

**ASSAM UNIVERSITY SILCHAR  
DEPARTMENT OF CHEMISTRY**

Project allocation of course CH-403 A, B & C for the session Jan-June, 2015

<b>Names of the faculty</b>	<b>Names of the student</b>	<b>Project titles</b>
Prof. C.R. Bhattacharjee	Sumana Chakraborty	
	Priyadarshini Roy	
	Tania Bhattacharjee	
	Rakesh Das	
Dr. P.C. Paul	Samrat Paul	Synthesis, characterisation and mesogenic property of new [NO] donor salicylaldimine Schiff base and its Zn(II), Cd(II), Hg(II) and Cu(II) complex.
	Manash Chakraborty	Synthesis, characterisation and biological study of a newly designed [N <sub>2</sub> O] type Schiff base ligand and its complexes with Co(II), Cu(II), Ni(II) and Zn(II).
	Shyamalima Saikia	Cu(II) complexes of tetradentate [N <sub>2</sub> O <sub>2</sub> ] type donor ligand: Synthesis, characterisation and antimicrobial study.
	Aibanroi Thoo	Synthesis and characterisation of [ONO] donor Schiff base complexes of some transition metals.
Dr. Sk. Jasimuddin	Pooja Choudhury	Electrochemical water oxidation using [VO(salicylidene-L-alanine)(H <sub>2</sub> O)] complex modified gold electrode
	Manisha Sinha	Electrochemical reduction of water using N,N'-bis(acetylaceton)ethylenediimine cobalt(II) complex modified gold electrode
	Rintu Medhi	Electrochemical sensing of levodopa by using silver nanoparticles modified gold electrode
	Cheerful Pyngrope	Electrochemical sensing of caffeine using copper nanoparticles modified gold electrode
Dr. H. Acharya	Hirok Jyoti Bora	Synthesis, characterisation and photocatalytic dye degradation of MO(Cu,Zn) nanocrystal supported graphene oxide
	Gaurav Jyoti Dutta	Synthesis and characterisation of palladium nanoparticl supported layered double hydroxides
	Kalpajyoti Borah	Synthesis of cupric oxide (CuO) supported zeolitic imidazolate framework (ZIF-8) hybrids for photocatalytic dye degradation
	Anuj Ghosh	Palladium nanoparticles supported layered double hydroxide-graphene oxide nanocomposite catalyst in hydrogenation reaction
Dr. P. Mondal	Ashim Chanda	DFT Studies of functionalised carbon nano tube and activated carbon as carrier for drug delivery

	Kishore Rn Das	Synthesis and characterisation of zeolite encapsulated nanocrystalline NiO, CuO, CoO and MnO and study their catalytic activity
	Anupam Acharjee	Structure and magnetic study bimetallic Rh-Mn clusters: A Density Functional Theory approach
	Satyajit Barman	Zeolite encapsulated nickel and copper Schiff base complexes: synthesis, characterisation and their catalytic activities
Dr. D. Sengupta	Jayanta Sarma Baruah	Meso-5,10,15-Tris-(p-Hydroxyphenyl)-20-Mono-(p-nitrophenyl)Porphyrin And Its Zinc Complex As A Cancer Photodynamic Therapy Agent: Synthesis, Isolation, Characterization And PDT Study
	Wingsar Wardkhar	Synthesis, characterization and Toxicity Profiling of Pyrimidineones, Thiones and Imines as Precursors of Neuroprotective Agents
	Tomas Gogoi	Quinazoline Carboxamide and Carboxamidine Derivatives: Synthesis, Characterization and Biological Activity HIV-1 Virus
	Jonali Baruah	Synthesis of Pyrimidones Having Phenolic and Carboxylic Groups Under Both Solvent Free and Conventional Methods
Dr. Sudip Choudhury	Saurav Paul	Design and synthesis of benzothiazole based derivative and functionalisation with gold nanoparticles
	Afzalur Rn Barbhuiya	
	Geetashree Sarmah Baruah	
	Subhash Singha	
	Snigdha Borah	
Dr. M.K. Paul	Shilpa Esh Choudhury	
	Lipika Nath	Synthesis, characterization and Gelation behaviour of coumarin Schiff base
	Ananta Borah	Synthesis, characterization and mesomorphic behaviour of achiral three ring bent core molecule having amide linkage
	Mousumi Choudhury	Synthesis, Photo-physical and mesomorphic behaviour of a four ring symmetrical bent core molecule derived from 4,4'-diaminobenzophenone
Dr. S.K. Ghosh	Dorothy Bordhan	Modeling Gold Nanorods as One_Dimensional Aggregation of Nanospheres
	Deepika Singha	Measuring Electromagnetic Field at the Tips of Gold Nanospikes
	Rimi Paul	Magnetic Fe <sub>3</sub> O <sub>4</sub> -Mn <sub>3</sub> O <sub>4</sub> Nanocomposites as Viable Tool for <i>in-vitro</i> Toxicity Studies on Macrophages

	Aradhana Devi	Lippert Equation: From Molecular Probes to Quantum Dots
	Raktim Phukan	Modulation of Band Gap in Triple Semiconductor System
Dr. T. Sanjoy Singh	Benazir Nawaz Laskar	Fluorescence behavior of Schiff base – 2-((e)-(quinolin-8-ylimino)methyl)quinolin-8-ol in Biomimetic environments
	Chetna Borah	A new coumarin based off-on-off fluorescent Probe for dual sensing of Zn <sup>2+</sup> and Cu <sup>2+</sup>
	H.Julia Devi	Coumarin based dual functional and reversible chemosensor for Zn <sup>2+</sup> and Fe <sup>3+</sup>
	Bhabesh Bailong	A new coumarin based dual functional Chemosensor for colorimetric detection of Fe <sup>3+</sup> and fluorescence turn-on response of Zn <sup>2+</sup>