JEL classification codes

Articles in economics journals are usually classified according to the JEL classification codes, a system originated by the Journal of Economic Literature. The JEL is published quarterly by the American Economic Association (AEA) and contains survey articles and information on recently published books and dissertations. The AEA maintains EconLit, a searchable data base of citations for articles, books, reviews, dissertations, and working papers classified by JEL codes for the years from 1969. A recent addition to EconLit is indexing of economics-journal articles from 1886 to 1968[1] parallel to the print series Index of Economic Articles.[2]

There are 19 primary JEL categories:

• JEL: A - General Economics and Teaching
• JEL: B - History of Economic Thought, Methodology, and Heterodox Approaches
• JEL: C - Mathematical and Quantitative Methods
• JEL: D - Microeconomics
• JEL: E - Macroeconomics and Monetary Economics
• JEL: F - International Economics
• JEL: G - Financial Economics
• JEL: H - Public Economics
• JEL: I - Health, Education, and Welfare
• JEL: J - Labor and Demographic Economics
• JEL: K - Law and Economics
• JEL: L - Industrial Organization
• JEL: M - Business Administration and Business Economics; Marketing; Accounting
• JEL: N - Economic History
• JEL: O - Economic Development, Technological Change, and Growth
• JEL: P - Economic Systems
• JEL: Q - Agricultural and Natural Resource Economics; Environmental and Ecological Economics
• JEL: R - Urban, Rural, and Regional Economics
• JEL: Y - Miscellaneous Categories
• JEL: Z - Other Special Topics.

Each JEL primary category has secondary and tertiary subcategories, for example, under JEL: D - Microeconomics:

JEL: D1 - Household Behavior and Family Economics
   JEL: D11 - Consumer Economics: Theory.[3]

JEL code (sub)categories, including periodic updates, are referenced at Journal of Economic Literature (JEL) Classification System[4]. Definitions of (sub)categories are at JEL Classification Codes Guide[5] with corresponding examples of article titles linked to publication information, such as abstracts.

Articles in economics journals also list JEL codes (for example JEL: B12), facilitating their use across search engines. Comprehensive uses of JEL (sub)classifications include:

Research Papers in Economics via links[8].
### General economics and teaching JEL: A Subcategories

**Category:** General economics  
**JEL: A1 - General Economics**  
- JEL: A10 - General  
- JEL: A11 - Role of Economics; Role of Economists; Market for Economists  
- JEL: A12 - Relation of Economics to Other Disciplines  
- JEL: A13 - Relation of Economics to Social Values  
- JEL: A14 - Sociology of Economics  
- JEL: A19 - Other  
**JEL: A2 - Economic Education and Teaching of Economics**  
- JEL: A20 - General  
- JEL: A21 - Pre-college  
- JEL: A22 - Undergraduate  
- JEL: A23 - Graduate  
- JEL: A29 - Other  
**JEL: A3 - Collective Works**  
- JEL: A30 - General  
- JEL: A31 - Collected Writings of Individuals  
- JEL: A32 - Volumes  
- JEL: A33 - Handbooks  
- JEL: A39 - Other  

### History of economic thought, methodology, and heterodox approaches JEL: B Subcategories

**Category:** History of economic thought, methodology, and heterodox approaches  
**JEL: B0 - General**  
- JEL: B00 - General  
**JEL: B1 - History of Economic Thought through 1925**  
- JEL: B10 - General  
- JEL: B11 - Preclassical  
- JEL: B12 - Classical  
- JEL: B13 - Neoclassical through 1925  
- JEL: B14 - Socialist; Marxist  
- JEL: B15 - Historical; Institutional  
- JEL: B16 - History of Economic Thought: Quantitative and Mathematical  
- JEL: B19 - Other  
**JEL: B2 - History of Economic Thought since 1925**  
- JEL: B20 - General  
- JEL: B21 - Microeconomics
JEL classification codes

JEL: B22 - Macroeconomics
JEL: B23 - History of Economic Thought: Econometrics; Quantitative & Mathematical Studies
JEL: B24 - Socialist; Marxist; Sraffian
JEL: B25 - Historical; Institutional; Evolutionary; Austrian
JEL: B29 - Other

JEL: B3 - History of Thought: Individuals
JEL: B30 - General
JEL: B31 - Individuals
JEL: B32 - Obituaries

JEL: B4 - Economic methodology
JEL: B40 - General
JEL: B41 - Economic methodology
JEL: B49 - Other

JEL: B5 - Current Heterodox Approaches
JEL: B50 - General
JEL: B51 - Socialist; Marxian; Sraffian
JEL: B52 - Institutional; Evolutionary
JEL: B53 - Austrian
JEL: B54 - Feminist Economics
JEL: B59 - Other

Mathematical and quantitative methods JEL: C Subcategories

Category: Mathematical and quantitative methods (economics)
JEL: C0 - General
JEL: C00 - General
JEL: C01 - Econometrics
JEL: C02 - Mathematical Methods

JEL: C1 - Econometric and Statistical Methods: General
JEL: C10 - General
JEL: C11 - Bayesian analysis
JEL: C12 - Hypothesis testing
JEL: C13 - Estimation
JEL: C14 - Semiparametric and nonparametric methods
JEL: C15 - Statistical Simulation methods
JEL: C16 - Statistical distributions
JEL: C16 - Specific Distributions
JEL: C19 - Other

JEL: C2 - Econometric methods: Single equation models; Single variables
JEL: C20 - General
JEL: C21 - Cross-Sectional Models; Spatial models; Treatment effect models
<table>
<thead>
<tr>
<th>JEL: C22 - Time-Series Models</th>
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<td>JEL: C23 - Panel data</td>
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<td>JEL: C24 - Truncated and censored models</td>
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<tr>
<td>JEL: C25 - Discrete regression; Qualitative choice models</td>
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<td>JEL: C29 - Other</td>
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**JEL: C3 - Econometric Methods: Multiple or Simultaneous Equation Models**
- JEL: C30 - General
- JEL: C31 - Cross-Sectional Models; Spatial Models; Treatment effect models
- JEL: C32 - Time-Series Models
- JEL: C33 - Models with Panel data
- JEL: C34 - Truncated and censored models
- JEL: C35 - Discrete regression and Qualitative choice models
- JEL: C39 - Other

