

# BSC 3RD YEAR 5TH SEM LAB MANUAL

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**How do you start a lab manual?**

**What is a lab manual for college?** Purpose of a lab manual: By writing down general communication protocols and “how tos”, lab members will have a framework to reference about the proper actions and etiquette to be taken and used for matters concerning the lab both internally and externally.

**How do you write a chemistry lab manual?** Include all observations and measurements in your lab notebook. Always include units of measurement. These notes should include if a substance changed colors, if a reaction produced bubbles, if a process took longer than expected, the weights/volumes of substances used, etc.

**What do you write in a science lab manual?** Objective: Underneath the title, write a concise aim or objective of the experiment. This section should state what you aim to achieve or learn from the experiment. Materials and Apparatus: List all the materials and apparatus you'll be using for the experiment. This list should be comprehensive and clear.

**What are the steps to write a manual?**

**How do you write a lab manual procedure?** Procedures. Your experimental procedure should describe the exact steps you took to gather data in chronological order. You'll need to provide enough information so that someone else can replicate your procedure, but you should also be concise. Place detailed information in the appendices where appropriate.

**Is a lab manual a book or journal?** According to the APA, a Lab Manual should be cited and referenced like a book. When a book has no clear author, move the title in place of author.

**What are the contents of a laboratory manual?** Laboratory manuals contain descriptions of standard laboratory procedures, current techniques and safety measures, as well as formulae and other technical information.

**How to write a lab guide?**

**What not to say in a lab report?** This means you should not use the subjects “I,” “We,” “You,” or the pronouns “We,” “they,” “she,” or “he” in your reports. Likewise, all experimental actions should be described in the past tense, although lab equipment, theories, and the report itself should be referred to in the present tense.

**How do you sight a lab manual?** Lab Manual Editor, or professor. Year. Title of lab manual [lab manual]. Place of Publication: Publisher.

**How do you format a chemistry lab?**

**Is lab manual important?** A laboratory manual typically serves as a written document outlining the standard functioning of a research laboratory, ensuring that lab members have a shared understanding of procedures and protocols.

**What is a science lab manual?** A lab manual usually contains exercises that help the students familiarize themselves with the facilities, equipment, chemicals, glassware, instruments used for measurement, and specimens available in a school science laboratory.

**How to maintain a lab manual?**

**What is the format of a manual?** An instruction manual typically contains: A product overview and table of contents. Step-by-step instructions with illustrations or screenshots. A list of best practices.

**How to make a manual example?**

**How do you make a manual step-by-step?**

**How do you write a step-by-step manual?**

**How do you write a procedure manual?**

**What is included in a procedure manual in a laboratory?**

**How do you start an instruction manual?**

**How do you start a manual?**

**How do you start a procedure manual?**

**How do you start a training manual?**

**What is e-commerce by authors?** Electronic commerce (or e-commerce) is the purchase or sale of goods or services over any kind of computer network. Possible networks include the Internet; an extranet, which is a private platform that uses Internet technology, or TCP/IP; and an electronic data interchange (EDI) network.

**What is the concept of e-commerce?** It refers to buying and selling of goods, products, or services over the internet. E-commerce as anytime commerce is the ability to buy and sell goods and services online at any time of day or night, from anywhere in the world.

**Is AP style e-commerce or ecommerce?** The Associated Press (AP) Stylebook, a trusted grammar reference, leans towards 'e-commerce', holding onto the hyphen as a symbol of its etymological roots: "AP uses hyphenated e- for generic terms such as e-commerce and e-strategies. One exception: email (no hyphen, which reflects majority of usage).

**Is it e-commerce or ecommerce?** "AP uses hyphenated e- for generic terms such as e-commerce and e-strategies... For company names, use their preference: eBay." This hyphenation theorem is backed up by leading dictionaries. Cambridge, Oxford, Collins, Merriam-Webster and Macmillan dictionaries all agree: e-commerce is the way to go.

