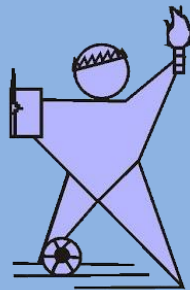


*“The road to success is always under construction”
Get it right....CIVIL ENGINEERS*



IPS ACADEMY INDORE
INSTITUTE OF ENGINEERING & SCIENCE
CIVIL ENGINEERING DEPARTMENT

Knowledge Village, Rajendra Nagar, A.B. Road, Indore (M.P.), 452012
Ph.0731-4014607, E-mail: office.civil@ipsacademy.org and hod.civil@ipsacademy.org Visit us : ies.ipsacademy.org

INSTITUTE OF ENGINEERING AND SCIENCE

IPS Academy, Institute of Engineering & Science is one of the leading private self financing institutes devoted to imparting quality engineering education with the sole motto of “Knowledge, Skill & Values”. The institute was established in 1999 and Ranked 71 among the Top 100 Engineering Colleges in country and 48 among the Private Engineering Colleges in country by Times of India and is top preferred institute for education amongst self financing institute in MP by CSR .

NBA New Delhi accredited five UG Programmes i.e.Civil Engg, Computer Science & Engg, Chemical Engg, Electrical & Electronics Engg, Electronics & Communication Engg.

Institute is recognized as Business Incubator (BI)/Host Institute (HI) for implementation of the scheme “Support for Entrepreneurial and Managerial Development of SMEs through Incubator” by Ministry of Micro, Small & Medium Enterprises Government of India.



IPS Academy, Institute of Engineering & Science offers Graduation in

- Civil Engineering
- Computer Science Engineering
- Chemical Engineering
- Elect. and Electronics Engineering
- Electronics and Telecommunication Engineering
- Fire Technology and Safety Engineering
- Mechanical Engineering

Post Graduation in

- M.E. (EC-Digital Comm.)
- M.E. (CSE)
- M.Tech – Structures
- M.Tech – Fire & Safety
- M.Tech – Chemical
- M.Tech – Construction Planning & Management

CIVIL ENGINEERING DEPARTMENT

VISION

Be the preferred destination locally, regionally and internationally for the Civil Engineering society as a leading department providing high quality programs and services in Civil Engineering Fields.



MISSION

To offer outstanding U.G. & P.G. education, research guidance, professional consultancy, outreach and manpower training as well as leadership in Civil Engineering fields.



HEAD MESSAGE

Technical Education is the most potential instrument for socio-economic change. Presently, the engineer is seen as a high-tech player in the global market. Distinct separation is visible in our education between concepts and applications. Most areas of technology now change so rapidly that there is a need for professional institutes to update the knowledge and competence. Civil engineering is one of the premium branches of IES IPS Academy since 2004. The sustained growth with constant academic brilliance achieved by civil engineering department is due to a greater commitment from management, dynamic leadership of the president, academically distinctive and experienced faculty, disciplined students and service oriented supporting staff.

Department grooms the students to get placement in top notch companies by providing training in leadership and personality development. Fervent efforts are made to mould the students to meet the needs of the nation and occupy positions in socio-economic development of the nation and take up challenging tasks and become globally competent technocrat. It is our duty to enlighten and motivate the present and future students that the engineering education should be made more meaningful by taking into account the wider perspective of national needs and aspirations.

I sincerely advise the young engineers to face the major challenges of construction industry with a relentless search for innovation of achieving economy and improved durability of structures by constantly upgrading the technology with optimum use of materials, equipment and human resources. I am delighted to note that the civil engineering graduates of this institute have been able to demonstrate their capable identities in different spheres of life and occupied prestigious positions within the country and abroad. The excellence of any institute is a measure of achievements made by the students and faculty.

All the Best.

ABOUT THE DEPARTMENT

The oldest and most elegant branch of engineering profession is Civil Engineering due to the fact that is related to almost all aspects of civilization. The Department was established in 2004. Now Department has M.Tech.in Structural Engineering and Construction & Planning Management. The Deptt. is equipped with 15 laboratories and computer centre for Research & Development, teaching, training & consultancy. Weather Station installed by department to monitor temperature, humidity, soil moisture, wind velocity, rainfall etc. Two Patents approved and Seven Books Published by the Department. Five Limka book records registered by the Students.

NBA New Delhi accredited UG Programme.



