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MESSAGE FROM THE DESK OF EDITOR IN CHIEF

The Chief Editor and Editors of the advanced research journal of Management, Engineering, Law, Paramedical Science, Nursing, Basic Science, Education, Physical Education and Yoga, Special Education, Clinical psychology and Liberal Arts i.e. IUT Journal of Advanced Research and Development (JARD) would take it as their duty to express the deep gratefulness to the contributors and readers of the special volume.

We feel proud to bring the special issue of the online IUT Journal of Advanced Research and Development. We consider that the contribution in this special issue will help in the inclusive and sustainable growth process. Keeping in tune with this dignified idea, the special issue of IUT-JARD has addressed some current problems covering diversified field such as firstly, the social ramifications of urbanization growth: challenges associated with urban poverty and community development. Secondly, A comparative study on interpersonal needs, personality traits, and psychological well-being in relation to suicidal ideation among emerging adults. Thirdly, a cross-sectional study evaluating the professional quality of life and coping strategies among trainee teachers and health care trainees. Fourthly, Executive dysfunction in alcohol dependence: A focus on perseverative and non-perseverative errors and Fifthly, Knowing the unknown: a neurocognitive study on LGBTQ+ individuals. Finally, the information contains in this journal special volume has been published by the IUT obtains by its authors from various sources believed to be reliable and correct to the best of their knowledge, and publisher is not responsible for any kind of plagiarism and opinion related issues.



Professor (Dr.) Dhananjoy Datta

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EXECUTIVE DYSFUNCTION IN ALCOHOL DEPENDENCE: A FOCUS ON PERSEVERATIVE AND NON-PERSEVERATIVE ERRORS

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ABSTRACT

Alcohol Dependence Syndrome (ADS) is associated with significant impairments in executive functioning, which are crucial for adaptive behavior, impulse control, and decision-making. The present study examined perseverative errors (PE) and non-perseverative errors (NPE) on the Wisconsin Card Sorting Test (WCST) among young adult males with ADS compared to non-dependent controls. Sixty participants (30 ADS, 30 non-ADS) were assessed using standardized inclusion criteria. Results revealed significantly higher perseverative errors among the ADS group, reflecting impaired cognitive flexibility, while non-perseverative errors did not differ significantly. These findings suggest that cognitive rigidity is a core deficit in ADS, supporting the neurobiological literature linking alcohol dependence with prefrontal striatal disruption. Interventions should focus on cognitive rehabilitation, particularly set-shifting and problem-solving strategies, to improve treatment adherence and relapse outcomes.

Keywords: Alcohol Dependence Syndrome, Executive Functioning, Perseverative Errors, WCST, Cognitive Flexibility

INTRODUCTION

Alcohol Dependence Syndrome (ADS) is a chronic condition associated with both physiological and neurocognitive impairments. Globally, ADS is a major public health concern, contributing to premature mortality and disability (WHO, 2018). In addition to physical health consequences, long-term alcohol use has been consistently linked to deficits in executive functioning, a higher-order cognitive domain that includes cognitive flexibility, response inhibition, working memory, and

problem-solving (Koob & Volkow, 2016). These impairments can significantly reduce treatment adherence, increase relapse vulnerability, and diminish overall quality of life.

Executive dysfunction is a prominent feature in ADS, with studies reporting prevalence rates between 30% and 80% (Maharjan et al., 2017). Chronic alcohol consumption disrupts neural circuits involving the prefrontal cortex and striatum, resulting in impaired decision-making, impulsivity, and difficulty in adapting to new problem-solving demands. Such deficits not only contribute to the persistence of addictive behaviors but also interfere with psychosocial functioning, occupational stability, and interpersonal relationships.

The Wisconsin Card Sorting Test (WCST) is one of the most widely used neuropsychological tools for evaluating executive functioning. Specifically, it provides measures of perseverative errors (PE), which reflect cognitive rigidity and difficulty in shifting mental sets, and non-perseverative errors (NPE), which reflect random or inefficient responses unrelated to set maintenance. Perseverative errors are particularly important because they highlight the inability to modify responses even when corrective feedback is available, indicating dysfunction in the prefrontal cortex.

By focusing on these two indices, this study aims to provide a more nuanced understanding of executive dysfunction in ADS. It was hypothesized that individuals with ADS would show significantly higher perseverative errors compared to non-dependent controls, while non-perseverative errors would not differ significantly. This study therefore contributes to the growing literature on neurocognitive deficits in ADS and offers implications for clinical rehabilitation strategies aimed at enhancing cognitive flexibility and reducing relapse risk.