**JEL: C4 - Econometric and Statistical Methods: Special Topics**
- JEL: C40 - General
- JEL: C41 - Duration analysis
- JEL: C42 - Survey methods
- JEL: C43 - Index numbers and Aggregation
- JEL: C44 - Statistical decision theory; Operations research
- JEL: C45 - Neural Networks and Related Topics
- JEL: C46 - Specific Distributions
- JEL: C49 - Other

**JEL: C5 - Econometric Modeling**
- JEL: C50 - General
- JEL: C51 - Model construction and estimation
- JEL: C52 - Model evaluation and testing
- JEL: C53 - Forecasting and Other Model Applications
- JEL: C59 - Other

**JEL: C6 - Mathematical Methods; Programming Models; Mathematical and Simulation Modeling**
- JEL: C60 - General
- JEL: C61 - Optimization techniques; Programming models; Dynamic analysis
- JEL: C62 - Existence and stability conditions of equilibrium
- JEL: C63 - Computational techniques; Simulation modeling
- JEL: C65 - Miscellaneous Mathematical Tools
- JEL: C67 - Input–output models
- JEL: C68 - Computable General Equilibrium models
- JEL: C69 - Other

**JEL: C7 - Game theory and Bargaining theory**
- JEL: C70 - General
### JEL classification codes

**JEL: C71** - Cooperative games  
**JEL: C72** - Noncooperative games  
**JEL: C73** - Stochastic and Dynamic games; Evolutionary games; Repeated Games  
**JEL: C78** - Bargaining theory; Matching theory  
**JEL: C79** - Other  

**JEL: C8** - Data Collection and Data Estimation Methodology; Computer Programs  
**JEL: C80** - General  
**JEL: C81** - Methodology for collecting, estimating, and organizing microeconomic data  
**JEL: C82** - Methodology for collecting, estimating, and organizing macroeconomic data  
**JEL: C87** - Econometric software  
**JEL: C88** - Other Computer Software  
**JEL: C89** - Other  

**JEL: C9** - Design of experiments  
**JEL: C90** - General  
**JEL: C91** - Laboratory, Individual Behavior  
**JEL: C92** - Laboratory, Group Behavior  
**JEL: C93** - Field experiments  
**JEL: C99** - Other  

### Microeconomics JEL: D Subcategories

**Category:Microeconomics**  
**JEL: D0** - General  
**JEL: D00** - General  
**JEL: D01** - Microeconomic Behavior: Underlying Principles  
**JEL: D02** - Institutions: Design, Formation, and Operations  
**JEL: D03** - Behavioral Economics; Underlying Principles  

**JEL: D1** - Household Behavior and Family Economics  
**JEL: D10** - General  
**JEL: D11** - Consumer Economics: Theory  
**JEL: D12** - Consumer economics: empirical analysis  
**JEL: D13** - Household production and Intrahousehold allocation  
**JEL: D14** - Personal finance  
**JEL: D18** - Consumer protection  
**JEL: D19** - Other  

**JEL: D2** - Production and Organizations  
**JEL: D20** - General  
**JEL: D21** - Firm behavior  
**JEL: D23** - Organizational behavior; Transaction Costs; Property rights  
**JEL: D24** - Production; Capital and Total factor productivity; Capacity  
**JEL: D29** - Other
JEL: D3 - Distribution
   JEL: D30 - General
   JEL: D31 - Personal Income, Wealth, and Their Distributions
   JEL: D33 - Factor Income Distribution
   JEL: D39 - Other

JEL: D4 - Market structure and pricing
   JEL: D40 - General
   JEL: D41 - Perfect competition
   JEL: D42 - Monopoly
   JEL: D43 - Oligopoly and Other Forms of Market Imperfection
   JEL: D44 - Auctions
   JEL: D45 - Rationing; Licensing
   JEL: D46 - Value Theory
   JEL: D49 - Other

JEL: D5 - General equilibrium and Disequilibrium
   JEL: D50 - General
   JEL: D51 - Exchange and Production Economies
   JEL: D52 - Incomplete Markets
   JEL: D57 - Input–Output Tables and Analysis
   JEL: D58 - Computable and Other Applied General Equilibrium Models
   JEL: D59 - Other

JEL: D6 - Welfare economics
   JEL: D60 - General
   JEL: D61 - Allocative efficiency; Cost-benefit analysis
   JEL: D62 - Externalities
   JEL: D63 - Equity, Justice, Inequality, and Other Normative Criteria and Measurement
   JEL: D64 - Altruism
   JEL: D69 - Other

JEL: D7 - Analysis of Collective Decision-Making
   JEL: D70 - General
   JEL: D71 - Social choice; Clubs; Committees; Associations
   JEL: D72 - Economic Models of Political Processes: Rent-Seeking, Elections, Legislatures, and Voting Behavior
   JEL: D73 - Bureaucracy; Administrative Processes in Public Organizations; Corruption
   JEL: D74 - Conflict; Conflict Resolution; Alliances
   JEL: D78 - Positive Analysis of Policy-Making and Implementation
   JEL: D79 - Other

JEL: D8 - Information, Knowledge, and Uncertainty
   JEL: D80 - General
   JEL: D81 - Criteria for Decision-Making under Risk and Uncertainty
JEL classification codes

| JEL: D82 - Asymmetric and Private Information |
| JEL: D83 - Search; Learning; Information and Knowledge |
| JEL: D84 - Expectations; Speculation |
| JEL: D85 - Network Formation and Analysis: Theory |
| JEL: D86 - Economics of Contract: Theory |
| JEL: D87 - Neuroeconomics |
| JEL: D89 - Other |
| JEL: D9 - Intertemporal choice and Growth |
| JEL: D90 - General |
| JEL: D91 - Intertemporal Consumer Choice; Life cycle models and Saving |
| JEL: D92 - Intertemporal Firm Choice and Growth, Investment, or Financing |
| JEL: D99 - Other |