The Department is fully equipped with modern facilities. The Department has grown tremendously over the years and is now recognized as one of the major engineering departments in the country. The department has developed strong links with the building and construction industry and academic and research, both within and outside the country. A large number of publication appear in the National and international journals & proceedings and conferences every year. Besides high quality teaching and instruction at both UG and PG levels, the Department is actively involved in basic and applied research and consultancy and provides high quality technical advisory support through various R&D projects and consultancy to various organizations. The Department of Civil Engineering with its multifaceted faculty continues to maintain and cultivate its strong links with the infrastructural industry and academic and research

institutions both within and outside the country. The Department has become the Life Member of Indian Concrete Institute and Indian Water Works Association.

LIFE MEMBERSHIP

- Indian Concrete Institute.
- Indian Water Works Association.

STUDENT CHAPTER

- Indian Concrete Institute.

STUDETS ACTIVITIES

- Student Council
- Student Placement Cell
- Student Consultancy Cell

FACULTY PROFILE

Dr. Archana K. Chowdhary	PhD
Dr.Keerti K. Chowdhary	PhD
Ms.Swatilekha Guha Bodh	PhD pursuing
Mr.Vijay Baradiya	PhD pursuing
Mr.Ashish Nim	M.Tech. (Structures)
Mr.A.V. Khare	M.E.(W.R.)
Mr.Amit Sharma	PhD pursuing
Mr R B Chaturvedi	PhD pursuing
Ms.Swati Shrivastava	M.Tech.(RS)
Mr.Diwakar Singh	M.E (Trans)
Mr.Apoorv Sarda	M.Tech. (Structures)
Mr.Harish Kumar Dwivedi	PhD pursuing
Mr.Sunil S.Harne	M.E (Structures)
Mrs.Sonam Yadav	M.Tech. (Structures)
Ms.Aditi Patidar	PhD pursuing

Mr.Arpit Sethiya	M.Tech. (Structures)
Ms.Anjuri Shrivastava	M.Tech. (Structures)
Nitya Patel	M.Tech.(Building Technology)
Pallavi Gupta	M.E (Trans)
Pratyush Motwani	M.E (Trans)
Lalitesh Sinha	PhD pursuing
Punit Bhanwar	M.E (Trans)
Harshit Jain	M.Tech. (Structures)
Richa Jain	M.Tech. (Structures)
Sumeet Gupta	MBA
Veena Baunthiyal	PhD(Structural Geology)
Tanushree Sinha	M.E.(W.R.)
Neeraj Mishra	M.E.(W.R.)

RESEARCH ASSOCIATES

Praveen Dewara	Shivam Nema
Saurabh Jain	

ASSOCIATE VISITING FACULTIES

Dr. A.N. Patel	Dr.O.P.Bhatia
----------------	---------------

ASSOCIATES

Dr. Arvind K.Neema (Prof. IIT Delhi)	Mr.Jatashankar Mishra(CSIR)
Dr. Ashish Juneja (Prof. IIT Bombay)	Dr. Abhay Gupta(Era Group)
Dr. Dasaka Murthy (Prof.IIT Bombay)	Dr. J.S.Chouhan (Prof.SATI Vidisha)
Dr.Ashit Saxena(Prof.SATI Vidisha)	Dr.R.K.Shrivastava(Prof.S.G.S.I.T.S.Indore)
Mr.S.P.S.Rajput(MANIT)	Dr.U.B.Choubey (Prof.S.G.S.I.T.S.Indore)

RESEARCH AREA OF THE FACULTY

- Conjunctive use of Surface and Ground Water
- Low cost housing , passive architecture and renewable sources of energy.
- Finite Element Based Analysis
- Seismic Performance of Existing Masonary Buildings.
- Composite and Laminated Material
- Non Linear Dynamic Analysis of RC Framed Buildings
- Seismic Behavior of RC Shell Structures
- Seismic Collapse Capacity of RC Folded Plates

LABORATORIES

1. Strength of Materials Lab
2. Engineering Geology Lab
3. Instrumentation Lab
4. Environmental Engineering Lab
5. Transportation Lab
6. Software Lab
7. Fluid Mechanics Lab
8. Surveying Lab
9. Concrete/CMT Lab
10. Geotechnical Engg Lab
11. Theory of Structures Lab
12. Heavy Structures Lab
13. Simulation Lab