METHOD

Design

The study used a comparative quantitative design with two independent groups (Alcohol dependent and non-dependent group).

Participants

There were 60 male participants in all, ranging in age from 18 to 35. Thirty ADS patients from Agartala, Tripura, rehabilitation centre made up Group 1. The participants were detoxified for a minimum of two weeks before the evaluation and met the ICD-10 criteria for alcohol use disorder. The General Health Questionnaire (GHQ-12) was used to screen the 30 non-dependent controls in Group 2, who were selected from nearby surroundings and had a cut-off score of < 3 .

Measures

Wisconsin Card Sorting Test (WCST; Heaton, 1981) used to assess cognitive flexibility and executive functioning, focusing on perseverative and non-perseverative error indices. General Health

Questionnaire-12 (GHQ-12) used for screening controls to rule out psychological distress.

Procedure

Institutional ethical clearance and permission to collect data was obtained prior to the commencement of the study. Written informed consent was collected from all participants. ADS participants were first clinically evaluated and stabilized before cognitive assessment. Both groups were assessed individually in a quiet clinical setting. Data collection included building rapport, administration of the WCST along with sociodemographic details. Confidentiality was maintained throughout the study.

Data Analysis

Non-parametric statistical tests were applied due to the nature of data distribution. The Mann–Whitney U test was used for between-group comparisons, and Spearman’s rho was applied to assess the correlation between perseverative and non-perseverative errors. The significance level was set at $p < .05$.

RESULTS

The ADS group demonstrated significantly higher perseverative errors compared to non-dependent or control group ($U = 240.5$, $p = .002$), indicating impaired set-shifting and cognitive rigidity. Non-perseverative errors did not show a significant difference between groups ($U = 342.5$, $p = .112$). A weak, non-significant positive correlation was found between perseverative and non-perseverative errors, suggesting that while the two types of errors co-occur, perseveration is the more defining impairment in ADS.

Table 1:

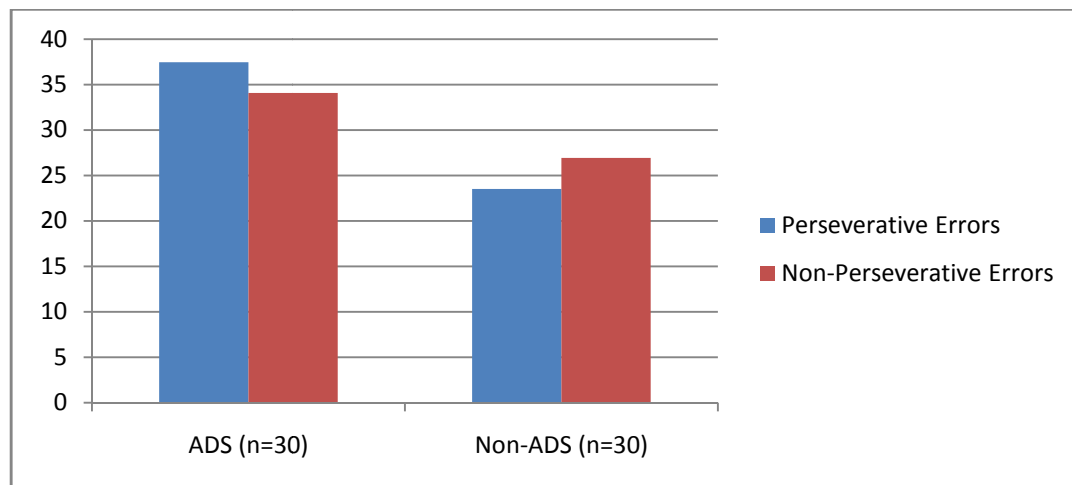
Group Comparison of Perseverative and Non-Perseverative Errors (WCST)

WCST Variables	ADS (n=30)	Non-ADS (n=30)	Mann–Whitney U	p-value
Perseverative Errors	37.48	23.52	240.5	.002**
Non-Perseverative Errors	34.08	26.92	342.5	.112

Note. ** $p < .01$ highly significant; $p < .05$ significant.

Figure 1:

Comparison of Perseverative and Non-Perseverative Errors between ADS and Non-ADS groups on WCST.



