राष्ट्रीय डिज़ाइन संस्थान
National Institute of Design
मध्यप्रदेश Madhya Pradesh

(An Institute of National Importance under DPIIT, Ministry of Commerce and Industry, Govt. of India)

Ref. No. E-1373/ NIDMP-1-50/20/NIDMP_CAO/2025   Date: 31.01.2025

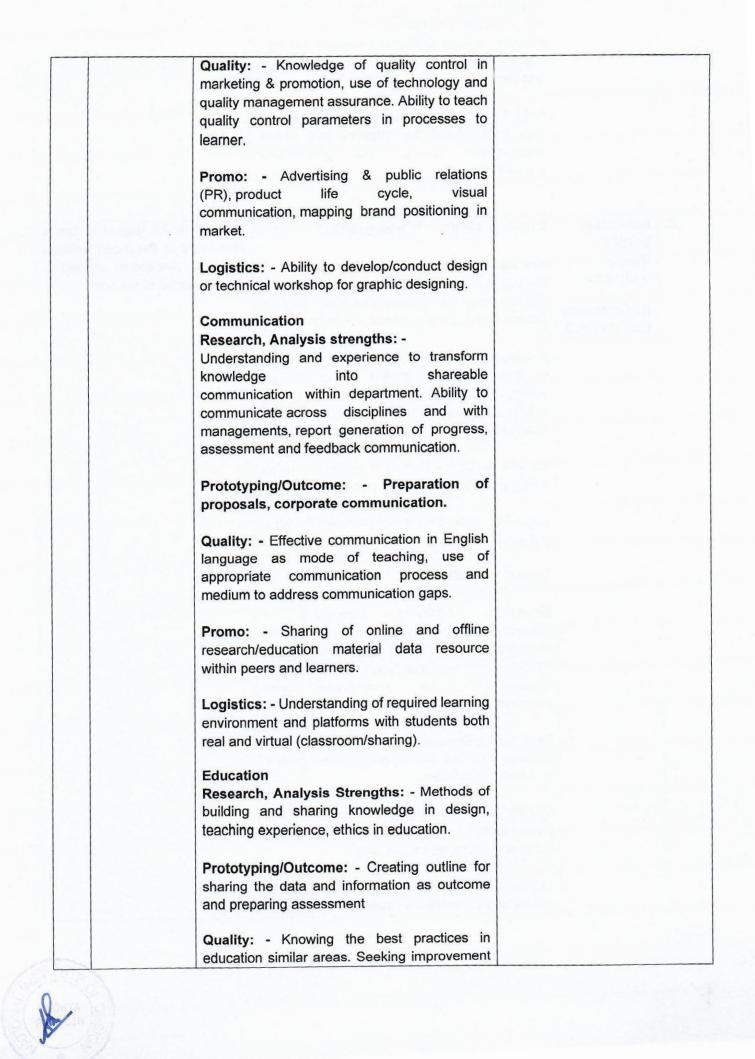
Notification No. 02/2025

Subject: - Broad Syllabus for Written exam and Skill test for Technical Posts.

1. Reference is made to the advertisement No. NIDMP/1-70/(12)Rectt.-Technical/2024 dated 04.12.2024 for technical positions uploaded on NID MP website & published in national dailies and Employment News, regarding recruitment to various technical posts on Deputation/Contract basis.

2. Candidates who have applied/applying for various technical posts in response to the above cited advertisement by submitting offline applications through post are requested to note the broad syllabus as furnished below for written exam and skill test:

Broad Syllabus details: -

Sl. No	Post	For Written Test	For Skill/ Proficiency Test
1.	**Associate Senior Technical Instructor** **(Industrial Design)**	**Specialization: -** **"Carpentry, Joinery, Machine Tools & Welding"** The syllabus covers **industrial safety**, including accident prevention and Factory Act regulations, **carpentry and joinery** techniques such as timber classification, tools, joints, and bamboo work, along with **welding** methods like gas, arc, TIG, MIG, and spot welding. It also includes **casting** processes such as molding, core making, die-casting, and defect analysis, and **machining** fundamentals, covering lathe, drilling, milling, and grinding operations. Additionally, candidates must demonstrate **soft skills** like communication and documentation.	Practical tasks related to topics mentioned in the broad syllabus for written test and as relevant for Job profile of the post, including Hands-on work in carpentry, welding, machining, and casting, alongside experience with prototype hand tools and laser cutting machines.