POLARISCOPE



LOADING FRAME



SHAKE TABLE



FRANCIS TURBINE

SOFTWARES AVAILABLE

- STAAD PRO
- AUTO CAD
- CIVIL 3D
- PRIMAVERA
- ANSYS
- SAP 2000
- GMS 6.5
- ABAQUS
- AFT Impulse

MAJOR EQUIPMENTS AVAILABLE

- Total Station
- UTM & CTM
- Pumps & Turbines
- Benkelman Beam
- Bituminous testing apparatus
- Plate Load test apparatus
- SCPT
- DCPT
- CBR
- FFT ANALYSER
- DATA LOGGER
- POLARISCOPE
- Loading Frame
- Shake Table

ACHIEVEMENTS OF THE DEPARTMENT

➤ National Seminars organized	–	17
➤ National Workshops organized	–	44
➤ FDP organized	–	16
➤ Training Programs organized	–	25
➤ National Quiz organized	–	07
➤ Expert Lectures Organized	–	216
➤ Technical Visits Organized	–	44



Expert Lectures



Tours & Visits



Programs



ANNUAL PROGRAMS ORGANISED

- NEEV – National Level Paper presentation competition
- SAMEEKSHA – Quiz competition
- SRUJAN – National Seminar
- National Workshop on BDD
- National Workshop on Concrete Mix Design
- FDPs & Work Shops at National Level
- SAKRIYA





ANNUAL SOFTWARE TRAINING PROGRAMS ORGANISED

- STAAD PRO
- PRIMAVERA
- AUTO-CAD
- ABAQUS

MAJOR PROJECTS OF DEPARTMENT

1. Paper Recycling project with the collaboration of Chemical Department.
2. Weather Station installed.
3. Solar Water heating Plant for Girls Hostel of IPS Academy.

ACHIEVEMENTS OF THE FACULTY

- | | |
|-----------------------------------|----|
| ➤ Special Awards | 05 |
| ➤ Patents by the Faculties | 02 |
| ➤ Book Published by the Faculties | 07 |
| ➤ Post Doctoral Program | 01 |
| ➤ Paper Published | 40 |
| ➤ Seminars and Workshop Attended | 87 |
| ➤ STP/FDP Attended | 21 |
| ➤ Lectures Delivered By Faculties | 34 |

SPECIAL ACHIEVEMENTS/AWARDS

- Dr.Archana Keerti Chowdhary received Best Paper award for “Monitoring Ground Water Fluctuations in a part of Chhattisgarh” in 42 Annual Convention of IWWA at Jodhpur (29-31 Jan 2010)
- Prof. Amit Sharma received Young Scientist Award by MAPCOST on his valuable contribution on “Seismic Reliability Assessment of Masonry Infilled R.C. Framed Buildings”.
- Prof. Swatilekha Bodh received Young Scientist Award by MAPCOST on his valuable contribution on “Seismic Response Prediction of Folded Plate Structures using Pushover analysis”
- Prof. Swati Shrivastav received International Young Scientist Award for the paper on “Assessment of Ground Water Potential Zone using Remote Sensing of GIS” in Ist International Young Scientist Congress.
- Prof.Pratyush Motwani Received Young Scientist Award by MAPCOST on his valuable contribution on “Estimation of Cost of Delay at Signalized Intersections: A Case Study of Indore.
- Prof.Ashish Nim registered two Patents with his team under the guidance of Dr.Archana Keerti Chowdhary.

ACHIEVEMENTS OF THE STUDENTS

➤ Special Awards	06
➤ Received Gold and Silver Medals	02
➤ Received Chancellor Scholarship	07
➤ Selected in IES and other public Sectors	10
➤ Established as an Entrepreneur	50
➤ Projects with IEDC (DST)	10
➤ Paper Published	111

OUR ESTEEMED ALUMINA

- Akash Varshney - Virgin Atlantic Airways, London (0808CE041001)
- Rachiyata Awasthi - Asst. Director Treasury (0808CE041032)
- Pratibha Mishra - SDO (0808CE041030)
- Ashish Pandey - IES (AIR 120) (0808CE081008)
- Rajat Saklecha - IPS OFFICER (0808CE081042)
- Shashank Sharma – IES (0808CE121103)

SPECIAL ACHIEVEMENTS

- Seven students received Vice Chancellor's scholarship.
- Ashish Pandey Presented an idea on "Tooth as a Structural Inspiration" Birla White Cement, Mumbai and Won 3rd Prize of Rs. 25000/-
- Rahul Jain secured top positions in many state and national level Music Competition.
- Muktanish Jain & group have made the "Longest Bridge by Ice Cream Sticks" and made a record.
- Jai Goswami of civil engineering registered in Limca book of records for construction of "Under Water Tunnel using used refills."
- Muktanish Jain and Puneet Tripathi have made "Future House by Thermocol" and made a record for Limca Book and selected for Hongkong University.