DISCUSSION

The results of this study support the hypothesis that individuals with Alcohol Dependence Syndrome exhibit significant executive dysfunction, particularly in the form of perseverative errors on the WCST. Elevated perseverative errors are consistent with previous research (Shrinkhala et al., 2022; Ghosh et al., 2018), underscoring the neurocognitive consequences of chronic alcohol use. These deficits highlight impaired cognitive flexibility and the inability to adapt behavior in response to corrective feedback, a process primarily governed by the prefrontal cortex. In contrast, non-perseverative errors did not differ significantly between groups, suggesting that attentional lapses or random inefficiencies are not primary deficits in ADS. These findings align with Ratti et al. (2002), who similarly emphasized that alcohol dependence selectively impacts set-shifting and inhibitory control. The weak positive correlation between perseverative and non-perseverative errors suggests partial overlap but distinct cognitive processes. While perseveration signals rigid executive dysfunction, non-perseverative errors may be secondary to attentional variability. This differentiation is clinically relevant, as targeted cognitive rehabilitation strategies may reduce perseverative tendencies and strengthen problem-solving abilities (Rupp et al., 2018).

CONCLUSION

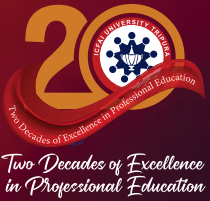
This study reinforces the central role of perseverative errors as a hallmark deficit of executive functioning in alcohol dependence. Although non-perseverative errors were observed, they did not significantly differentiate ADS from controls, underscoring the primacy of cognitive rigidity in this population. From a clinical perspective, these findings highlight the need for interventions that specifically address set-shifting, impulse control, and adaptive problem-solving. Cognitive rehabilitation programs, when integrated into traditional psychosocial treatment models, may enhance treatment adherence and reduce relapse vulnerability. Future research should examine larger and more diverse populations, including women and older adults, to explore the generalizability of these findings.

Longitudinal studies would also help determine whether improvements in executive functioning predict sustained recovery outcomes.

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ABOUT THE UNIVERSITY

The ICFAI University, Tripura was established in 2004 through an Act of State Legislature. The University has been approved by the University Grants Commission, under Section 2(f) of the UGC Act, 1956. ICFAI University Tripura is a multidisciplinary University offering 50+ different programs.

ACCREDITATIONS

- University Grants Commission (UGC)
- National Assessment and Accreditation Council (NAAC)
- Bar Council of India (BCI)
- National Council for Teacher Education (NCTE)
- Rehabilitation Council of India (RCI)
- Tripura Nursing Council (TNC)
- Indian Nursing Council (INC)
- MSME(HI/BI), Govt of India has recognised as Host Institute to Support for Entrepreneurial and Managerial Development of MSMEs through Business Incubators

MEMBERSHIP

- Member of the Association of Indian Universities, New Delhi, India
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- Inter- University National Cultural Board (IUNCB)
- Amazon Internet services Pvt. Ltd for AWS (Cloud Computing) Program
- Oracle Academy
- Indo-Australian Chamber of Commerce

RANKING/ CERTIFICATES

- ICFAI University Tripura has been ranked 1st among Private Multidisciplinary University in Tripura by Education World India Higher Education Ranking 2023-24.
- ICFAI University Tripura has been ranked 35 in the year 2024 as the Best University all over India by India Today – MRDA
- Faculty of Science & Technology of ICFAI University Tripura has been ranked 148 as the Best Engineering College all over India Rank among private/government colleges by India Today – MRDA
- ICFAI Law School of ICFAI University Tripura has been ranked 35 as the Top Law School all over India by India Today – MRDA
- ICFAI Science School, Bachelor of Science(H) of ICFAI University Tripura has been ranked 175 as Best college all over India by India Today – MRDA
- Faculty of Liberal Arts, Bachelor of Arts of ICFAI University Tripura has been ranked 136 as Best college all over India by India Today – MRDA
- Faculty of Management & Commerce, Bachelor of Business Administration of ICFAI University Tripura has been ranked 70 as Best College all over India by India Today – MRDA
- Faculty of Science and Technology of ICFAI University Tripura has been ranked 113 among the top 160 Pvt. Engineering Institute in India by Outlook India.
- Faculty of Management & Commerce, Bachelor of Business Administration of ICFAI University Tripura has been ranked 59 among the Top 130 BBA institute in India by Outlook India in the year 2023.
- The ICFAI University Tripura has been ranked 18 by CSR-GHRDC as the Top Outstanding Engineering colleges of Excellence all over India category in the year 2023
- ICFAI University Tripura got AAA ratings as India's best Engineering Institute 2023 by Careers 360 Magazine.
- Established 'Institute Innovation Council (IIC) as per norms of Innovation Cell, Ministry of MHRD, Govt. of India
- Certified by ISO 9001: 2015
- ICFAI University Tripura certified by Directorate of Social Welfare & Social Education
- ICFAI University Tripura has been registered as a club under the Yuva Tourism Club an Initiative by the Ministry of Tourism in the year 2023
- Registered with NGO Darpan, Niti Ayog, Govt. of India
- Best Universities & Colleges 2018-19 awarded to ICFAI University Tripura in the special category by Rubber Skill Development Council (RSDC).