Macroeconomics and monetary economics JEL: E Subcategories

| JEL: E - Macroeconomics and Monetary Economics |
| Category: Macroeconomics and monetary economics |
| JEL: E0 - General |
| JEL: E00 - General |
| JEL: E01 - Measurement and Data on National Income and Product Accounts and Wealth |
| JEL: E02 - Institutions and the Macroeconomy |
| JEL: E1 - General Aggregative Models |
| JEL: E10 - General |
| JEL: E11 - Marxian; Sraffian; Institutional; Evolutionary |
| JEL: E12 - Keynes; Keynesian; Post-Keynesian |
| JEL: E13 - Neoclassical |
| JEL: E17 - Forecasting and Simulation |
| JEL: E19 - Other |
| JEL: E2 - Macroeconomics: Consumption, Saving, Production, Employment, and Investment |
| JEL: E20 - General |
| JEL: E21 - Consumption; Saving; Wealth |
| JEL: E22 - Capital; Investment (including Inventories); Capacity |
| JEL: E23 - Production |
| JEL: E24 - Employment; Unemployment; Wages; Intergenerational Income Distribution; Aggregate Human Capital |
| JEL: E25 - Aggregate Factor Income Distribution |
| JEL: E26 - Informal economy; Underground Economy |
| JEL: E27 - Forecasting and Simulation |
| JEL: E29 - Other |
| JEL: E3 - Prices, Business Fluctuations, and Cycles |
| JEL: E30 - General |
JEL classification codes

JEL: E31 - Price Level; Inflation; Deflation
JEL: E32 - Business Fluctuations; Cycles
JEL: E37 - Forecasting and Simulation
JEL: E39 - Other

JEL: E4 - Money and Interest Rates
JEL: E40 - General
JEL: E41 - Demand for Money
JEL: E42 - Monetary Systems; Standards; Regimes; Government and the Monetary System; Payment Systems
JEL: E43 - Determination of Interest Rates; Term Structure of Interest Rates
JEL: E44 - Financial Markets and the Macroeconomy
JEL: E47 - Forecasting and Simulation
JEL: E49 - Other

JEL: E5 - Monetary Policy, Central Banking, and the Supply of Money and Credit
JEL: E50 - General
JEL: E51 - Money Supply; Credit; Money multipliers
JEL: E52 - Monetary Policy
JEL: E58 - Central Banks and Their Policies
JEL: E59 - Other

JEL: E6 - Macroeconomic Policy Formation, Macroeconomic Aspects of Public Finance, Macroeconomic Policy, and General Outlook
JEL: E60 - General
JEL: E61 - Policy Objectives; Policy Designs and Consistency; Policy Coordination
JEL: E62 - Fiscal Policy; Public Expenditures, Investment, and Finance; Taxation
JEL: E63 - Comparative or Joint Analysis of Fiscal and Monetary Policy; Stabilization
JEL: E64 - Incomes policy; Price policy
JEL: E65 - Studies of Particular Policy Episodes
JEL: E66 - General Outlook and Conditions
JEL: E69 - Other

International economics JEL: F Subcategories

JEL: F - International Economics
Category:International economics

JEL: F0 - General
JEL: F00 - General
JEL: F01 - Global Outlook
JEL: F02 - International Economic Order; Noneconomic International Organizations •Economic Integration and Globalization: General

JEL: F1 - Trade
JEL: F10 - General
JEL: F11 - Neoclassical Models of Trade
JEL: F12 - Models of Trade with Imperfect Competition and Scale Economies
JEL: F13 - Commercial Policy; Protection; Promotion; Trade Negotiations; International Organizations
JEL: F14 - Country and Industry Studies of Trade
JEL: F15 - Economic Integration
JEL: F16 - Trade and Labor Market Interactions
JEL: F17 - Trade Forecasting and Simulation
JEL: F18 - Trade and Environment
JEL: F19 - Other

JEL: F2 - International Factor Movements and International Business
JEL: F20 - General
JEL: F21 - International Investment; Long-Term Capital Movements
JEL: F22 - International Migration
JEL: F23 - Multinational Firms; International Business
JEL: F24 - Remittances
JEL: F29 - Other

JEL: F3 - International Finance
JEL: F30 - General
JEL: F31 - Foreign Exchange
JEL: F32 - Current Account Adjustment; Short-Term Capital Movements
JEL: F33 - International Monetary Arrangements and Institutions
JEL: F34 - International Lending and Debt Problems
JEL: F35 - Foreign aid
JEL: F36 - Financial Aspects of Economic Integration
JEL: F37 - International Finance Forecasting and Simulation
JEL: F39 - Other

JEL: F4 - Macroeconomic Aspects of International Trade and Finance
JEL: F40 - General
JEL: F41 - Open economy macroeconomics
JEL: F42 - International Policy Coordination and Transmission
JEL: F43 - Economic Growth of Open Economies
JEL: F47 - Forecasting and Simulation
JEL: F49 - Other

JEL: F5 - International Relations and International Political Economy
JEL: F50 - General
JEL: F51 - International Conflicts; Negotiations; Sanctions
JEL: F52 - National Security; Economic Nationalism
JEL: F53 - International Agreements and Observance; International Organizations
JEL: F54 - Colonialism; Imperialism; Postcolonialism
JEL: F55 - International Institutional Arrangements
JEL: F59 - International Relations and International Political Economy: Other

**Financial economics JEL: G Subcategories**

JEL: G - Financial Economics
Category: Financial economics
JEL: G0 - General
  JEL: G00 - General
  JEL: G01 - Financial Crises
JEL: G1 - General Financial Markets
  JEL: G10 - General
  JEL: G11 - Portfolio choice; Investment decisions
  JEL: G12 - Asset pricing; Trading volume; Bond interest rates
  JEL: G13 - Contingent pricing; Futures Pricing
  JEL: G14 - Information and Market Efficiency; Event Studies
  JEL: G15 - International financial markets
  JEL: G17 - Financial Forecasting
  JEL: G18 - Government Policy and Regulation
  JEL: G19 - Other
JEL: G2 - Financial Institutions and Services
  JEL: G20 - General
  JEL: G21 - Banks; Other Depository Institutions; Micro Finance Institutions; Mortgages
  JEL: G22 - Insurance; Insurance companies
  JEL: G23 - Pension funds; Other Private Financial Institutions
  JEL: G24 - Investment banking; Venture capital; Brokerage; Ratings and Ratings Agencies
  JEL: G28 - Government Policy and Regulation
  JEL: G29 - Other
JEL: G3 - Corporate Finance and Governance
  JEL: G30 - General
  JEL: G31 - Capital budgeting; Fixed Investment and Inventory Studies
  JEL: G32 - Financing Policy; Financial Risk and Risk Management; Capital and Ownership Structure
  JEL: G33 - Bankruptcy; Liquidation
  JEL: G34 - Mergers; Acquisitions; Restructuring; Corporate governance
  JEL: G35 - Payout Policy
  JEL: G38 - Government Policy and Regulation
  JEL: G39 - Other
Public economics JEL: H Subcategories

