

# Asri Apriliana Sitorus

## Computer Engineering



## Work Experience

### BEM Sekolah Vokasi IPB

- Divisi Dana dan Konsumsi pada kegiatan Bina Desa 2019
- Aktif pada kegiatan Akademi Pengabdian Vokasi 2020

### Forum Mahasiswa Kristen SV IPB

- Aktif dari tahun 2019-2022
- Aktif Forum mahasiswa Batak 2019

### Penulis di Sastramedia Pustaka

- Penulis Favorit periode Januari-Februari 2021

### Pekan Kreativitas Mahasiswa (PKM)

- Sebagai ketua tim PKM PI 2021
- Lolos pendanaan oleh Ditmawa Program Kreativista (PKM) Penerapan Iptek 2021
- Fasilitator PKM Center IPB 2022

### Kegiatan MBKM Sociopreneur

- Kegiatan One Village One CEO Sukabumi 2021
- Melakukan Praktik Kerja Lapangan di DSITD IPB University Januari-Maret 2022
- Pelatihan Cisco Networking Academy CCNA 2019-2022

## Education

### Sekolah Menengah Pertama

SMP N 2 Porsea | 2013-2016

### Sekolah Menengah Atas

SMA N 1 Siantar Narumonda | SAINTEK  
2016-2019

### School University

IPB University | Teknik Komputer  
2019-Sekarang

Saya mahasiswa semester akhir yang saat ini sedang mengejar karir untuk mengembangkan pengetahuan dan pengalaman kerja dan saya tertarik untuk menjadi Full stack web developer, data science, IT Support, System analisis, Hardware engineering, Networking. Terampil dalam berbicara di depan umum dan berpikir kritis serta bekerja secara independen atau sebagai tim. saya suka memotivasi Einstein.

## Skills

Networking	<div></div>
Communication	<div></div>
Database	<div></div>
Problem Solving	<div></div>
Computer program	<div></div>
Microsoft word	<div></div>
Microsoft excel	<div></div>
Software & Hardware	<div></div>

## Contact

✉ asrisitorus04@gmail.com

📷 @asri\_ailin

📞 081376846978

🌐 Asri Sitorus

Jalan Babakan Sirna No.53

🏠 Rt.03/Rw.09, Babakan, Bogor  
tengah-Bogor kota Jawa Barat  
16128

## IT Essentials

The student has successfully achieved student level credential for completing IT Essentials course administered by the undersigned instructor. The student was able to proficiently:

- Select and install the appropriate computer components to build, repair, or upgrade personal computers.
- Demonstrate safe lab procedures.
- Appropriate use of tools to perform preventive maintenance and troubleshooting on personal computers.
- Perform installation, repair, maintenance, and troubleshooting of Windows operating systems.
- Explain the operation of local area networks and configure devices to connect to LANs and the Internet.
- Configure devices to connect to the Internet and Cloud services.
- Explain how to configure, repair, upgrade, maintain, and troubleshoot laptops and mobile devices.
- Explain how to configure, secure and troubleshoot mobile, OS X, and Linux operating systems.
- Install and share a printer to meet requirements.
- Implement basic host, data, and network security.
- Explain the roles and responsibilities of the IT professional.

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**Asri Sitorus**

Student

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**Sekolah Vokasi Institut Pertanian Bogor**

Academy Name

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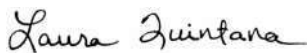
**Indonesia**

Location

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**8 Jan 2021**

Date



Laura Quintana  
VP & General Manager, Cisco Networking Academy

## CCNAv7: Enterprise Networking, Security, and Automation

The student has successfully achieved student level credential for completing CCNAv7: Enterprise Networking, Security, and Automation course administered by the undersigned instructor. The student was able to proficiently:

- Configure single-area OSPFv2 in both point-to-point and multiaccess networks.
- Explain how to mitigate threats and enhance network security using access control lists and security best practices.
- Implement standard IPv4 ACLs to filter traffic and secure administrative access.
- Configure NAT services on the edge router to provide IPv4 address scalability.
- Explain techniques to provide address scalability and secure remote access for WANs.
- Explain how to optimize, monitor, and troubleshoot scalable network architectures.
- Explain how networking devices implement QoS.
- Implement protocols to manage the network.
- Explain how technologies such as virtualization, software defined networking, and automation affect evolving networks.

**Asri Sitorus**

Student

**Sekolah Vokasi Institut Pertanian Bogor**

Academy Name

**Indonesia**

Location

**Aep Setiawan**

Instructor

**1 Jul 2021**

Date



Instructor Signature

## IT Essentials

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- Implement basic host, data, and network security.
- Explain the roles and responsibilities of the IT professional.