SCIENCE AND TECHNOLOGY

- B.Tech (CE, ME, ECE, EE, CSE)
- B.Tech (Lateral Entry)
- B.Sc. in Data Science & AI
- BCA
- Integrated MCA
- MCA
- M.Tech - CSE
- M.Tech - Structural Engineering
- M.Tech - Water Resource

BASIC SCIENCE

- B.Sc. Physics (Hons)
- B.Sc. Chemistry (Hons)
- B.Sc. Mathematics (Hons)
- M.Sc. Physics
- M.Sc. Chemistry
- M.Sc. Mathematics

EDUCATION

- B.Ed
- MA Education
- M.Ed

LIBERAL ARTS

- B.A. English (Hons.)
- B.A/B.Sc. Psychology (Hons.)
- M.A English
- M.A/M.Sc-Psychology
- B.A./B.Sc. Journalism and Mass Communication
- M.A./M.Sc. Journalism and Mass communication

ALLIED HEALTH SCIENCES

- B.Sc. in Emergency Medical Technology
- B.Sc. in Cardiac Care Technology
- B.Sc. in Dialysis Therapy Technology
- Bachelor in Health Information Management
- B.Sc. in Medical Laboratory Technology (BMLT)
- B.Sc. in Medical Laboratory Technology (BMLT) (*Lateral Entry*)
- Master in Medical Laboratory Technology (MMLT)

CLINICAL PSYCHOLOGY

- M.Phil in Clinical Psychology

Ph.D

Engineering (CE, CSE, ME, ECE, EE), Science (Physics, Chemistry, Mathematics), Allied Health Sciences (Molecular Biology, Clinical Bacteriology, Clinical Biochemistry), Management (OB, HR, Marketing, Finance), Economics, Commerce, Law, English, Psychology, Education, Spl. Education, Sociology, Physical Education, Political Science, Philosophy.



MANAGEMENT & COMMERCE

- BBA
- B.Com (Hons.)
- B.A./B.Sc. Economics
- MBA
- Executive MBA
- M.Com
- MA./MSc. In Economics
- Master in Hospital Administration (MHA)

LAW

- BA-LLB (Hons.)
- BBA-LLB (Hons.)
- LL.B
- LL.M (2 Years)

SPECIAL EDUCATION

- B.Ed. Spl. Ed. (ID)
- D.Ed.Spl. Ed. (IDD)
- M.Ed. Spl. Ed. (ID)
- Integrated B.A. B.Ed. Spl. Ed. (ID)
- Integrated B.Com. B.Ed. Spl. Ed. (ID)
- Integrated B.Sc. B.Ed. Spl. Ed. (ID)
- Integrated B.A. B.Ed. Spl. Ed. (Visually Impaired)

NURSING

- GNM

LIBRARY AND INFORMATION SCIENCES

- B.Lib.I.Sc.
- M.Lib.I.Sc.- Integrated
- M.Lib.I.Sc.

PHYSICAL EDUCATION

- B.P.Ed
- D.P.Ed
- B.P.E.S
- B.P.E.S (Lateral Entry)
- M.P.E.S

YOGA & NATUROPATHY

- Post Graduate Diploma in Yoga Education and Therapy
- B.Sc. in Yoga
- B.A. in Yoga