JEL: H - Public Economics
Category: Public economics

JEL: H0 - General
  JEL: H00 - General

JEL: H1 - Structure and Scope of Government
  JEL: H10 - General
  JEL: H11 - Structure, Scope, and Performance of Government
  JEL: H19 - Other

JEL: H2 - Taxation, Subsidies, and Revenue
  JEL: H20 - General
  JEL: H21 - Efficiency; Optimal taxation
  JEL: H22 - Incidence
  JEL: H23 - Externalities; Redistributive Effects; Environmental taxes and Subsidies
  JEL: H24 - Personal Income and Other Nonbusiness Taxes and Subsidies
  JEL: H25 - Business Taxes and Subsidies
  JEL: H26 - Tax Evasion
  JEL: H27 - Other Sources of Revenue
  JEL: H29 - Other

JEL: H3 - Fiscal Policies and Behavior of Economic Agents
  JEL: H30 - General
  JEL: H31 - Household
  JEL: H32 - Firm
  JEL: H39 - Other

JEL: H4 - Publicly provided goods
  JEL: H40 - General
  JEL: H41 - Public goods
  JEL: H42 - Publicly Provided Private Goods
  JEL: H43 - Project evaluation; Social discount rate
  JEL: H49 - Other

JEL: H5 - National Government Expenditures and Related Policies
  JEL: H50 - General
  JEL: H51 - Government Expenditures and Health
  JEL: H52 - Government Expenditures and Education
  JEL: H53 - Government Expenditures and Welfare Programs
  JEL: H54 - Infrastructures; Other Public Investment and Capital Stock
  JEL: H55 - Social security and Public Pensions
  JEL: H56 - National Security and War
  JEL: H57 - Procurement
JEL: H59 - Other

JEL: H6 - National Budget, Deficit, and Debt
   JEL: H60 - General
   JEL: H61 - Budget; Budget Systems
   JEL: H62 - Deficit; Surplus
   JEL: H63 - Debt; Debt Management
   JEL: H68 - Forecasts of Budgets, Deficits, and Debt
   JEL: H69 - Other

JEL: H7 - State and Local Government; Intergovernmental Relations
   JEL: H70 - General
   JEL: H71 - State and Local Taxation, Subsidies, and Revenue
   JEL: H72 - State and Local Budget and Expenditures
   JEL: H73 - Interjurisdictional Differentials and Their Effects
   JEL: H74 - State and Local Borrowing
   JEL: H77 - Intergovernmental Relations; Federalism
   JEL: H79 - Other

JEL: H8 - Miscellaneous Issues
   JEL: H80 - General
   JEL: H81 - Governmental Loans, Loan Guarantees, Credits, and Grants
   JEL: H82 - Governmental Property
   JEL: H83 - Public administration
   JEL: H87 - International Fiscal Issues; International Public Goods
   JEL: H89 - Other

**Health, education, and welfare JEL: I Subcategories**

JEL: I - Health, Education, and Welfare
Category: Health, education, and welfare economics

JEL: I0 - General
   JEL: I00 - General

JEL: I1 - Health
   JEL: I10 - General
   JEL: I11 - Analysis of Health Care Markets
   JEL: I12 - Health Production: Nutrition, Mortality, Morbidity, Substance abuse and Addiction, Disability, and Economic Behavior
   JEL: I18 - Government Policy; Regulation; Public health
   JEL: I19 - Other

JEL: I2 - Education
   JEL: I20 - General
   JEL: I21 - Analysis of Education
   JEL: I22 - Educational finance
JEL: I23 - Higher Education Research Institutions
JEL: I28 - Government Policy
JEL: I29 - Other

JEL: I3 - Welfare and Poverty
JEL: I30 - General
JEL: I31 - General Welfare; Basic needs; Living standards; Quality of life; Happiness
JEL: I32 - Measurement and Analysis of Poverty
JEL: I38 - Government Policy; Provision and Effects of Welfare Programs
JEL: I39 - Other

Labor and demographic economics JEL: J Subcategories

JEL: J - Labor and Demographic Economics
Category: Labor and demographic economics
Category: Labor
Category: Demographic economics

JEL: J0 - General
JEL: J00 - General

JEL: J1 - Demographic Economics
JEL: J10 - General
JEL: J11 - Demographic Trends and Forecasts
JEL: J12 - Marriage; Marital Dissolution; Family Structure
JEL: J13 - Fertility; Family Planning; Child Care; Children; Youth
JEL: J14 - Economics of the Elderly; Economics of the Handicapped
JEL: J15 - Economics of Minorities and Races; Non-labor Discrimination
JEL: J16 - Economics of gender; Non-labor Discrimination
JEL: J17 - Value of life; Foregone Income
JEL: J18 - Public Policy
JEL: J19 - Other

JEL: J2 - Time Allocation, Work Behavior, and Employment Determination and Creation; Human capital
JEL: J20 - General
JEL: J21 - Labor force and Employment, Size, and Structure
JEL: J22 - Time allocation and Labor supply
JEL: J23 - Employment Determination; Job creation; Demand for labor; Self-employment
JEL: J24 - Human capital; Skills; Occupational choice; Labor productivity
JEL: J26 - Retirement; Retirement policies
JEL: J28 - Safety; Accidents; Industrial Health; Job Satisfaction; Related Public Policy
JEL: J29 - Other

JEL: J3 - Wages, Compensation, and Labor Costs
JEL: J30 - General
JEL: J31 - Wage Level and Structure; Wage differentials by Skill, Training, Occupation, etc.
JEL classification codes

JEL: J32 - Nonwage labor costs and Benefits; Private pensions
JEL: J33 - Compensation Packages; Payment Methods
JEL: J38 - Public Policy
JEL: J39 - Other