MAJOR PROJECTS OF STUDENTS

1. Soil Structure Interaction of Isolated Footing Using National Geotechnical Centrifuge Facility.
2. Fluid Dynamic Simulation and Modeling.
3. Glass Industry Waste-An Asset to Concrete Industry.
4. Low cost building blocks: a possible replacement of bricks.
5. Tensegrity Robot.
6. Tooth As Structural Inspiration.
7. Stabilization Of Sewage Sludge Using Vermitech.
8. Analysis of flexural behavior of beam by various sensing techniques.
9. Reservoir Inflow Forecasting.
10. Structural Design of biogas plant based on kitchen waste.
11. Ground water modeling of Raipur region using G.M.S and A.N.N.
12. Green Building.
13. Multilevel parking structure.
14. Cut Throat Flume.
15. Design of flexible pavement and soil stabilisation using milled scale.
16. Inter Linking of Rivers.

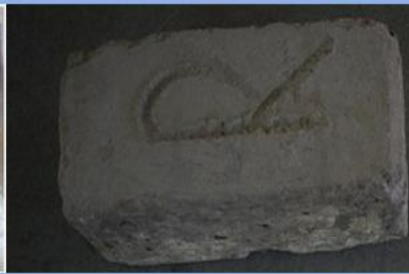
17. Pipe distribution system from AFT Impulse.
18. Performance analysis & remedial study for R.C.C. structure under blast loading.
19. Experimental analytical investigation for the properties of ferrocement conc.composits.
20. Sismic strengthening of existing residential building.

INNOVATION & ENTREPRENEURSHIP DEVELOPMENT CENTER (IEDC)

The department of science & technology, Govt. of India New Delhi has established “Institute of Engineering & Science, IPS Academy, Indore” as Innovation & Entrepreneurship Development Centre (IEDC) with the mission to develop institutional mechanism to create entrepreneurial culture in academic institutions to foster growth of innovation & entrepreneurship amongst the faculty & students of the institution. It is a matter of pride for the Institute of Engineering & Science IPS Academy. Further the Govt. of India has sanctioned Rs.13.35 lacs as grant for establishing IEDC Cell & support for student’s project.



Eco Mortar using Polythene Waste



Low Cost Building Blocks from Grinded Packaging Waste



Low Cost Tiles using Cement-Sand-Slag Composite



Porous Paver Block



Use of Glass Waste in Concrete



Concrete Cloth

LIST OF STUDENTS' PROJECTS SPONSORED BY DST (IEDC)

2012-13

S.NO.	Particulars	Amount
1	Low Cost Building Blocks: A Possible Replacement Of Bricks.	1,00,000/-
2.	Glass Industry Waste-An Asset To Concrete Industry	1,00,000/-

2013-14

S.NO.	Particulars	Amount
1.	Using E-waste as aggregate replacement in Concrete	1,00,000/-
2.	Casting of bricks using mixture of grinded packaging products by replacing it with clay in varying percentage	1,00,000/-

2014-15

S.NO.	Particulars	Amount
1.	Manufacturing of Eco Mortar using grinded mixtures of Non Biodegradable Waste.	1,00,000/-
2.	Use of Non Biodegradable Waste as an Sub grade Material in Pavement.	1,00,000/-

2015-16

S.NO.	Particulars	Amount
1.	Low Cost Panel Blocks Based on Phosphogypsum and Plastic Pet Bottle.	1,00,000/-
2.	Low Cost Tiles Using Cement-Sand-Slag Composite.	1,00,000/-

