted-BODIPy derivatives for biological applications D. Lakhe, Karthika K. Jairaj, Madhura Pradhan, Uma Ladiwala and Neeraj Agarwal *Tetrahedron Letters*, 55 (2014) 7124.

			2015
8.	Nivin Mothi (4)	Chemistry	Curcumin promotes fibril formation in F isomer of human serum albumin via amorphous aggregation Nivin Mothi, Shivani A. Muthu, Avinash Kale and Basir Ahmad *Biophysical chemistry*, 207 (2015) 30-39.
9.	Chandan Kumar (2)	Physics	Origin of matching effect in anti-dot array of superconducting NbN thin films S. Kumar, C. Kumar, J. Jesudasan, V. Bagwe, P. Parab, P. Raychaudhuri and S. Bose *Superconductor Science and Technology*, 28 (2015) 55007.
10.	Krishna Chaitanya Kasuba (5)	Biology	Apoptosis-like cell death in unicellular photosynthetic organisms — A review. Krishna Chaitanya K., V. L. Sirisha and Jacinta S. D'Souza *Algal Research*, 12 (2015) 126-133.
11.	Neha Mohanpuria (5)	Biology	Attenuation of lysozyme amyloid cytotoxicity by SPION-mediated modulation of amyloid aggregation. A. Naik, P. Kambli, M. Borana, N. Mohanpuria, B. Ahmad, V. Kelkar-Mane and U. Ladiwala, *International J. Biological Macromolecules*, 74 (2015) 439-446.
			2016
12.	Karthika K. Jairaj and Sanoj Raj (4)	Chemistry	3-/3,5-Pyrrole-substituted BODIPY derivatives and their photophysical and electrochemical studies Karthika J. Jairaj, Akanksha Nimesh, Sanoj Raj and Neeraj Agarwal *J. Chem. Sci.*, 128 (2016) 14535.
13.	Krishna Chaitanya Kasuba (5)	Biology	Filamentation length is the deciding factor for production of laser-induced linear plasmid DNA. Aditya Dharmadhikari, Jayashree Dharmadhikari, Harish Bharambe, Chaitanya Kasuba, Jacinta S. D'Souza and Deepak Mathur *Scientific Reports*, 6 (2016) 27515.
14.	Neha Mohanpuria (5)	Biology	Subtle alterations in microtubule assembly dynamics by Br-TMB-noscapine strongly suppress triple-negative breast cancer cell viability without mitotic arrest T. Mahaddalkar, N. Manchukonda, S. Choudhary, S. Cheriyamundath, N. Mohanpuria, S. Kantevari and M. Lopus *Chemistry Select*, 1 (2016) 4313-4319.
			2017
15.	Kriti Gupta (3)	Physics	Optically controlled electron-transfer reaction kinetics and solvation dynamics: Effect of Franck−Condon states Kriti Gupta, Aniket Patra, Kajal Dhole, Alok K. Samanta and Swapan K. Ghosh *Journal of Physical Chemistry Letters*, 8 (2017) 4545−4549.

16.	Swagat Pradhan (6)	Biology	Elucidation of the tubulin-targeted mechanism of action of 9-(3-pyridyl) noscapine S. Pradhan, T. Mahaddalkar, S. Choudhary, N. Manchukonda, P. R. Nagireddy, S. Kantevari and M. Lopus *Current Topics in Medicinal Chemistry*, 17 (2017) 2569-2574.
17.	Prashant Chauhan (6)	Physics	Critical analysis of soft point contact Andreev reflection spectra between superconducting films and pressed In P. Parab, P. Chauhan, H. Muthurajan and S. Bose *Journal of Physics: Condensed Matter*, 29 (2017) 135901.
18.	Prashant Chauhan (6)	Physics	Dynamic transition from Mott-like to metal-like state of the vortex lattice in a superconducting film with a periodic array of holes I. Roy, P. Chauhan, H. Singh, S. Kumar, J. Jesudasan, P. Parab, R. Sensarma, S. Bose and P. Raychaudhuri *Physical Review B*, 95 (2017) 54513.
			2018
19.	Vikas Kumar (4)	Chemistry	Effects of antioxidants melatonin and glutathione on human serum albumin aggregation: Biophysical studies Vikas Kumar, Ramakrishna V. Hosur and Sinjan Choudhary *SMC Bulletin*, 9 (2018) 22-28.
20.	Akshay Malwade (4)	Biology	A novel method to generate MNase ladders reveal rapid chromatin remodeling upon gametogenesis and mating in Chlamydomonas Pooja Potdar, Patricia Pinto, Nicole D'Souza, Prajakta Joshi, Akshay Malwade and Subhojit Sen *Plant Molecular Biology Reporter*, 169 (2018) 632.
21.	Ankush Singhal (5)	Physics	Exploring triazine and heptazine based self-assembled molecular materials through first principles investigations Ankush Singhal, Srinivasu Kancharlapalli and Swapan K. Ghosh *Journal of Molecular Modeling*, 24 (2018) 217.
22.	Prasad Kalamkar (6)	Biology	Dual role of GSK-3β in vegetative cells of Chlamydomonas reinhardtii exposed to osmotic stress conditions Sirisha Vavilala, Ashwati Nair, Prasad Kalamkar and Jacinta D'Souza *Acta Scientific Medical Sciences*, 2 (2018) 76-81.
			2019
23.	Nikita Gupta (8)	Chemistry	Synthesis of acridone-naphthylamine derivative and its thermally activated delayed fluorescence studies for application in OLEDs A. Awasthi, N. Gupta, Q. Siddiqui, P. Parab, D. K. Palit, S. Bose and N. Agarwal *J. Chem. Sci.*, 131 (2019) 1-8.