JEL: J4 - Particular Labor Markets
JEL: J40 - General
JEL: J41 - Contracts: Specific Human Capital, Matching models, Efficiency wage Models, and Internal labor markets
JEL: J42 - Monopsony; Segmented Labor Markets
JEL: J43 - Agricultural Labor Markets
JEL: J44 - Professional Labor Markets and Occupations
JEL: J45 - Public Sector Labor Markets
JEL: J48 - Public Policy
JEL: J49 - Other

JEL: J5 - Labor–Management Relations, Trade Unions, and Collective Bargaining
JEL: J50 - General
JEL: J51 - Trade unions: Objectives, Structure, and Effects
JEL: J52 - Dispute Resolution: Strikes, Arbitration, and Mediation; Collective bargaining
JEL: J53 - Labor-management relations; Industrial Jurisprudence
JEL: J54 - Producer cooperatives; Labor managed firms
JEL: J58 - Public Policy
JEL: J59 - Other

JEL: J6 - Mobility, Unemployment, and Vacancies
JEL: J60 - General
JEL: J61 - Geographic Labor Mobility; Immigrant Workers
JEL: J62 - Job, Occupational, and Intergenerational mobility
JEL: J63 - Turnover; Vacancies; Layoffs
JEL: J64 - Unemployment: Models, Duration, Incidence, and Job Search
JEL: J65 - Unemployment insurance; Severance pay; Plant closings
JEL: J68 - Public Policy
JEL: J69 - Other

JEL: J7 - Labor Discrimination
JEL: J70 - General
JEL: J71 - Discrimination
JEL: J78 - Public Policy
JEL: J79 - Other

JEL: J8 - Labor Standards: National and International
JEL: J80 - General
JEL: J81 - Working conditions
JEL: J82 - Labor Force Composition
JEL: J83 - Workers' Rights
JEL: J88 - Public Policy
JEL: J89 - Other

Law and economics JEL: K Subcategories

JEL: K - Law and Economics
Category:Law and economics
JEL: K0 - General
    JEL: K00 - General
JEL: K1 - Basic Areas of Law
    JEL: K10 - General
    JEL: K11 - Property Law
    JEL: K12 - Contract Law
    JEL: K13 - Tort Law and Product Liability
    JEL: K14 - Criminal Law
    JEL: K19 - Other
JEL: K2 - Regulation and Business Law
    JEL: K20 - General
    JEL: K21 - Antitrust Law
    JEL: K22 - Corporation and Securities Law
    JEL: K23 - Regulated Industries and Administrative Law
    JEL: K29 - Other
JEL: K3 - Other Substantive Areas of Law
    JEL: K30 - General
    JEL: K31 - Labor Law
    JEL: K32 - Environmental, Health, and Safety Law
    JEL: K33 - International Law
    JEL: K34 - Tax Law
    JEL: K35 - Personal Bankruptcy Law
    JEL: K39 - Other
JEL: K4 - Legal Procedure, the Legal System, and Illegal Behavior
    JEL: K40 - General
    JEL: K41 - Litigation Process
    JEL: K42 - Illegal Behavior and the Enforcement of Law
    JEL: K49 - Other
Industrial organization JEL: L Subcategories

Category: Industrial organization

JEL: L - Industrial Organization

JEL: L0 - General
  JEL: L00 - General

  JEL: L10 - General
  JEL: L11 - Production, Pricing, and Market Structure; Size Distribution of Firms
  JEL: L12 - Monopoly; Monopolization Strategies
  JEL: L13 - Oligopoly and Other Imperfect Markets
  JEL: L14 - Transactional Relationships; Contracts and Reputation; Networks
  JEL: L15 - Information and Product Quality; Standardization and Compatibility
  JEL: L16 - Industrial Organization and Macroeconomics; Macroeconomic Industrial Structure; Industrial Price Indices
  JEL: L19 - Other

JEL: L2 - Firm Objectives, Organization, and Behavior
  JEL: L20 - General
  JEL: L21 - Business Objectives of the Firm
  JEL: L22 - Firm Organization and Market Structure: Markets vs. Hierarchies; Vertical integration; Conglomerates
  JEL: L23 - Organization of Production
  JEL: L24 - Contracting out; Joint ventures
  JEL: L25 - Firm Performance: Size, Age, Profit, and Sales
  JEL: L26 - Entrepreneurship
  JEL: L29 - Other

JEL: L3 - Non-profit organizations and Public enterprise
  JEL: L30 - General
  JEL: L31 - Nonprofit Institutions; NGOs
  JEL: L32 - Public enterprises
  JEL: L33 - Comparison of Public and Private Enterprises; Privatization; Contracting out
  JEL: L39 - Other

JEL: L4 - Antitrust Issues and Policies
  JEL: L40 - General
  JEL: L41 - Monopolization; Horizontal Anticompetitive Practices
  JEL: L42 - Vertical Restraints; Resale Price Maintenance; Quantity Discounts
  JEL: L43 - Legal Monopolies and Regulation or Deregulation
  JEL: L44 - Antitrust Policy and Public Enterprise, Nonprofit Institutions, and Professional Organizations
  JEL: L49 - Other

JEL: L5 - Regulation and Industrial policy
JEL: L50 - General
JEL: L51 - Economics of Regulation
JEL: L52 - Industrial Policy; Sectoral Planning Methods
JEL: L53 - Government Promotion of Firms
JEL: L59 - Other

JEL: L6 - Industry Studies: Manufacturing
JEL: L60 - General
JEL: L61 - Metals and Metal Products; Cement; Glass; Ceramics
JEL: L62 - Automobiles; Other Transportation Equipment
JEL: L63 - Microelectronics; Computers; Communications Equipment
JEL: L64 - Other Machinery; Business Equipment; Armaments
JEL: L65 - Chemicals; Rubber; Drugs; Biotechnology
JEL: L66 - Food; Beverages; Cosmetics; Tobacco
JEL: L67 - Other Consumer Nondurables: Clothing, Textiles, Shoes, and Leather
JEL: L68 - Appliances; Other Consumer Durables
JEL: L69 - Other

JEL: L7 - Industry Studies: Primary Products and Construction
JEL: L70 - General
JEL: L71 - Mining, Extraction, and Refining: Hydrocarbon Fuels
JEL: L72 - Mining, Extraction, and Refining: Other Nonrenewable Resources
JEL: L73 - Forest Products: Lumber and Paper
JEL: L74 - Construction
JEL: L78 - Government Policy
JEL: L79 - Other

