

National University of Engineering (UNI)
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Book of Bibliography by course

– 2026-I –

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Contents

1	First Semester	1
1.1	MA100. Basic Mathematics	1
1.2	MA111. Calculus I	1
1.3	BCH101. Chemistry I	1
1.4	BME101. Learning Methodology Workshop	2
1.5	BRC101. Writing and Communication	2
1.6	BIC101. Introduction to Programming	2
1.7	BMA102. Differential Calculus	3
1.8	BEC101. General Economics	3
2	Second Semester	5
2.1	CE1G1. General Geology	5
2.2	CS100. Introduction to Computer Science	5
2.3	AI161. Applied AI	5
2.4	CB1E1. Technical Drawing & CAD	7
2.5	MA112. Calculus II	7
2.6	BFI101. General Physics	7
2.7	ID101. Technical and professional English I	7
2.8	BEF201. Ethics and Political Philosophy	8
3	Third Semester	9
3.1	CB1E2. Engineering Drawing II	9
3.2	MA121. Linear Algebra I	9
3.3	MA210. Calculus III	9
3.4	BFI102. Physics II	10
3.5	ID102. Technical and professional English II	10
3.6	CE1M1. Statics	10
4	Fourth Semester	11
4.1	MA202. Numerical Methods	11
4.2	MA211. Calculus IV	11
4.3	STA251. Statistics and Probability	12
4.4	ID201. Technical and professional English III	12
4.5	CE1M2. Dynamics	12
4.6	CE2M1. Mechanics of Materials I	12
4.7	CE3M1. Concrete Technology	12

5	Fifth Semester	13
5.1	ID202. Technical and professional English IV	13
5.2	CE2M2. Mechanics of Materials II	13
6	Sixth Semester	15
6.1	MA212. Ordinary Differential Equations	15
6.2	ID203. Technical and professional English V	15
7	Seventh Semester	17
7.1	CE2C1. Materials Technology	17
7.2	CE2C2. Construction Technology I	17
7.3	CE2C6. Territorial Planning I	17
7.4	CE2C8. Business Management in Construction I	18
7.5	CE2G1. Soil Mechanics I	18
7.6	CE2H1. Fluid Mechanics I	18
7.7	CE2S1. Structural Analysis I	19
7.8	CE2S2. Reinforced Concrete Design I	19
7.9	CE2S3. Steel Design	19
8	Eighth Semester	21
8.1	CE2C3. Concrete Technology I	21
8.2	CE2C5. Construction Project Management I	21
8.3	CE2C7. Business Organization and Management	21
8.4	CE2G2. Soil Mechanics II	22
8.5	CE3C2. Construction Technology II	22
8.6	CE3C5. Construction Project Management II	23
8.7	CE3H1. Fluid Mechanics II	23
8.8	CE3S1. Structural Analysis II	23
8.9	CE3S5. Bridges and Structures	23
8.10	CE3S9. Prestressed Concrete	24
8.11	BMI201. Methodology of Engineering Research	24
9	Ninth Semester	25
9.1	CE3C15. Professional Competencies Workshop	25
9.2	CE3C9. Integrated Construction Management	26
9.3	CE3G3. Applied Geology	26
9.4	CE3G4. Soil Mechanics Applied to Transportation Roads	27
9.5	CE3G5. Finite Elements Applied to Geotechnical Engineering	27
9.6	CE3G6. Earth Dams	27
9.7	CE3H2. General Hydrology	28
9.8	CE3H3. Water Supply and Sewerage	28
9.9	CE3H4. Water Resources	29
9.10	CE3S11. Professional Competency Workshop - Structures	30
9.11	CE3S4. Earthquake-Resistant Engineering and Disaster Prevention	30
9.12	CE3S8. Architecture and Structural Models	31
9.13	CE402. Capstone project I	31
9.14	BLW201. Law and Legislation	32

10 Tenth Semester	33
10.1 CE3C11. Sanitary and Electrical Installations	33
10.2 CE3G1. Soil Dynamics	33
10.3 CE3G2. Soil Mechanics Applied to Foundations	33
10.4 CE3G7. Professional Competencies Workshop - Geotechnical . .	34
10.5 CE3H5. Introduction to Fluvial Hydraulics	34
10.6 CE3H6. Irrigation Engineering	35
10.7 CE3H7. Hydraulic and Hydrology Engineering Workshop	35
10.8 CE3S10. Seismic Design of Civil Engineering Works	35
10.9 CE3S12. Research Workshop	36
10.10CE3S2. Reinforced Concrete Design II	36
10.11CE3S6. Masonry, Adobe, and Timber	37
10.12CE3S7. Structural Rehabilitation and Retrofitting	37
10.13CE403. Capstone project II	38
10.14CE3C12. Costs and Budgeting (Elective)	38
10.15CE3C13. Project Planning and Control (Elective)	39
10.16CE3C14. Sustainable and Resilient Infrastructure	39

Chapter 1

First Semester

1.1 MA100. Basic Mathematics

[Gentile, 1984] Gentile, E. (1984). *Notas de álgebra*. Editorial Universitaria de Buenos Aires.