Program	Duration	Eligibility	Career Prospects Employment Opportunities
B. Tech (CE, CSE, ECE, ME, EE)	4 Years	Pass in 10 + 2 (Phy/Chem/Math) with minimum 45%, (40 % in case of SC/ST/ OBC) aggregate marks	IT,ITEs, Manufacturing,Companies, Corporates, Telecom, Banks, Govt. Services
B. Tech - Lateral Entry (CE, CSE, ECE, ME, EE)	3 Years	Pass in 3 - year diploma course with minimum 45 % (40 % in case of SC/ ST/ OBC) aggregate marks	IT,ITEs, Manufacturing,Companies, Corporates, Telecom, Banks, Govt. Services
B.Sc. in Data Science & AI	4 Years	Pass in 10+2 examination with 45% marks from science discipline	Corporates, AI Researcher, Data Scientist, Machine Learning Engineer, Data Analyst, Business Intelligence Developer, AI/ML Product Manager
BCA	3 Years	Pass in 10 + 2 (any Discipline) examination	IT,ITEs, Corporates, Banks, Govt. Services, NGO's.
Integrated MCA	5 Years	Pass in 10 + 2 (any Discipline) examination	IT,ITEs, Corporates, Banks, Govt. Services, NGO's.
MCA	2 Years	Graduation in any discipline, with 40% and above aggregate marks.	IT,ITEs, Corporates, Banks, Govt. Services, NGO's, Research
M.Tech - Water Resource Engineering	2 Years	Valid GATE Scorer with B.Tech /B.E in Civil Engineering or B.Tech /B.E in Civil Engineering with 60% marks	Research, consultant to Pvt. Organization in the field of flood forecasting, flood inundation, flood disaster management, Entrepreneur.
M.Tech - Structural Engineering	2 Years	Valid GATE Score with B.Tech/B.E., in Civil Engineering or B.Tech/B.E. in Civil Engineering with 60% marks.	Structural Engineer, Project Manager, Researcher, Quality Control, Teaching, Entrepreneurship, and more.
M.Tech - Computer science & Engineering	2 Years	Pass with 60% aggregate marks in B.Tech. (CSE or IT or ECE or EEE) or MCA or M.Sc. (IT or Computer Science) or equivalent	Offers opportunities in cutting-edge technology-based research like AI ML, Cybersecurity, and software development roles in the ever-evolving field of computer science.

Basic Science

Program	Duration	Eligibility	Career Prospects Employment Opportunities
B.Sc. Physics (Hons.)	4 Years	Pass in 10 + 2 with 40 % marks in Physics & pass in Maths	Teaching in Schools/ Colleges/ Educational Administrator/ Corporate
B.Sc. Chemistry (Hons.)	4 Years	Pass in 10 + 2 with 40 % marks in Chemistry	Teaching in Schools/ Colleges/ Educational Administrator/ Corporate
B.Sc. Mathematics (Hons.)	4 Years	Pass in 10 + 2 with 40 % marks in Mathematics	Teaching in Schools/ Colleges/ Educational Administrator/ Corporate
M.Sc. Physics	2 Years	Graduate with 45 %(40 % in case of SC/ST/ OBC) marks in Physics	Teaching in Schools/ Colleges/ Educational Administrator/ Corporate
M.Sc. Chemistry	2 Years	Graduate with 40% marks in Chemistry	Teaching in Schools/ Colleges/ Educational Administrator/ Corporate
M.Sc. Mathematics	2 Years	Graduate with 40 % marks in Mathematics	Teaching in Schools/ Colleges/ Educational Administrator/ Corporate

Liberal Arts

Program	Duration	Eligibility	Career Prospects Employment Opportunities
B.A. English (Hons.)	4 Years	Pass in 10 + 2 (any Discipline) with 40 % marks in English	Jobs in Govt., Teaching in Schools/Educational Administrators/ Corporate, Banks, Telecom, Media, Journalism
M.A English	2 Years	Graduate in any Discipline with minimum 45 % in English (40% in case of SC/ST/ OBC) aggregate marks	Jobs in Govt., Teaching in Schools/Educational Administrators/ Corporate, Banks, Telecom, Media, Journalism/ Research
B.A. Psychology (Hons)	4 Years	Pass in 10 + 2 (any Discipline) with 50 % (45% in case of SC/ST/ OBC) marks	Teaching in Schools/ Colleges/ Educational Administrator/ Corporate
M.A Psychology	2 Years	Graduate with 45 % in Psychology (40 % in case of SC/ST/ OBC) marks.	Teaching in Schools/ Colleges/ Educational Administrator/ Corporate
B.Sc. Psychology (Hons)	4 Years	Pass in 10 + 2 (any Discipline, with Economics or Maths as a combination subject) with 50 % (45% in case of SC/ ST/ OBC) marks	Teaching in Schools/ Colleges/ Educational Administrator/ Corporate
M.Sc. Psychology	2 Years	B.Sc Psychology degree from a recognized university with 45 %(40% in case of SC/ST/ OBC) marks in Psychology.	Teaching in Schools/ Colleges/ Educational Administrator/ Corporate
B.A. Journalism and Mass Communication	4 Years	Minimum 10+2 (in any discipline) with 40% or above marks in aggregate	Reporter, Journalist, News Editor, or Photojournalist in print, electronic or digital media, Public Relations Officer, Content Writer/ Developer for websites, blogs and social media, Filmmaking and Radio jockey, Advertising campaigns, Social Media Manager
B.Sc. Journalism and Mass Communication	4 Years	Minimum 10+2 (in Science Stream) with 40% or above marks in aggregate	
M.A. Journalism and Mass Communication	2 Years	Minimum Graduation (in any discipline) with 45% or above marks in aggregate	Director of Communications for advertising campaigns, Content writer/ Developer for websites, blogs and social media, Journalist/ Photojournalist, Filmmaking and Radio Jockey (RJ), Screenwriter, Sound Engineer, TV Correspondent, Producer, Art Director, Technical Communication Specialist, Web Producer
M.Sc. Journalism and Mass Communication	2 Years	Minimum B.Sc. or B. Tech Degree with 45% or above marks in aggregate.	