| 2. | Associate Senior Technical Instructor (Communication Design) | **Specialization: - "Motion Graphics".**

Knowledge, World View (Domain)

Research, Analysis Strengths: -

Knowledge of Graphic Design definitions vis-à-vis application in the present industry and professional practice, types of Graphic Design such as user interface, publishing, packaging, environmental graphics, art and illustration, etc., and related importance to achieve business goals.

Prototyping/Outcome: - Essential technology for graphic design, Graphic Design software and hardware, impact of new technologies such as virtual reality, augmented reality, artificial intelligence, physical immersion, sensory design.

Quality: - Control of quality of the delivered course objectives.

Promo: - Knowledge of future trends in graphic design promotional material and promotional design.

Logistics: - Maintenance of equipment, workshop and computer lab, Manpower management in workshop.

Tech./tool Skills
Research, Analysis strengths: -

Understanding of the nature and role of Graphic Design with respect to emerging global trends such as information overload and complexity, artificial intelligence, sensory design in virtual world, recycle economy, social development and environmental sustainability.

Prototyping/Outcome: - Ability to articulate and communicate thoughts and ideas in the field of graphic design in written and verbal forms, ability to design and deliver presentation on given subject areas, proficiency in use of graphic design software. | Practical tasks related to topics mentioned in the broad syllabus for written test and as relevant for Job profile of the post. |

Quality: - Knowledge of quality control in marketing & promotion, use of technology and quality management assurance. Ability to teach quality control parameters in processes to learner.

Promo: - Advertising & public relations (PR), product life cycle, visual communication, mapping brand positioning in market.

Logistics: - Ability to develop/conduct design or technical workshop for graphic designing.

Communication
Research, Analysis strengths: -
Understanding and experience to transform knowledge into shareable communication within department. Ability to communicate across disciplines and with managements, report generation of progress, assessment and feedback communication.

Prototyping/Outcome: - **Preparation of proposals, corporate communication.**

Quality: - Effective communication in English language as mode of teaching, use of appropriate communication process and medium to address communication gaps.

Promo: - Sharing of online and offline research/education material data resource within peers and learners.

Logistics: - Understanding of required learning environment and platforms with students both real and virtual (classroom/sharing).

Education
Research, Analysis Strengths: - Methods of building and sharing knowledge in design, teaching experience, ethics in education.

Prototyping/Outcome: - Creating outline for sharing the data and information as outcome and preparing assessment

Quality: - Knowing the best practices in education similar areas. Seeking improvement

		in quality, creating quality control parameter for education and delivery **Promo:** - Understanding and study of domain's popular colleges with similar courses education and delivery. **Logistics:** - Resources on applications of appropriate tools for present and future improvement design and professional education.	
3.	Associate Senior Design Instructor (Communication Design)	**Specialization: - "Photography"** **Knowledge, World View (Domain): -** **Research, Analysis Strengths:** - Photography, as a communication medium, Design concept development, research **Prototyping/Outcome & Soft Skills:** - Setting up photographic equipment, taking pictures, editing and retouching images, choosing and setting up locations, reproducing and framing photographs. **Quality control:** - Control of quality in course delivery to meet the desired course objectives **Logistics:** - Maintenance of photography lab & equipment **Tech./Tool Skills** **Research, Analysis Strengths:** - Understanding of the nature and role of Photography with respect to emerging global trends such as information overload and complexity, social development and environmental sustainability. **Prototyping/Outcome:** - Technical skill in photography, film, art, design or media studies and relevant software. **Quality:** - Creativity, patience and concentration, attention to detail, strong networking skills, teamwork skills. **Promo:** - Awareness regarding upcoming events and competitions related to the field of	Practical tasks related to topics mentioned in the broad syllabus for written test and as relevant for the Job profile of the post.

film and photography. Photography and event coverage for promotion purposes.