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1.2 MA111. Calculus I

[Larson and Edwards, 2018] Larson, R. and Edwards, B. H. (2018). *Cálculo*. Cengage Learning, 10th edition.

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[Brown et al., 2017] Brown, T. L., Jr., H. E. L., Bursten, B. E., Murphy, C. J., and Woodward, P. M. (2017). *Chemistry: The Central Science*. Pearson.

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- [Mamlouk and Zaniewski, 2017] Mamlouk, M. S. and Zaniewski, J. P. (2017). *Materials for Civil and Construction Engineers*. Pearson, 4th edition.

1.4 BME101. Learning Methodology Workshop

- [Booth et al., 2016] Booth, W. C., Colomb, G. G., Williams, J. M., Bizup, J., and FitzGerald, W. T. (2016). *The Craft of Research*. University of Chicago Press, 4th edition.
- [Burnett and Evans, 2016] Burnett, B. and Evans, D. (2016). *Designing Your Life: How to Build a Well-Lived, Joyful Life*. Alfred A. Knopf.
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- [Robbins and Coulter, 2017] Robbins, S. P. and Coulter, M. (2017). *Management*. Pearson, 14th edition.
- [Russell and Norvig, 2020] Russell, S. and Norvig, P. (2020). *Artificial Intelligence: A Modern Approach*. Pearson, 4th edition.

1.5 BRC101. Writing and Communication

- [American Psychological Association, 2020] American Psychological Association (2020). *Publication Manual of the American Psychological Association*. American Psychological Association, 7th edition.
- [Gurak and Lannon, 2013] Gurak, L. J. and Lannon, J. M. (2013). *A Concise Guide to Technical Communication*. Pearson, 4th edition.

1.6 BIC101. Introduction to Programming

- [Brookshear and Brylow, 2019] Brookshear, J. G. and Brylow, D. (2019). *Computer Science: An Overview*. Pearson, global edition edition.
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1.7 BMA102. Differential Calculus

- [Larson and Edwards, 2014] Larson, R. and Edwards, B. H. (2014). *Calculus*. Cengage Learning.
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1.8 BEC101. General Economics

- [Blank and Tarquin, 2017] Blank, L. and Tarquin, A. (2017). *Engineering Economy*. McGraw-Hill, 8th edition.
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Second Semester

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[Billings, 1972] Billings, M. P. (1972). *Structural Geology*. Prentice-Hall, 3rd edition.

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2.2 CS100. Introduction to Computer Science

[Brookshear and Brylow, 2019] Brookshear, J. G. and Brylow, D. (2019). *Computer Science: An Overview*. Pearson, global edition edition.

2.3 AI161. Applied AI

[Bender et al., 2021] Bender, E. M., Gebru, T., McMillan-Major, A., and Shmitchell, S. (2021). On the dangers of stochastic parrots: Can language models be too big? In *Proceedings of the 2021 ACM Conference on Fairness, Accountability, and Transparency (FAccT '21)*, pages 610–623. Association for Computing Machinery. Foundational paper on AI ethics with ongoing relevance.

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- [Tencent AI Lab, 2023] Tencent AI Lab (2023). Responsible ai practices in the chinese technology industry. Technical report, Tencent AI Lab. Industrial perspective on AI ethics from a leading Chinese technology company.
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2.4 CB1E1. Technical Drawing & CAD

- [Jensen et al., 2007] Jensen, C., Helsel, J., and Short, D. (2007). *Engineering Drawing and Design*. McGraw-Hill, 7th edition.
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- [Omura and Benton, 2021] Omura, G. and Benton, B. (2021). *Mastering AutoCAD 2021 and AutoCAD LT 2021*. Sybex, 1st edition.

2.5 MA112. Calculus II

- [Larson and Edwards, 2018] Larson, R. and Edwards, B. H. (2018). *Cálculo*. Cengage Learning, 10th edition.
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2.6 BFI101. General Physics

- [Kleppner and Kolenkow, 2013] Kleppner, D. and Kolenkow, R. J. (2013). *An Introduction to Mechanics*. Cambridge University Press, 2nd edition.
- [Serway and Jewett, 2018] Serway, R. A. and Jewett, J. W. (2018). *Physics for Scientists and Engineers with Modern Physics*. Cengage Learning, 10th edition.
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- [Cambridge, 2006] Cambridge (2006). *Diccionario Inglés-Español Cambridge*. Editorial Oxford.
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- [Soars and John, 2002d] Soars, L. and John (2002d). *American Headway N 2 Student Book*. Editorial Oxford.