Law

Program	Duration	Eligibility	Career Prospects Employment Opportunities
BBA-LLB Integrated	5 Years	Pass in 10 + 2 with minimum 45 % (40 % in case of SC/ST, 42% in case of OBC) aggregate marks	Corporates, Banking, Judiciary, Legal Practice, NGO's IPR
BA-LLB Integrated	5 Years	Pass in 10 + 2 with minimum 45 % (40 % in case of SC/ST, 42% in case of OBC) aggregate marks	Corporates, Banking, Judiciary, Legal Practice, NGO's IPR
LL.B	3 Years	Graduate in any Discipline with minimum 45 % (40 % in case of SC/ST, 42% in case of OBC) aggregate marks	Corporates, Banking, Judiciary, Legal Practice, NGO's IPR
LL.M	2 Years	Graduate with LLB degree (Recognised by BCI)	Corporates, Banking, Judiciary, Legal Practice, NGO's IPR, Research

Management & Commerce Studies

Program	Duration	Eligibility	Career Prospects Employment Opportunities
B.Com (Hons.)	4 Years	Pass in 10 + 2 examination in commerce or Science with 45% (40% in case of ST/ SC/OBC) marks	Banks, Financial Services, Corporates
BBA	3 Years	Pass in 10 + 2 (any Discipline) examination with minimum 40% marks	Banks, Financial Services, IT, Insurance, Telecom, Corporates, Consulting Companies.
B.A. Economics	4 Years	Pass in 10 + 2 (any Discipline) examination with minimum 40% marks	Financial Analyst/ Investment Banker/ Risk Manager/ Actuary/ Public Sector Policy Analyst/ Economic Advisor/ Public Sector Economist/ Central Bank Analyst/ Management Consultant/ Trade Specialist/ Data Analyst/ Statistician/ Market Research Analyst/ Startups and Business Ventures
B.Sc. Economics	4 Years	Pass in 10 + 2 with minimum 45 % marks in Mathematics	Financial Analyst/ Economist /Management Consultant /Data Scientist/ Public Policy Analyst/ Financial Manager/ Marketing Manager/ Research Analyst/ Economic Advisor/ Statistician/ Market Research Analyst/ Startups.
MBA	2 Years	Graduate in any discipline with minimum 50 % (45 % in case of SC/ST/OBC) aggregate marks	Banks, Financial Services, IT, Insurance, Telecom, Corporates, Consulting Companies, Research
Executive MBA	2 Years	Graduation in any discipline with 45% and above aggregate marks, with a minimum of two years of work experience.	Banks, Financial Services, IT, Insurance, Telecom, Corporates, Consulting Companies, Research
M.Com	2 Years	B.Com with 45%(40% in case of ST/SC/OBC) Marks	Banks, Financial Services, Corporates
Master of Hospital Administration (MHA)	2 Years	Graduate with 40% aggregate marks (Preference will be given to MBBS, BDS, BHMS, B.Sc Nursing, BPT, BAMS, B.Sc Allied Health Science, Bioscience, General Science, Veterinary Sciences & B.Sc Pharma)	Hospitals(Government /Private), NUHM, NRHM, NRLM, Healthcare consultancy firm, Hospitality industry, Medico-legal consultancy firm, Insurance sector (Government/ Private)
M.A Economics	2 Years	Candidates must hold BA/B.Sc. Honours degree in Economics with a minimum of 45% aggregate marks (or equivalent).	Public Policy Analyst/ Economic Advisor/ Central Bank Analyst/ Trade Specialist/ Public Sector Economist/ Management Consultant/Professor/ entrepreneurial ventures in policy-related domains.
M.Sc. Economics	2 Years	Candidates must hold a B.Sc. Honours degree in Economics with a minimum of 45% aggregate marks (or equivalent).	Data Scientist/ Financial Analyst/ Risk Manager/ Statistician/ Econometrician/ Research Consultant/ Actuary roles in think tanks of international organizations, and academic institutions.