JEL: L8 - Industry Studies: Services
JEL: L80 - General
JEL: L81 - Retail and Wholesale Trade; Warehousing; e-Commerce
JEL: L82 - Entertainment; Media (Performing Arts, Visual Arts, Broadcasting, Publishing, etc.)
JEL: L83 - Sports; Gambling; Recreation; Tourism
JEL: L84 - Personal, Professional, and Business Services
JEL: L85 - Real Estate Services
JEL: L86 - Information and Internet Services; Computer Software
JEL: L87 - Postal and Delivery Services
JEL: L88 - Government Policy
JEL: L89 - Other

JEL: L9 - Industry Studies: Transportation and Utilities
JEL: L90 - General
JEL: L91 - Transportation: General
JEL: L92 - Railroads and Other Surface Transportation: Autos, Buses, Trucks, and Water Carriers; Ports
JEL: L93 - Air Transportation
JEL: L94 - Electric Utilities
JEL: L95 - Gas Utilities; Pipelines; Water Utilities
JEL: L96 - Telecommunications
JEL: L97 - Utilities: General
JEL: L98 - Government Policy
JEL: L99 - Other

Business administration and business economics; marketing; accounting JEL: M Subcategories

JEL: M0 - General
  JEL: M00 - General
JEL: M1 - Business Administration
  JEL: M10 - General
  JEL: M11 - Production Management
  JEL: M12 - Personnel Management
  JEL: M13 - New firms and Startup companies
  JEL: M14 - Corporate culture; Social Responsibility
  JEL: M15 - IT Management
  JEL: M16 - International Business Administration
  JEL: M19 - Other
JEL: M2 - Business Economics
  JEL: M20 - General
  JEL: M21 - Business economics
  JEL: M29 - Other
JEL: M3 - Marketing and Advertising
  JEL: M30 - General
  JEL: M31 - Marketing
  JEL: M37 - Advertising
  JEL: M38 - Government Policy and Regulation
  JEL: M39 - Other
JEL: M4 - Accounting and Auditing
  JEL: M40 - General
  JEL: M41 - Accounting scholarship
  JEL: M42 - Auditing
  JEL: M48 - Government Policy and Regulation
  JEL: M49 - Other
JEL: M5 - Personnel economics
  JEL: M50 - General
JEL: M51 - Firm Employment Decisions; Promotions (hiring, firing, turnover, part-time, temporary workers, seniority issues)

JEL: M52 - Compensation and Compensation Methods and Their Effects (stock options, fringe benefits, incentives, family support programs, seniority issues)

JEL: M53 - Training

JEL: M54 - Labor Management (team formation, worker empowerment, job design, tasks and authority, job satisfaction)

JEL: M55 - Labor Contracting Devices: Outsourcing; Franchising; Other

JEL: M59 - Other

**Economic history JEL: N Subcategories**

JEL: N - Economic History

Category:Economic history

JEL: N0 - General

  JEL: N00 - General
  JEL: N01 - Development of the Discipline: Historiographical; Sources and Methods

JEL: N1 - Macroeconomics and Monetary Economics; Growth and Fluctuations

  JEL: N10 - General, International, or Comparative
  JEL: N11 - U.S.; Canada: Pre-1913
  JEL: N12 - U.S.; Canada: 1913–
  JEL: N13 - Europe: Pre-1913
  JEL: N14 - Europe: 1913–
  JEL: N15 - Asia including Middle East
  JEL: N16 - Latin America; Caribbean
  JEL: N17 - Africa; Oceania

JEL: N2 - Financial Markets and Institutions

  JEL: N20 - General, International, or Comparative
  JEL: N21 - U.S.; Canada: Pre-1913
  JEL: N22 - U.S.; Canada: 1913–
  JEL: N23 - Europe: Pre-1913
  JEL: N24 - Europe: 1913–
  JEL: N25 - Asia including Middle East
  JEL: N26 - Latin America; Caribbean
  JEL: N27 - Africa; Oceania

JEL: N3 - Labor and Consumers, Demography, Education, Income, and Wealth

  JEL: N30 - General, International, or Comparative
  JEL: N31 - U.S.; Canada: Pre-1913
  JEL: N32 - U.S.; Canada: 1913–
  JEL: N33 - Europe: Pre-1913
  JEL: N34 - Europe: 1913–
JEL classification codes

JEL: N35 - Asia including Middle East
JEL: N36 - Latin America; Caribbean
JEL: N37 - Africa; Oceania

JEL: N4 - Government, War, Law, and Regulation
JEL: N40 - General, International, or Comparative
JEL: N41 - U.S.; Canada: Pre-1913
JEL: N42 - U.S.; Canada: 1913–
JEL: N43 - Europe: Pre-1913
JEL: N44 - Europe: 1913–
JEL: N45 - Asia including Middle East
JEL: N46 - Latin America; Caribbean
JEL: N47 - Africa; Oceania

JEL: N5 - Agriculture, Natural Resources, Environment, and Extractive Industries
JEL: N50 - General, International, or Comparative
JEL: N51 - U.S.; Canada: Pre-1913
JEL: N52 - U.S.; Canada: 1913–
JEL: N53 - Europe: Pre-1913
JEL: N54 - Europe: 1913–
JEL: N55 - Asia including Middle East
JEL: N56 - Latin America; Caribbean
JEL: N57 - Africa; Oceania

JEL: N6 - Manufacturing and Construction
JEL: N60 - General, International, or Comparative
JEL: N61 - U.S.; Canada: Pre-1913
JEL: N62 - U.S.; Canada: 1913–
JEL: N63 - Europe: Pre-1913
JEL: N64 - Europe: 1913–
JEL: N65 - Asia including Middle East
JEL: N66 - Latin America; Caribbean
JEL: N67 - Africa; Oceania

JEL: N7 - Transport, International and Domestic Trade, Energy, Technology, and Other Services
JEL: N70 - General, International, or Comparative
JEL: N71 - U.S.; Canada: Pre-1913
JEL: N72 - U.S.; Canada: 1913–
JEL: N73 - Europe: Pre-1913
JEL: N74 - Europe: 1913–
JEL: N75 - Asia including Middle East
JEL: N76 - Latin America; Caribbean
JEL: N77 - Africa; Oceania
JEL: N8 - Micro-Business History
   JEL: N80 - General, International, or Comparative
   JEL: N81 - U.S.; Canada: Pre-1913
   JEL: N82 - U.S.; Canada: 1913–
   JEL: N83 - Europe: Pre-1913
   JEL: N84 - Europe: 1913–
   JEL: N85 - Asia including Middle East
   JEL: N86 - Latin America; Caribbean
   JEL: N87 - Africa; Oceania