Logistics: - Ability to develop/conduct design or technical workshop for Photography.

Communication:
Research, Analysis strengths: -
Understanding and experience to transform knowledge into shareable communication within the department. Ability to communicate across disciplines and with management, report generation of progress, assessment and feedback communication.

Prototyping/Outcome: -
Preparation of proposals, corporate communications.

Quality: - Effective communication in English language as mode of teaching, use of appropriate communication process and medium to address communication gaps.

Promo: - Sharing of Online and offline research/education material data resource within peers and learners.

Logistics: - Understanding of required learning environment and platforms with students both real and virtual (classroom/sharing).

Education

Research, Analysis Strengths: - Methods of building and sharing knowledge in design, Teaching experience, ethics in education.

Prototyping/Outcome: - Creating outline for sharing the data and information as outcome and preparing assessment.

Quality: - Knowing the best practices in education similar areas. Seeking improvement in quality, creating quality control parameter for education and delivery.

Promo: - Understanding and study of domain's popular colleges with similar courses, education and delivery.

		Logistics: - Resources on applications of appropriate tools for present and future improvement design and professional education.	
4.	**Associate Senior Design Instructor** **(Communication Design)**	**Specialization: - "Graphic Designer"** **Research, Analysis Strengths: -** Knowledge of Graphic Design definitions vis-à-vis application in the present industry and professional practice, types of graphic design such as user interface, publishing, packaging, environmental graphics, art and illustration, etc., and related importance to achieve business goals. **Prototyping/Outcome:** - Essential technology for graphic design, Graphic Design software and hardware, Impact of new technologies such as virtual reality, augmented reality, artificial intelligence, physical immersion, sensory design. **Quality:** - Control of quality of the delivered course objectives. **Promo:** - Knowledge of future trends in graphic design promotional material and promotional design. **Logistics:** - Maintenance of equipment, workshop and computer lab, manpower management in workshop. **Tech./Tool Skills** **Research, Analysis strengths: -** Understanding of the nature and role of Graphic Design with respect to emerging global trends such as information overload and complexity, artificial intelligence, sensory design in virtual world, recycle economy, social development and environmental sustainability. **Prototyping/Outcome:** - Ability to articulate and communicate thoughts and ideas in the field of graphic design in written and verbal forms, ability to design and deliver	Practical tasks related to topics mentioned in the broad syllabus for written test and as relevant for Job profile of the post.

presentations on given subject areas, proficiency in use of graphic design software.

Quality: - Knowledge of quality control in marketing & promotion, use of technology and quality management assurance. Ability to teach quality control parameters in processes to learner.

Promo: - Advertising & public relations (PR), product life cycle, visual communication, mapping Brand positioning in market.

Logistics: - Ability to develop/conduct design or technical workshop for graphic designing.

Communication

Research, Analysis Strengths: -

Understanding and experience to transform knowledge into shareable communication within department. Ability to communicate across disciplines and with managements, report generation of progress, assessment and feedback communication.

Prototyping/Outcome: - Preparation of proposals, corporate communications.

Quality: - Effective communication in English language as mode of teaching, use of appropriate communication process and medium to address communication gaps.

Promo: - Sharing of Online and offline research/education material data resource within peers and learners.

Logistics: - understanding of required learning environment and platforms with students both real and virtual (classroom/sharing).

Education

Research, Analysis Strengths: - Methods of building and sharing knowledge in design, teaching experience, ethics in education.