24.	Prashant Chauhan (6)	Physics	Decoupled and semi-decoupled bands in ^{197}Hg and ^{199}Hg D. Negi, S. K. Tandel, P. Chauhan, P. Chowdhury, R.V.F. Janssens, M.P. Carpenter, T.L. Khoo, F.G. Kondev, T. Lauritsen, C.J. Lister, D. Seweryniak and S. Zhu *Physical Review C*, 100 (2019) 14329.
25.	Ashish Beck (8)	Biology	Perturbation of tubulin structure by stellate gold nanoparticles retards MDA-MB-231 breast cancer cell viability. G.J. Nirmala, A. Beck, S. Mehta and M. Lopus *J. Biolog. Inorg. Chem.*, 24 (2019) 999-1007.
			2020
26.	Ankita Gupta (8)	Biology	9-PAN promotes tubulin- and ROS-mediated cell death in human triple-negative breast cancer cells P. Verma, P.K.R. Nagireddy, S.S. Prassanawar, J. Grace Nirmala, A. Gupta, S. Kantevari and M. Lopus *J. Pharmacy and Pharmacology*, 72 (2020) 1585-1594.
27.	Helly Jadhav (9)	Biology	In vitro evaluation of the antioxidant and anti-skin aging properties of green algal sulfated polysaccharides Berness Falcao, Jyoti Vishwakarma, Helly Jadav and Sirisha L. Vavilala *Archives of Microbiology and Immunology*, 4 (2020) 75-90.
28.	Ashutosh Dash (10)	Biology	Functional characterization of an inducible bidirectional promoter from Fusarium oxysporum f. sp. cubense Ashutish Dash, V. Gurdaswani, J.S. D'Souza and S.B. Ghag *Scientific Reports*, 10 (2020) 2323.
29.	Rishabh Nain (10)	Physics	On the optimization of dissipative chain events Renu Raman Sahu, Rishabh Nain and Vijay A. Singh *American J. Phys.*, 88 (2020) 24-30.
30.	Anurag Patel (6)	Physics	Metastable states from multinucleon excitations in ^{202}Tl and ^{203}Pb S.G. Wahid, S.K. Tandel, Saket Suman, M. Hemalatha, Anurag Patel, Poulomi Roy, A.Y. Deo, P.C. Srivastava, Bharti Bhoy, S.S. Bhattacharjee, R.P. Singh, S. Muralithar, P. Chowdhury, R.V.F. Janssens, M.P. Carpenter, T.L. Khoo, F.G. Kondev, T. Lauritsen, C. J. Lister, D. Seweryniak, S. Zhu, S. Rai and A. Sharma *Physical Review C*, 102 (2020) 24329.
31.	Anurag Patel (6)	Physics	High-resolution energy and fast timing measurements for nuclear spectroscopy using digital signal processing S.K. Tandel, D. Negi, S.G. Wahid, S. Suman, A. Patel, P. Roy, M. Hemalatha, D.C. Biswas, M. Venaruzzo and C. Tintori *Journal of Instrumentation*, 15 (2020) P08013.

			2021
32.	Tanveer H. Tadavi (11)	Chemistry	Phenanthroimidazole derivatives showing mild intramolecular charge transfer, high quantum yield and their applications in OLEDs S. Dixit, C. Gupta, T. H. Tadavi, K. R. S. Chandrakumar, S. Bose and N. Agarwal *New J. Chem.*, 45 92021) 16238-16247.
33.	Upnishad Sharma (7) and Srishti Priya (9)	Biology	A potential screening method for epigenetic drugs: uncovering stress-induced gene silencing in Chlamydomonas Snehal Kaginkar, Srishti Priya, Upnishad Sharma, Jacinta S D'Souza and Subhojit Sen *Free Radical Research*, 55 (2021) 533.
34.	Bitarka Bisai (8)	Biology	Neuroprotective Potential of Bioactive Sulfated Polysaccharides from Algae Bitarka Bisai and V. L. Sirisha *Acta Scientific Medical Sciences*, 5 (2021) 169-182.
35.	Ankit Kumawat (7)	Physics	Nanosecond isomers and the evolution of collectivity in stable, even-A Hg isotopes Saket Suman, S. K. Tandel, Ankit Kumawat, S. G. Wahid, M. Hemalatha, P. Chowdhury, R. V. F. Janssens, M. P. Carpenter, T. L. Khoo, F. G. Kondev, T. Lauritsen, C. J. Lister, D. Seweryniak and S. Zhu *Physical Review C*, 103 (2021) 014319.
36.	Vikas Bothe (8)	Physics	Isomers in ^{203}Tl and core excitations built on a five-nucleon-hole structure V. Bothe, S.K. Tandel, S. G. Wahid, P. C. Srivastava, Bharti Bhoy, P. Chowdhury, R.V.F. Janssens, F. G. Kondev, M. P. Carpenter, T. Lauritsen, D. Seweryniak and S. Zhu *Arxiv*, (2021) 2106.02314.
			2022
37.	Nishat Rathore (11)	Physics	Toxic and carcinogenic constituents of jewelry in the Indian retail market determined using X-ray fluorescence N. Rathore and S. K. Tandel *X-Ray Spectrometry*, 51 (2022) 2-14.
38.	Ashutosh Dash (10)	Biology	Genome-wide in silico characterization and stress induced expression analysis of BcL-2 associated athanogene (BAG) family in Musa spp. Ashutosh Dash and Siddhesh B. Ghag, *Scientific Reports*, 12 (2022) 625.