**Asri Sitorus**

Student

**Sekolah Vokasi Institut Pertanian Bogor**

Academy Name

**Indonesia**

Location

**Aep Setiawan**

Instructor

**8 Jan 2021**

Date



Instructor Signature

## CCNAv7: Introduction to Networks

The student has successfully achieved student level credential for completing CCNAv7: Introduction to Networks course administered by the undersigned instructor. The student was able to proficiently:

- Configure switches and end devices to provide access to local and remote network resources.
- Explain how physical and data link layer protocols support the operation of Ethernet in a switched network.
- Configure routers to enable end-to-end connectivity between remote devices.
- Create IPv4 and IPv6 addressing schemes and verify network connectivity between devices
- Explain how the upper layers of the OSI model support network applications.
- Configure a small network with security best practices.
- Troubleshoot connectivity in a small network.

**Asri Sitorus**

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Student

**Sekolah Vokasi Institut Pertanian Bogor**

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Academy Name

**Indonesia**

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Location

**4 Jul 2020**

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Date



Laura Quintana  
VP & General Manager, Cisco Networking Academy

## CCNAv7: Introduction to Networks

The student has successfully achieved student level credential for completing CCNAv7: Introduction to Networks course administered by the undersigned instructor. The student was able to proficiently:

- Configure switches and end devices to provide access to local and remote network resources.
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**Asri Sitorus**

Student

**Sekolah Vokasi Institut Pertanian Bogor**

Academy Name

**Indonesia**

Location

**Aep Setiawan**

Instructor

**4 Jul 2020**

Date



Instructor Signature

## CCNAv7: Switching, Routing, and Wireless Essentials

The student has successfully achieved student level credential for completing CCNAv7: Switching, Routing, and Wireless Essentials course administered by the undersigned instructor. The student was able to proficiently:

- Configure VLANs and Inter-VLAN routing applying security best practices.
- Troubleshoot inter-VLAN routing on Layer 3 devices.
- Configure redundancy on a switched network using STP and EtherChannel.
- Troubleshoot EtherChannel on switched networks.
- Explain how to support available and reliable networks using dynamic addressing and first-hop redundancy protocols.
- Configure dynamic address allocation in IPv6 networks.
- Configure WLANs using a WLC and L2 security best practices.
- Configure switch security to mitigate LAN attacks.
- Configure IPv4 and IPv6 static routing on routers.

**Asri Sitorus**

Student

**Sekolah Vokasi Institut Pertanian Bogor**

Academy Name

**Indonesia**

Location

**Aep Setiawan**

Instructor

**1 Jul 2021**

Date



Instructor Signature





KEMENTERIAN PENDIDIKAN, KEBUDAYAAN, RISET, DAN TEKNOLOGI  
DIREKTORAT JENDERAL PENDIDIKAN TINGGI, RISET, DAN TEKNOLOGI

# SERTIFIKAT

NOMOR : 6163/E2/KM.05.01/2021

Diberikan kepada

J3D119018	ASRI APRILIANA SITORUS
J3L119042	FERONIKA BUTARBUTAR
J3J119009	ALEXANDER BUTARBUTAR
J3D219168	NIFATI SARI DAELI

Institut Pertanian Bogor  
sebagai

## Peraih Pendanaan

Program Kreativitas Mahasiswa (PKM) Skema PKMPI  
**MONITORING PERTUMBUHAN TANAMAN JAHE (ZINGIBER OFFICINALE)  
BERBASIS ARDUINO UNO DI DAERAH AMBORGANG SUMATERA UTARA**

Jakarta, 17 Oktober 2021  
Direktur Pembelajaran dan Kemahasiswaan



Aris Junaidi  
NIP. 196306041989031022





**Sekolah Vokasi**  
College of Vocational Studies

# SERTIFIKAT

No. 3942/IT3.S3/KP/2021

Diberikan kepada :

**Asri Apriliana Sitorus**

sebagai :

**Peserta Seleksi Program Kreativitas Mahasiswa (PKM) di Tingkat Sekolah Vokasi**

**BIDANG PKM : PKM PI**

**JUDUL PKM :**

**MONITORING PERTUMBUHAN TANAMAN JAHE (ZINGIBER OFFICINALE) BERBASIS ARDUINO UNO DI  
DAERAH AMBORGANG SUMATERA UTARA**

Learning Hours Kegiatan

Kegiatan	Learning Hours	Softskill
Perumusan Ide	2,1	Critical Thinking, Creativity
Penyusunan Proposal	10,5	
Unggah IPB dan Review Proposal	2,1	
<b>Total Learning Hours</b>	<b>14,7</b>	