**How does eCommerce work?** On your eCommerce website or ecommerce platform, when you make a purchase, the seller receives and confirms the order.

Once the confirmation is there, following that, the payment is processed, the sale is recorded, and the order is completed. Payment gateways are used to process payment transactions.

**Is Amazon e-commerce?** Amazon.com is an e-commerce platform that sells many product lines, including media (books, movies, music, and software), apparel, baby products, consumer electronics, beauty products, gourmet food, groceries, health and personal care products, industrial & scientific supplies, kitchen items, jewelry, watches, lawn and ...

**What is e-commerce in one word answer?** E-commerce, put simply, is the practice of buying and selling goods or services using the Internet.

**What is e-commerce in a nutshell?** Ecommerce or "electronic commerce" is the trading of goods and services online. The internet allows individuals and businesses to buy and sell an increasing amount of physical goods, digital goods, and services electronically.

**What is an example of e-commerce?** The standard definition of E-commerce is a commercial transaction which is happened over the internet. Online stores like Amazon, Flipkart, Shopify, Myntra, Ebay, Quikr, Olx are examples of E-commerce websites.

**Is e-commerce still a thing?** Driven by changes in technology and global circumstances, ecommerce is growing — and shows no sign of stopping. Global internet access and adoption is rapidly increasing, with over five billion internet users worldwide.

**Is Netflix considered e-commerce?** Ratings agency ForeSee has named Netflix the number one e-commerce site in terms of customer satisfaction nine times in a row (placing it ahead of Apple and Amazon, among others).

**Is e-commerce different from online shopping?** E-Commerce: Encompasses a broader range of online business activities, including marketing, payment processing, inventory management, and more. Online Shopping: Focuses specifically on the transactional process of purchasing goods or services online.

**What is e-commerce in simple words?** E-commerce (electronic commerce) is the exchange of goods and services and the transmission of funds and data over the internet. E-commerce relies on technology and digital platforms, including websites, mobile apps and social media to make buying and selling possible.

**What is the short word for e-commerce?** 'E-commerce' itself is actually an abbreviation for 'Electronic Commerce'. Another abbreviation for commerce is COMM.

**What is the acronym for e-commerce?** E-comm can refer to: A common abbreviation for electronic commerce and a frequent choice for the name of many e-Commerce companies.

**Is eCommerce a legit way to make money?** According to a 2023 NYU Stern School of Business study, you can make around 42.78% in gross profit margins and 0.64% in net ecommerce profit margins from your online business. But bear in mind that these are ballpark figures. Your final profit will depend on the following: Kinds and prices of products you sell.

**Does eCommerce cost money?** How Much Does It Cost To Build An eCommerce Website? On average eCommerce website design & development prices range from \$10,000 to \$250,000 or more. The website cost will ultimately be driven by the complexity of the project, the platform you select (Shopify, WordPress, Magento, etc.)

**How does eCommerce pay?** Direct Debit: Customers can enter their bank account details, making this the equivalent of paying in cash or by check. Alternative Payments Methods: This includes wallets, like PayPal, Amazon Pay, Google Pay and Apple Pay, and buy-now-pay-later solutions, like Affirm, Afterpay, Klarna and Sezzle.

**How to start an eCommerce business with no money?**

**How much to start an eCommerce business?** An individual can start an eCommerce business for a small amount of \$500-\$1,000, but if you want to thrive in it with proper marketing and advertisement, then it will range from \$12,479-\$39,800. According to Shopify, the average profit margin can be around 10% for an

eCommerce business in the USA.

### **What do you need to start an eCommerce business?**

**What is e-commerce according to Philip Kotler?** According to Philip Kotler E-commerce can be defined as a general term for buying and selling process that is supported by electronic means. E-commerce, also known as E-business, a term applicable for all kinds of business, that are established electronically especially over the Internet.