Allied Health Sciences

Program	Duration	Eligibility	Career Prospects Employment Opportunities
B.sc. in Emergency Medical Technology	4 Years	Pass in 10 + 2 (Science Discipline) with 45% marks in PCB (5% relaxation for SC/ST/OBC Candidates)	Opportunity in Government /Private hospital having ICU/ITU/Critical care unit, Demand in disaster management team for both state/central government, army/navy/airforce. Eligible for Post graduation courses.
B.sc. in Cardiac Care Technology	4 Years	Pass in 10 + 2 (Science Discipline) with 45 %marks in PCB (5% relaxation for SC/ST/OBC Candidates)	Opportunity in Government /Private Hospitals in cardiology department, different cath- labs or diagnostic centers. Eligible for postgraduate courses.
B.sc. in Dialysis Therapy Technology	4 Years	Pass in 10 + 2 (Science Discipline) with 45 % marks in PCB (5% relaxation for SC/ST/OBC Candidates)	Opportunity in Government /Private hospitals, NRHM, NUHM, NGO, clinics/ healthcare setup offering dialysis treatment. Eligible for Post Graduation courses in dialysis.
Bachelor in Health Information Management	4 Years	Pass in 10 + 2 (any Discipline) with 45 % marks (5% relaxation for SC/ST/OBC Candidates)	Opportunity in Government / Private hospitals, diagnostic centers, NRHM/ NUHM, legal firms,Healthcare consultancy .Eligible for Post Graduate courses.
B.Sc. Medical Lab Technology (BMLT)	4 Years	Pass in 10 + 2 (Science Discipline) with 45% marks in PCB (5% relaxation for SC/ST/OBC Candidates)	Opportunity in Government /Private hospital having ICU/ITU/Critical care unit, Demand in disaster management team for both state/central government, army/navy/airforce. Eligible for Post graduation courses.
B.Sc. Medical Lab Technology (BMLT) (LE)	3 Years	Pass in 3 years diploma with 45% marks in aggregate (5% relaxation for SC/ST/OBC Candidates)	Opportunity in Government /Private hospital having ICU/ITU/Critical care unit, Demand in disaster management team for both state/central government, army/navy/airforce. Eligible for Post graduation courses.
Master in Medical Lab Technology (MMLT)	2 Years	Candidate must have passed degree, e.g. B.Sc. MLT/ B.Sc. Physiology/ Microbiology/ Biotechnology/ Biochemistry or equivalent B.Sc. Biosciences from a recognized University	Opportunity in Government / Private sector, Lab Technician, Medical Lab Incharge, Research and Development Manager (Laboratory), Technical Officer etc. Can pursue research or can flourish in academics as well

Education

Program	Duration	Eligibility	Career Prospects Employment Opportunities
B.Ed	2 years	Graduate or post graduate in any discipline with minimum 50 % (45 % in case SC/ST/ OBC) aggregate marks	Teaching in Secondary level
MA - Education	2 years	Graduate in any discipline	Teaching in Schools/Educational Administrators/ Research
M.Ed	2 years	B.Ed. (1/2 years)/ B.EL,ED/B.Sc.B.Ed./B.A B.Ed./ D.EL.Ed. /D.Ed. with a Bachelors degree. 50% marks at all the levels	Teaching in Teacher Education

Physical Education

Program	Duration	Eligibility	Career Prospects Employment Opportunities
B.P.Ed	2 years	Pass in graduation in any discipline and as per university selection procedure.	Jobs in School/ College/ Physical Trainer
D.P.Ed	2 years	Pass in 10+2 or equivalent with 50% of marks in any stream	
BPES	3 years	Pass in 10 + 2 examination or equivalent from any recognised education Board/ University	
BPES(LE)	1 year	Pass in two years diploma in Physical Education	
MPES	2 years	Candidates must have passed with at least 50% marks for Gen/OBC and 45% for SC/ST category. B.P.E.D (4yr. integrated) /B.P.E.D (1yr. or 2yr.)/B.P.E (3yrs.)/B.sc (Physical Education)/ B.P.E.S (3yrs.)	Jobs in School/ College/ University, Physical Trainer/Sports/ Job in Govt. and Private sector as teacher, instructor, coach etc.