2.8 BEF201. Ethics and Political Philosophy

- [Fleddermann, 2020] Fleddermann, C. B. (2020). *Engineering Ethics*. Pearson, 5th edition.
- [Harris et al., 2013] Harris, C. E., Pritchard, M. S., and Rabins, M. J. (2013). *Engineering Ethics: Concepts and Cases*. Cengage Learning, 5th edition.
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Chapter 3

Third Semester

3.1 CB1E2. Engineering Drawing II

[Eastman et al., 2018] Eastman, C., Teicholz, P., Sacks, R., and Liston, K. (2018). *BIM Handbook: A Guide to Building Information Modeling for Owners, Designers, Engineers, Contractors, and Facility Managers*. Wiley, 3rd edition.

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[Anton and Rorres, 2014] Anton, H. and Rorres, C. (2014). *Álgebra Lineal con Aplicaciones*. Limusa Wiley, 11th edition.

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[Apostol, 1969] Apostol, T. M. (1969). *Calculus, Volume II: Multi-Variable Calculus and Linear Algebra*. Wiley, 2nd edition.

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3.4 BFI102. Physics II

- [French, 1971] French, A. P. (1971). *Vibrations and Waves*. W. W. Norton & Company.
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- [Cambridge, 2006] Cambridge (2006). *Diccionario Inglés-Español Cambridge*. Editorial Oxford.
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3.6 CE1M1. Statics

- [Hibbeler, 2016] Hibbeler, R. (2016). *Engineering Mechanics: Statics*. Pearson, 14th edition.
- [Meriam and Kraige, 2014] Meriam, J. and Kraige, L. (2014). *Engineering Mechanics: Statics*. Wiley, 8th edition.

Chapter 4

Fourth Semester

4.1 MA202. Numerical Methods

- [Burden and Faires, 2010] Burden, R. L. and Faires, J. D. (2010). *Numerical Analysis*. Cengage Learning.
- [Chapra and Canale, 2015] Chapra, S. C. and Canale, R. P. (2015). *Numerical Methods for Engineers*. McGraw-Hill Education.
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4.2 MA211. Calculus IV

- [Bender and Orszag, 1999] Bender, C. M. and Orszag, S. A. (1999). *Advanced Mathematical Methods for Scientists and Engineers I: Asymptotic Methods and Perturbation Theory*. Springer.
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[Strauss, 2008] Strauss, W. A. (2008). *Partial Differential Equations: An Introduction*. Wiley, 2nd edition.

4.3 STA251. Statistics and Probability

[Devore, 2016] Devore, J. L. (2016). *Probability and Statistics for Engineering and the Sciences*. Cengage Learning.

[Ross, 2014] Ross, S. M. (2014). *A First Course in Probability*. Pearson.

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[Cambridge, 2006] Cambridge (2006). *Diccionario Inglés-Español Cambridge*. Editorial Oxford.

[MacGrew, 1999] MacGrew, J. (1999). *Focus on Grammar Basic*. Editorial Oxford.

[Soars and John, 2002d] Soars, L. and John (2002d). *American Headway N 2 Student Book*. Editorial Oxford.

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[Bedford and Fowler, 2008] Bedford, A. and Fowler, W. (2008). *Engineering Mechanics: Dynamics*. Prentice Hall, 5th edition.

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4.6 CE2M1. Mechanics of Materials I

[Gere and Goodno, 2017] Gere, J. and Goodno, B. (2017). *Mechanics of Materials*. Cengage Learning, 9th edition.

[Hibbeler, 2017] Hibbeler, R. (2017). *Mechanics of Materials*. Pearson, 10th edition.

4.7 CE3M1. Concrete Technology

[Kosmatka and Wilson, 2016] Kosmatka, S. and Wilson, M. (2016). *Design and Control of Concrete Mixtures*. Portland Cement Association (PCA), 16th edition.

[López, 2000] López, E. R. (2000). *Naturaleza y Materiales del Concreto*. Capítulo Peruano del American Concrete Institute, 1st edition.

[Neville, 2011] Neville, A. (2011). *Properties of Concrete*. Pearson Education, 5th edition.

Chapter 5

Fifth Semester

5.1 ID202. Technical and professional English IV

[Cambridge, 2006] Cambridge (2006). *Diccionario Inglés-Español Cambridge*. Editorial Oxford.

[MacGrew, 1999] MacGrew, J. (1999). *Focus on Grammar Basic*. Editorial Oxford.

[Soars and John, 2002d] Soars, L. and John (2002d). *American Headway N 2 Student Book*. Editorial Oxford.

5.2 CE2M2. Mechanics of Materials II

[Gere and Goodno, 2017] Gere, J. and Goodno, B. (2017). *Mechanics of Materials*. Cengage Learning, 9th edition.

[Hibbeler, 2017] Hibbeler, R. (2017). *Mechanics of Materials*. Pearson, 10th edition.

Chapter 6

Sixth Semester

6.1 MA212. Ordinary Differential Equations

[Boyce et al., 2017] Boyce, W. E., DiPrima, R. C., and Meade, D. B. (2017). *Ecuaciones Diferenciales y Problemas con Valores en la Frontera*. Limusa Wiley, 11th edition.

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6.2 ID203. Technical and professional English V

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Chapter 10

Tenth Semester

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