**Wakil Dekan Bidang Akademik  
dan Kemahasiswaan**



**Dr.Ir. Bagus P. Purwanto, M.Agr**

**NIP. 19600503198503 1 003**



**Sekolah Vokasi**  
College of Vocational Studies

# SERTIFIKAT

No. 3942/IT3.S3/KP/2021

Diberikan kepada :

**Asri Apriliana Sitorus**

sebagai :

**Peserta Lolos Seleksi Program Kreativitas Mahasiswa (PKM) di Tingkat Sekolah Vokasi IPB**

**BIDANG PKM : PKM PI**

**JUDUL PKM :**

**MONITORING PERTUMBUHAN TANAMAN JAHE (ZINGIBER OFFICINALE) BERBASIS ARDUINO UNO DI  
DAERAH LAMBORGANG SUMATERA UTARA**

Learning Hours Kegiatan

Kegiatan	Learning Hours	Softskill
Perumusan Ide	2,1	Critical Thinking, Creativity
Penyusunan Proposal	10,5	
Unggah IPB dan Review Proposal	2,1	
Perbaikan Proposal	4,2	
Finalisasi Proposal dan Unggah Simbelmawa	2,1	
<b>Total Learning Hours</b>	<b>21,0</b>	

**Wakil Dekan Bidang Akademik  
dan Kemahasiswaan**



**Dr. Ir. Bogus P. Purwanto, M. Agr**

**NIP. 19600503198503 1 003**





Kampus  
Merdeka  
INDONESIA



kedaireka



DIREKTORAT KEMAHASISWAAN DAN PENGEMBANGAN KARIR  
IPB UNIVERSITY

# SERTIFIKAT

Diberikan kepada :

**Asri Apriliana Sitorus**

GRADE : **A**

yang telah menyelesaikan Program

## **MBKM SOCIOPRENEUR ONE VILLAGE ONE CEO**

Kolaborasi IPB University dengan PT. Astra Internasional Tbk dan  
Badan Restorasi Gambut dan Mangrove (BRGM) pada tanggal  
17 September - 26 Desember 2021

Bogor, 13 Januari 2022  
Direktur Kemahasiswaan dan Pengembangan Karir  
IPB University