JEL: N9 - Regional and Urban History
   JEL: N90 - General, International, or Comparative
   JEL: N91 - U.S.; Canada: Pre-1913
   JEL: N92 - U.S.; Canada: 1913–
   JEL: N93 - Europe: Pre-1913
   JEL: N94 - Europe: 1913–
   JEL: N95 - Asia including Middle East
   JEL: N96 - Latin America; Caribbean
   JEL: N97 - Africa; Oceania

Economic development, technological change, and growth JEL: O
Subcategories

JEL: O - Economic Development, Technological Change, and Growth
Category:Economic development, technological change, and growth

JEL: O1 - Economic development
   JEL: O10 - General
   JEL: O11 - Macroeconomic Analyses of Economic Development
   JEL: O12 - Microeconomic Analyses of Economic Development
   JEL: O13 - Agriculture; Natural Resources; Energy; Environment; Other Primary Products
   JEL: O14 - Industrialization; Manufacturing and Service Industries; Choice of Technology
   JEL: O15 - Human Resources; Human Development; Income Distribution; Migration
   JEL: O16 - Financial Markets; Saving and Capital Investment
   JEL: O17 - Formal and Informal Sectors; Shadow Economy; Institutional Arrangements: Legal, Social, Economic, and Political
   JEL: O18 - Regional, Urban, and Rural Analyses, Transportation
   JEL: O19 - International Linkages to Development; Role of International Organizations

JEL: O2 - Development Planning and Policy
   JEL: O20 - General
   JEL: O21 - Planning Models; Planning Policy
   JEL: O22 - Project Analysis
   JEL: O23 - Fiscal and Monetary Policy in Development
JEL: O24 - Trade Policy; Factor Movement Policy; Foreign Exchange Policy
JEL: O25 - Industrial policy
JEL: O29 - Other

JEL: O3 - Technological Change; Research and Development
JEL: O30 - General
JEL: O31 - Innovation and Invention: Processes and Incentives
JEL: O32 - Management of Technological Innovation and R&D
JEL: O33 - Technological Change: Choices and Consequences; Diffusion Processes
JEL: O38 - Government Policy
JEL: O39 - Other

JEL: O4 - Economic Growth and Aggregate Productivity
JEL: O40 - General
JEL: O41 - One, Two, and Multisector Growth Models
JEL: O42 - Monetary Growth Models
JEL: O43 - Institutions and Growth
JEL: O44 - Environment and Growth
JEL: O47 - Measurement of Economic Growth; Aggregate Productivity
JEL: O49 - Other

JEL: O5 - Economywide Country Studies
JEL: O50 - General
JEL: O51 - U.S.; Canada
JEL: O52 - Europe
JEL: O53 - Asia including Middle East
JEL: O54 - Latin America; Caribbean
JEL: O55 - Africa
JEL: O56 - Oceania
JEL: O57 - Comparative Studies of Countries

Economic systems JEL: P Subcategories
JEL: P - Economic Systems
Category:Economic systems
JEL: P0 - General
JEL: P00 - General

JEL: P1 - Capitalist Systems
JEL: P10 - General
JEL: P11 - Planning, Coordination, and Reform
JEL: P12 - Capitalist Enterprises
JEL: P13 - Cooperative Enterprises
JEL: P14 - Property Rights
JEL classification codes

JEL: P16 - Political Economy
JEL: P17 - Performance and Prospects
JEL: P19 - Other

JEL: P2 - Socialist Systems and Transitional Economies
JEL: P20 - General
JEL: P21 - Planning, Coordination, and Reform
JEL: P22 - Prices
JEL: P23 - Factor and Product Markets; Industry Studies; Population
JEL: P24 - National Income, Product, and Expenditure; Money; Inflation
JEL: P25 - Urban, Rural, and Regional Economics; Housing; Transportation
JEL: P26 - Political Economy; Property Rights
JEL: P27 - Performance and Prospects
JEL: P28 - Natural Resources; Energy; Environment
JEL: P29 - Other

JEL: P3 - Socialist Institutions and Their Transitions
JEL: P30 - General
JEL: P31 - Socialist Enterprises and Their Transitions
JEL: P32 - Collectives; Communes; Agriculture
JEL: P33 - International Trade, Finance, Investment, and Aid
JEL: P34 - Financial Economics
JEL: P35 - Public Economics
JEL: P37 - Legal Institutions; Illegal Behavior
JEL: P39 - Other

JEL: P4 - Other Economic Systems
JEL: P40 - General
JEL: P41 - Planning, Coordination, and Reform
JEL: P42 - Productive Enterprises; Factor and Product Markets; Prices; Population
JEL: P43 - Public Economics; Financial Economics
JEL: P44 - National Income, Product, and Expenditure; Money; Inflation
JEL: P45 - International Trade, Finance, Investment, and Aid
JEL: P46 - Consumer Economics; Welfare and Poverty
JEL: P47 - Performance and Prospects
JEL: P48 - Political Economy; Legal Institutions; Property Rights, Natural Resources; Energy; Environment; Regional Studies
JEL: P49 - Other

JEL: P5 - Comparative Economic Systems
JEL: P50 - General
JEL: P51 - Comparative Analysis of Economic Systems
JEL: P52 - Comparative Studies of Particular Economies
JEL: P59 - Other

**Agricultural and natural resource economics; environmental and ecological economics JEL: Q Subcategories**

JEL: Q - Agricultural and Natural Resource Economics; Environmental and Ecological Economics

Category:Agricultural and natural resource economics; environmental and ecological economics Category:Resource economics

JEL: Q0 - General

JEL: Q00 - General
JEL: Q01 - Sustainable development
JEL: Q02 - Global Commodity Crises