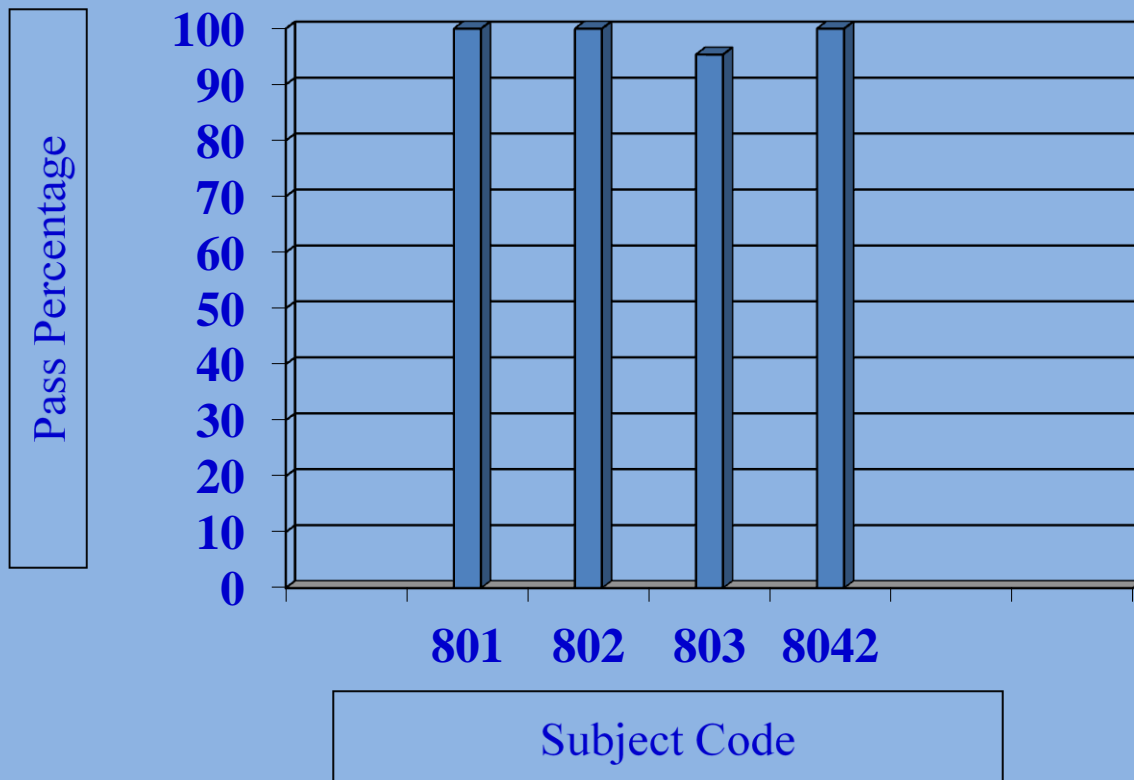
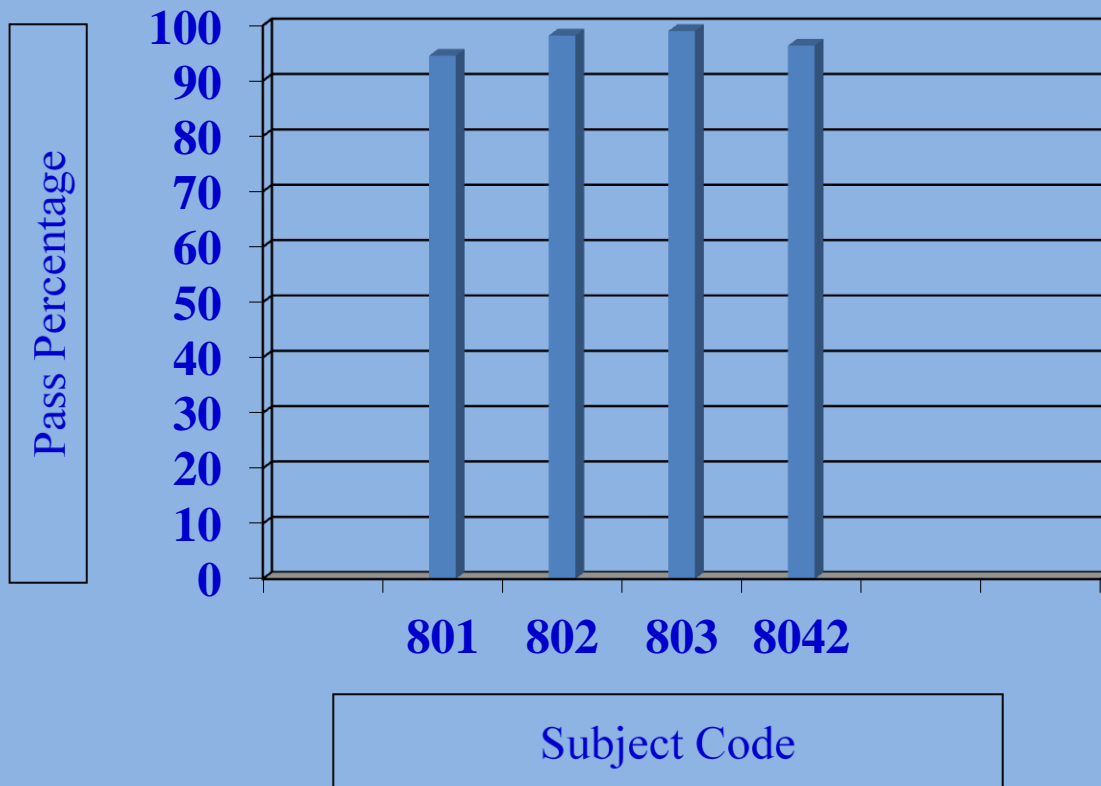
2016-17