		Prototyping/Outcome: - Creating outline for sharing the data and information as outcome and preparing assessment. **Quality: -** Knowing the best practices in education similar areas. Seeking improvement in quality, creating quality control parameters for education and delivery. **Promo: -** Understanding and study of domain's popular colleges with similar courses, education and delivery. **Logistics: -** Resources on applications of appropriate tools for present and future improvement design and professional education.	
5.	**Design Instructor** **(Industrial Design)**	**Specialization**: - **"IT/Software & digital tools with 3D modeling software"** The syllabus focuses on IT/software and digital tools, requiring proficiency in 2D design (Adobe Illustrator, Photoshop, InDesign) and 3D modeling software (Rhinoceros 3D, Blender, Solid Works, AutoCAD). It also covers drafting and technical drawing, including engineering drawing standards (ISO/ANSI), projections, dimensioning, and technical illustration. The skill/proficiency test evaluates practical expertise in 2D vector illustrations, multi-page publications, and brochures, along with 3D modeling, rendering, and animation using Rhinoceros, Blender, and SolidWorks. Candidates must also demonstrate technical drafting skills, including orthographic and isometric projections with precise dimensioning and tolerance.	Practical tasks related to topics mentioned in the broad syllabus for written test and as relevant for Job profile of the post including Hands-on work using software mentioned in the broad syllabus for the written test, including Adobe Illustrator, InDesign, Photoshop, etc. Other 3D Software: Rhinoceros 3D, Blender, Solid Works, AutoCAD and design tools.
6.	**Design Instructor** **(Textile and Apparel Design)**	**Specialization:** **"Pattern Making and Garment Construction Expert"** Knowledge in essential tools, fabric properties, and body balance lines for garment fit and	Practical tasks related to topics mentioned in the broad syllabus for written test and as relevant for Job profile of the post.

		expertise in mannequin draping, drafting techniques, pattern transference, and fabric selection for design precision. Knowledge in accurate body measurement, block creation, dart manipulation, and flat pattern design techniques. Good in fabric preparation, fitting, and drafting variations of skirts, collars, and additional garment components. Able to do pattern making for shirt and trouser block construction, including styles like culottes, slacks, and jeans. Knowledge of sewing, mastering machines, tools, and techniques for garment construction and edge finishes. Able to do decorative stitching, gathering methods, skirt construction, and attachment of sleeves and collars. Knowledge of constructing diverse apparel, including trousers, shirts, specialized garments, and high-fashion couture.	
7.	**Assistant Engineer (Civil)**	Engineering Mechanics, Solid Mechanics and Structural Analysis. Fluid Mechanics and Water Resources. Surveying and Levelling. Quantity Surveying and Valuation, Tendering & Estimation. Building materials. Construction Technology & Construction Management. Geo-technical Engineering Works, etc. Environmental Engineering. Design of Structures. Transportation Engineering and Urban Planning. CPWD Technical Specifications, IS Codes, Works Manual and Maintenance Norms, Contract Management. General English, General Hindi, Quantitative Aptitude, Verbal & Non-Verbal Reasoning. General Studies & Current Affairs. Application of Computer Software like MS Word, Excel etc. Internet & e-mail used in day-to-day office work and Central Government rules, Office procedures.	Domain field knowledge and skills in the relevant area specific to the post related to Civil Engineering such as entry of quantity of executed works in the M.B, rate analysis, preparation of estimate and tender documents, drawing, survey, civil maintenance works, etc. Basic Civil Engineering, quality and quantity measurement of building works, knowledge of execution of building works at site and campus maintenance works etc.
8.	**Assistant Engineer (IT)**	Computer Organization and Architecture. Programming and Data Structures. Algorithms. Compiler Design. Operating System. Databases. Computer Networks, Firewall, Switches, Servers. General English, General Hindi, Quantitative Aptitude, Verbal and Non-Verbal Reasoning, General Studies & Current Affairs. Application of Computer Software like	Knowledge of Networking fundamentals, Routing, Switching, DNS, ADS, DHCP, IP etc. Basic knowledge of Installing, Configuring Windows Server and Linux Server. Knowledge of Database SQL Fundamentals, SQL Queries. Knowledge of Web