JEL: Q1 - Agriculture

JEL: Q10 - General
JEL: Q11 - Aggregate Supply and Demand Analysis; Prices
JEL: Q12 - Micro Analysis of Farm Firms, Farm Households, and Farm Input Markets
JEL: Q13 - Agricultural markets and Marketing; Cooperatives; Agribusiness
JEL: Q14 - Agricultural finance
JEL: Q15 - Land Ownership and Tenure; Land reform; Land use; Irrigation; Agriculture and Environment
JEL: Q16 - R&D; Agricultural technology; Biofuels; Agricultural Extension Services
JEL: Q17 - Agriculture in International Trade
JEL: Q18 - Agricultural policy; Food policy
JEL: Q19 - Other

JEL: Q2 - Renewable Resources and Conservation

JEL: Q20 - General
JEL: Q21 - Demand and Supply
JEL: Q22 - Fishery; Aquaculture
JEL: Q23 - Forestry
JEL: Q24 - Land
JEL: Q25 - Water
JEL: Q26 - Recreational Aspects of Natural Resources
JEL: Q28 - Government Policy
JEL: Q29 - Other

JEL: Q3 - Nonrenewable Resources and Conservation

JEL: Q30 - General
JEL: Q31 - Demand and Supply
JEL: Q32 - Exhaustible Resources and Economic Development
JEL: Q34 - Natural Resources and Domestic and International Conflicts
JEL: Q33 - Resource Booms
JEL: Q38 - Government Policy
JEL: Q39 - Other

JEL: Q4 - Energy

JEL: Q40 - General
JEL: Q41 - Demand and Supply
JEL: Q42 - Alternative Energy Sources
JEL: Q43 - Energy and the Macroeconomy
JEL: Q47 - Energy Forecasting
JEL: Q48 - Government Policy
JEL: Q49 - Other

JEL: Q5 - Environmental economics

JEL: Q50 - General
JEL: Q51 - Valuation of Environmental Effects
JEL: Q52 - Pollution Control Adoption Costs; Distributional Effects; Employment Effects
JEL: Q53 - Air Pollution; Water Pollution; Noise; Hazardous Waste; Solid Waste; Recycling
JEL: Q54 - Climate; Natural Disasters, Global Warming
JEL: Q55 - Technological Innovation
JEL: Q56 - Environment and Development; Environment and Trade; Sustainability; Environment Accounts and Accounting; Environmental Equity; Population Growth
JEL: Q57 - Ecological economics: Ecosystem Services; Biodiversity Conservation; Bioeconomics; Industrial Ecology
JEL: Q58 - Government Policy
JEL: Q59 - Other

Urban, rural, and regional economics JEL: R Subcategories

JEL: R - Urban, Rural, and Regional economics
Category:Urban, rural, and regional economics

JEL: R0 - General

JEL: R00 - General

JEL: R1 - General Regional economics

JEL: R10 - General
JEL: R11 - Regional Economic Activity: Growth, Development, and Changes
JEL: R12 - Size and Spatial Distributions of Regional Economic Activity; Interregional Trade
JEL: R13 - General Equilibrium and Welfare Economic Analysis of Regional Economies
JEL: R14 - Land Use Patterns
JEL: R15 - Econometric and Input–Output Models; Other Models
JEL: R19 - Other

JEL: R2 - Household Analysis

JEL: R20 - General
JEL: R21 - Housing Demand
JEL: R22 - Other Demand
JEL classification codes

JEL: R23 - Regional Migration; Regional Labor Markets; Population
JEL: R29 - Other

JEL: R3 - Production Analysis and Firm Location
  JEL: R30 - General
  JEL: R31 - Housing Supply and Markets
  JEL: R32 - Other Production and Pricing Analysis
  JEL: R33 - Nonagricultural and Nonresidential Real Estate Markets
  JEL: R34 - Input Demand Analysis
  JEL: R38 - Government Policies; Regulatory Policies
  JEL: R39 - Other

JEL: R4 - Transportation Systems
  JEL: R40 - General
  JEL: R41 - Transportation: Demand; Supply; Congestion; Safety and Accidents
  JEL: R42 - Government and Private Investment Analysis
  JEL: R48 - Government Pricing; Regulatory Policies
  JEL: R49 - Other

JEL: R5 - Regional Government Analysis
  JEL: R50 - General
  JEL: R51 - Finance in Urban and Rural Economies
  JEL: R52 - Land Use and Other Regulations
  JEL: R53 - Public Facility Location Analysis; Public Investment and Capital Stock
  JEL: R58 - Regional Development Policy
  JEL: R59 - Other

Miscellaneous categories (economics) JEL: Y Subcategories

Category: Miscellaneous categories (economics)

JEL: Y1 - Data: Tables and Charts
  JEL: Y10 - Data: Tables and Charts

JEL: Y2 - Introductory Material
  JEL: Y20 - Introductory Material

JEL: Y3 - Book Reviews (unclassified)
  JEL: Y30 - Book Reviews (unclassified)

JEL: Y4 - Dissertations (unclassified)
  JEL: Y40 - Dissertations (unclassified)

JEL: Y5 - Further Reading (unclassified)
  JEL: Y50 - Further Reading (unclassified)

JEL: Y6 - Excerpts
  JEL: Y60 - Excerpts

JEL: Y6 - No Author General Discussions
  JEL: Y60 - No Author General Discussions
JEL classification codes

JEL: Y8 - JEL: Related Disciplines
   JEL: Y80 - Related Disciplines

JEL: Y9 - Other
   JEL: Y90 - Other
   JEL: Y91 - Pictures and Maps

Other special topics (economics) JEL: Z Subcategories

Category:Other special topics (economics)
JEL: Z - Other special topics
JEL: Z0 - General
   JEL: Z00 - General

JEL: Z1 - Cultural Economics; Economic Sociology; Economic Anthropology
   JEL: Z10 - General
   JEL: Z11 - Economics of the Arts and Literature
   JEL: Z12 - Religion
   JEL: Z13 - Economic Sociology; Economic Anthropology; Social and Economic Stratification
   JEL: Z19 - Other

Notes

[3] An alphabetic list of category links constructed as corresponding JEL-code (sub)categories and listed below is at Category:Categories which are included in the JEL classification codes.

External links

• Full list of JEL classifications (http://www.aeaweb.org/journal/jel_class_system.html)
• JEL Classification Codes Guide (http://www.aeaweb.org/jel/guide/jel.php), which provides a more detailed explanation of the classification system
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