Dr. Alim Setiawan Slamet, S.TP, M.Si  
NIP. 198202272009121001



Kampus  
Merdeka



kedaireka



## Lampiran I. Rekapitulasi Jam Pembelajaran & Output

Aktivitas	Group/ Individual	Learning Hours (Minutes)		Equal Credit (SKS)*	Output
		Inspiring Talk	Task		
Workshop and Coaching (CEO School)					
Kick Off and Overview One Village One CEO KedaiReka Kampus Merdeka	Individu	150	150	0.11	Memahami dasar-dasar dan gambaran umum pemberdayaan desa melalui One Village One CEO
Pengenalan Ekosistem Bisnis Perdesaan (+ BMC) dan Pemataan Potensi Produk Unggulan Desa	Individu	100	150	0.09	Memahami dasar ekosistem bisnis perdesaan dan cara melakukan pemetaan potensi desa
Pemahaman urgensi peran pendidikan tinggi dan mahasiswa untuk terjun ke masyarakat (Peran Akademisi dalam Riset Aplikatif)	Individu	100	150	0.09	Memahami pentingnya peran akademisi terjun langsung dalam pemberdayaan desa
Pengenalan Teknologi Tepat Guna	Individu	100	150	0.09	Memahami teknologi yang dapat mendukung pengembangan potensi produk unggulan desa
Pengenalan Peran BUMDes dalam Mewujudkan "Desa Sejahtera" untuk mencapai SDGs	Individu	100	150	0.09	Memahami peran BUMDes dalam mewujudkan "Desa Sejahtera" untuk mencapai SDGs
Pengenalan Peran CSR dalam membangun Ekosistem bisnis desa berbasis digital	Individu	100	150	0.09	Memahami peran CSR dalam membangun ekosistem bisnis desa berbasis digital
Pelatihan Social Return on Investment (SROI) Pemasaran Produk Unggulan (digital Marketing / konvensional	Individu	200	200	0.15	Laporan Penghitungan SROI + Memahami dasar Social Return on Investment (SROI)
Pelatihan pendampingan masyarakat di sekitar gambut dan mangrove	Individu	100	150	0.09	Memahami metode pendampingan masyarakat di sekitar gambut dan magrove
Pelatihan pengembangan ekowisata	Individu	100	200	0.11	BMC + Memahami cara menganalisa dan metode pengembangan ekowisata
Membangun kesadaran dan kepedulian mahasiswa dalam memelihara lingkungan	Individu	100	150	0.09	Menyadari dan peduli akan pentingnya memelihara lingkungan
Field Project					
Melaksanakan social and spatial mapping	Group	-	1680	0.62	Peta sosial, peta spatial karakteristik wilayah dan potensi desa
Melaksanakan perencanaan program (FGD/rembug desa dengan para pihak)	Group	-	3360	1.24	Terbentuknya Rencana Program Pengembangan Desa
Fasilitasi pelatihan dan praktik peningkatan kapasitas unit usaha (bagi BUMDesa, Koperasi, Kelompok Tani, dll)	Group	-	3360	1.24	Meningkatnya kapasitas Unit usaha (Terbentuknya unit usaha/peningkatan usaha)
Fasilitasi pelatihan dan praktik budidaya/produksi berbasis GAP bagi petani/nelayan/peternak	Group	-	3360	1.24	Adanya produk unggulan berbasis GAP
Melaksanakan pelatihan dan praktik pemasaran berbasis digital bagi BUMDesa/Koperasi, dll	Group	-	3360	1.24	Terbentuknya unit usaha berbasis online (e-commerce)
Melaksanakan pelatihan dan praktik post-harvest handling (penanganan Pasca Panen)	Group	-	3360	1.24	Adanya standarisasi dan pengembangan produk unggulan
Fasilitasi pelatihan bussiness dealing dengan oftaker	Group	-	3360	1.24	memiliki kemampuan menyampaikan keunggulan produk
Fasilitasi pelatihan dan praktik produksi produk Inovasi	Group	-	3360	1.24	adanya produk inovasi untuk skala usaha
Fasilitasi akses permodalan (bank, fintect, CSR, dll)	Group	-	3360	1.24	Mendapatkan akses permodalan
Melaksanakan uji coba pemasaran produk	Group	-	5280	1.94	Terjadinya penjualan produk
Melaksanakan Bussiness Development Analisis ( keberlanjutan bisnis)	Group	-	1680	0.62	Adanya rencana pengembangan bisnis
Melaksanakan Quality and Process Improvement	Group	-	1680	0.62	Produk inovasi berstandar nasional dan siap ekspor
Publikasi dan Laporan ( Publication, Presentation, and Report Activities)					
a. Menyusun bahan presentasi (PPT dan Infografis) kegiatan	Group	-	480	0.18	PPT Laporan Kegiatan dan Infografis
b. Menyusun laporan kegiatan	Group	-	480	0.18	Laporan kegiatan
c. Membuat Video Kegiatan	Group	-	480	0.18	Video Dokumentasi Kegiatan
d. Mengikuti Ekspo Merdeka Belajar (Kewirus expo)	Group	-	600	0.22	Adanya oftaker dan media publikasi
e. Menyusun BMC Unit Usaha (BUMDes, BUMDesma, UMKM, Koperasi)	Group	-	2400	0.88	Terbentuknya BMC unit usaha
f. Menyusun Publikasi Media Massa	Group	-	4800	1.76	Adanya publikasi dan jurnal ilmiah kegiatan OVOC pada media lokal dan atau internasional
g. Merancang roadmap (rencana pengembangan program) Unit usaha	Individu	-	4800	1.76	Roadmap pengembangan proyek
h. Presentasi akhir	Individu	-	2400	0.88	Pelaporan kegiatan
Total Learning Activity			56390	20.73	

## Lampiran II. Rekapitulasi Penilaian

No	Poin Penilaian	Bobot Penilaian	Keterangan Nilai
1	Silabus Kode A ( <i>Workshop and Coaching</i> )	5%	A = $\geq 80$ AB = 75 – 79 B = 70 – 74 BC = 65 – 69 C = $< 65$
2	Silabus Kode B ( <i>Field Project</i> )	65%	
3	Silabus Kode C ( <i>Publication, Presentation, and Report Activities</i> )	30%	
<b>TOTAL</b>		<b>100%</b>	

## Lampiran III. Skillset

Empathy, Communication and Teamwork, Critical Thinking, Complex Problem Solving and Decision Making, Curiosity and Active Learning, Integrity, Collaboration, Creativity, Adaptability, Leadership & Entrepreneurship, Agility

-Village Empowering for Global Impact-