		MS-Word, Excel, Power-Point etc. used in day-to-day office work, Internet, e-mail and various online tools used in day-to-day office work, Central Government rules, office procedures. Programming and Data structure, DBMS, Operating System, SMPS, Assembling and disassembling PCs, BIOS / CMOS Setup, Installation of Drivers and Software, CPU, Motherboard, RAM/ ROM, Hard Disk Drive, Optical Drive, Keyboard, Mouse, Monitor, Printer, Scanner, Projector, Virus / Malwares, Networking, Internet, Web Technology, Operation of LV Systems. Basic LINUX Commands. ISMS Standards. Regulatory framework in terms of Cyber Security & IT Act. Endpoint Security, Data & Application Security. Maintenance of IT Infrastructure including Annual Audits, Record-keeping of Licenses and IT Assets etc., Trouble shootings of various systems / IT equipment/ peripherals.	Development (.Net, Java, PHP etc.) and Programming Language (C, C++, C# etc). Practical computer hardware and software troubleshooting. Fundamentals of Computer SMPS, Assembling and disassembling PCs, BIOS / CMOS Setup, Installation of Drivers and Software, CPU, Motherboard, RAM/ROM, Hard Disk Drive, Optical Drive, Keyboard, Mouse, Monitor, Printer, Scanner, Projector, Virus / Malware, Networking, Internet. UNIX, LINUX basic commands. Troubleshooting of all Equipment of Computer Lab.
9.	Supervisor (Electrical / Security)	General English, General Hindi, Quantitative Aptitude, Verbal & Non-Verbal Reasoning. General Studies & Current Affairs. Application of Computer Software like MS-Word, Excel etc. Internet & e-mail used in day-to-day office work and Central Government rules, Office procedures related to Electrical Authorities. Domain knowledge about different Electrical Machines, Instrumentation, Power Systems, Control Systems, Power Electronics, Networks etc. Basic Electrical Engineering, Electrical Circuits, Electrical Control Wiring, Electrical Measuring Instruments and Electrical Safety. Fire Fighting System and Fire Alarm System in buildings. CPWD Technical Specifications, Electrical Maintenance Works Manual and Norms. Trouble shootings of various systems / machines / equipment etc. as relevant for the Job profile of the post.	Domain Practical knowledge about different Electrical Machines, Electrical Instrumentation, Power Systems, Control Systems, DG Sets, Power Electronics, Networks etc. Basic Electrical Engineering, Electrical Circuits, Electrical Measuring Instruments, Electrical & Fire Safety. Trouble shootings of various systems / machines / equipment. Electrical Safety norms & best practices.
10.	Technical Assistant	General English, General Hindi, Quantitative Aptitude, Verbal & Non-Verbal Reasoning. General Studies & Current Affairs. Application of Computer Software like MS-Word, Excel etc. Internet & e-mail used in day-to-day office work and Central Government rules. Domain knowledge about different Electrical Machines, Instrumentation, Power Systems, Control Systems, Power Electronics etc. Basic	Domain Practical knowledge about different Electrical Machines, Electrical Instrumentation, Power Systems, Control Systems, DG Sets, Power Electronics etc. Basic Electrical Engineering, Electrical Circuits, Electrical Measuring Instruments, Electrical Machines.

		Electrical Engineering, Electrical Circuits, Electrical Control Wiring, Electrical Measuring Instruments and Electrical Safety. CPWD Technical Specifications, Electrical Maintenance Works Manual and Norms. Electrical Safety norms & best practices. Trouble shootings of various systems / machines / equipment etc. as relevant for the Job profile of the post.	Trouble shootings of various systems / machines / equipment. Electrical Safety norms & best practices.

3. The above-mentioned broad syllabus is indicative and not exhaustive in nature.

4. Any further updates shall be made available only on the Institute website. Candidates are advised to keep on checking the Institute's website for further updates.

Chief Administrative Officer

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1. PA to Director, NID MP
2. Assistant Engineer (IT) – for uploading this notification on the official website of NID MP for information of the applicants.
3. Office copy.