Yoga & Naturopathy

Program	Duration	Eligibility	Career Prospects Employment Opportunities
PGDYET	1 year	Any graduate	Yoga Teacher in Schools, Yoga Therapist/ Yoga Psychologist/ Yoga Inspector in MNC's, Health Club, Yoga Club
B.A. in Yoga	3 years	Pass in 10 + 2 (Arts/Commerce) with minimum 40% aggregate marks.	
B.Sc. in Yoga	3 years	Pass in 10 + 2 (Science) with minimum 40% aggregate marks.	

Special Education

Program	Duration	Eligibility	Career Prospects Employment Opportunities
B.Ed.Spl.Ed. (ID)	2 years	Graduate or post graduate in any discipline with minimum 50 % (45% in case SC/ST/ OBC) aggregate marks	Teaching in Secondary level and at special schools
D.Ed.Spl.Ed. (IDD)	2 years	Pass in 10 + 2 (any Discipline) with minimum 50% (45 % in case SC/ ST/ OBC) aggregate marks.	Special schools, Sarva Siksha Abhiyan/ Resource teacher in General School/ Integrated/ Inclusive setup
M.Ed.Spl.Ed.(ID)	2 years	B.Ed. Spl. Ed (ID) / B.Ed. General with D.Ed. Spl. Ed (ID) with 50% marks (RCI).	Professional preparation of teacher educators- engaged in continuous professional development of teachers
Integrated B.A./ B.Com /B.Sc./ B.Ed. Spl.Ed.	4 years	Pass in 10 + 2 with 50% marks	Teaching in Secondary level and at special schools
Integrated B.A. B.Ed. Spl. Ed. (Visually Impaired)	4 years	Pass in 10 + 2 (any Discipline)	They can appear the CTET and TET exam i.e. for Central and State Level, RCI Registered Rehabilitation Professional in Clinic, Nursing home, Hospitals, Counseling centers, Special Educator or Children with Visual Impairment in Inclusive school, Special school and General school.

Clinical Psychology

Program	Duration	Eligibility	Career Prospects Employment Opportunities
M. Phil in Clinical Psychology	2 years	M.A / M.Sc degree in the Psychology with 55% marks in aggregate, Preferably with special paper in Clinical Psychology .	Qualified professional & extensive inputs & widespread Clinical experience to acquire the necessary skills in the area of Clinical Psychology

Library And Information Sciences

Program	Duration	Eligibility	Career Prospects Employment Opportunities
B.Lib.I.Sc.	1 Year	Graduate in any discipline	School/ College/ University/ district/ State / National Libraries, Bank, Govt. Services, NGO's, Research
M.Lib.I.Sc.- Int.	2 Years	Graduate in any Discipline	
M.Lib.I.Sc.	1 Year	Graduate with B.Lib.I.Sc	

Nursing

Program	Duration	Eligibility	Career Prospects Employment Opportunities
GNM	3 years	10+2 with English and must have obtained a minimum aggregated score of 40% marks for the general candidates for any stream •35% SC/St candidates marks required from any stream • Age should be 17-35 (and for SC/ST 5 years relaxation) • Boys & Girls both are eligible	Hospitals(Government /Private), NUHM, NRHM, NRLM, Healthcare consultancy firm, Hospitality industry, Medico-legal consultancy firm, Insurance sector (Government/ Private)

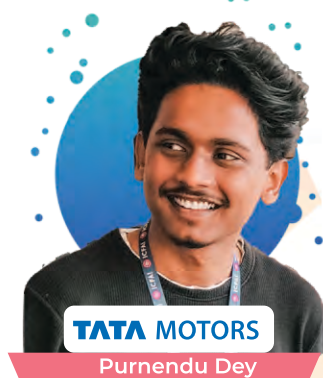
P.hD

Program	Duration	Eligibility	Career Prospects Employment Opportunities
Engineering (CE, CSE, ME, ECE,EE), Science (Physics, Chemistry,Mathematics),Allied Health Sciences (Molecular Biology, Clinical Bacteriology, Clinical Biochemistry), Management (OB, HR, Marketing, Finance), Economics, Commerce, Law, English, Psychology, Education, Spl. Education, Sociology, Physical Education, Political Science, Philosophy	4 years	A two-year postgraduate degree or equivalent from a recognized Institution, with 55% marks or equivalent CGPA in concerned subject. or A regular, full time M.Phil degree from any recognized University	Faculty position, Scientist, Post-doc researcher

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