**What is e-commerce according to authors pdf?** E-commerce is the activity of buying or selling of products on online services or over the Internet. Electronic commerce draws on technologies such as mobile commerce, electronic funds transfer, supply chain management, Internet marketing, online transaction processing, electronic.

**What is commerce according to authors?** Meaning and Classification of Commerce James Stephenson has defined commerce as " an organized system for the exchange of commodities and distribution of finished productions:" It signifies a process of exchange, which is the foundation of modern economic life.

**What is the definition of e-business by authors?** E-Business (electronic business) is any process that a business organization conducts over a computer-mediated network. Business organizations include any for-profit, governmental, or nonprofit entity. Their processes include production-, customer-, and internal- or management-focused business processes.

### **Understanding Business and Personal Law: Chapter 20 Q&A**

**1. What is the main difference between criminal and civil law? Answer:** Criminal law deals with offenses against society that are punishable by the government, while civil law addresses disputes between individuals or entities and typically involves compensation for damages.

**2. What are the elements necessary to prove negligence? Answer:** Negligence requires proof of: (a) a legal duty to act reasonably; (b) a breach of that duty; (c) causation between the breach and the injury or damage; and (d) actual damages.

**3. What is the difference between contributory negligence and comparative negligence? Answer:** Contributory negligence bars a plaintiff from recovery if they contributed in any way to their own injury, while comparative negligence allows recovery but reduces the amount of damages based on the plaintiff's comparative fault.

**4. What are the key elements of a bailment? Answer:** A bailment occurs when one party (the bailor) delivers possession of personal property to another party (the bailee) with the intent that the property be returned either on demand or at a later time. The bailee has a duty of care to protect the property.

**5. What is the statute of limitations? Answer:** A statute of limitations is a law that sets a maximum time period within which a legal action can be filed. After this period expires, the right to sue is extinguished. The specific time limit varies depending on the type of legal action and the jurisdiction.

**How does steel connect to concrete?** This is often done by setting threaded anchors into the concrete at the time of placement, then bolting the steel in place. The easiest way to install anchors after the fact is to set them in the concrete with epoxy. For lower loads, a whole range of expanding anchors are available.

**What is the ratio of steel to concrete?** As per thumb rule steel quantity required in the formation of RCC beam should be 2% of total volume of concrete. To calculate the steel quantity in beam as 2% of volume of concrete =  $0.02 \times 7850 \times 5.29 = 830$  kg.

**How to connect steel column to concrete footing?** Most columns are attached with a baseplate. The plate is commonly welded to the end of the column section and the plate is bolted to leveling plate and the foundation. The interface between the foundation and leveling plate is filled with a non shrink grout to ensure full bearing.

**What is a combination of steel and concrete columns?** Just like our composite beams, these composite columns are an optimum combination of structural steel, concrete and reinforcing steel. As well as having a load-bearing function, the concrete in composite columns protects the encased steel section against excessive

heat in case of fire.

**What is the best way to bond steel to concrete?** Sikadur® epoxy adhesives have been widely used since the 1960's to bond steel plates on concrete structures.

**What do you put between metal and concrete?** With strong adhesive properties, polyurethane sealants are commonly used to adjoin dissimilar materials such as metal trim to a concrete foundation. In roof applications where there is a risk of standing water, polyurethane sealants provide a long-lasting, watertight seal.

**What is the thumb rule for steel?** The Thumb rule to calculate steel in slabs is 3.5 kg to 4 kg/sq. ft of built-up area. On the whole, approximately 3500 kg to 4000 kg of steel is required to build a 1000 square feet structure. This is one of the most basic important information that one must be aware of before building his/her own dream house.

**What is the coefficient of concrete to steel?** The friction coefficient between concrete and steel ranges between 0.29 to 0.6, as stated by Guo et al.

**Does steel make concrete stronger?** Notable for its high tensile strength, flexibility, and corrosion resistance, adding steel in concrete can make structures sturdier and more durable.