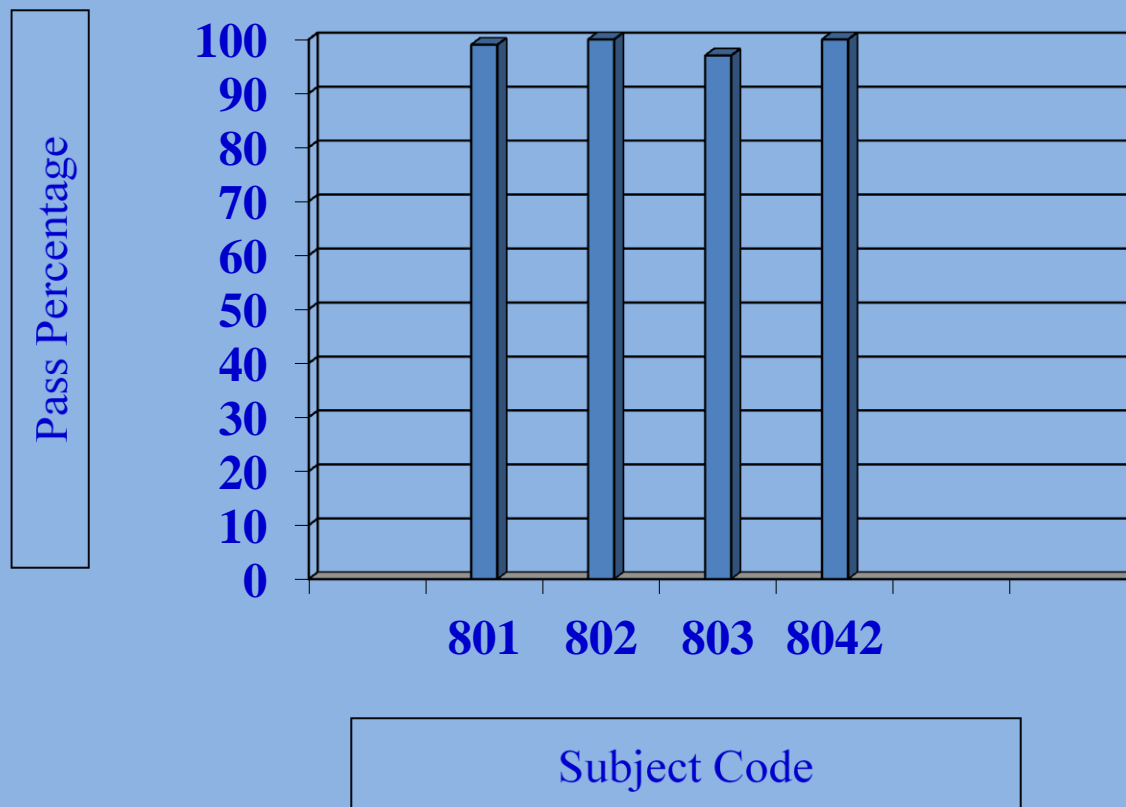
S.NO.	Particulars	Amount
1.	Concrete Cloth- Low Cost Flexible Concrete	1,00,000/-
2	Porous Paver Blocks	1,00,000/-