**What is the joint between steel and concrete?** The Embed Beam Seat joint can be used between any types of concrete elements (wall, slab, column, foundation and beam) and some of the steel sections (I, T, C, L, Hollow rectangular/square, welded, compound or tapered sections).

**How do you anchor metal to concrete?**

**What is the connection between a steel column and a concrete slab?** The steel column is connected to a base plate, which is attached to the concrete foundation by some form of so-called “holding down” assembly. A typical detail is shown in Figure 1. The system of column, base plate and holding down assembly is known as a column base.

**What is concrete with steel called?** reinforced concrete, concrete in which steel is embedded in such a manner that the two materials act together in resisting forces.



The reinforcing steel—rods, bars, or mesh—absorbs the tensile, shear, and sometimes the compressive stresses in a concrete structure.

**What are the connections between steel and concrete?** The connections between the steel and concrete sections are mostly done using welding, given the durability and strength of welding. For the current study, the shear connectors, connecting the concrete slabs and steel beam, are welded to the flanges of the beam.

**What is the strongest steel column?** With a yield strength of 100,000 psi, A514 structural steel is one of the strongest of its kind.

**What is the bonding agent for concrete to steel?** Epoxy Bonding Agents Epoxy based, multipurpose, bonding agents for use on concrete, steel and other substrates.

**What is the adhesive between concrete and steel?** Loctite Epoxy Metal/Concrete is a two-part system consisting of an epoxy resin and a hardener. The convenient syringe dispenses equal amounts of each component every time. When mixed in equal volumes, resin and hardener react to produce a tough, rigid, high strength bond in 5 to 12 minutes.

**How do you keep concrete from sticking to steel?** A mould release agent is applied to moulds, forms and cores made of metal, plastic, rubber or fiberglass to ensure that the concrete does not stick to the formwork. The non-stick properties of release agents keep the concrete from bonding with the formwork allowing it to be removed easily.

**What is the best way to attach metal to concrete?** The best epoxy for metal is Loctite Epoxy Metal/Concrete, a two-part system consisting of an epoxy resin and a hardener. The resin and hardener are combined to create a durable, high-strength bond that dries in minutes and can be used for repairing, filling, and rebuilding all metal and concrete surfaces.

**How do you fill the gap between concrete and steel?** The sealing structure is provided with the steel plate, a concrete plate is arranged on the steel plate, a transparent sealing strip with the L-shaped section is bonded on the side surface of the edge of the steel plate, the top end of the sealing strip is bonded with the

concrete plate, and a cavity the area of which ...

**What does adding steel to concrete do?** In concrete construction, steel reinforcement enhances the tensile strength of plain concrete. While concrete resists compressive forces, it lacks tensile strength, leading to susceptibility to cracking and failure. By introducing steel reinforcement, the two materials work together, compensating for weaknesses.

**Can steel and concrete be used together?** Adding steel in concrete is common, as they play distinct yet complementary roles in construction. Each possesses unique properties contributing to structures' overall strength, stability, and durability. Thus, you must understand their parts to create safe, long-lasting buildings and infrastructure.

**What is the bond between concrete and steel?** The bond strength between reinforcement and concrete comes mainly from friction and adhesion and is affected both by the properties of steel as those of concrete and the relative movement due to volume changes, such as concrete shrinkage.

**What is the joint between steel and concrete?** The Embed Beam Seat joint can be used between any types of concrete elements (wall, slab, column, foundation and beam) and some of the steel sections (I, T, C, L, Hollow rectangular/square, welded, compound or tapered sections).

**Can steel be in contact with concrete?** Nickel-plated steel will not corrode when embedded in chloride-free concrete and will provide protection to steel as long as no breaks or pinholes are present in the coating. The coating should be 3 to 5 mils thick to resist rough handling.

[e commerce by david whiteley, understanding business and personal law chapter 20, design of steel to concrete joints design manual ii](#)

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