LIST OF PROPOSALS SENT FOR APPROVAL FROM VARIOUS AGENCIES

S.NO.	Particulars	Agency
1.	“Importance of integrated water resource management and community informatics in the present era.”(Jal Sutra)	DST
2.	“Developing a low cost water filter for defluoridization of drinking water using biochars obtained from agriculture waste.”	DST
3.	“Application of Genetic Algorithm in Water Resources”	CSIR
4.	“Disaster prevention and engineering structures safety”	MPCST
5.	“Traffic & Transportation Problems In Indore City”	CSIR
6.	“Application of Carbon Nano Tube in Concrete Technology.”	DTE

RESULT ANALYSIS





801 – Geotechnical Engg. –II

802– Contraction Planning & Management

803– Advanced Structural Design-II (Steel)

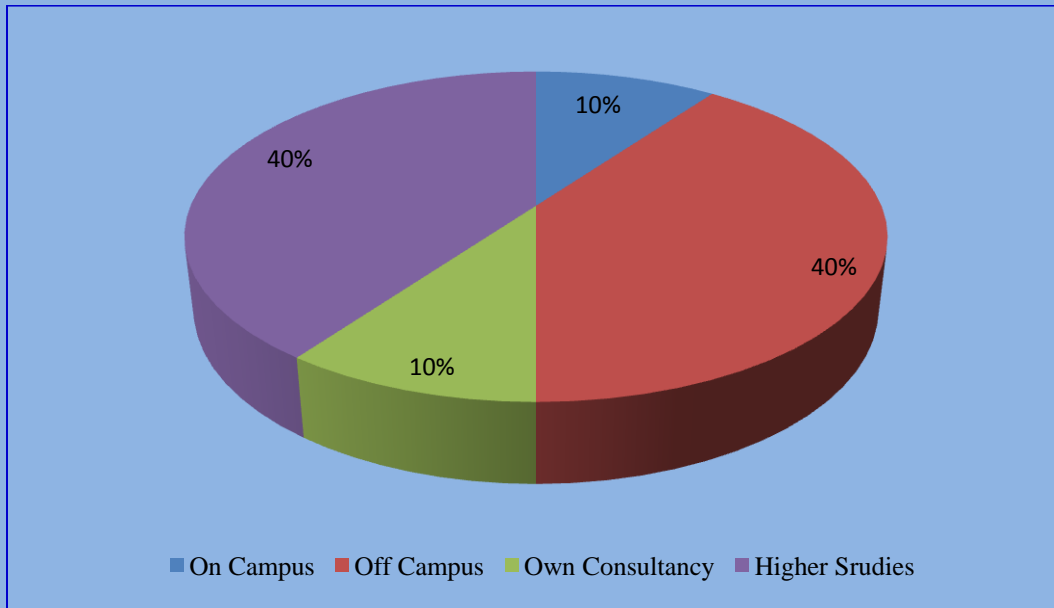
8042– Elective-II

INTERNSHIP PROGRAM & GRADUATE PREPARATION COURSE

As an initiative to encourage practical exposure of the students on Emerging Civil Engineering Practices and to enhance technical competence of students in demanding areas relevant to placement and professional career thereafter, we are organizing internship program & graduate preparation course.

TRAINING / PLACEMENT

The main objective of every institute is to place its students successfully in reputed business organizations. For the same, IPS Academy has a Placement Cell, headed by the placement officer. Up to last year about 60% of the students have been placed or engaged in own consultancy, remaining 20% are pursuing higher studies. But now inclination of more than 40% students is towards higher studies.



CAREER OPPORTUNITIES

- Airport Authority of India & Defense Forces
- Civil Engineering Software Development Companies
- EDWPL India Ltd, MPRRD, PMGSY etc.
- Business Groups Like L&T, BHEL, Adani, Vedanta, Loyal Steel etc.
- Infrastructure Developer Companies, Development Boards & Municipal Bodies
- Insurance Companies, Banks HDFC, ICICI etc.

CONTACT

HOD Civil Engineering
Ph.0731- 4014607-608
Email : hod.civil@ipsacademy.org



Knowledge, Skills, Values

IPS ACADEMY

16 Collages, 71 Courses, 51 Acre Campus
ISO 9001: 2008 Certified

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